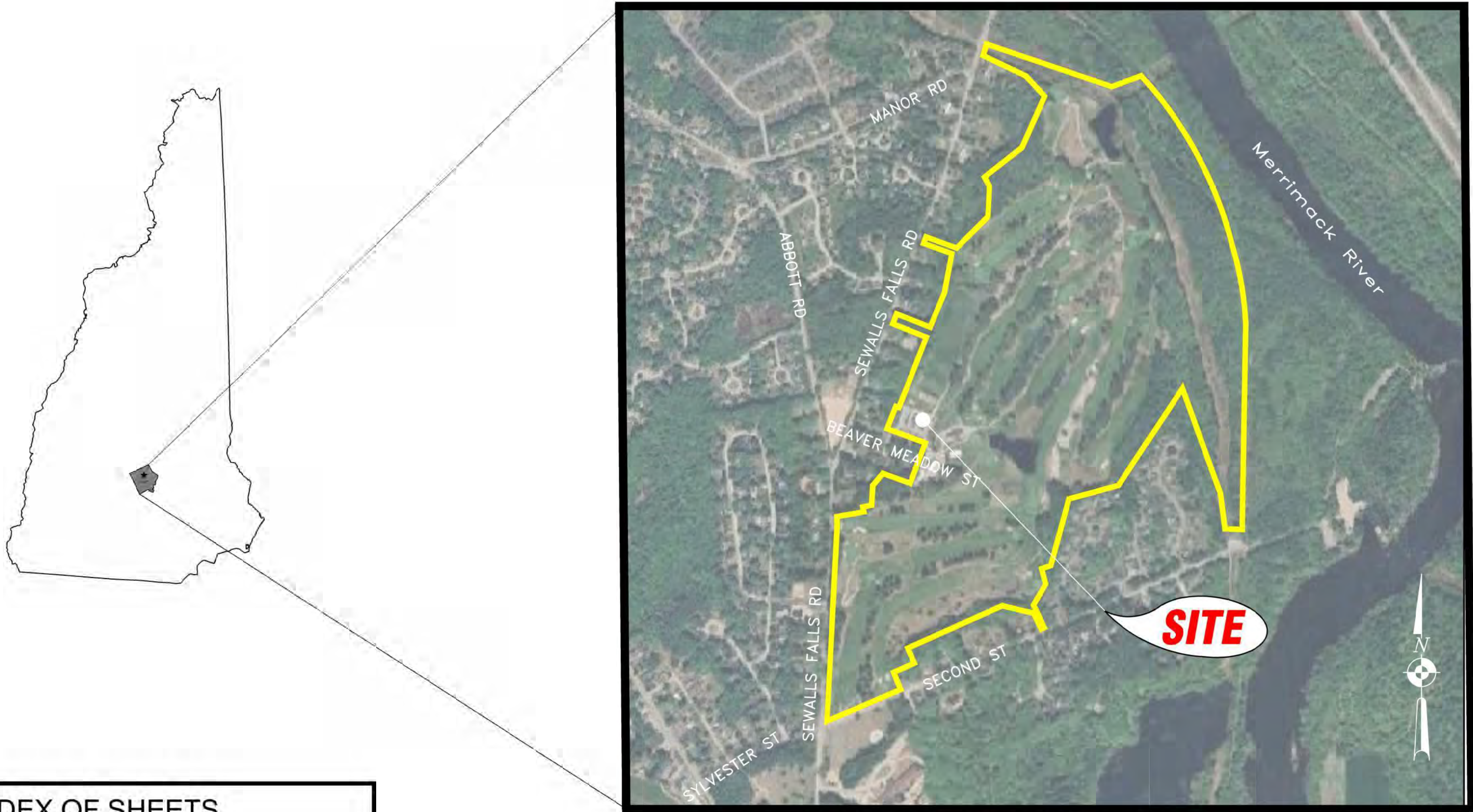


BEAVER MEADOW GOLF FACILITY

1 BEAVER MEADOW DRIVE
CONCORD, NEW HAMPSHIRE
TAX MAP 302Z LOT 81



LOCATION MAP
1" = 600'

CITY OF CONCORD
COUNTY OF MERRIMACK
STATE OF NEW HAMPSHIRE

PERMITS REQUIRED:
DEPARTMENT OF ENVIRONMENTAL SERVICES
ALTERATION OF TERRAIN (NOT PENDING)
US ENVIRONMENTAL PROTECTION AGENCY
CONSTRUCTION GENERAL PERMIT (PROGRAMMATIC BY CONTRACTOR)
CITY OF CONCORD
DRIVEWAY PERMIT (BY CONTRACTOR)
STREET OPENING PERMIT (BY CONTRACTOR)

OWNER/APPLICANT:
CITY OF CONCORD
BEAVER MEADOW GOLF COURSE
1 BEAVER MEADOW DRIVE
CONCORD, NH 03301

INDEX OF SHEETS	
SHEET NO.	SHEET TITLE
C0.0	COVER SHEET
C0.1	LEGEND (CIVIL)
C0.2	GENERAL NOTES (CIVIL)
C0.3	OVERALL SITE DEVELOPMENT PLAN
C0.4	DEMOLITION AND SITE PREPARATION PLAN
C1.1A&B	SITE LAYOUT AND MATERIALS PLAN
C1.2A,B&C	GRADING AND DRAINAGE PLAN
C1.3	UTILITIES PLAN
E0.1-ES1.1	ELECTRICAL DETAILS & SITE PLAN
C1.4A & B	EROSION PROTECTION & SEDIMENTATION CONTROL PLAN
C2.0-C2.15	SITE DETAILS
C2.16-2.17	TEST PIT AND BORING LOGS
Lt-1 & Lt-2	EXISTING LIGHTING & PHOTOMETRIC'S PLANS
1 - 6	EXISTING CONDITIONS SURVEY BY RICHARD D. BARTLETT & ASSOC.

TURNER
GROUP

The H.L. Turner Group Inc.

27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
htturner.com

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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:
PERMITTING

PROJ. NO.:	5387	STAMP
SCALE:	NONE	
DESN. BY:	DVB	
DRAWN BY:	MR/AGL	
CHKD BY:	DVB	
ISSUE DATE:	07/16/25	

REVISIONS		

SHEET TITLE:
COVER SHEET

C0.0

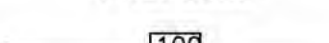
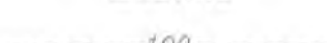
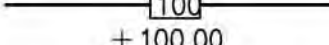
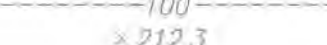
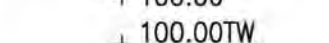
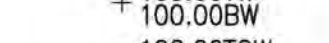
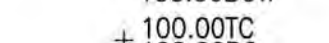
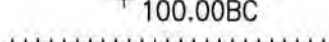
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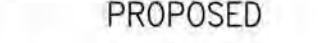
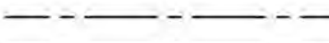
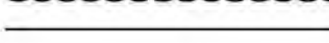
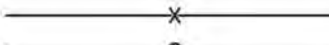
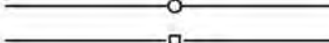
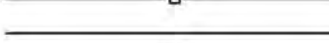
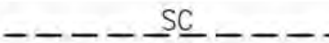
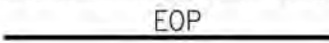
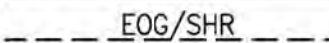
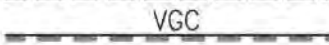
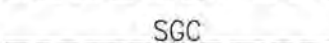
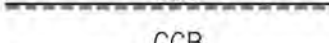
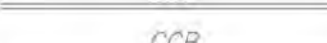
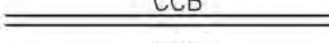
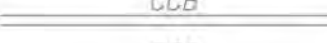
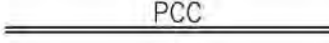
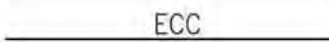
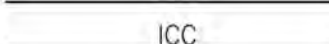
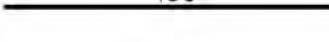
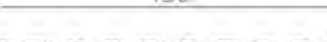
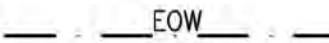
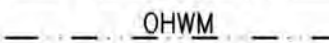
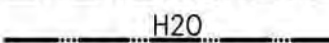
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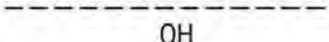
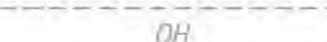
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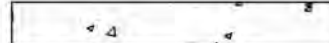
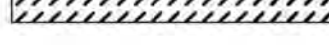
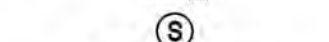
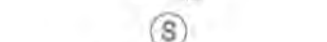
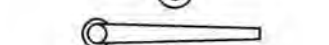
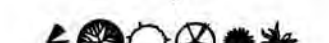
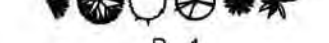
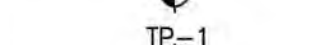
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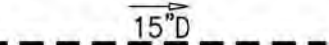
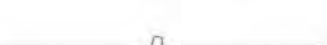
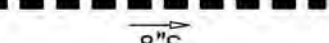
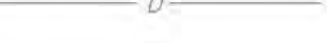
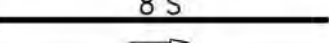
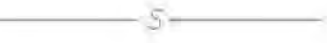
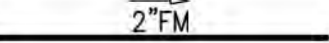
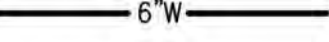
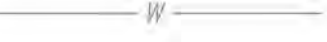
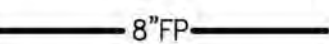
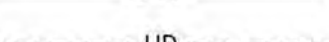
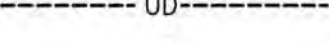
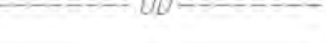
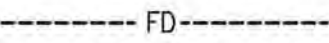
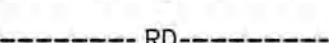
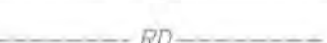
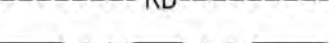
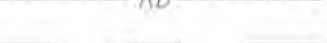
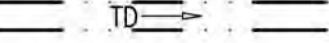
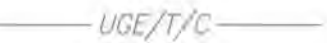
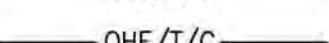
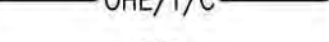
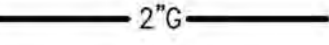
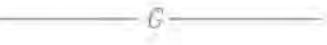
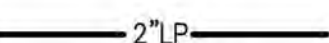
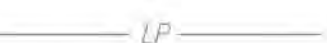
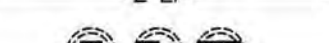
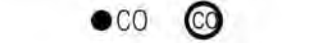
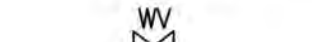
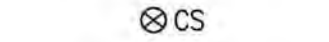
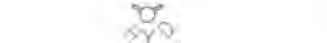
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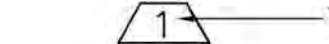
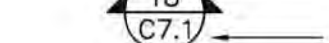
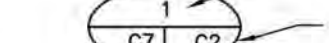
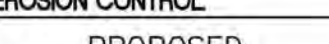
ENGINEERING		
PROPOSED	EXISTING	DESCRIPTION
		CONTOUR INTERVALS
		SPOT ELEVATIONS
		GRADE ADJACENT TO TOP/BOTTOM OF WALL
		ELEVATION OF TOP/BOTTOM OF WALL
		GRADE ADJACENT TO TOP/BOTTOM OF CURB
		DAYLIGHT LINE CUT SECTION
		DAYLIGHT LINE FILL SECTION
		LIMITS OF WORK

