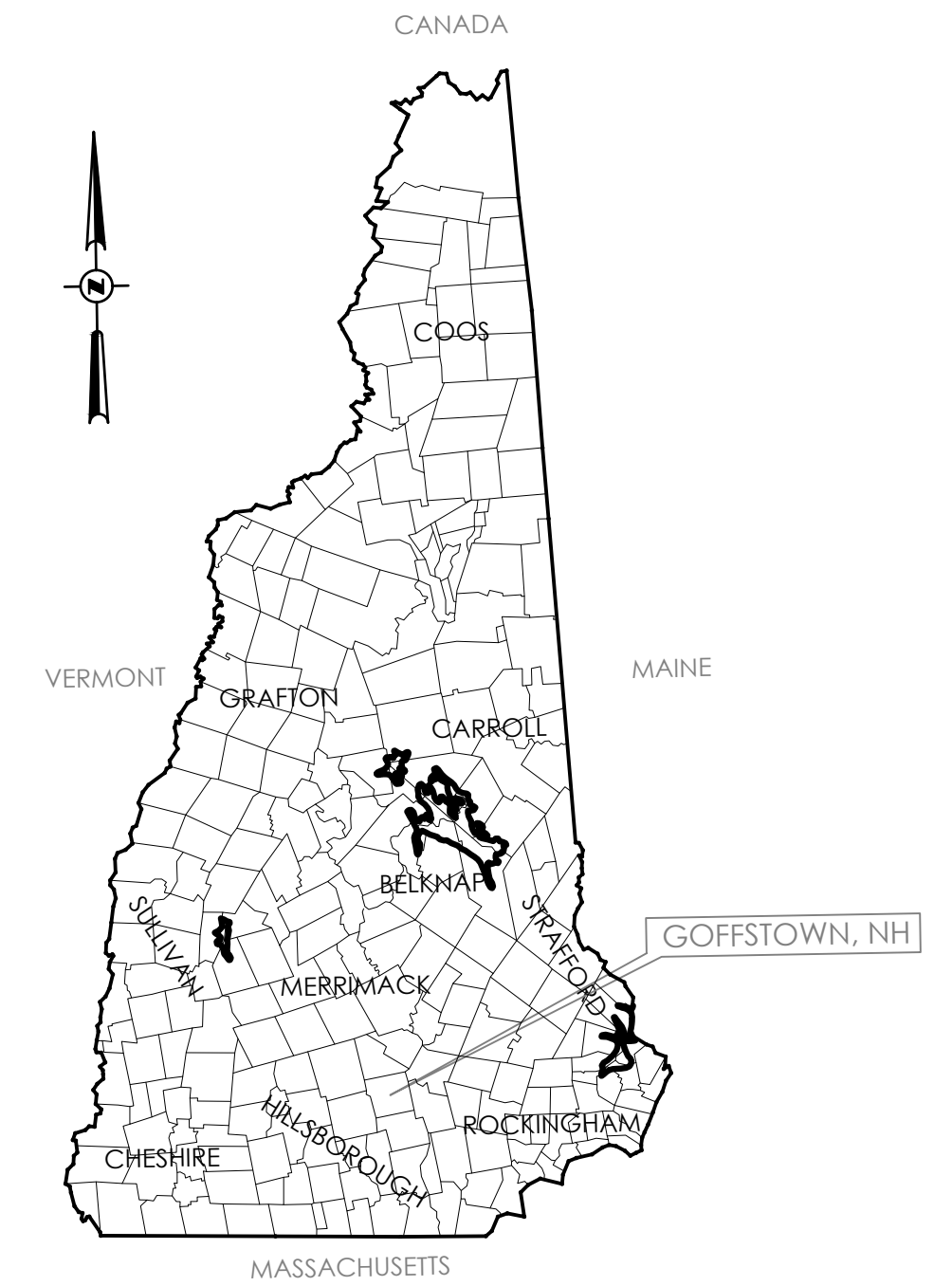


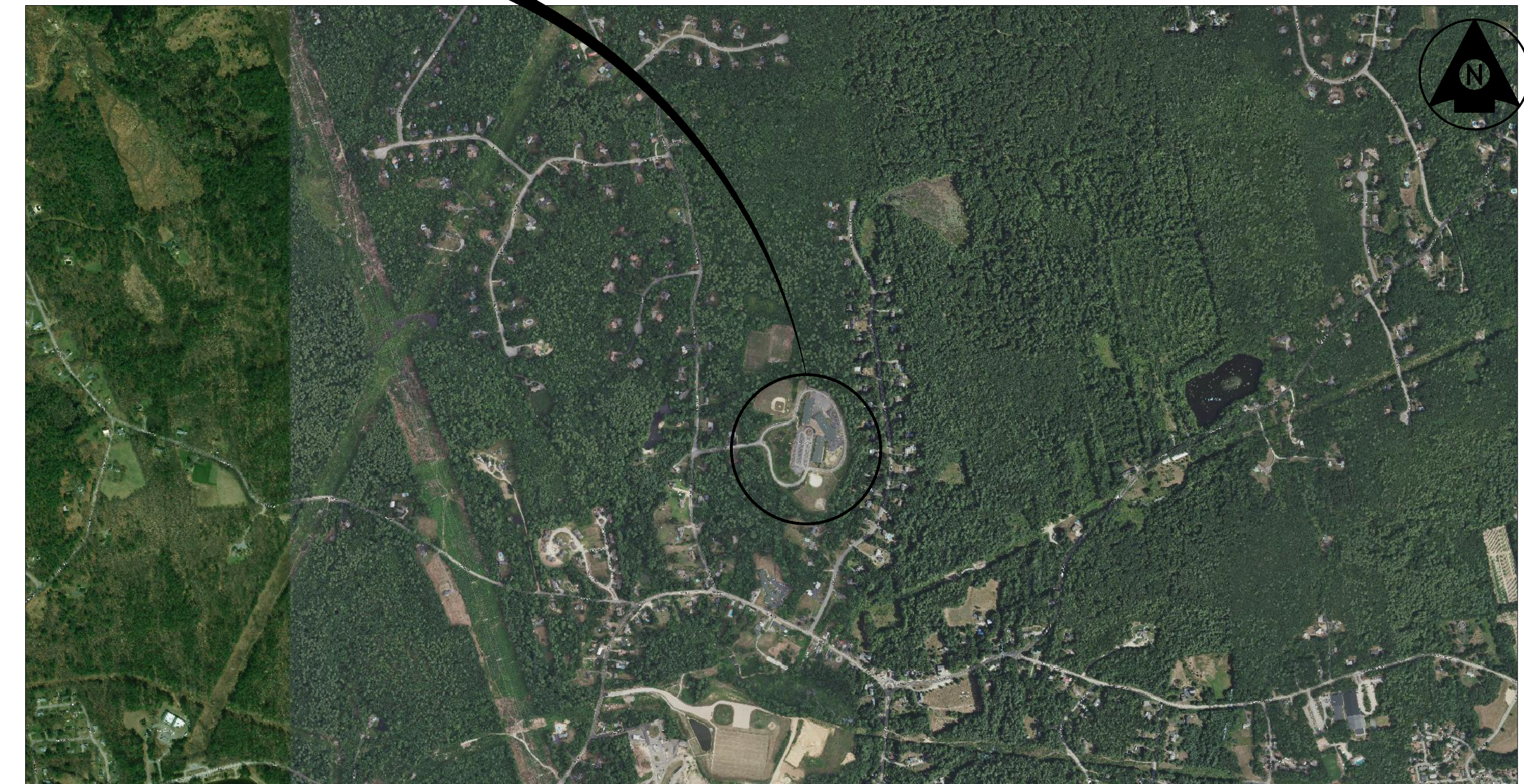


# Goffstown School District SAU19

## Mountain View Middle School Bus Turnaround



MOUNTAIN VIEW  
MIDDLE SCHOOL



VICINITY MAP  
SCALE: 1"=1000'

### Sheet List Table

Sheet Number	Sheet Title
C-001	COVER SHEET
C-100	GRADING PLAN
C-500	DRAINAGE DETAILS
C-501	ROADWAY DETAILS
C-502	EROSION CONTROL DETAILS

SUPERINTENDENT  
BRIAN BALKE

BUSINESS ADMINISTRATOR  
SCOTT GROSS

**BID DOCUMENTS**  
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JANUARY 2023

January 2023  
PROJECT NUMBER: 195113479

Set No. \_\_\_\_

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**Consultants**

**Legend**

**Notes**

1. CONTRACTOR TO ACCESS SITE FROM REAR OF SCHOOL
2. NO CONSTRUCTION VEHICLES TO ACCESS THROUGH MAIN ENTRANCE
3. EXISTING PAVEMENT TO BE SAW-CUT AND REMOVED

**Revision**

Revision	By	Appd.	YY.MM.DD
A. FOR BIDDING	MO	JDT	23.01.06
Issued	By	Appd.	YY.MM.DD

File Name: 13252\_C-100\_07.13.R1.dwg MO JDT JDT 22.05.09  
 Dwn. Chkd. Dsgn.

