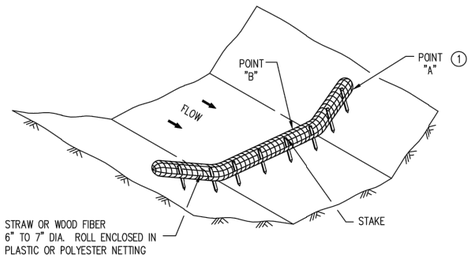
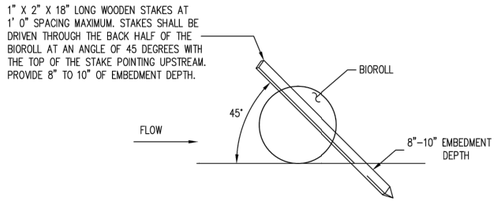


TYPE 2: BIOROLL DITCH CHECK

USE ON ROUGH GRADED AREAS



BIOROLL STAKING DETAIL

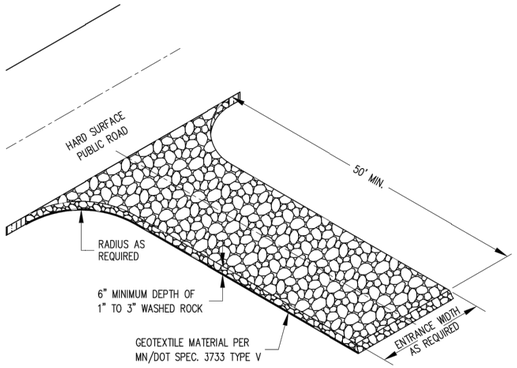
NOTES:

SEE SPECS. 2573, 3889.

SEE SHEET 1 FOR DITCH CHECK SPACING.

(1) POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

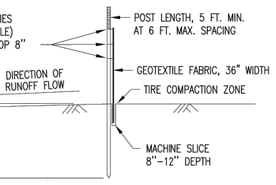
WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 TEMP. SEDIMENT CONTROL TYPE 2 DITCH CHECKS			
SHT 3 OF 6 SHTS	DATE REVISED 06/21/07	PLATE NO. 7.03	REV. A



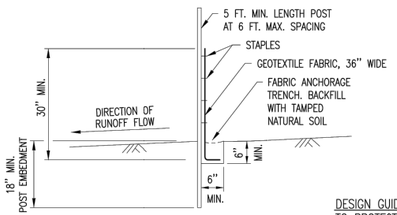
MAINTENANCE (INCIDENTAL)

THE ROCK PAD SHALL BE MAINTAINED TO PREVENT THE TRACKING OF MUD ONTO PAVED ROADS, INCLUDING PERIODIC TOP DRESSING WITH ADDITIONAL ROCK OR REMOVAL AND REINSTALLATION OF THE PAD AS NECESSARY.

WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 TEMPORARY ROCK CONSTRUCTION ENTRANCE			
SHT 1 OF 1 SHTS	DATE REVISED 06/21/07	PLATE NO. 7.06	REV. D

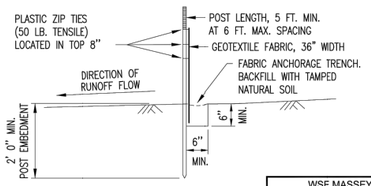


STANDARD MACHINE SLICED



PREASSEMBLED

DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE



HEAVY DUTY (HAND INSTALLED)

REFERENCE: MN/DOT SPEC. 3886

WSE MASSEY ENGINEERING & SURVEYING KASSON, MN 55944 SILT FENCE DETAILS			
SHT 1 OF 2 SHTS	DATE REVISED 06/21/07	PLATE NO. 7.01	REV. B

EROSION PREVENTION PRACTICES:

SOD/SEED MIX:
MNDOT SEED MIX AND/OR SOD WITH APPROPRIATE MNDOT FERTILIZER WILL BE USED AS PERMANENT COVER FOR ALL EXPOSED GROUND AREAS PER MANUFACTURERS SPECIFICATIONS.

EROSION CONTROL BLANKET:
A MNDOT CLASSIFIED EROSION CONTROL BLANKET SHALL BE ADDED IN COMBINATION WITH SEED MIX/FERTILIZER TO ALL AREAS SLOPED AT 3:1 OR GREATER, HIGH PRIORITY AREAS, AS WELL AS IN OR NEAR DITCH BOTTOMS TO ESTABLISH PERMANENT EROSION CONTROL.

TEMPORARY WINTER COVER:
AREAS OF EXPOSED SOILS THAT ARE NOT COMPLETED BEFORE THE WINTER WILL BE STABILIZED WITH TYPE #3MULCH(CERTIFIED AS WEED FREE) ADJACENT TO WETLAND OR STORMWATER PONDS. ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH TYPE #1 MULCH. ALL EXPOSED SOILS SHALL BE STABILIZED BEFORE CONSTRUCTION IS COMPLETED FOR THE SEASON.