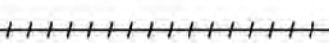
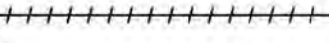
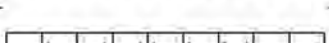
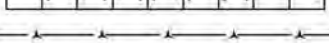
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PROPOSED	EXISTING	DESCRIPTION
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		APPROXIMATE ABUTTING LOT LINE
		EASEMENT LINE
		BUILDING/YARD SETBACK LINE
		TREE LINE
		STONE WALL
		WOOD POST GUARDRAIL
		STEEL POST GUARDRAIL
		FENCE~WIRE
		FENCE~CHAINLINK
		FENCE~STOCKADE
		FENCE~SPLIT RAIL
		PAVEMENT/SAWCUT LINE
		EDGE OF BITUMINOUS ASPHALT PAVEMENT
		EDGE OF GRAVEL SHOULDER/SLOPE BREAK
		CURB~VERTICAL/STRAIGHT GRANITE
		CURB~SLOPED GRANITE
		CURB~CAPE COD/ASPHALT BERM
		CURB~PRECAST CONCRETE
		CURB~EXTRUDED CONCRETE
		CURB~INTEGRALLY C/P CONCRETE
		SOILS BOUNDARY
		DELINEATED/JURISDICTIONAL WETLANDS
		DELINEATED ORDINARY HIGH WATER MARK
		SURFACE WATER

BUILDING		
PROPOSED	EXISTING	DESCRIPTION
		BUILDING
		BUILDING CANOPY OVERHANG
		ENTRANCE/EXIT
		OVERHEAD DOOR
		LOADING DOCK

GENERAL		
PROPOSED	EXISTING	DESCRIPTION
		PORTLAND CEMENT CONCRETE
		BITUMINOUS ASPHALT PAVEMENT NORMAL/LIGHT DUTY SECTION
		BITUMINOUS ASPHALT PAVEMENT HEAVY DUTY SECTION
		AREA OF BITUMINOUS ASPHALT PAVEMENT TO BE RECLAIMED AND OR REMOVED
		RIPRAP/STONE FILL
		PERMITTED WETLAND DISTURBANCE
		DELINEATED/JURISDICTIONAL WETLANDS
		REGULATORY TRAFFIC/DIRECTIONAL SIGNS
		ADA HANDICAP PAVEMENT MARKING
		TRAFFIC SIGNAL
		TRAFFIC SIGNAL MAST ARM
		ADA HANDICAP PAVEMENT MARKING
		BOLLARD
		TREES, SHRUBS, AND PLANTS
		GEOTECHNICAL BORING
		SOIL TEST PIT
		SOIL PERCOLATION TEST
		SOIL INFILTRATION TEST
		MONITORING WELL
		DELINEATED WETLAND FLAG
		DIRECTION OF PIPE/SWALE FLOW
		DIRECTION OF STREAM FLOW

UTILITIES		
PROPOSED	EXISTING	DESCRIPTION
		STORM SEWER/DRAINAGE PIPE
		SANITARY SEWER/SEPTIC PIPE
		SANITARY SEWER/SEPTIC FORCE MAIN
		POTABLE/DOMESTIC WATER PIPE
		FIRE PROTECTION WATER PIPE
		UNDERDRAIN
		FOUNDATION DRAIN
		ROOF DRAIN/DRIP EDGE
		FRENCH DRAIN/TRENCH DRAIN
		TRAPEZOIDAL SWALE/DITCH
		V SWALE/DITCH
		UNDERGROUND UTILITIES/CONDUITS
		OVERHEAD UTILITIES/WIRES
		NATURAL GAS PIPE
		LIQUID PROPANE PIPE
		STORM SEWER/DRAINAGE CATCH BASIN
		STORM SEWER/DRAINAGE MANHOLE
		SANITARY SEWER MANHOLE
		CLEAN OUT
		FLARED END SECTION
		HEADWALL
		WATER VALVE AND BOX
		CURB STOP AND BOX
		POST INDICATOR VALVE
		FIRE HYDRANT
		TAPPING SLEEVE
		WATER METER
		POTABLE WATER WELL
		GAS/LP GATE VALVE
		GAS/LP METER
		ELECTRIC/TELECOMMUNICATION MAN HOLE
		ELECTRIC TRANSFORMER
		ELECTRIC METER
		UTILITY POLE
		LIGHT POLE
		GUY WIRE
		HAND HOLE/PULL BOX

PLAN CALLOUTS		
PROPOSED		DESCRIPTION
	TYPICAL SECTION NUMBER	
	SHEET LOCATION OF TYPICAL SECTION	SURFACE TREATMENT
	CROSS-SECTION NUMBER	
	SHEET WHERE CROSS-SECTION IS SHOWN	CROSS SECTION
	DETAIL NUMBER	
	SHEET SERIES WHERE DETAIL IS SHOWN	DETAIL
	SHEET WHERE DETAIL IS SHOWN	
	PARKING SPACE COUNT	
	REMOVE	
	ABANDON IN PLACE	
	REMOVE AND RESET	
	REMOVE AND SALVAGE TO OWNER	
	PROTECT AND MAINTAIN	
	REMOVE PAVEMENT	

EROSION CONTROL		
PROPOSED	EXISTING	DESCRIPTION
		SILT FENCE
		COMPOST SOCK
		DOUBLE PERIMETER CONTROL
		EROSION CONTROL MIX BERM
		HAYBALE BARRIER
		SILT CURTAIN
		DIVERSION SWALE/DYKE
		CHECK DAM
		INLET PROTECTION

GENERAL	
ACR	Accessible Curb Ramp
ADJ	Adjust
APPROX	Approximate
BC	Bottom Of Curb
BOS	Bottom Of Slope
CCB	Cape Cod Berm
DYSL	Double Yellow Solid Line
ELEV	Elevation
EXIST	Existing
FDN	Foundation
MAX	Maximum
MIN	Minimum
NIC	Not In Contract
NTS	Not To Scale
PCC	Precast Concrete Curb
PROP	Proposed
PSI	Pounds Per Square Inch
RAP	Reclaimed Asphalt Pavement
R&R	Remove And Reset
R&S	Remove And Stack
R	Rim
REMOD	Remodel
RET	Retain
SGC	Slope Granite Curb
SSWL	Single Solid White Line
TOS	Top Of Slope
TOW	Top Of Wall
TYP	Typical
U.N.O.	Unless Noted Otherwise
VGC	Vertical Granite Curb

LANDSCAPING	
B&B	Balled & Burlapped
BR	Bare Root
L&S	Loom And Seed

UTILITY	
ACCOMP	Asphalt Coated Corrugated Metal Pipe
AD	Acid Resistant
CAP	Corrugated Aluminum Pipe
CIP	Cast Iron Pipe
CIT	Change In Type
CMP	Corrugated Metal Pipe
COND	Conduit
DI/DIP	Ductile Iron Pipe
F&C	Frame And Cover
F&G	Frame And Grate
HDPE	High Density Polyethylene Pipe
HH	Hand Hole
HYD	Hydrant
I/INV	Invert Elevation
PB	Pull Box
PPC	Polypropylene Pipe
PPS	Prefabricated Pump Station
PVC	Polyvinylchloride Pipe
PWW	Paved Water Way
R	Rim
RCP	Reinforced Concrete Pipe
RGS	Rigid Galvanized Steel
T	Telephone/Telecommunication
TSV	Tapping Sleeve
UD	Underdrain
UP	Utility Pole
VCP	Vitrified Clay Pipe



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27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
h:turner.com

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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

LAYOUT AND MATERIALS (continued):

- ### CONSTRUCTION SEQUENCE

- # CO.2

4

3

2

1

A

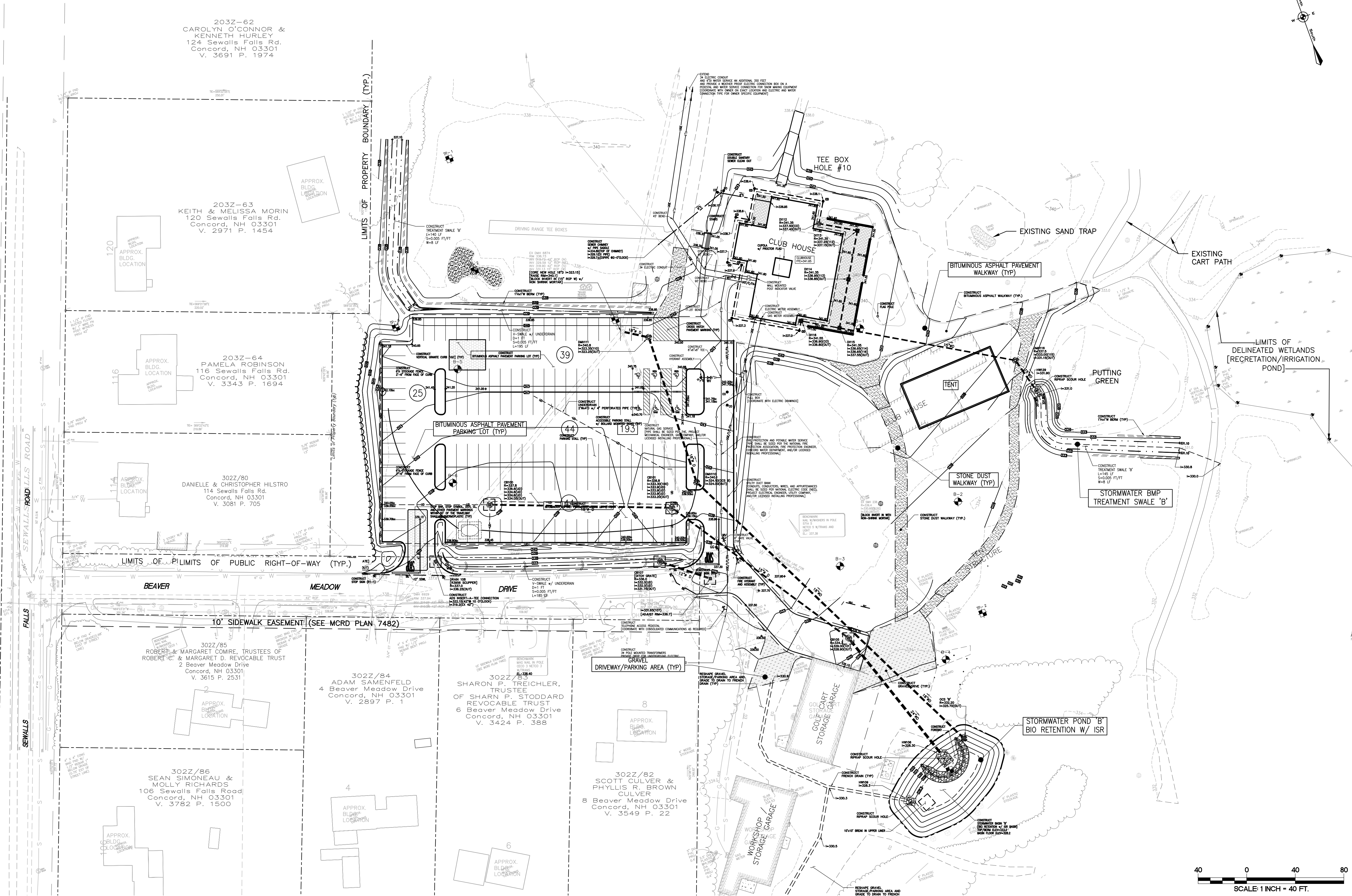
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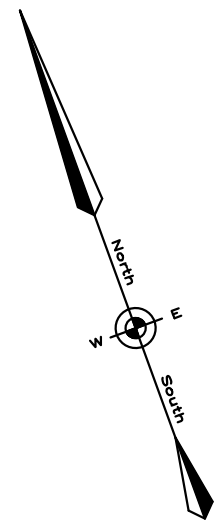
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NOTES:
THE WETLAND IS STATUTORILY EXEMPT FOR THE PURPOSE THAT IT IS A
CONSTRUCTED AND MAINTAINED MANMADE IRRIGATION POND.