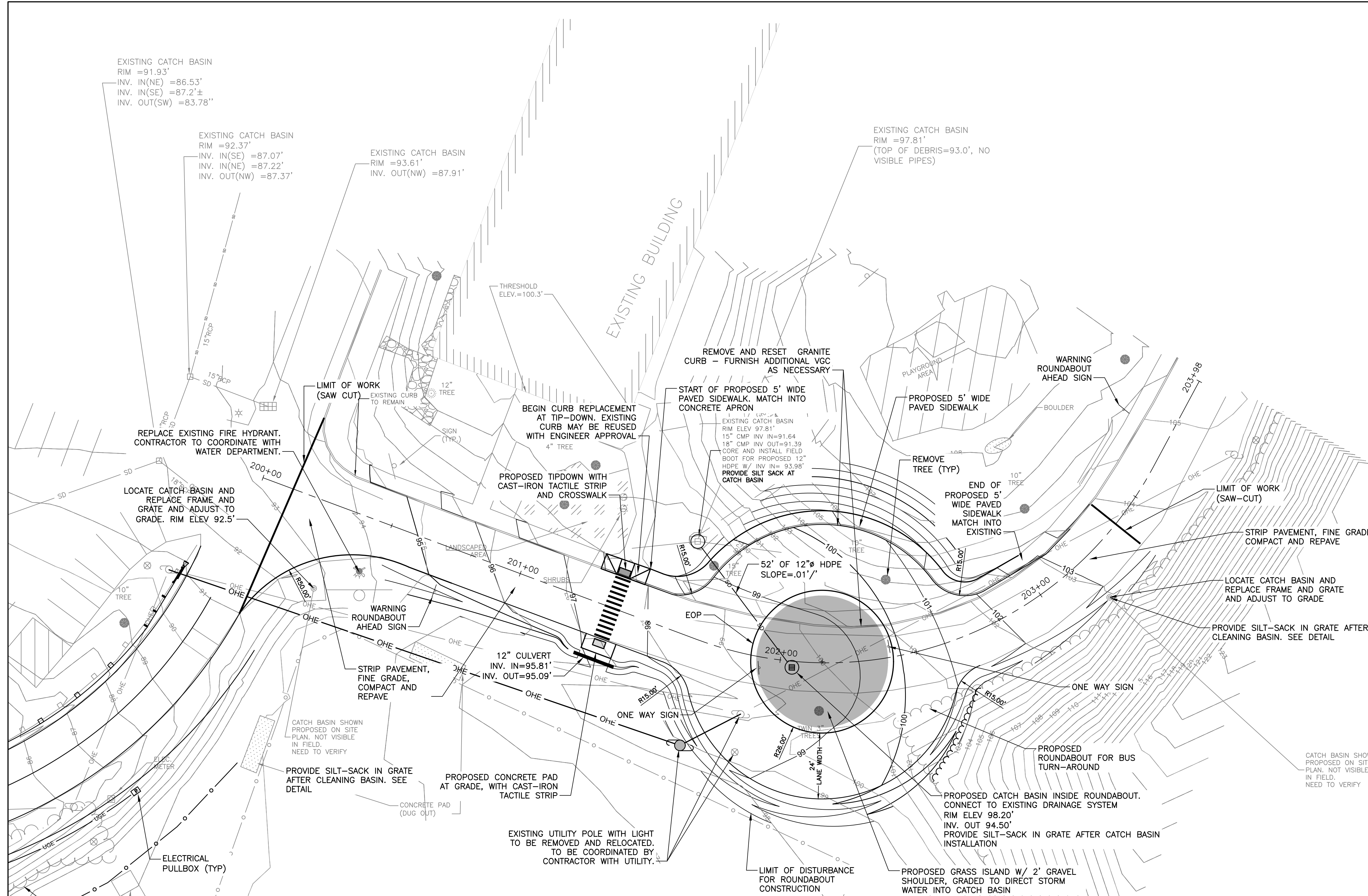
**Permit-Seal**

**Client/Project**  
 GOFFSTOWN SCHOOL DISTRICT

MOUNTAIN VIEW MIDDLE SCHOOL  
 BUS TURN-AROUND  
 Goffstown, New Hampshire

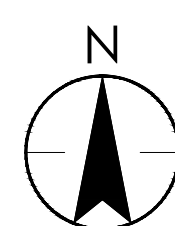
**Title**  
 GRADING PLAN

Project No.	Scale	
195113479	AS NOTED	
Drawing No.	Sheet	Revision
C-100	1 of 4	B



**PROPOSED SCHOOL BUS TURN-AROUND PLAN**

SCALE: 1"=20'