EROSION PREVENTION:

CONSTRUCTION OF SILT FENCE AND ALL OTHER EROSION CONTROL MEASURES SHALL BE COMPLETE BEFORE OTHER CONSTRUCTION ACTIVITY OCCURS.

USE PHASED CONSTRUCTION WHENEVER PRACTICAL AND ESTABLISH TURF AS SOON AS POSSIBLE TO MINIMIZE SEDIMENT TRANSPORT.

THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER RAIN EVENTS FOR DAMAGE TO EROSION CONTROL DEVICES. IF DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES ARE DISCOVERED, THEY SHALL BE REPAIRED OR REPLACED.
THE CONTRACTOR SHALL MAINTAIN INSPECTION RECORDS, WHICH INCLUDE DATE AND TIME OF INSPECTIONS, DATES OF RAINFALL EVENTS, RAINFALL AMOUNT, FINDINGS OF INSPECTIONS, CORRECTIVE ACTIONS TAKEN (INCLUDING DATES AND TIMES), AND DOCUMENTATION OF ANY CHANGES TO THE TEMPORARY OR PERMANENT EROSION CONTROL PLANS MADE DURING CONSTRUCTION.

TEMPORARY STOCKPILES REQUIRE ADDITIONAL SEDIMENT CONTROL AND TEMPORARY COVER AFTER 7 DAYS.

TURF ESTABLISHMENT OR TEMPORARY SEEDING OF ALL EXPOSED SOIL NOT BEING ACTIVELY WORKED SHALL BE STABILIZED:

EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE MINIMUM, AND ADDITIONAL MEASURES MUST BE INSTALLED AS NEEDED TO CONTROL EROSION AND SEDIMENT.

EFFECTIVE CONTAINMENT IS REQUIRED FOR ALL LIQUID AND SOLID WASTE GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY.

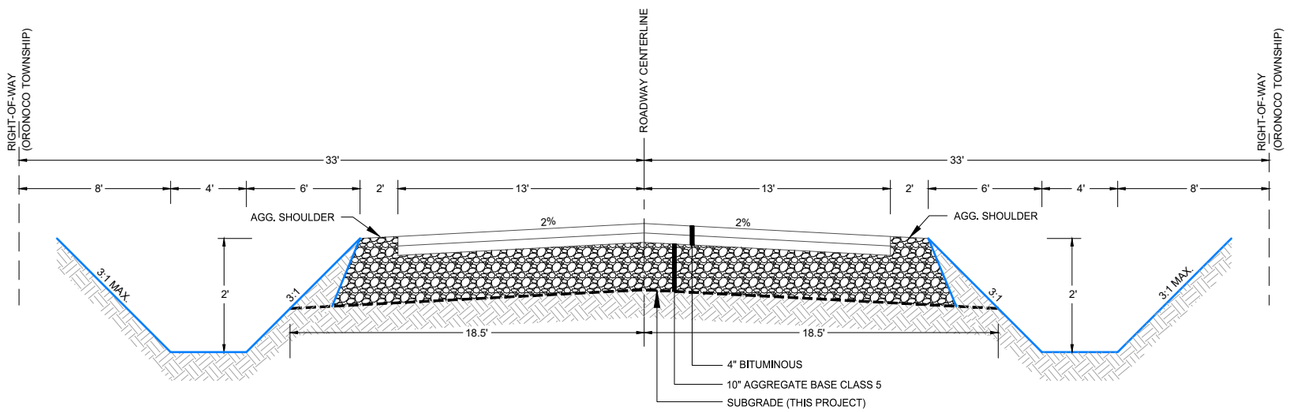
TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINAGE (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) MUST DISCHARGE TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DEWATER TO SURFACE WATERS IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE.