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t:603.228.1122
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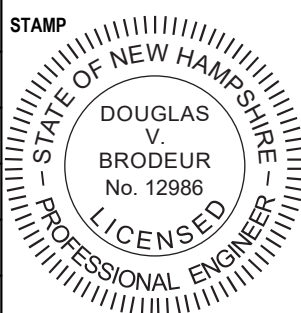
PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.: 5387
SCALE: 1"=40'
DES. BY: DVB
DRAWN BY: MR/AGL
CHKD BY: DVB
ISSUE DATE: 07/16/25



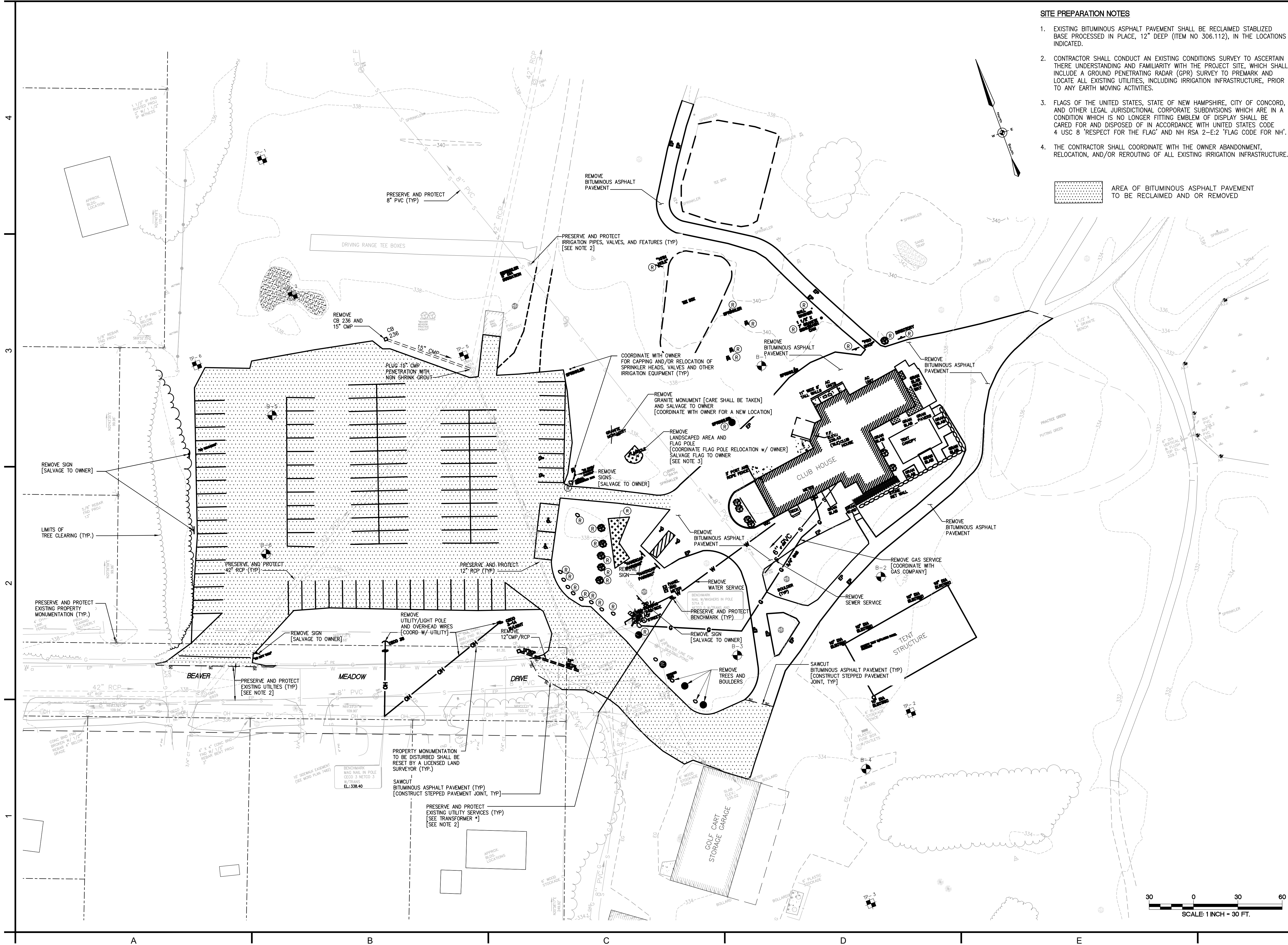
REVISIONS

SHEET TITLE:

**OVERALL SITE
DEVELOPMENT PLAN**

C0.3

40 0 40 80
SCALE: 1 INCH = 40 FT.



SITE PREPARATION NOTES

- EXISTING BITUMINOUS ASPHALT PAVEMENT SHALL BE RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12" DEEP (ITEM NO 306.112), IN THE LOCATIONS INDICATED.
- CONTRACTOR SHALL CONDUCT AN EXISTING CONDITIONS SURVEY TO ASCERTAIN THERE UNDERSTANDING AND FAMILIARITY WITH THE PROJECT SITE, WHICH SHALL INCLUDE A GROUND PENETRATING RADAR (GPR) SURVEY TO PREMARK AND LOCATE ALL EXISTING UTILITIES, INCLUDING IRRIGATION INFRASTRUCTURE, PRIOR TO ANY EARTH MOVING ACTIVITIES.
- FLAGS OF THE UNITED STATES, STATE OF NEW HAMPSHIRE, CITY OF CONCORD, AND OTHER LEGAL JURISDICTIONAL CORPORATE SUBDIVISIONS WHICH ARE IN A CONDITION WHICH IS NO LONGER FITTING EMBLEM OF DISPLAY SHALL BE CARED FOR AND DISPOSED OF IN ACCORDANCE WITH UNITED STATES CODE 4 USC 8 'RESPECT FOR THE FLAG' AND NH RSA 2-E:2 'FLAG CODE FOR NH'.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ABANDONMENT, RELOCATION, AND/OR REROUTING OF ALL EXISTING IRRIGATION INFRASTRUCTURE.

AREA OF BITUMINOUS ASPHALT PAVEMENT TO BE RECLAIMED AND OR REMOVED

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t:603.228.1122
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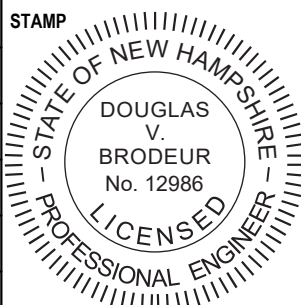
BEAVER MEADOW
GOLF COURSE

PROJECT TITLE / ADDRESS:
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GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

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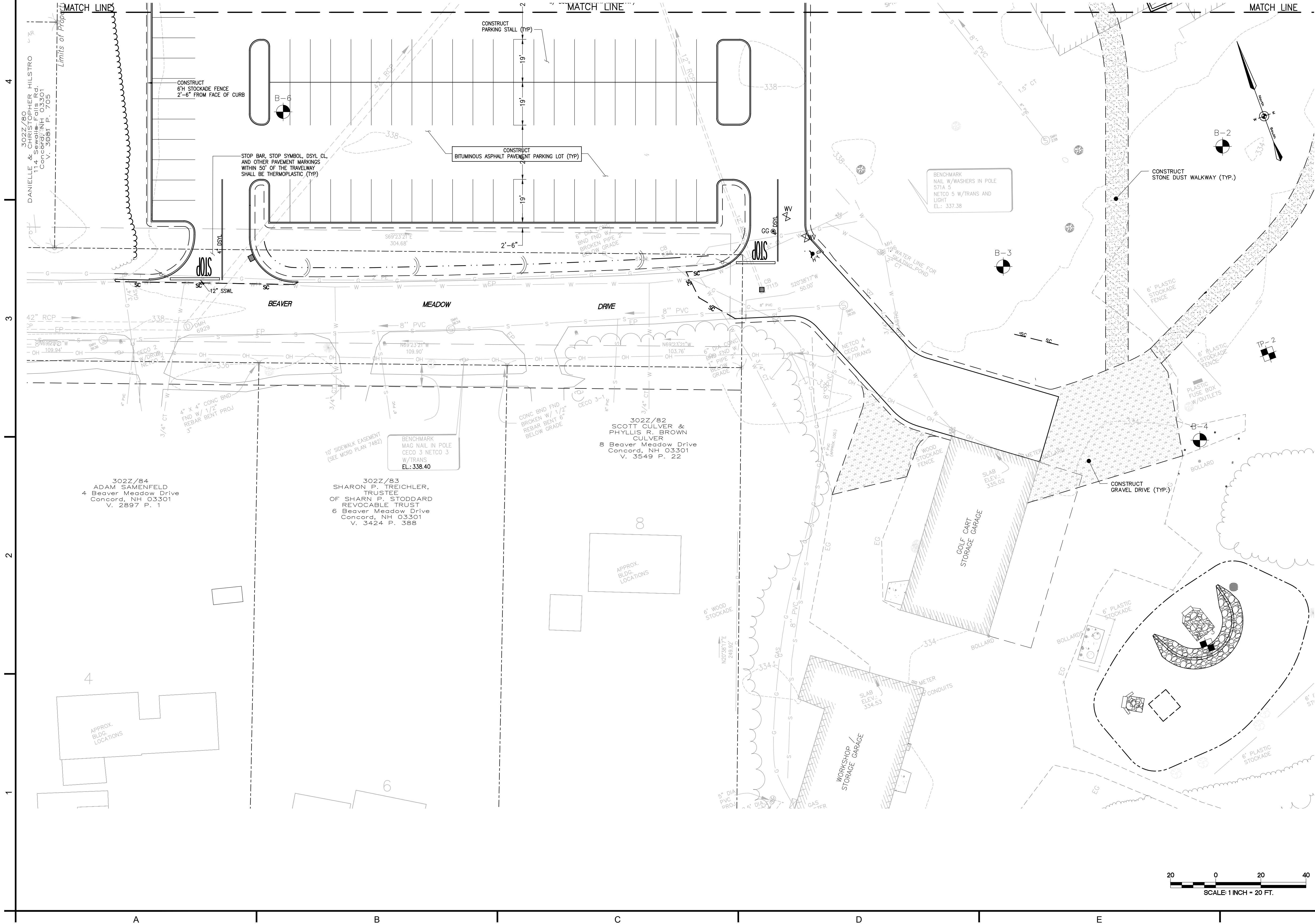
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SHEET TITLE:
**DEMOLITION AND SITE
PREPARATION PLAN**