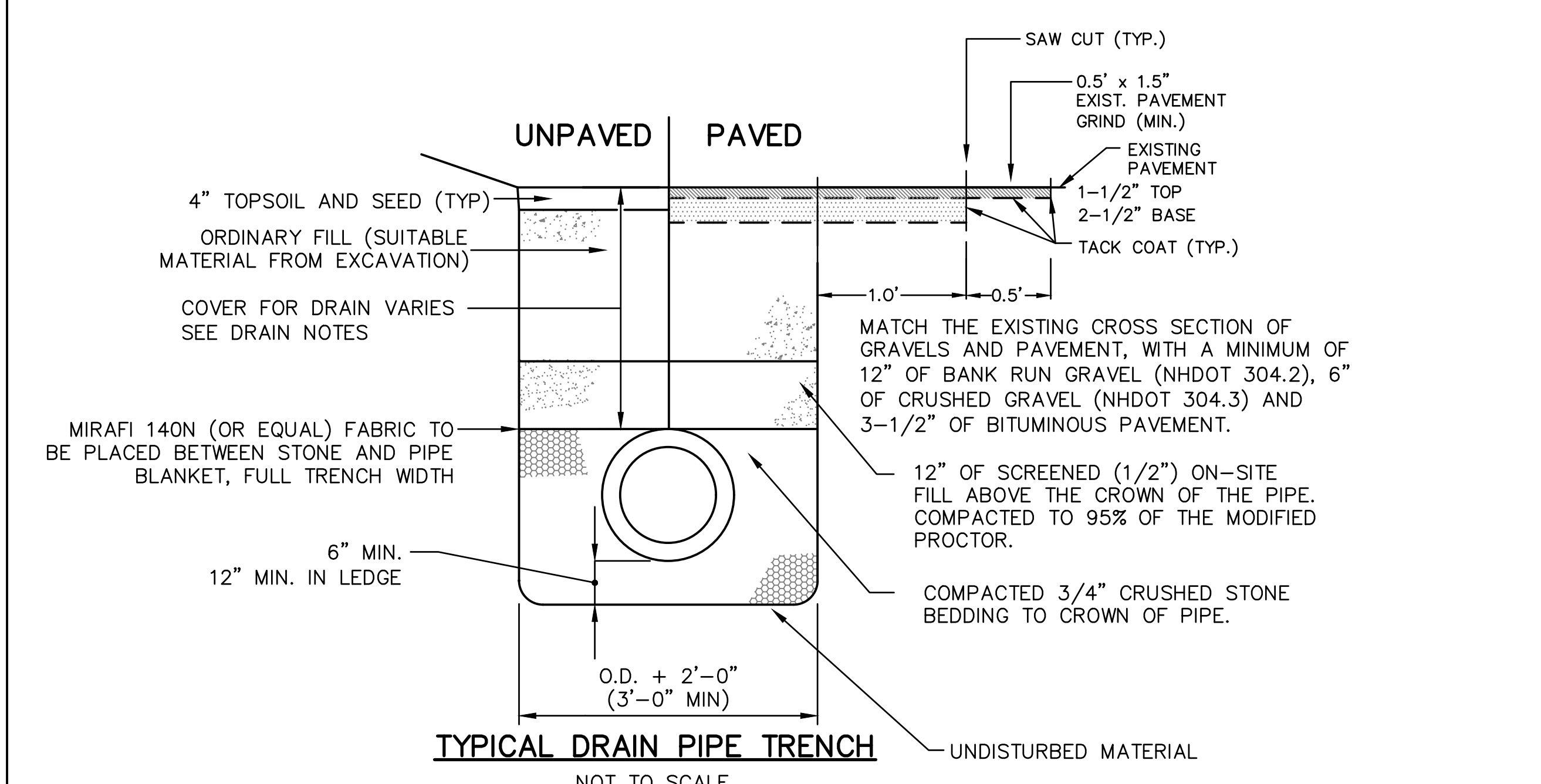
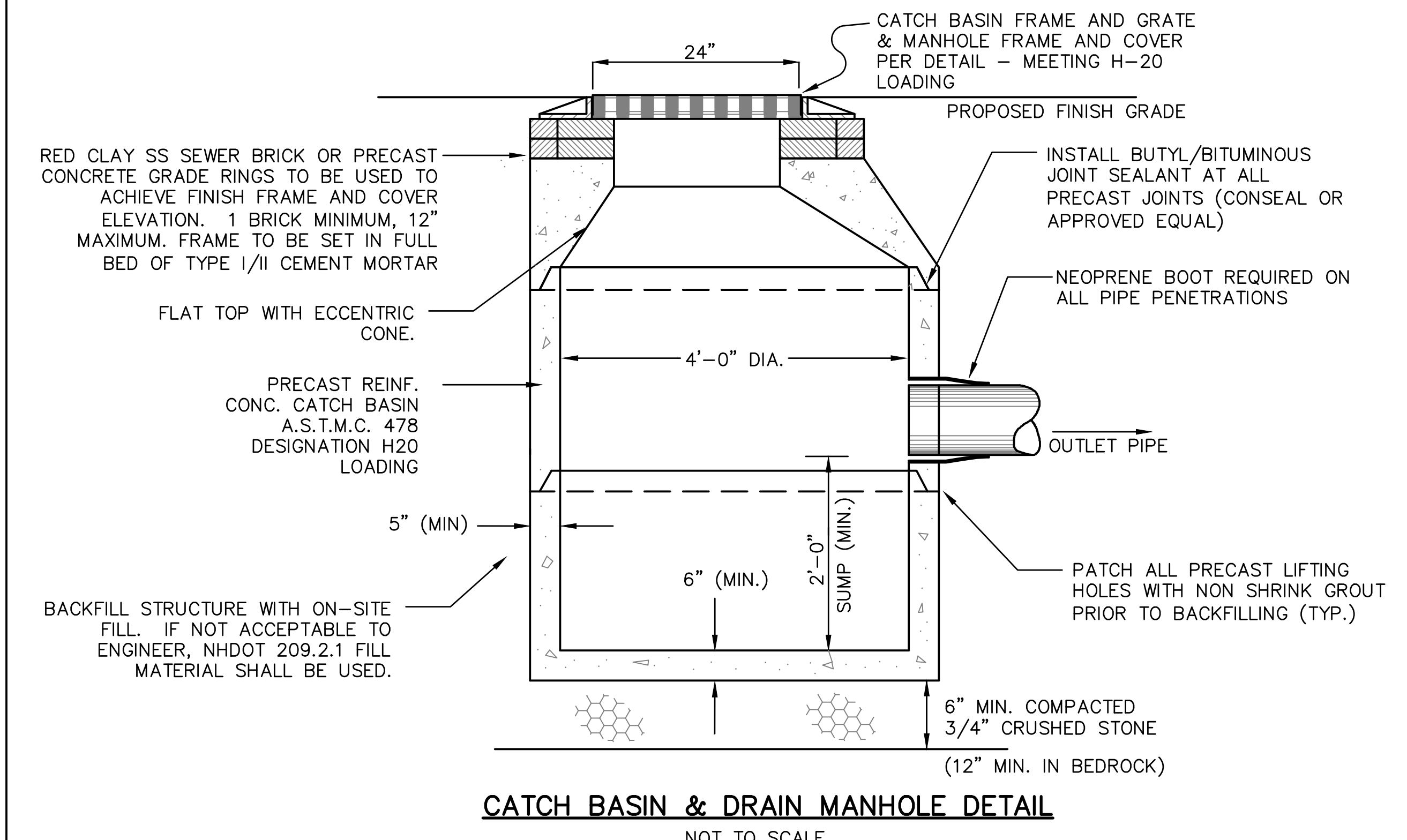
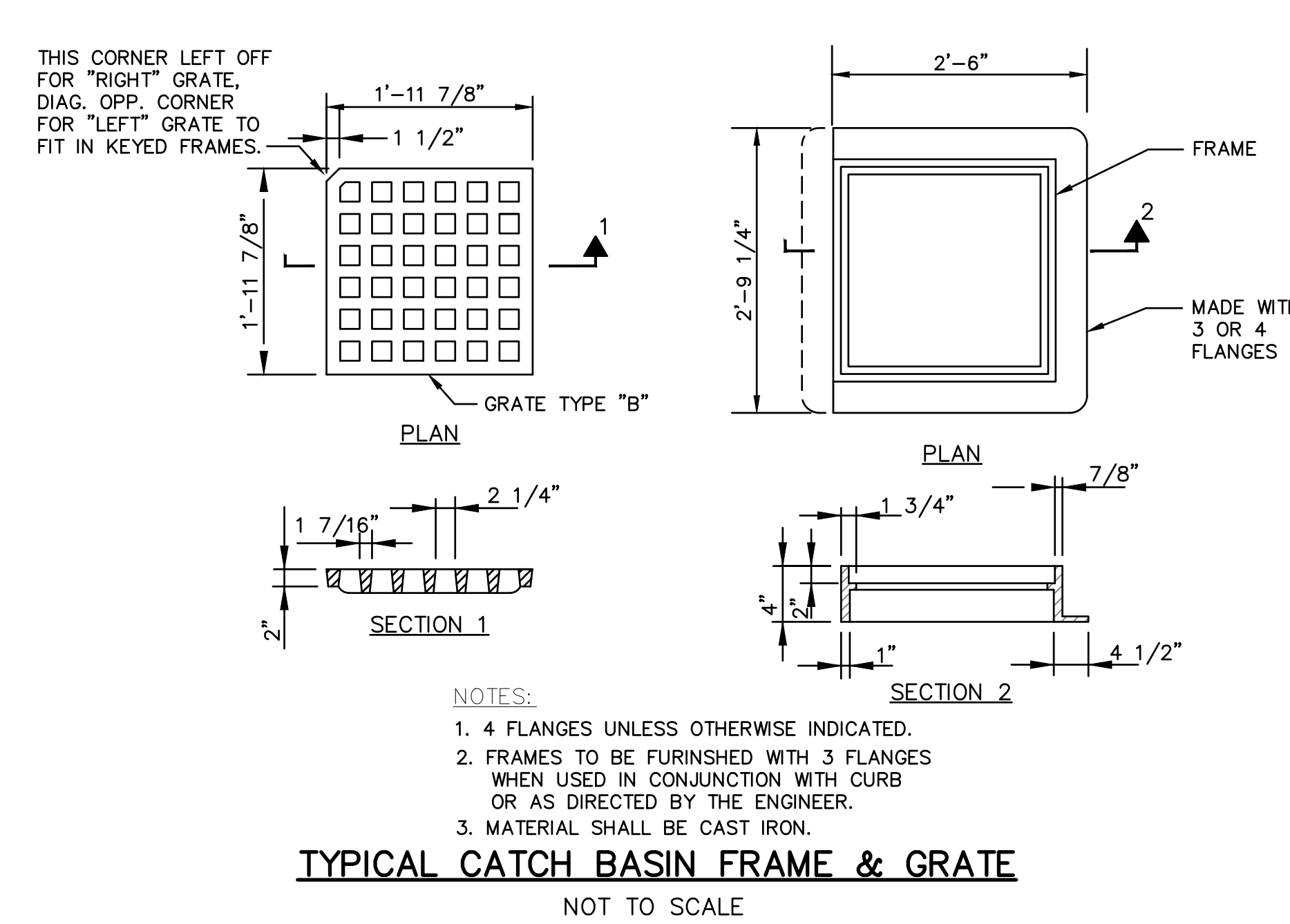
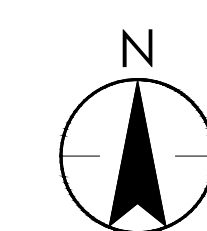
LAUREN LANE

**SITE KEY PLAN**

SCALE: 1"=200'



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Consultants

Legend

Notes

Revision \_\_\_\_\_ By \_\_\_\_\_ Appd. \_\_\_\_\_ YF.MM.DD

A. FOR BIDDING \_\_\_\_\_ MO \_\_\_\_\_ JDT \_\_\_\_\_ 2.3.01.06  
 Issued By Appd. YF.MM.DD

File Name: C-500 Detail Sheets.dwg DRW JDT JDT 22.05.09  
 Dwn. Chkd. Dsgn. YF.MM.DD

Permit-Seal

Client/Project  
 GOFFSTOWN SCHOOL DISTRICT

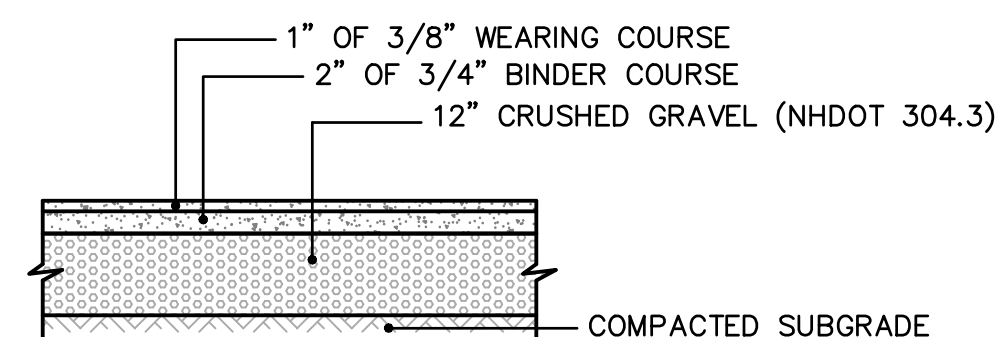
MOUNTAIN VIEW MIDDLE SCHOOL  
 BUS TURN-AROUND  
 Goffstown, New Hampshire