GRADING NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT DOES NOT LEAVE THIS SITE. IT IS RECOMMENDED (NOT REQUIRED) THAT THE CONTRACTOR INSTALL A STABILIZED VEHICLE EXIT TO KEEP SEDIMENT TRACKING TO A MINIMUM.
2. ALL PROPOSED ELEVATIONS ARE TOP OF PAVING OR FINISHED GRADE, UNLESS NOTED OTHERWISE. PROPOSED ELEVATIONS ARE INTENDED TO PROVIDE POSITIVE DRAINAGE TOWARDS CATCH BASINS AND/OR OUTLETS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE REQUIRED ELEVATIONS, WHICH WILL PROMOTE POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE.
3. SPOT ELEVATIONS ARE FLOW LINE AND/OR FINISHED GRADES, UNLESS OTHERWISE INDICATED BY THE LOCATION OF THE SPOT. ADD 6" TO FLOW LINE ELEVATIONS TO OBTAIN THE TOP OF CURB ELEVATIONS, UNLESS NOTED OTHERWISE.
4. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP) SHALL BE INSTALLED BEFORE LAND DISTURBING OPERATIONS BEGIN AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE ENGINEERING DEPARTMENTS AND UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES.
7. THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EARTHWORK QUANTITY ON THIS SITE. EXCESS MATERIAL, IF ANY SHALL BE DISPOSED OF OFF-SITE. THE CONTRACTOR SHALL IMPORT SUITABLE MATERIAL AS NEEDED.
8. CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.
9. IF THERE ARE OPTIONS FOR HOME TYPE, NO MATTER WHICH IS CHOSEN, THE GRADES AND SPOT ELEVATIONS MUST BE IN COMPLIANCE WITH FREEBOARD REQUIREMENTS FROM THE LOW OPENING.
10. CONTRACTOR IS RESPONSIBLE TO NOTIFY THE CITY AND THE OWNER IMMEDIATELY IF UNSUITABLE SOILS ARE ENCOUNTERED.

EXISTING UTILITY NOTES:

THE LOCATION OF UNDERGROUND AND OVERHEAD FACILITIES OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THERE MAY BE ADDITIONAL UNDERGROUND AND OVERHEAD UTILITIES NOT SHOWN ON THE PLAN THAT MAY BE REQUIRE RELOCATION OR REMOVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST A GOPHER STATE ONE CALL PRIOR TO THE START OF ANY CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.



FUTURE LANE NW

TYPICAL SECTION STA. 12+25 - 15+45

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Number Date

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RIVER RIDGE FIFTH
ORONOCO TOWNSHIP, MINNESOTA
TYPICAL SECTION & DETAILS

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Sheet 1 of 3

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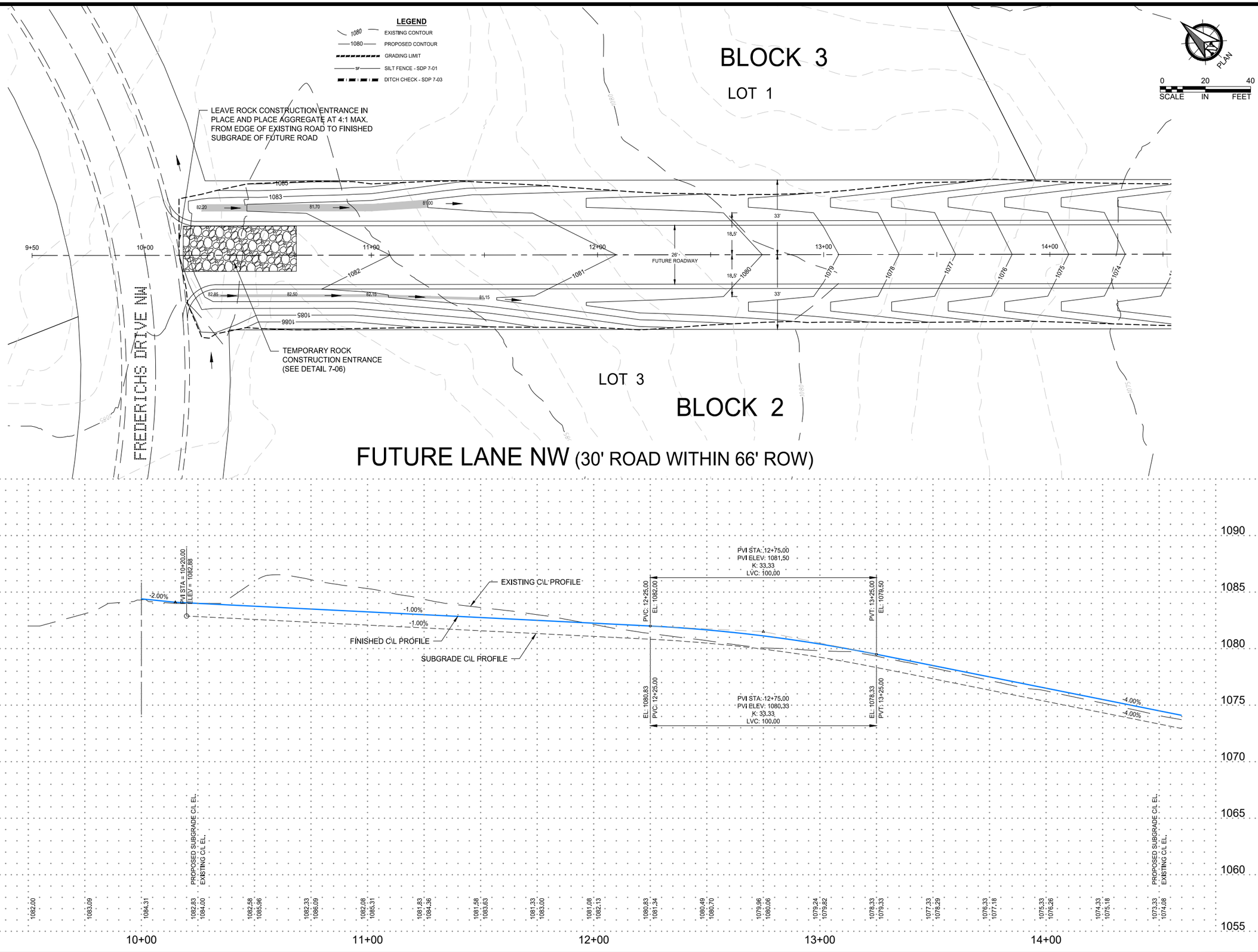