C0.4



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PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
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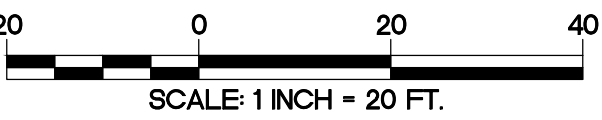
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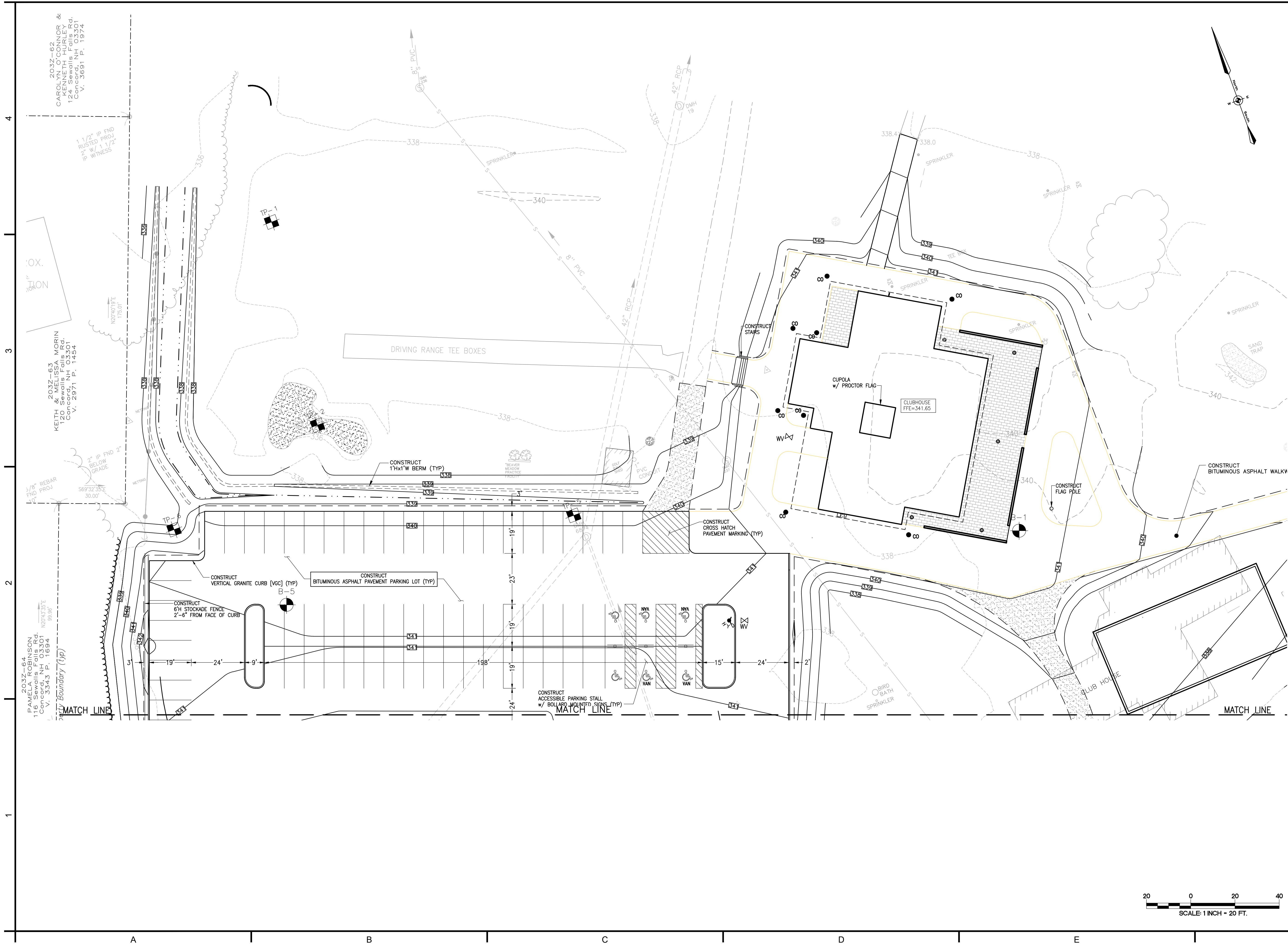
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DES. BY:	DVB	
DRAWN BY:	MR/AGL	
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ISSUE DATE:	07/16/25	

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SHEET TITLE:
**LAYOUT AND MATERIALS
PLAN**

C1.1A





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t:603.228.1122
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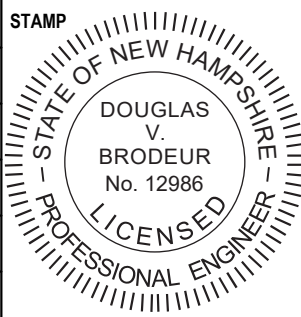
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GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
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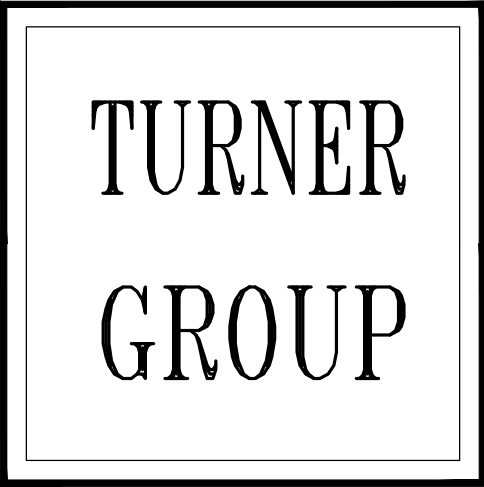
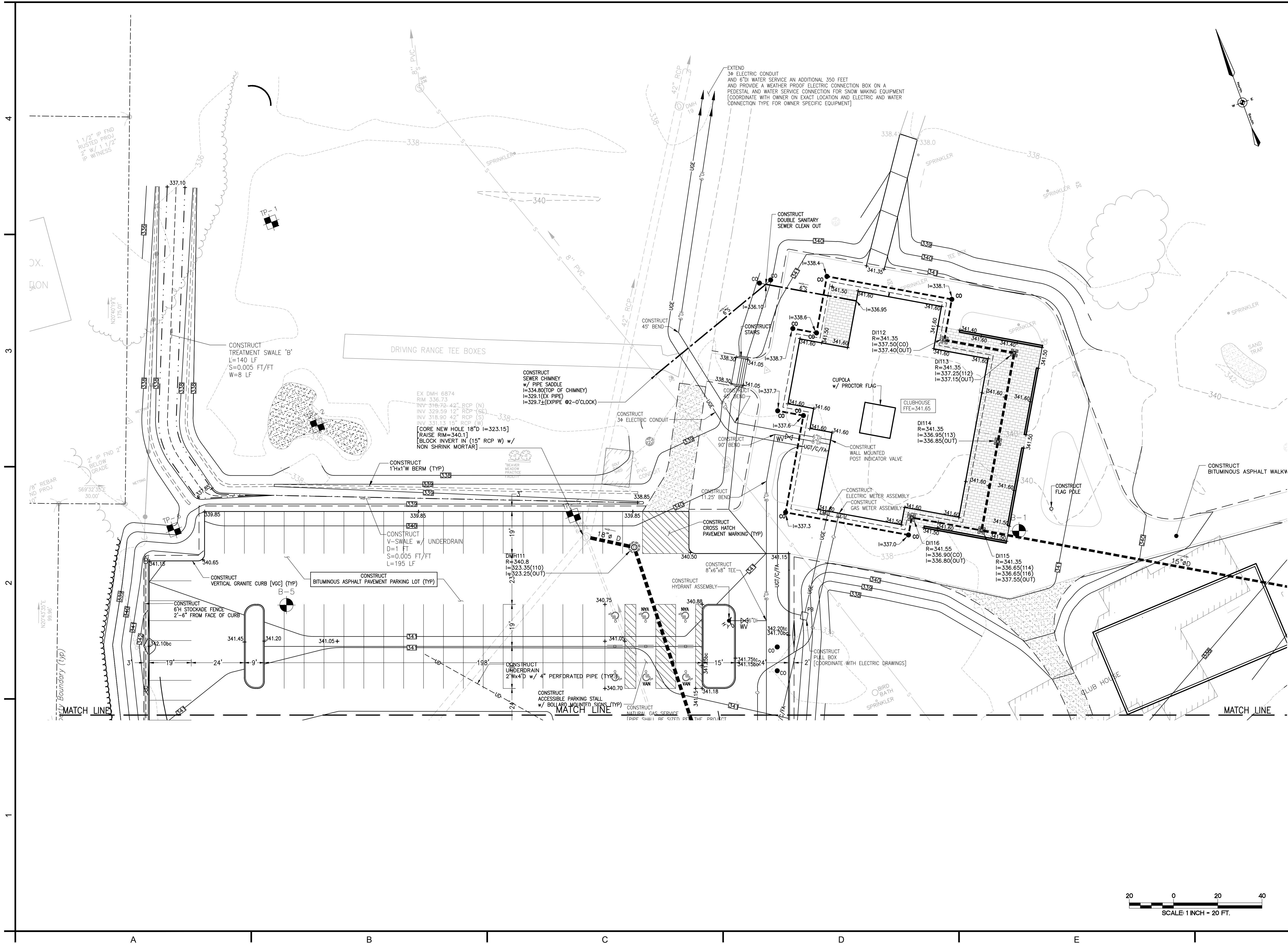
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SHEET TITLE:
**LAYOUT AND MATERIALS
PLAN**