Title  
 DETAIL SHEET 2  
 ROADWAY

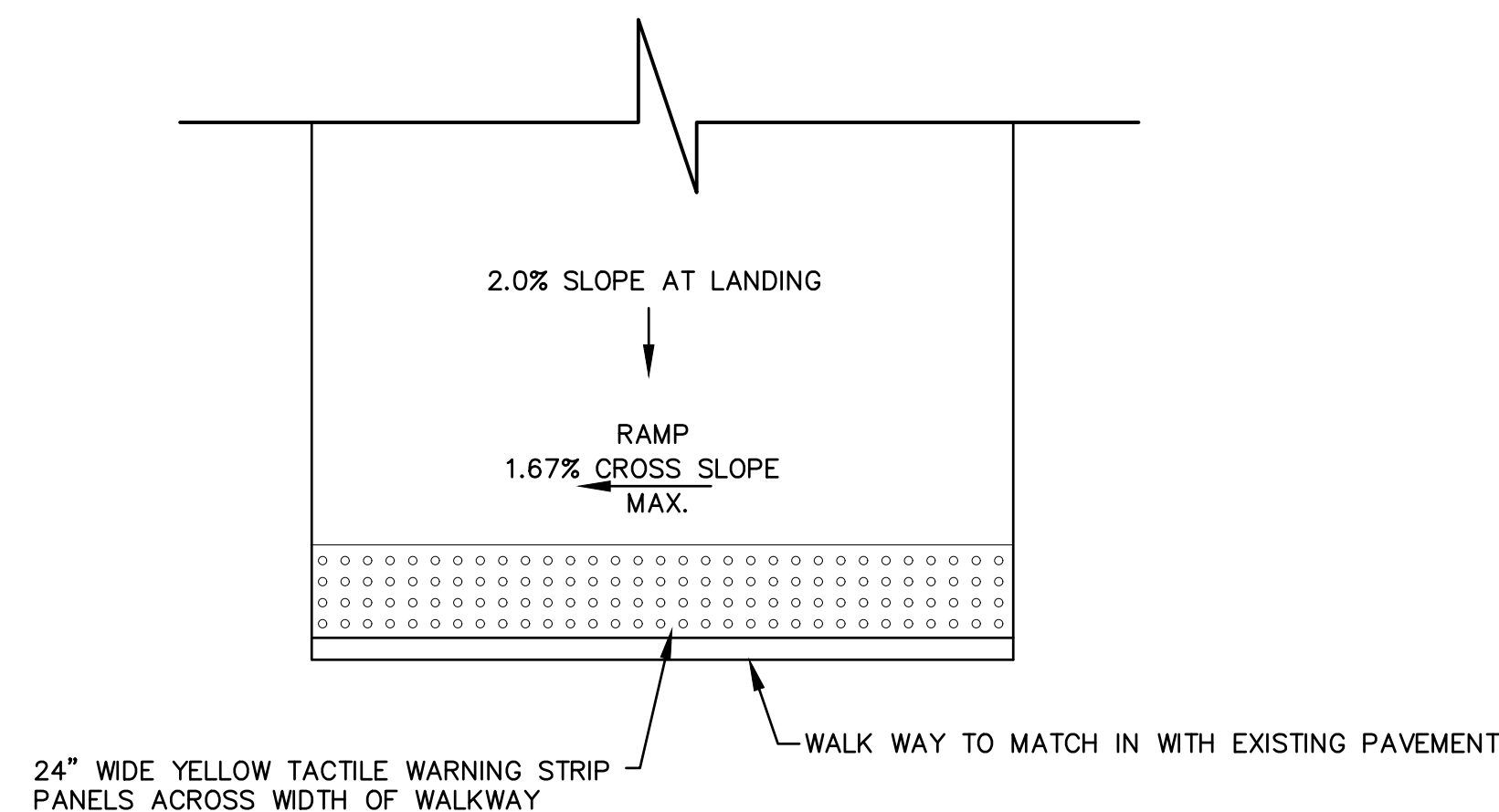
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Drawing No. \_\_\_\_\_ Sheet \_\_\_\_\_ Revision \_\_\_\_\_

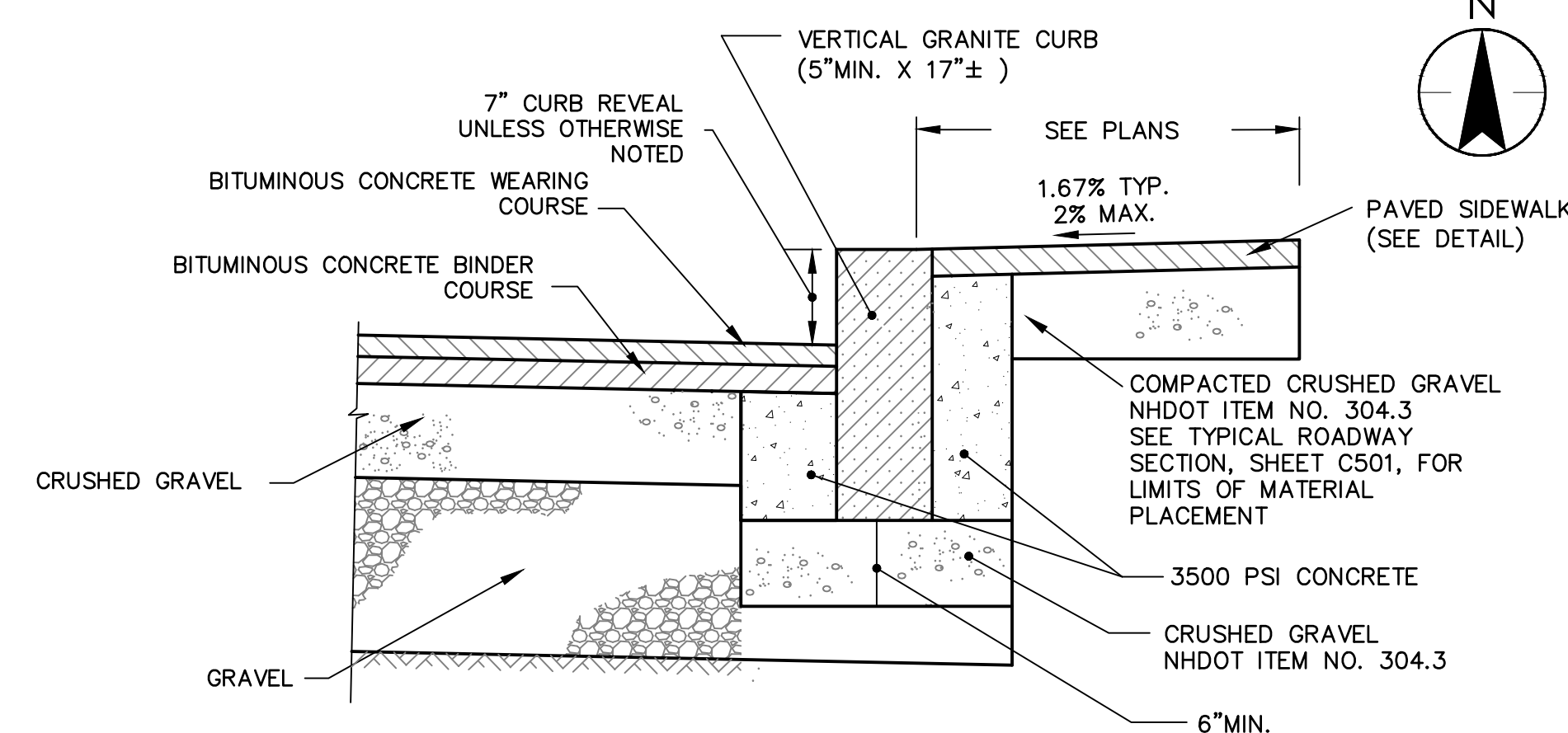
C-501 3 of 4 A



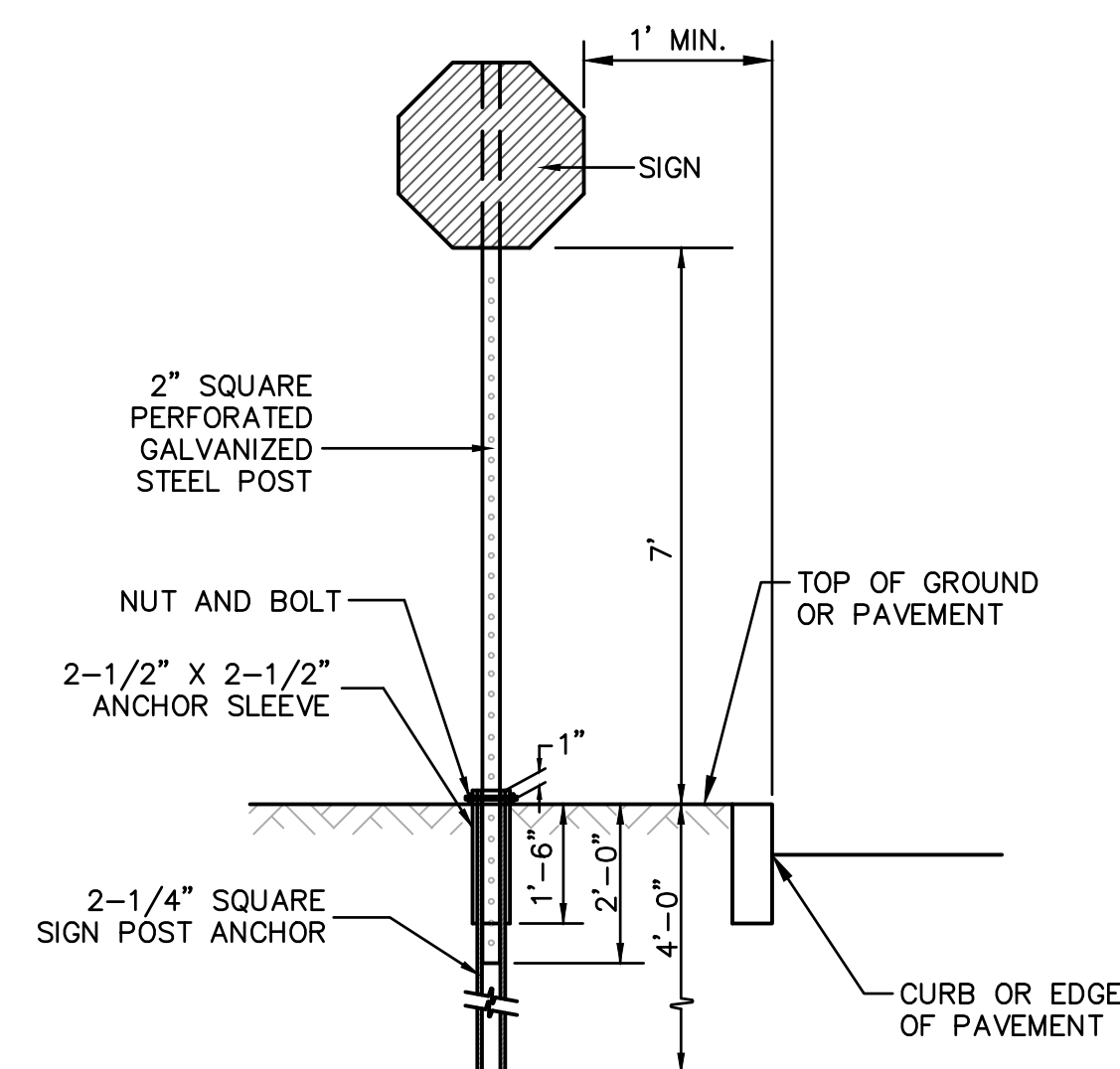
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 NOT TO SCALE