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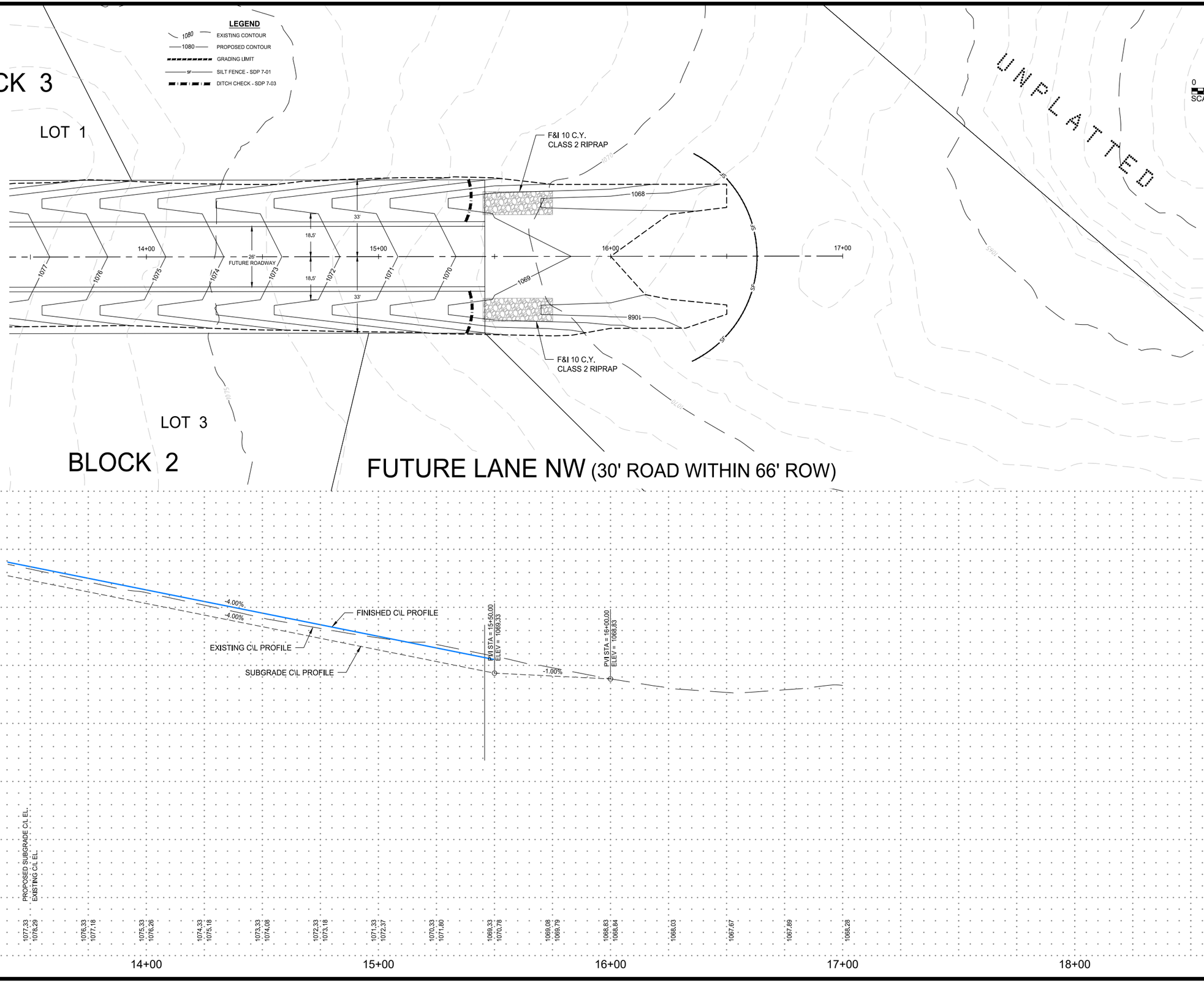

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