C1.1B



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**BEAVER MEADOW
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PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
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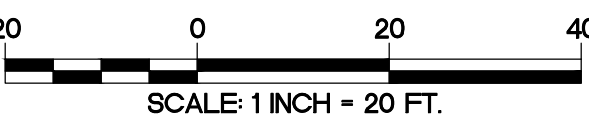
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ISSUE DATE:	07/16/25	

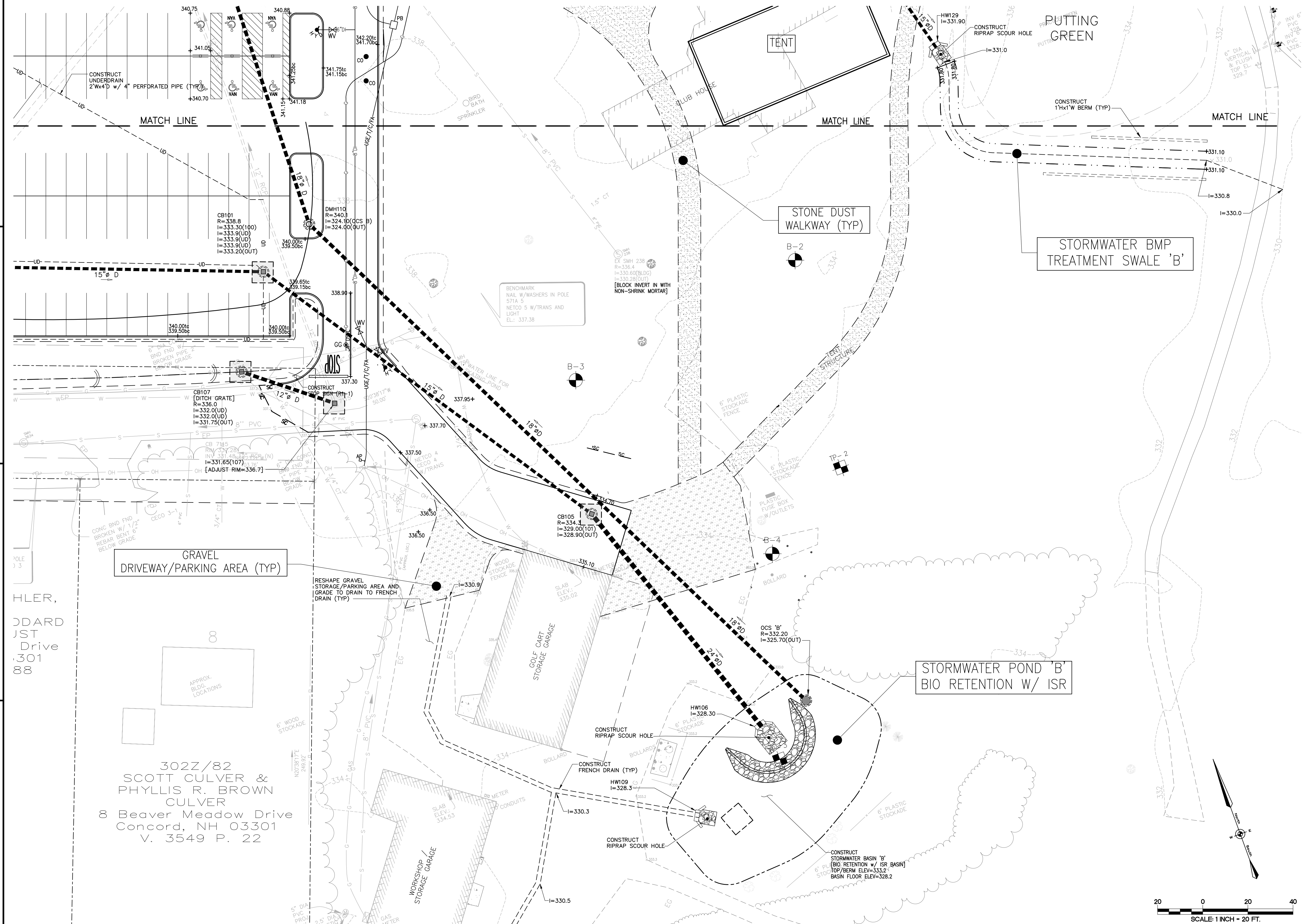
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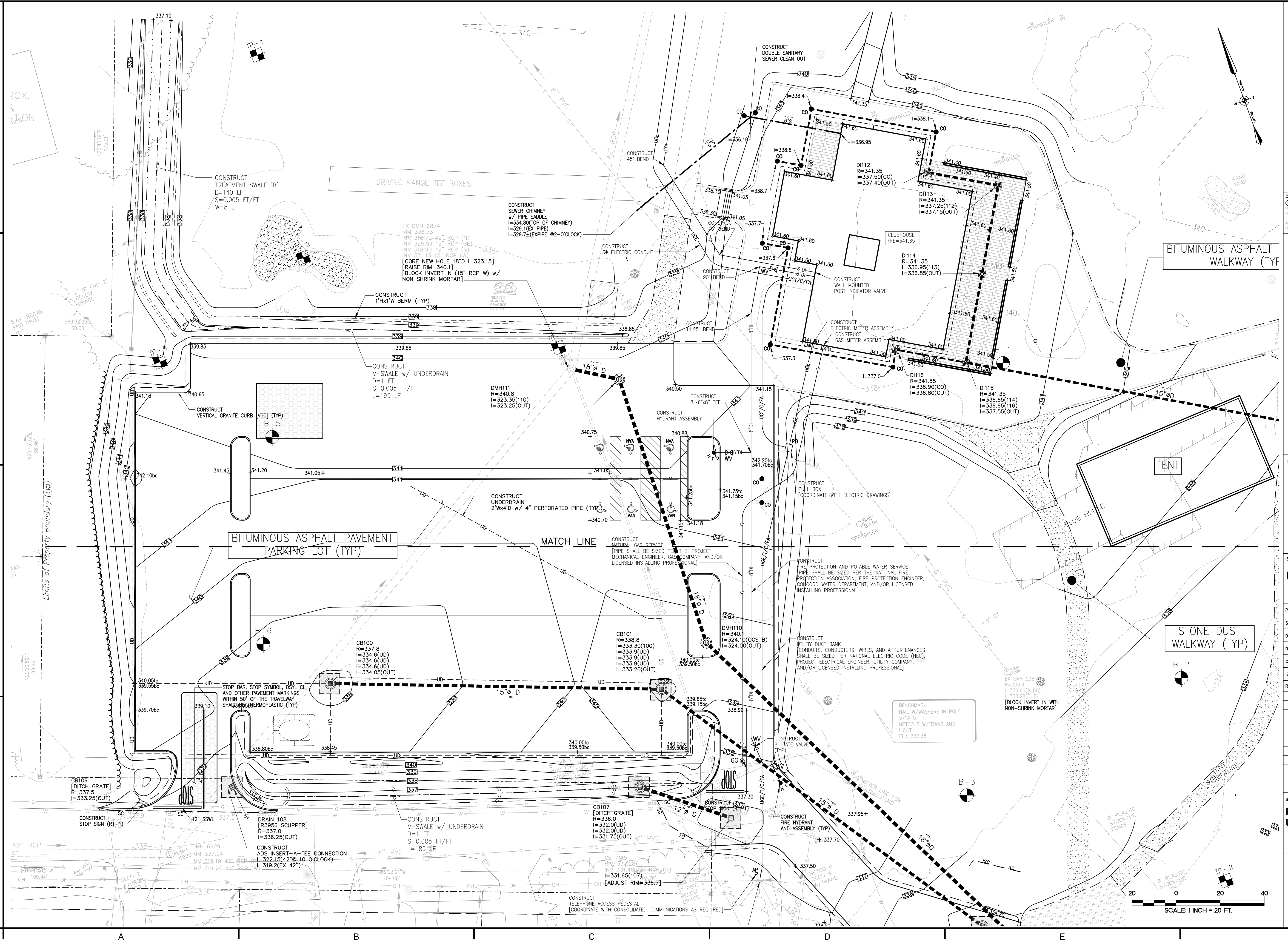
SHEET TITLE:
**GRADING AND DRAINAGE
PLAN**