**PAVED WALK WAY WARNING STRIP**  
 NOT TO SCALE



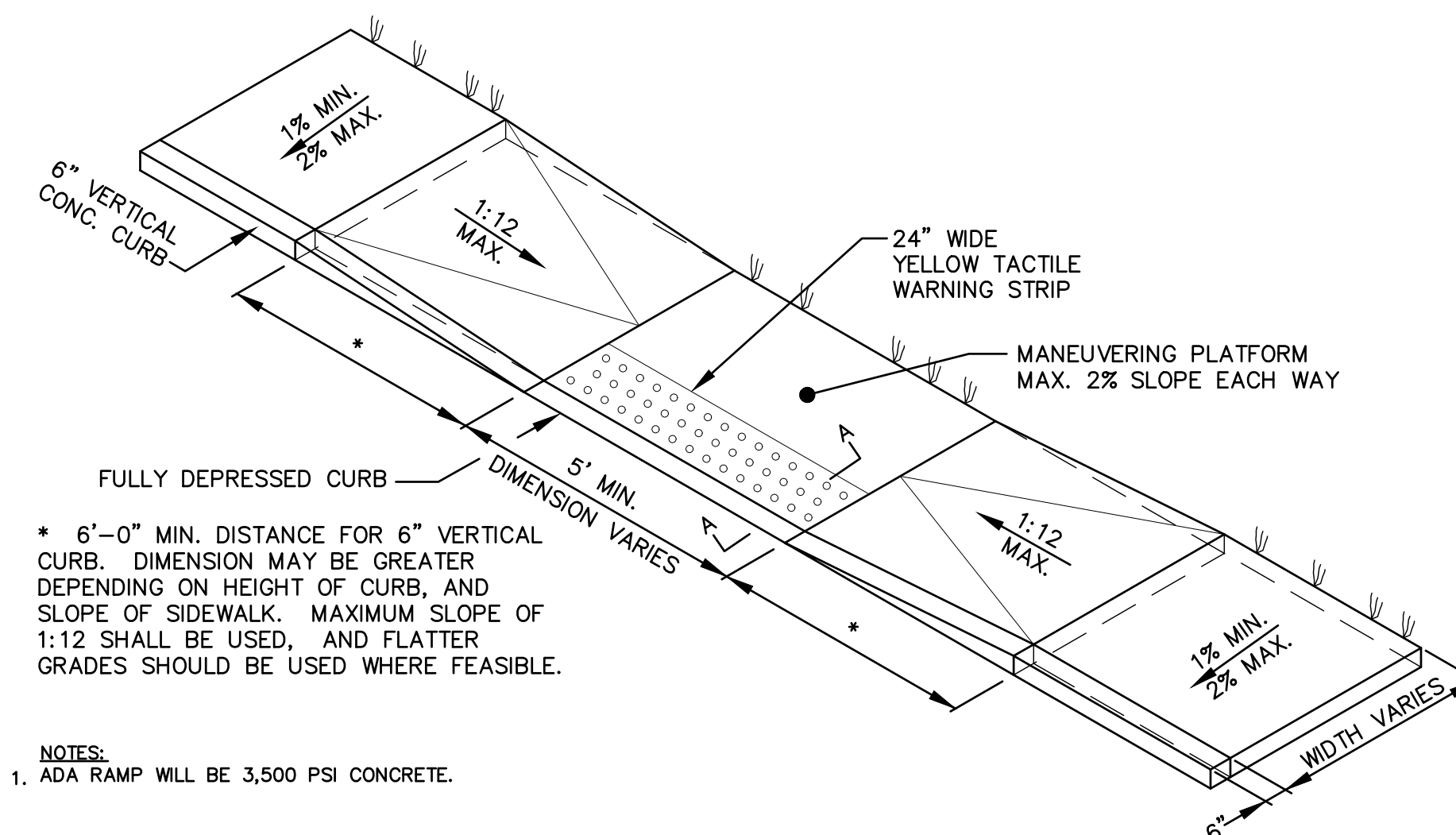
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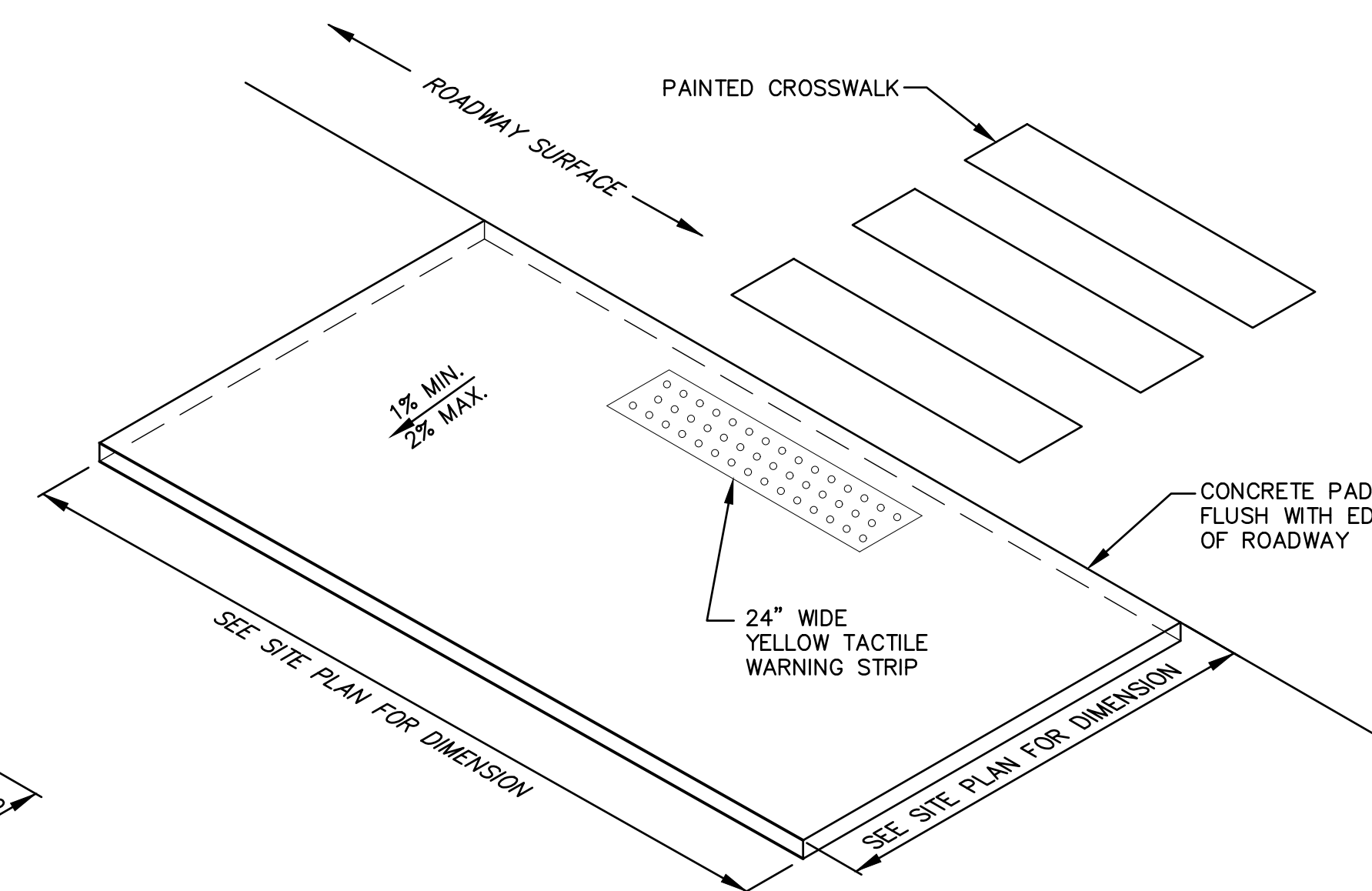
NOTES:

- ALL SIGNAGE SHALL BE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND NHDOT STANDARDS.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS/CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ERRECTING SIGNS.
- THE LOCATION OF THE SIGNS SHALL BE AS INDICATED ON THE DRAWINGS AND/OR AS DIRECTED BY THE ENGINEER.
- STOP SIGNS SHALL BE 30" R1-1 - HIGH INTENSITY PRISMATIC

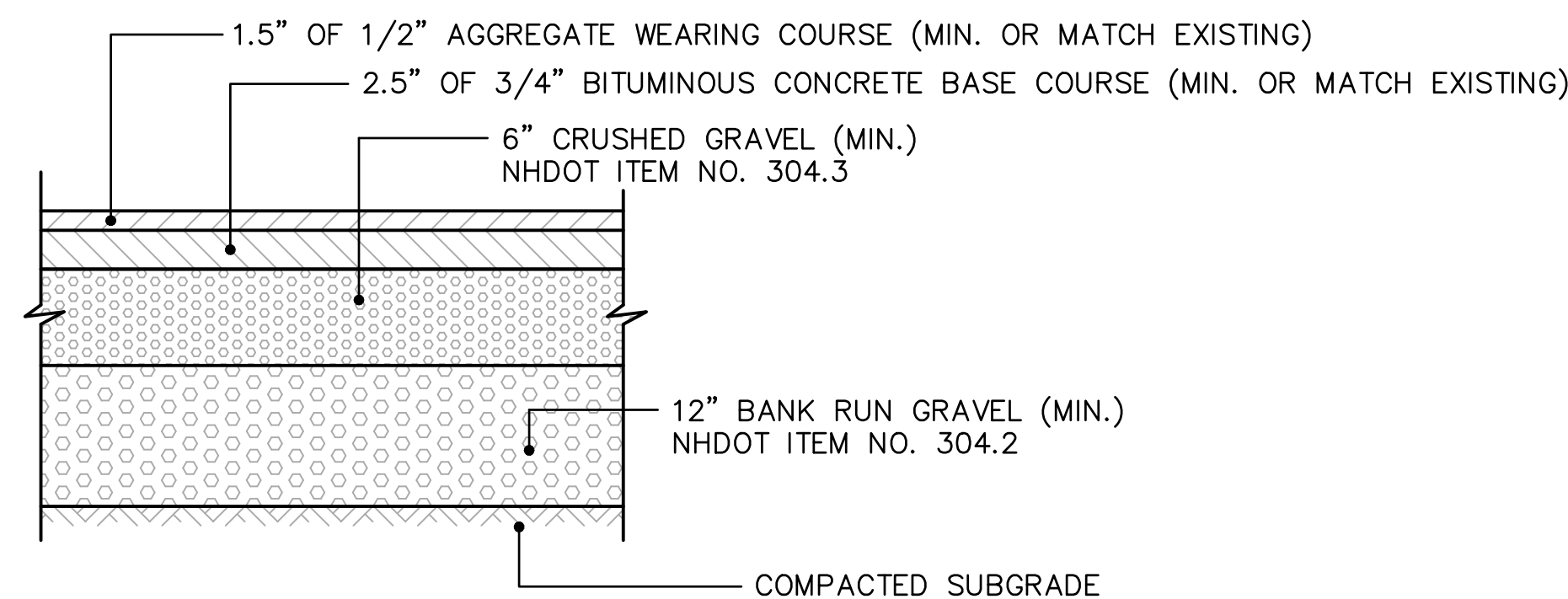
**TYPICAL SIGN POST**  
 NOT TO SCALE



**HANDICAP RAMP WITHIN SIDEWALK**  
 NOT TO SCALE

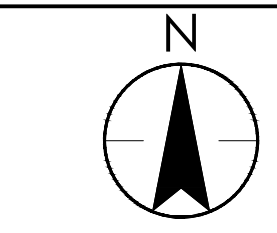


**CONCRETE SLAB AT CROSSWALK**  
 NOT TO SCALE



**TYPICAL FULL DEPTH ROADWAY SECTION**  
 NOT TO SCALE

**BID DOCUMENTS**  
 DO NOT REVISE  
 JANUARY 2023



### RESTORATION NOTES

#### TOPSOILING

TOPSOIL IS REQUIRED ON ANY AREA WHERE IT IS NECESSARY TO ESTABLISH A VEGETATIVE COVER. IF THERE IS INSUFFICIENT NATURALLY OCCURRING TOPSOIL, ADDITIONAL TOPSOIL SHALL BE PROVIDED TO A MINIMUM FINISHED DEPTH OF FOUR INCHES (4").

- LOAM, SANDY LOAM, OR SILTY LOAM SHALL BE USED FOR TOPSOIL MATERIAL.
- THE MATERIAL SHALL BE FRIABLE AND FREE OF TREE ROOTS, WEEDS, STONES (GREATER THAN 3/4 INCH) AND ANY OTHER DEBRIS. SOIL WHICH HAS BEEN TREATED WITH HERBICIDE IS UNACCEPTABLE.
- THE MATERIAL SHALL BE TAKEN FROM THE NATURAL SURFACE LAYERS ("A" HORIZON) OF SOILS CAPABLE OF PRODUCING GOOD YIELDS OF CULTIVATED CROPS OR HAY.
- AREAS WHERE TOPSOIL HAS BEEN REMOVED SHALL BE PROTECTED AGAINST EROSION.
- TOPSOIL SHALL NOT BE STOCKPILED WHERE IT WILL INTERFERE WITH ANY DRAINAGE COURSE OR WITHIN TWENTY-FIVE FEET OF A WETLAND RESOURCE AREA.
- TOPSOIL SHALL NOT BE COLLECTED OR SPREAD WHILE IT IS WET.
- SUBSURFACES SHALL BE SCARIFIED OR OTHERWISE TILLED TO FACILITATE BONDING OF SOIL LAYERS.
- TOPSOIL SHALL BE UNIFORMLY SPREAD TO PROVIDE A MINIMUM FINISHED DEPTH OF FOUR (4) INCHES AFTER SETTLEMENT FOR ALL AREAS (15.4 C.Y./1,000 S.F. OR 672.2 C.Y./ACRE).

#### SEEDING

UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER, GROUND COVER WILL BE ESTABLISHED BY HYDRO-SEEDING. LOCATIONS WHERE THERE IS AN ADJUTING LAWN, THE CONTRACTOR SHALL USE PARK SEED MIX. ALL OTHER LOCATIONS ASSOCIATED WITH THIS PROJECT ARE DESIGNATED SLOPE AREAS.

#### SEED MIXTURE

WHERE USED	MIXTURE	POUNDS PLS /ACRE.
LAWN AREAS	PARK SEED - TYPE 15	
	RED FESCUE (CREeping)	40
	PERENNIAL RYEGRASS	50
	KENTUCKY BLUEGRASS	25
	RED TOP	5
	TOTAL POUNDS PLS PER ACRE	120
SLOPE AND ALL OTHER AREAS OF PROPERTY DESIGNATED AS LAWN	SLOPE SEED - TYPE 44	
	RED FESCUE (CREeping)	35
	PERENNIAL RYEGRASS	30
	BIRDSFOOT TREFLOIL	5
	RED TOP	5
	TOTAL POUNDS PLS PER ACRE	80

#### SITE PREPARATIONS

- SHAPE AND SMOOTH THE SURFACE TO BE SPECIFIED ON DESIGN.
- LIME ACCORDING TO SOIL TEST TO PH 6.5 OR IN THE ABSENCE OF A SOIL TEST, APPLY LIME AT THE RATE OF 2-3 TONS OF GROUND LIMESTONE PER ACRE (100-150 LBS. PER 1000 S.F.)
- FERTILIZE ACCORDING TO SOIL TEST OR AT A RATE OF 1000 LBS. PER ACRE OF 5-10-10 FERTILIZER.
- WORK UP A SEEDBED 2" TO 3" DEEP, THOROUGHLY INCORPORATING THE LIME AND FERTILIZER INTO THE SOIL.
- SEED DURING THE PERIOD FROM AUGUST 10 TO SEPTEMBER 15, OR IN THE SPRING BEFORE MAY 20 FOR PERMANENT COVER. SEEDING AT OTHER TIMES SHALL BE CONSIDERED A TEMPORARY COVER.
- APPLY SEED UNIFORMLY ACCORDING TO DIRECTIONS BY HYDRAULIC APPLICATION (HYDROSEEDING).
- THE SEEDED AREA IS TO BE PROTECTED FROM EQUIPMENT, TRAMPLING, MULCHING, AND OTHER DESTRUCTIVE ACTIVITY.

#### TEMPORARY SEEDING

AREAS OF THE ROADSIDE WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED OR OTHERWISE DISTURBED LATER DURING CONSTRUCTION MAY BE ORDERED BY THE ENGINEER TO BE SEED TO TEMPORARILY STABILIZE THE AREA.

#### APPLICATION RATE

TIME PERIOD	SPECIES	APPLICATION RATE
BEFORE MAY 15	OATS	2 LBS / 1000 SF
APRIL 15 TO JUNE 1	PERENNIAL RYE	0.7 LBS / 1000 SF
AUGUST 15 TO SEPTEMBER 15	PERENNIAL RYE	0.7 LBS / 1000 SF
AUGUST 15 TO SEPTEMBER 15	ANNUAL RYE	1 LB / 1000 SF
AUGUST 15 TO SEPTEMBER 5	WINTER RYE	2.5 LBS / 1000 SF

#### MULCH MATERIAL

ON SOILS SUBJECT TO EROSION SUCH AS SLOPES AND ON SEEDED AREAS OF TEMPORARY COVER WHERE MOISTURE CONSERVATION IS NECESSARY FOR SEED GERMINATION, MULCH MATERIAL WILL BE USED.