C1.2B

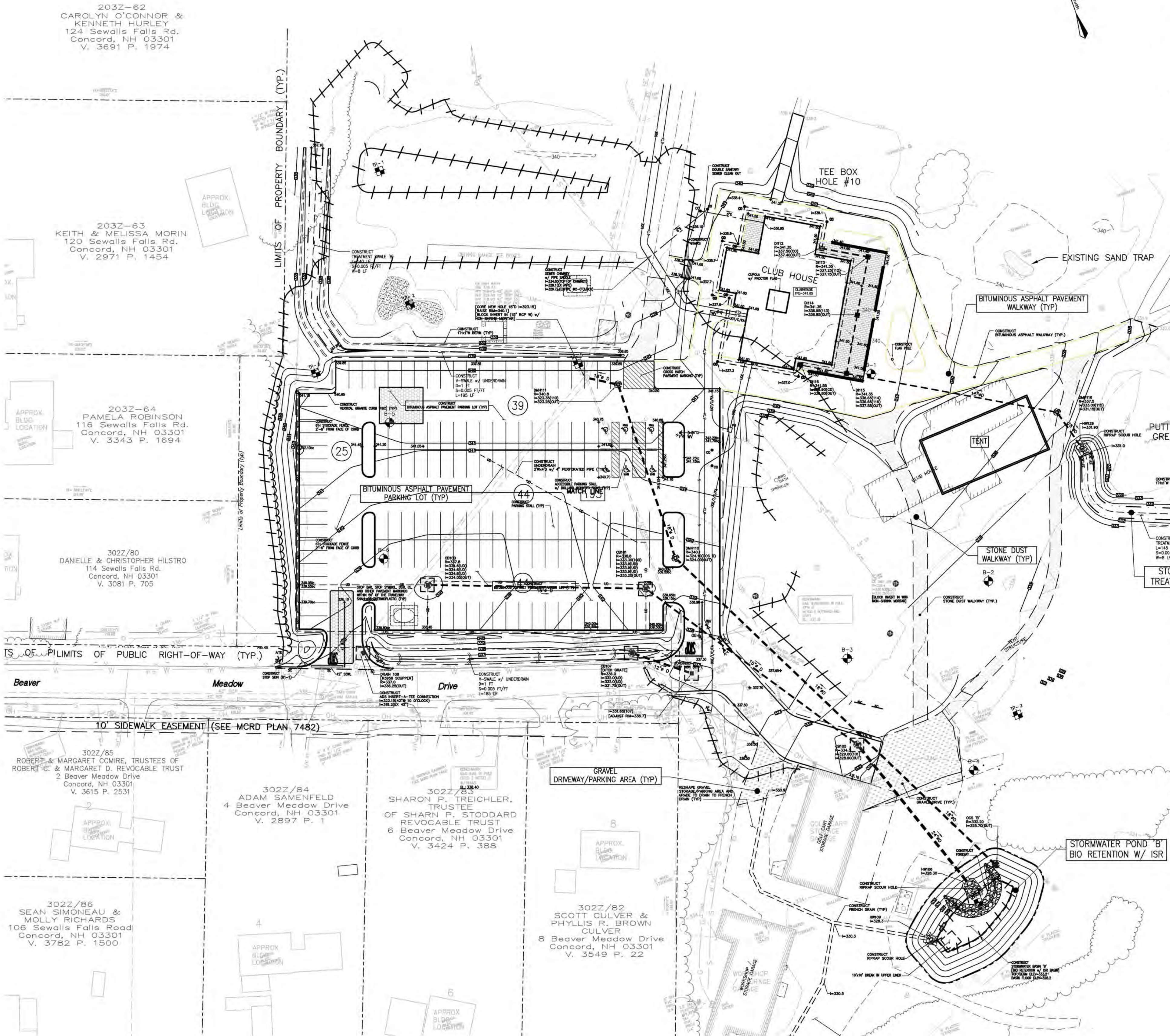


C1.2C





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EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE PROJECT REQUIRES A CONSTRUCTION GENERAL PERMIT (CGP) FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AS PART OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II STORMWATER ACT. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE A NOTICE OF INTENT (NOI) WITH THE EPA.
2. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND UTILITIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS.
3. THE EROSION CONTROL MEASURES SHOWN HEREON ARE DIAGRAMMATIC, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PLACE THE APPROPRIATE CONTROL MEASURES IN THE BEST SUITED LOCATIONS.
4. IF ADDITIONAL EROSION CONTROLS ARE NECESSARY THE CONTRACTOR SHALL PROVIDE SYSTEMS AS REQUIRED, AT NO ADDITIONAL EXPENSE TO THE OWNER. EROSION CONTROLS SHOWN HEREON ARE THE MINIMUM REQUIRED, THE METHODS AND MEANS OF CONTROLLING EROSION, SEDIMENTS, DUST, DEBRIS, ETC ARE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROLS AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR HOURS (24 HR) AFTER EACH STORM EVENT (0.25" OR GREATER) AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE WAYS AND PROTECTED RESOURCE AREAS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT, WHICH MAY INCLUDE INSTALLING ADDITIONAL MEASURES AS REQUIRED BEYOND WHAT ARE SHOWN ON THE PROJECT DRAWINGS.
7. THE CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
8. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN DEBRIS AND SEDIMENT FROM THE DRAINAGE SYSTEM.
9. AREAS REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN THIRTY DAYS (30 DAYS) SHALL BE TEMPORARY SEEDED AND MULCHED. HAY MULCH SHALL BE APPLIED AT A MINIMUM RATE OF ONE- AND ONE-HALF TONS PER ACRE (1-1/2 TON/AC).
10. PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 1 AND JUNE 1 AND/OR BETWEEN AUGUST 15 AND OCTOBER 15. ALL SEEDING SHALL BE HAY MULCHED.
11. DUST SHALL BE CONTROLLED THROUGH THE USE OF WATER OR OTHER INDUSTRY APPROVED STANDARD METHODS.
12. SOILS TO BE STOCKPILED FOR A PERIOD OF MORE THAN THIRTY DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. THE CONTRACTOR SHALL INSTALL SILT FENCE AND OR SILT SOCK ALONG THE DOWNHILL SIDE OF THE STOCKPILE.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENTATION BASINS AND TEMPORARY DIVERSION SWALES TO CONTROL SEDIMENTATION AND STORMWATER RUNOFF DURING THE CONSTRUCTION PERIOD, THAT MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES).
14. THE CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROLS TO ENSURE THAT SURFACE WATER RUNOFF FROM UNSTABILIZED AREAS DOES NOT CARRY SILT, SEDIMENT, AND OTHER DEBRIS OUTSIDE THE SITE WORK AREA.
15. AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED:
A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED AND COMPACTED TO A MINIMUM OF NINETY PERCENT (90%) OF THE DRY UNIT WEIGHT;
B. A MINIMUM OF EIGHTY FIVE PERCENT (85%) VEGETATIVE GROWTH HAS BEEN ESTABLISHED;
C. A MINIMUM OF 3-IN OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED;
E. THE AREA HAS BEEN PAVED WITH BITUMINOUS ASPHALT PAVEMENT, PORTLAND CEMENT CONCRETE, OR SIMILAR COVERS.
16. AT NO TIME SHALL THE TOTAL DISTURBED AREA BE GREATER THAN FIVE ACRES (5 AC).
17. ALL DITCHES, SWALES, STORMWATER BASINS, OR OTHER DRAINAGE FEATURES SHALL BE FULLY STABILIZED PRIOR TO DIRECTING STORMWATER TO THEM.
18. ALL DRIVEWAYS, ROADWAYS, AND/OR PARKING LOTS SHALL BE STABILIZED WITHIN SEVENTY-TWO HOURS (72 HR) OF ACHIEVING FINISHED GRADE.
19. ALL CUT AND FILL SLOPES SHALL HAVE TURF ESTABLISHMENT (IE LOAMED AND SEEDED) WITHIN SEVENTY-TWO HOURS (72 HR) OF ACHIEVING FINISHED GRADE.
20. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3-FT HORIZONTAL TO 1-FT VERTICAL (3H:1V). EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN SC150BN OR APPROVED EQUAL.

EROSION CONTROL

PROPOSED	EXISTING	DESCRIPTION
		SILT FENCE
		COMPOST SOCK
		DOUBLE PERIMETER CONTROL
		EROSION CONTROL MIX BERM
		HAYBALE BARRIER
		SILT CURTAIN
		DIVERSION SWALE/DYKE
		TEMPORARY CHECK DAM
		PERMANENT CHECK DAM
		INLET PROTECTION



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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP
SCALE:	1"=40'	
DES. BY:	DVB	
DRAWN BY:	MR/AGL	
CHKD BY:	DVB	
ISSUE DATE:	07/16/25	

REVISIONS

SHEET TITLE:

**PHASE I
EROSION PROTECTION
AND SEDIMENTATION
CONTROL PLAN**

C1.4

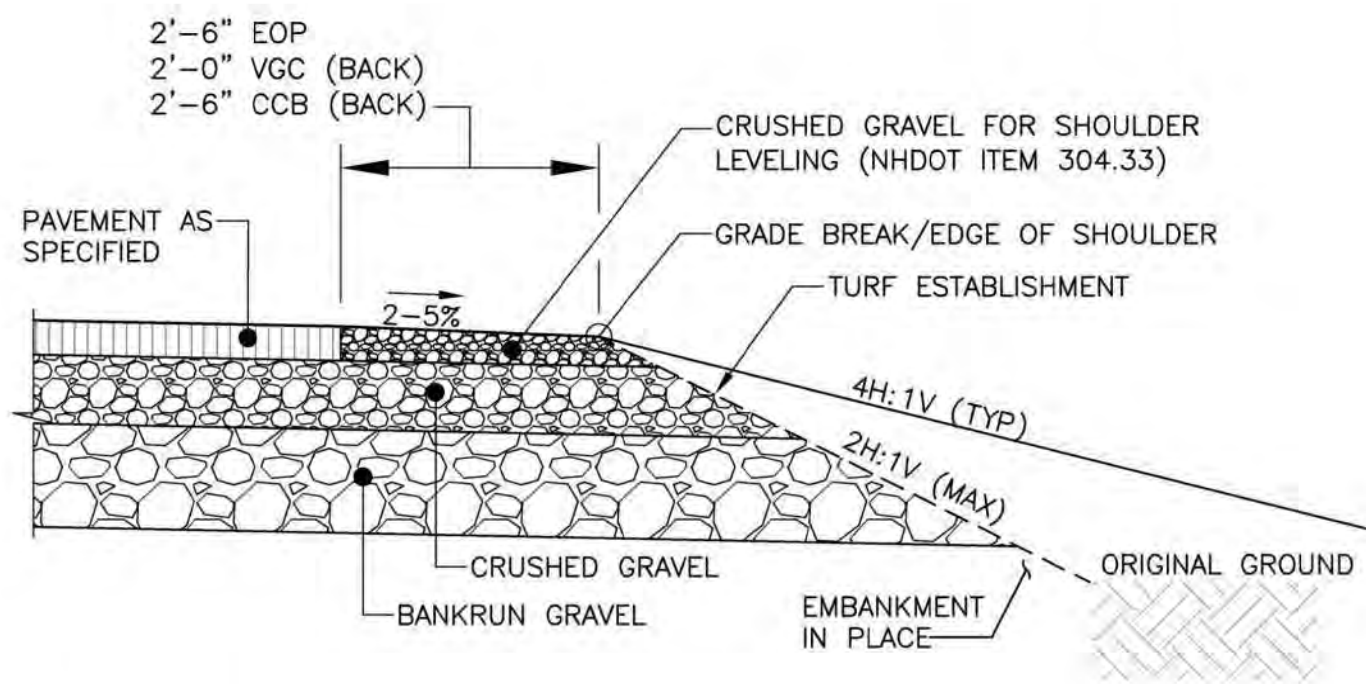
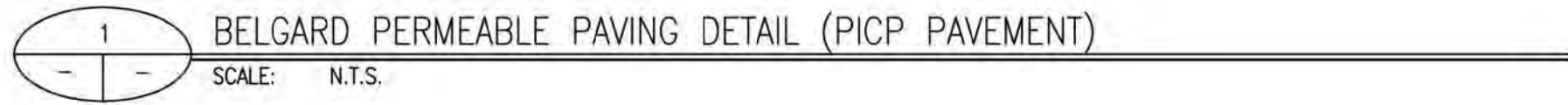
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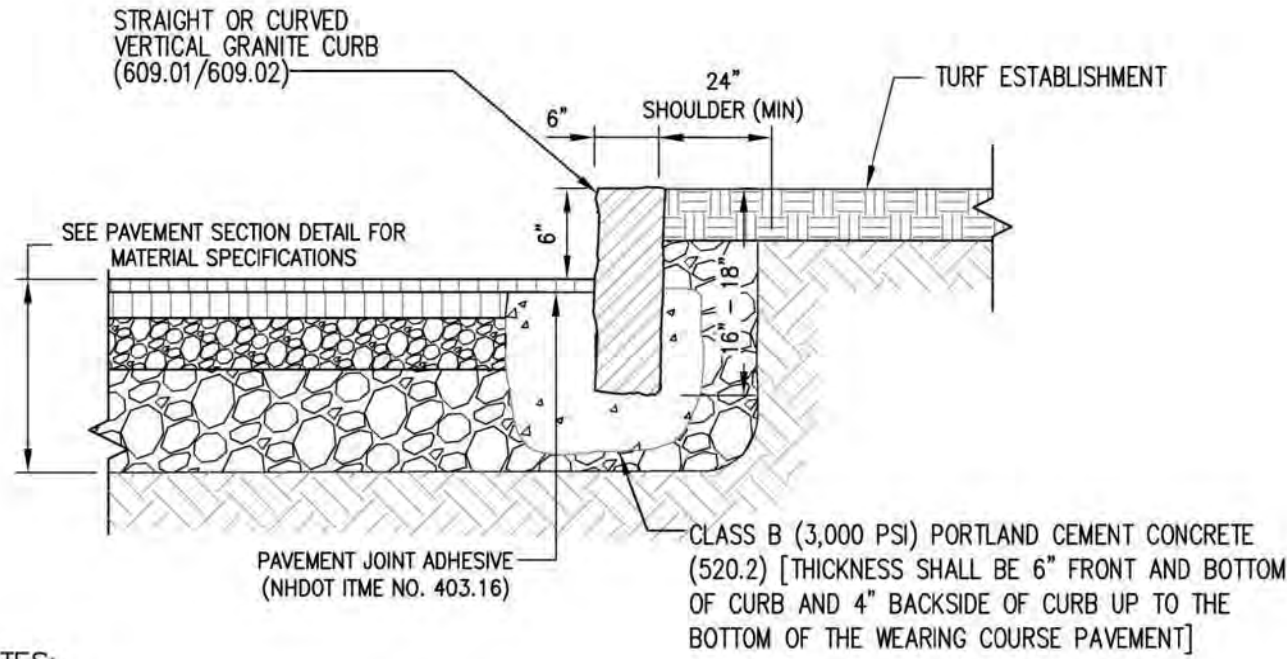
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SECTION REFERENCE	DESCRIPTION	SECTION
1 CX	NORMAL BITUMINOUS ASPHALT PAVEMENT DRIVEWAY/PARKING LOT	3" TOTAL ASPHALT THICKNESS 4" BITUMINOUS CONCRETE PAVEMENT SURFACE COURSE, (NHDOT 403.11043) BASE COURSE, (NHDOT ITEM NO. 403.11023) CRUSHED GRAVEL (NHDOT ITEM NO. 304.3) BANKRUN GRAVEL SUBBASE, (NHDOT ITEM NO. 304.2) EMBANKMENT IN PLACE, (NHDOT ITEM NO. 207.1) GEOTEXTILE FABRIC (WHERE ORDERED BY ENGINEER)
2 CX	GRAVEL DRIVEWAY/PARKING LOT	4" CRUSHED GRAVEL FOR DRIVES (NHDOT ITEM NO. 304.35) 6" GRAVEL (NHDOT 304.2) EMBANKMENT IN PLACE (NHDOT ITEM NO. 207.1)
3 CX	BITUMINOUS ASPHALT PAVEMENT WALKWAY	1.5% (MAX) CROSS SLOPE 2" HOT MIX ASPHALT (NHDOT ITEM NO. 403.11043) 6" CRUSHED GRAVEL (NHDOT 304.3) EMBANKMENT IN PLACE (NHDOT ITEM 203.6)
4 CX	TURF ESTABLISHMENT w/ MULCH, TACKIFIERS, AND HUMUS	(REFER TO LANDSCAPING, EPSC PLANS & DETAILS FOR SEED TYPE)
5 CX	TURF ESTABLISHMENT w/ MULCH, TACKIFIERS, AND LOAM	(REFER TO LANDSCAPING, EPSC PLANS & DETAILS FOR SEED TYPE)
6 CX	STONE DUST PATH	4" STONE DUST EMBANKMENT IN PLACE (NHDOT ITEM 203.6)



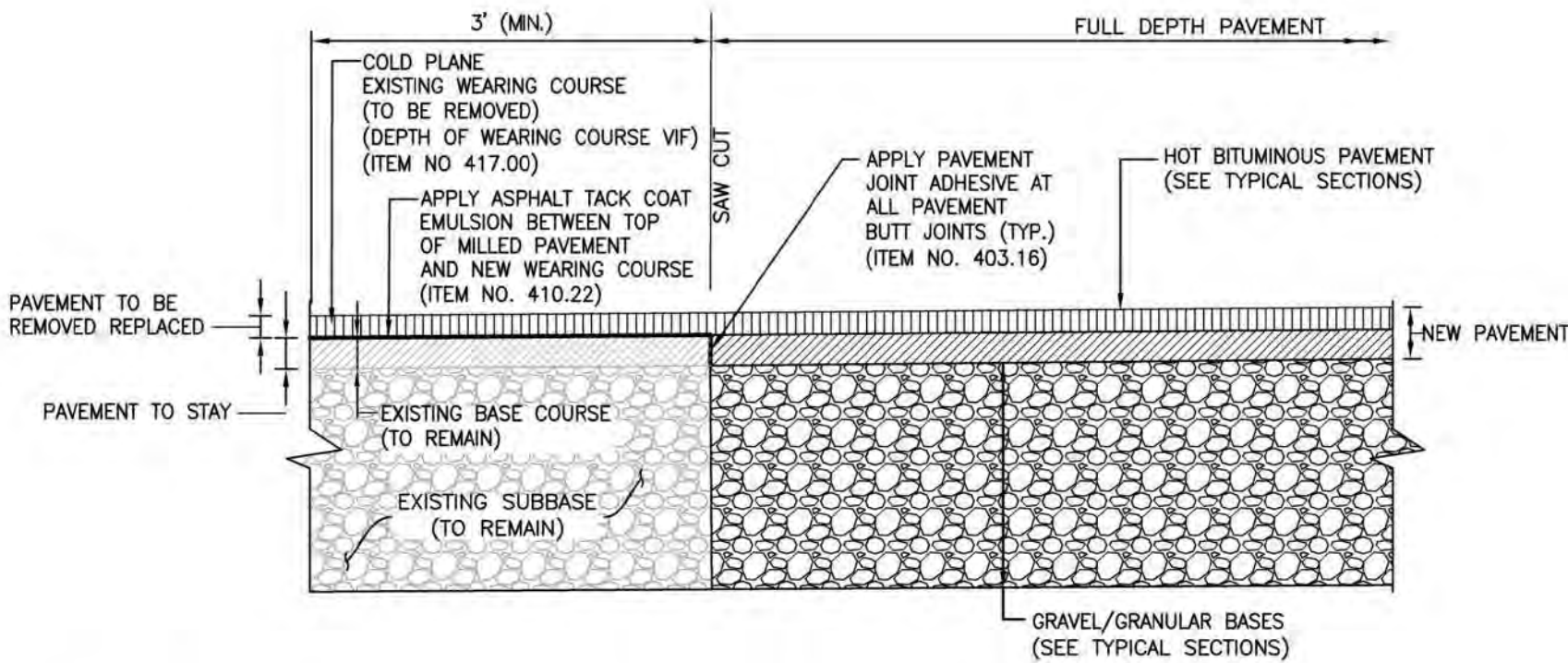
2 GRAVEL SHOULDER/GRADE BREAK

SCALE: NONE



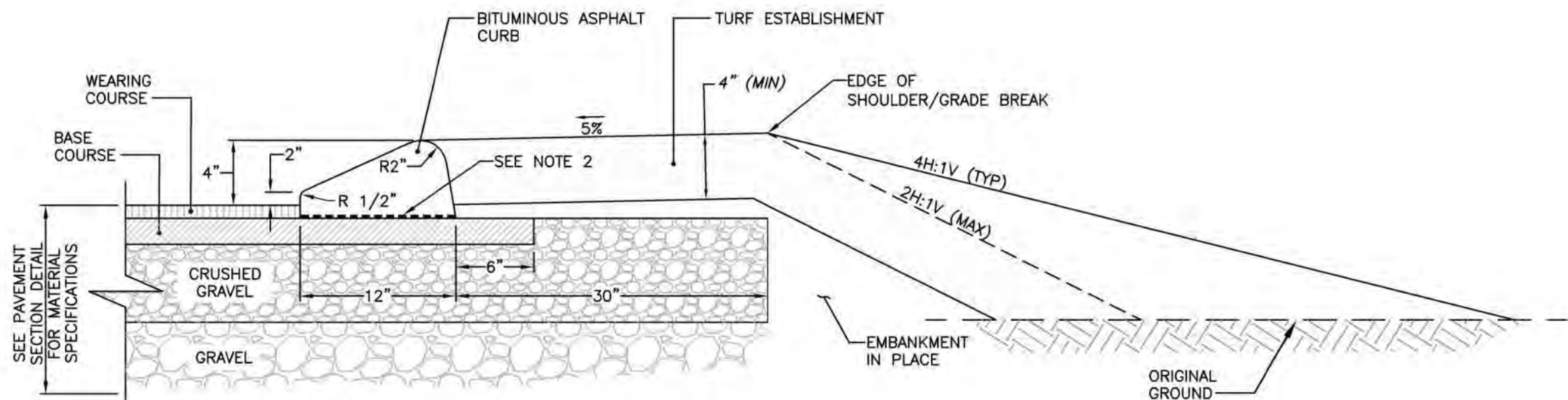
3 CURB ~ STRAIGHT/CURVED VERTICAL GRANITE

SCALE: N.T.S.



4 HOT BITUMINOUS ASPHALT PAVEMENT - COLD PLANING/STEPPED BUTT JOINT

SCALE: N.T.S.



- NOTES:
1. BITUMINOUS CURB MATERIAL SHALL MEET THE REQUIREMENTS OF NHDOT SECTION 609.
 2. APPLY BITUMINOUS TACKIFIER ON BASE COURSE PAVEMENT PRIOR TO PLACEMENT OF CURB.
 3. CURB FORM SHALL BE MILLER #1144 OR EQUAL.