- WHERE FEASIBLE, COMPLETE EARTHWORK AND CONSTRUCTION ACCORDING TO PLANS.
- ALL ESSENTIAL GRADING NEEDED TO PREVENT EROSION AND SILTATION IS TO BE COMPLETED PRIOR TO APPLICATION OF MULCH MATERIAL.

#### APPLICATION RATE

MULCH MATERIAL	PER 1000 S.F.	PER ACRE	REMARKS
HAY OR STRAW	70-90 LBS.	1.5 TONS	LIGHTLY COVER 75%-90% OF SURFACE. SUBJECT TO BLOWING AND SLIPPING UNLESS ANCHORED.
JUTE OR WOOD EXCELISIOR MATS			APPLY ACCORDING TO MANUFACTURER'S DIRECTIONS. USE IN AREA OF HIGH FLOWS.

- HYDROMULCH WITH 1 1/2 TONS OF STRAW PER ACRE ON ALL DISTURBED AREAS IMMEDIATELY AFTER SEEDING.
- MULCHES SUSCEPTIBLE TO BLOWING AND THOSE ON STEEP SLOPES WILL REQUIRE ANCHORING.

### EROSION CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "NEW HAMPSHIRE STORMWATER MANUAL" VOLUMES 1, 2 AND 3 (MOST RECENT VERSION).
- ALL SILTATION FENCE SHALL BE ERECTED BEFORE THE START OF EARTHWORK OPERATIONS. SILTATION FENCE AND OTHER MEASURES SHALL BE REMOVED UPON ACCEPTANCE OF THE PROJECT.
- THE INTENT OF THE PROPOSED EROSION CONTROL MEASURES IS TO CONTROL SEDIMENT AT THE SOURCE SUCH AS EARTH CUTS AND EXPOSED SURFACES. ALL EXPOSED SURFACES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF WORK.
- IN ORDER TO PREVENT UNNECESSARY EROSION OF NEWLY GRADED SLOPES AND UNNECESSARY SILTATION OF DRAINAGEWAYS, THE CONTRACTOR SHALL PERFORM LOAMING, HYDROSEEDING, AND MULCHING AS SOON AS THEY HAVE SATISFACTORILY COMPLETED A UNIT OR PORTION OF THE PROJECT, SUCH AS EMBANKMENTS OR CUTS, A SECTION OF PAVEMENT OR DRAINAGEWAYS.
- HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR COMPLETION.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 4" OF TOPSOIL AND HYDROSEED ALL DISTURBED AND UNPAVED SURFACES (AND SURFACES NOT DESIGNATED FOR GRAVEL OR PAVEMENT) WITHIN THE LIMIT OF WORK.
- THE CONTRACTOR SHALL SHALL CLEAN AND REMOVE ANY SAND, SOIL OR DEBRIS CARRIED ON TO ADJACENT STREETS BY TRUCKS LEAVING THE SITE AT THE END OF EACH DAYS WORK.
- THE CONTRACTOR SHALL INSPECT, CLEAN, AND PROPERLY MAINTAIN (INCLUDING REPLACING AS NECESSARY) ALL EROSION CONTROL MEASURES DAILY DURING THE PROJECT.
- NO CUT AREA SHALL BE LEFT UNPROTECTED FROM EROSION FOR A PERIOD OF MORE THAN 3 WEEKS. PROTECTION SHALL BE BY SEEDING, EROSION CONTROL MATTING, OR OTHER ACCEPTABLE METHODS.
- SILT FENCE SHALL BE SECURED WITH WOODEN STAKES AND BE PROVIDED AT ALL DRAINAGEWAYS AND PIPE OUTLETS AS INDICATED ON THE CONSTRUCTION DRAWINGS AND AS DIRECTED BY THE ENGINEER.
- EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.25" OF RAINFALL. THE CONTRACTOR SHALL MAKE REPAIRS IMMEDIATELY FOR ANY OBSERVED DEFICIENCIES.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION. IN NO CASE SHALL THE DISTURBED AREA EXCEED 5 ACRES AT ANY ONE TIME.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - SUB BASE GRAVELS HAVE BEEN INSTALLED AND COMPACTED IN AREAS TO BE PAVED.
  - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
  - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED.
  - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- ROAD SWEEPING SHALL OCCUR DAILY OR AS NEEDED TO CONTROL TRACKING OFF SITE.
- NO DISTURBED AREA SHALL BE LEFT UNPROTECTED FROM EROSION OVER THE WINTER SEASON. THE WINTER SEASON IS HEREBY DEFINED AS THE PERIOD FROM NOVEMBER 1 TO APRIL 1. THIS SHALL NOT RESTRICT WORK FROM TAKING PLACE OVER THE WINTER MONTHS BUT THE CONTRACTOR/OWNER SHALL NOT ALLOW AN AREA GREATER THAN 5,000 S.F. TO BE LEFT UNPROTECTED.
- EROSION CONTROL BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE PRODUCT DATA AND CATALOG CUTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ALL EXISTING AND PROPOSED CATCH BASINS WITHIN THE LIMIT OF WORK SHALL BE CLEANED AFTER ALL CONTRIBUTING AREAS ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER.

### WINTER CONSTRUCTION NOTES

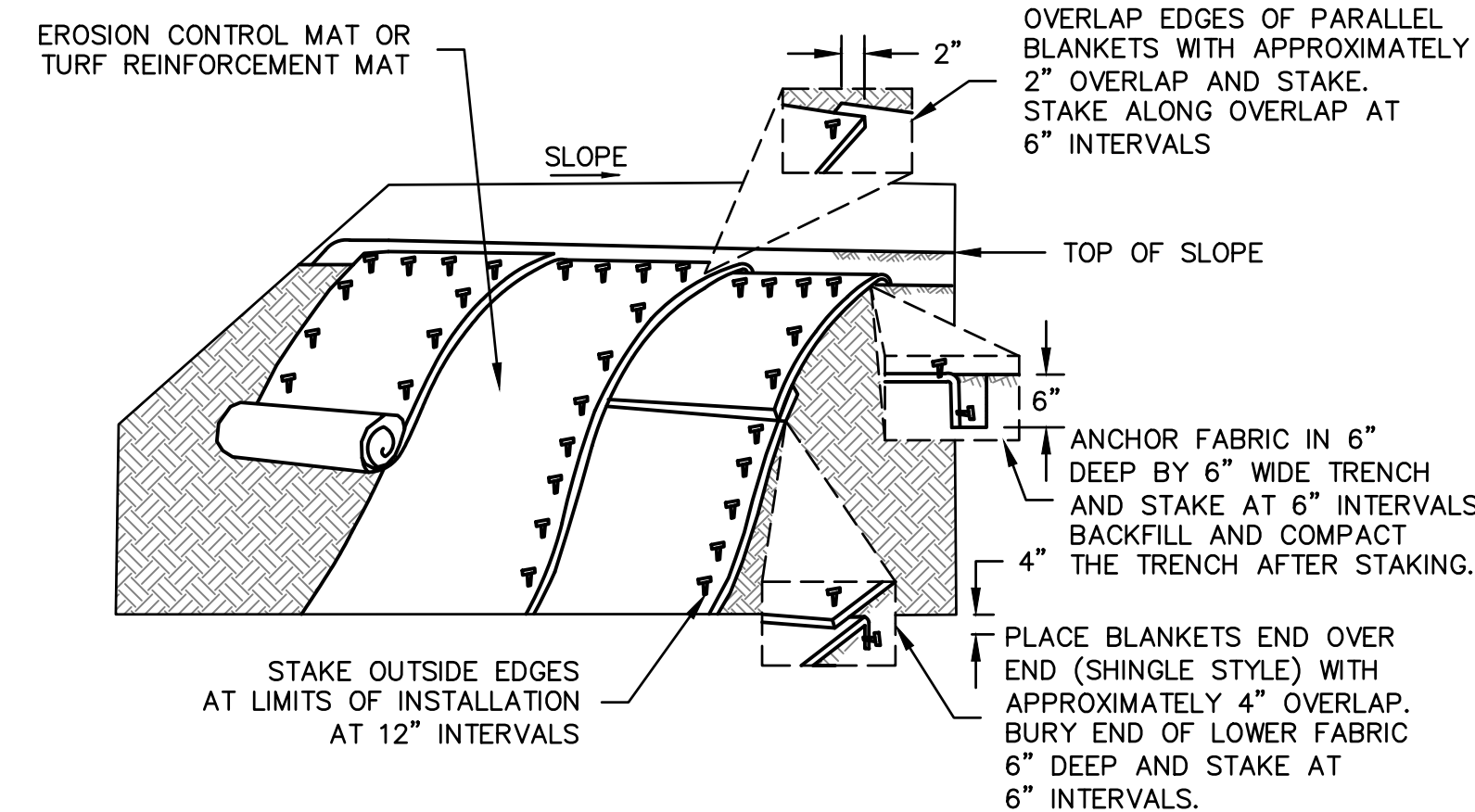
- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1 AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER NOVEMBER 15TH, INCOMPLETE PAVEMENT TRENCH SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER MHDOT ITEM 304.3.

### CONSTRUCTION SEQUENCE

- PROVIDE SUBMITTALS, TRAFFIC CONTROL PLAN, DEWATERING PLAN, AND ATTEND A PRE-CONSTRUCTION MEETING. CONFIRM THAT THE SCHOOL'S SAFETY PERSONNEL ARE AWARE OF THE ALTERED TRAFFIC PATTERNS.
- CALL DIG SAFE AND PROVIDE WORK NUMBER TO ENGINEER.
- ERECT TRAFFIC CONTROL, SIGN PACKAGE AND MESSAGE BOARDS.
- INSTALL PERIMETER AND EROSION CONTROL.
- CUT TREES.
- CLEAR AND GRUB.
- CONDUCT TEST PITS AND PROVIDE INFORMATION TO ENGINEER FOR REVIEW PRIOR TO ORDERING STRUCTURES.
- STRIP AND REMOVE TOPSOIL.
- LOAM, SEED, AND HYDRO-SEED SLOPE.
- REMOVE AND REPLACE UTILITY POLE AND OVERHEAD WIRE.
- CONSTRUCT STORM DRAIN PIPING AND STRUCTURES AS INDICATED ON THE DRAWINGS. INSTALL TEMPORARY MEASURES ON CONNECTIONS AS NEEDED TO MAINTAIN DRAINAGE (INCIDENTAL).
- CONSTRUCT BUS TURN-AROUND AND OTHER PAVED AREAS.
- INSTALL SIGNS AS REQUIRED.
- LOAM AND HYDROSEED REMAINING DISTURBED SURFACES.
- COMPLETE TRENCH PAVING.
- INSTALL FINAL PAVEMENT MARKINGS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.

### NOTES:

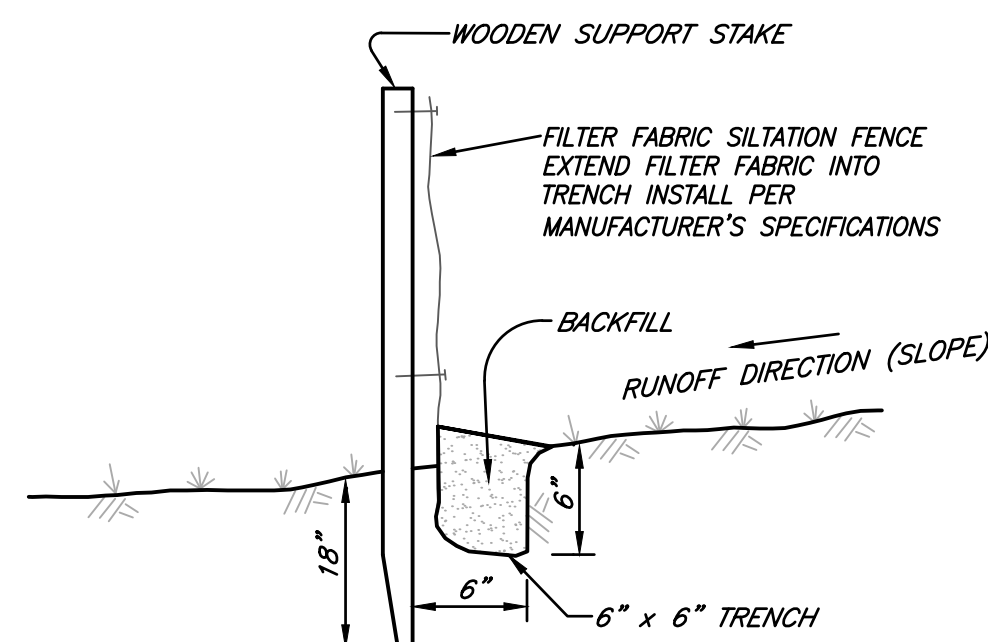
- CONTRACTOR TO PROVIDE A PROPOSED CONSTRUCTION SCHEDULE, SEQUENCING PLAN, AND DEWATERING PLAN ONE (1) WEEK PRIOR TO THE START OF CONSTRUCTION AND UPDATE EVERY 2 WEEKS OR AS REQUESTED THROUGHOUT THE COURSE OF CONSTRUCTION.
- CONTRACTOR TO PERFORM TEST PITS PRIOR TO ORDERING STRUCTURES TO VERIFY ELEVATIONS AND REQUIRED OPENINGS.
- ADDITIONAL TEST PITS MAY/SHALL BE REQUIRED FOLLOWING DIG SAFE AND BASED ON FIELD CONDITIONS. CONTRACTOR SHALL PROVIDE MEN AND EQUIPMENT NECESSARY FOR UNIT ITEM WORK WITHOUT IMPACTING PROJECT SCHEDULE.



NOTE: STAKING PATTERNS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS. MINIMUM SPACING 3' - 0" O.C. ACROSS FABRIC.

### INSTALLATION OF EROSION CONTROL FABRICS

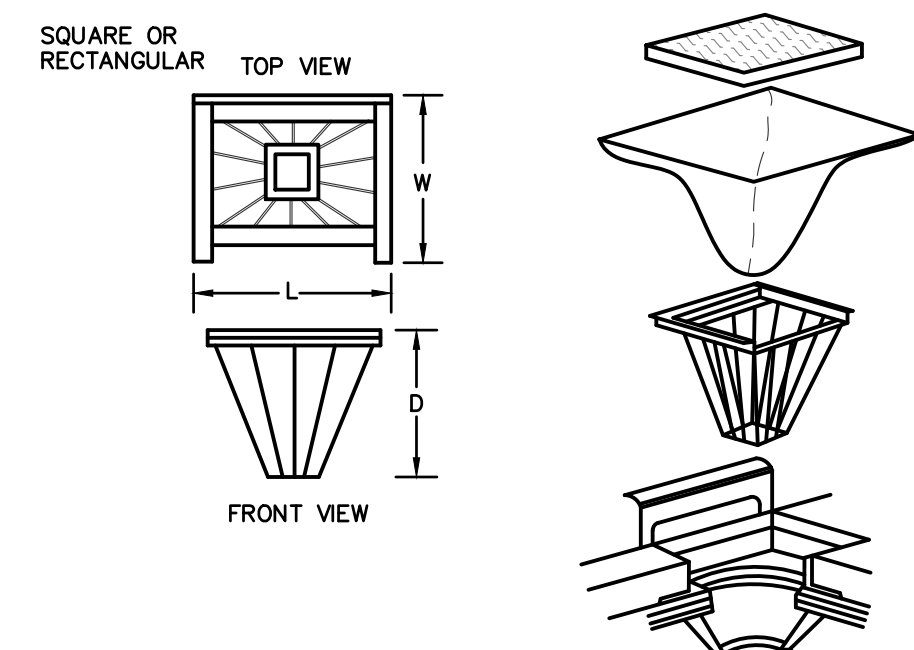
NOT TO SCALE



NOTE:  
1. SILT FENCE TO BE PLACED AT TOE OF ALL FILL SECTIONS.

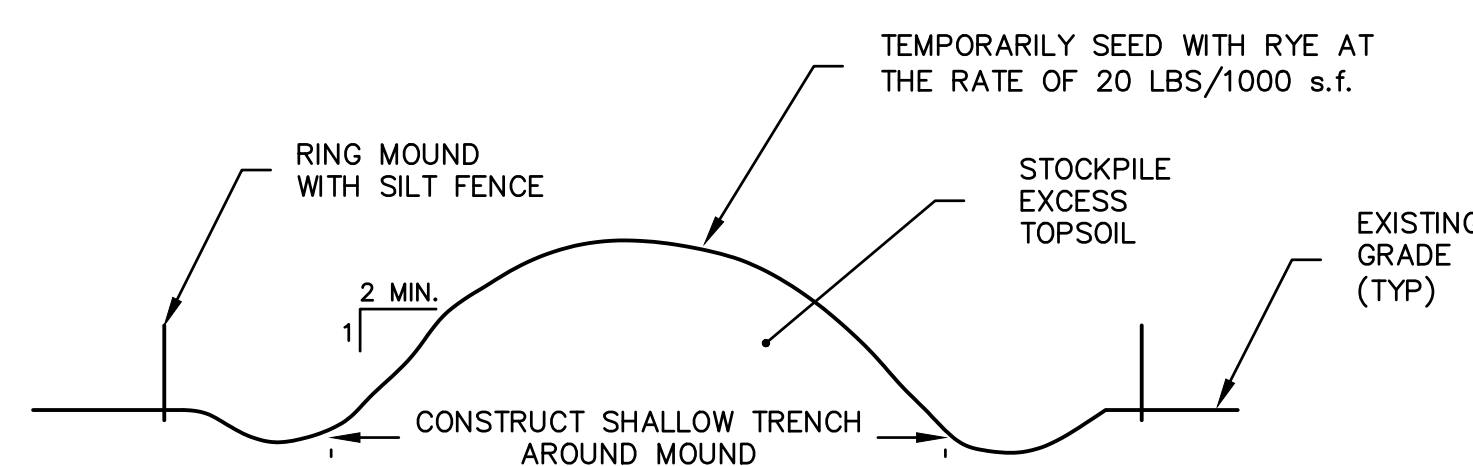
### SILT FENCE DETAIL

NOT TO SCALE



### INLET FILTER BASKET

NOT TO SCALE



### TOPSOIL STOCKPILE MOUND

NOT TO SCALE

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JANUARY 2023