6 CURB ~ BITUMINOUS ASPHALT CAPE COD BERM (CCB)

SCALE: NONE

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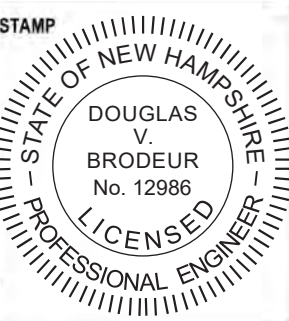
PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.: 5387
SCALE: AS NOTED
DESN. BY: DVB
DRAWN BY: MR/AGL
CHKD BY: DVB
ISSUE DATE: 07/16/25



REVISIONS

SHEET TITLE:

SITE DETAILS

C2.0

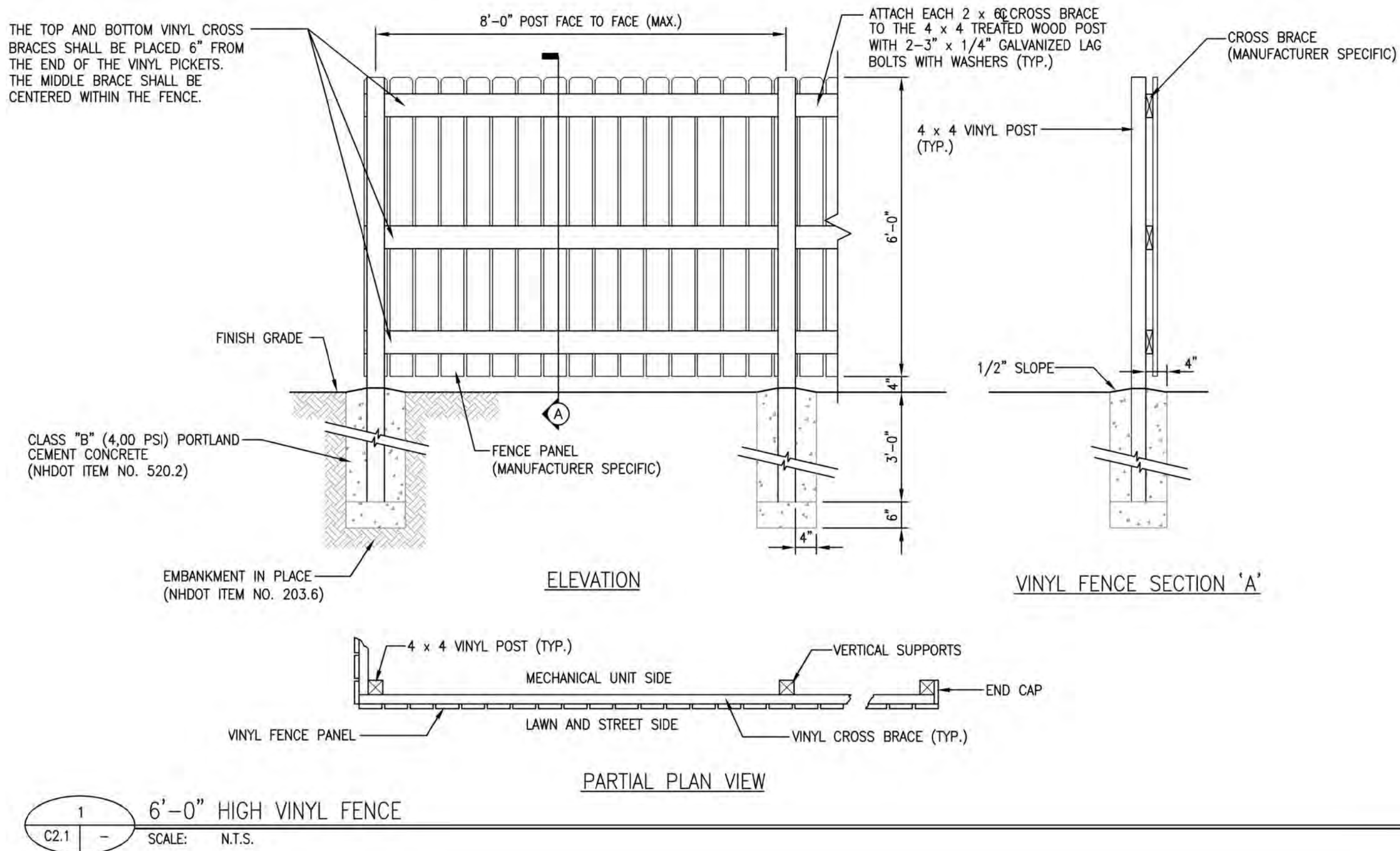
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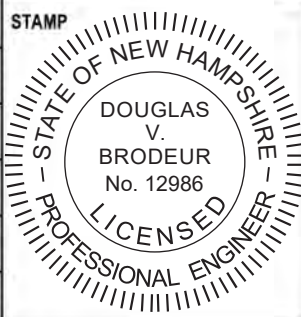
PROJECT TITLE / ADDRESS:
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SITE DETAILS

C2.1

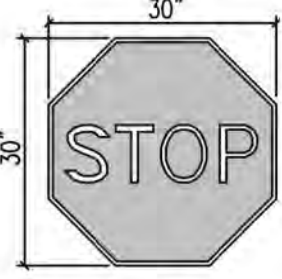
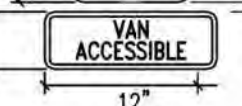
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1

SYMBOL	MUTCD ID		DESCRIPTION	SIZE
A	R1-1		STOP SIGN RED / WHITE SINGLE POLE MOUNTED	30"x30"
B	R7-8		HANDICAP PARKING GREEN & BLUE / WHITE SINGLE POLE SINGLE MOUNTED	12"x18"
C	R7-8		HANDICAP PARKING W/ VAN ACCESSIBLE PLACARD GREEN & BLUE / WHITE SINGLE POLE SINGLE MOUNTED	12"x18"
	R7-8P			4"x12"
D	R7-107		NO PARKING RED/WHITE SINGLE POLE MOUNTED	12"x18"

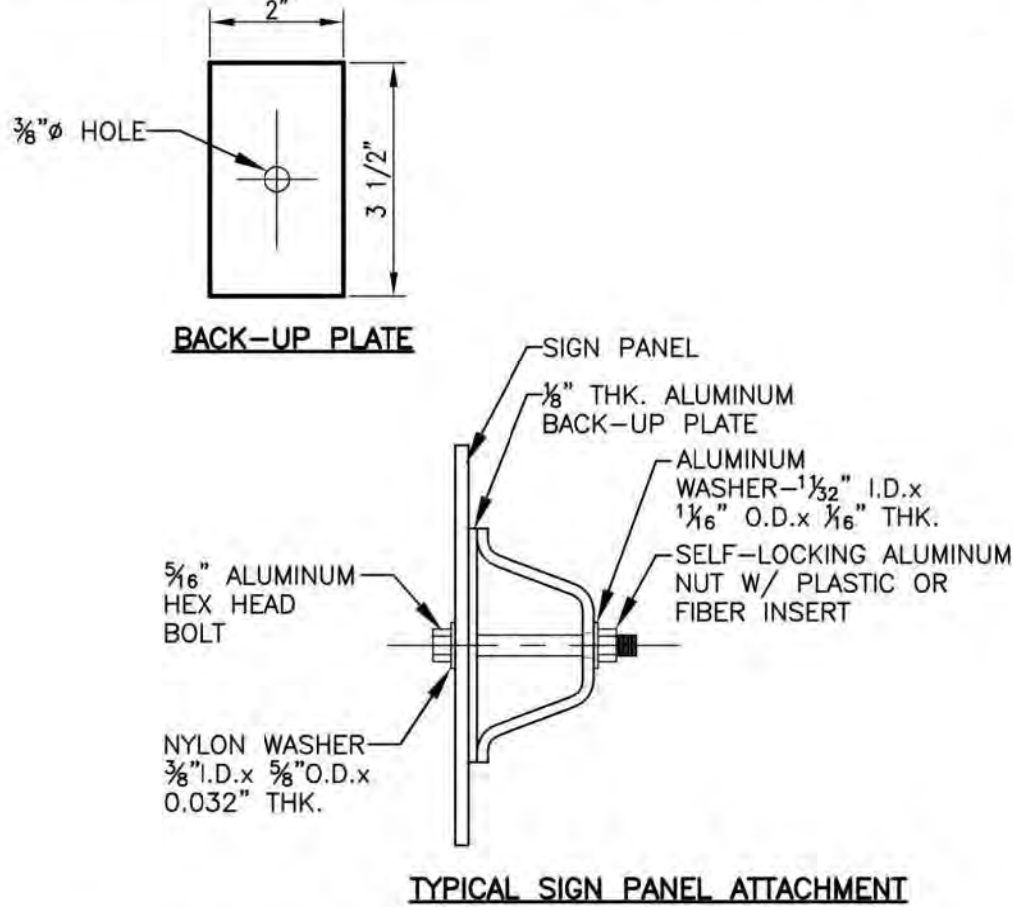
SIGN NOTES

1. ALL SIGNS SHALL CONFORM TO MUTCD AND NHDOT REQUIREMENTS.

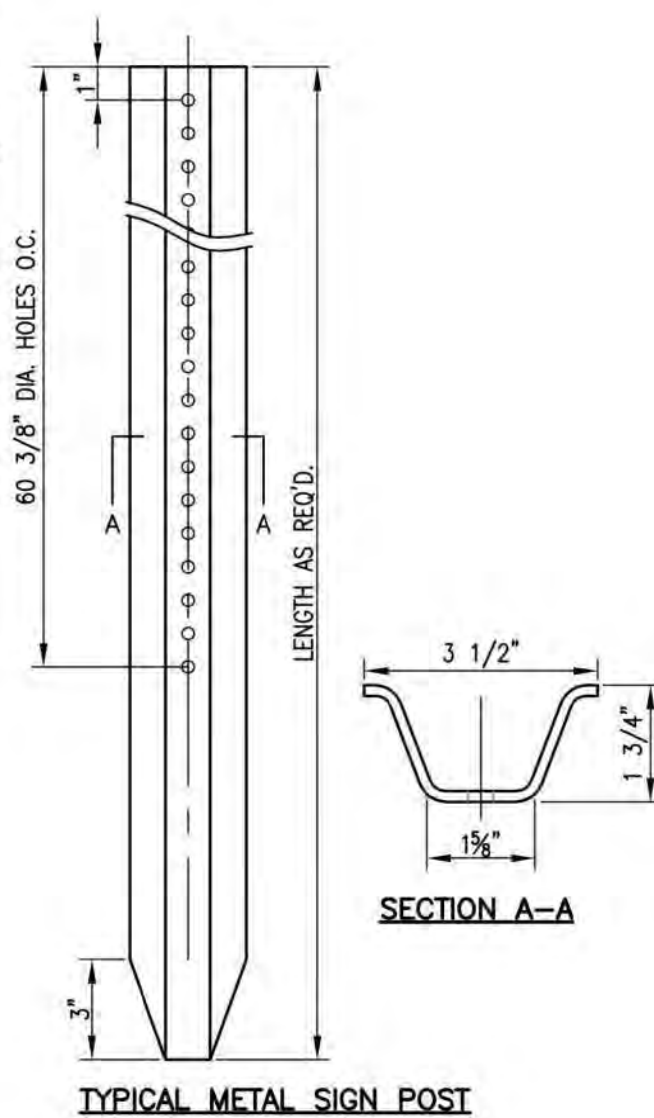
1	SIGN SCHEDULE
-	SCALE: N.T.S.

SIGN POST NOTES

1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A499-81 GRADE 60 & TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NORMAL WEIGHT OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS.
4. SIGN POSTS SHALL WEIGH 3 LB/FT MIN.
5. ALL SIGN POSTS SHALL CONFORM TO MUTCD AND NHDOT REQUIREMENTS

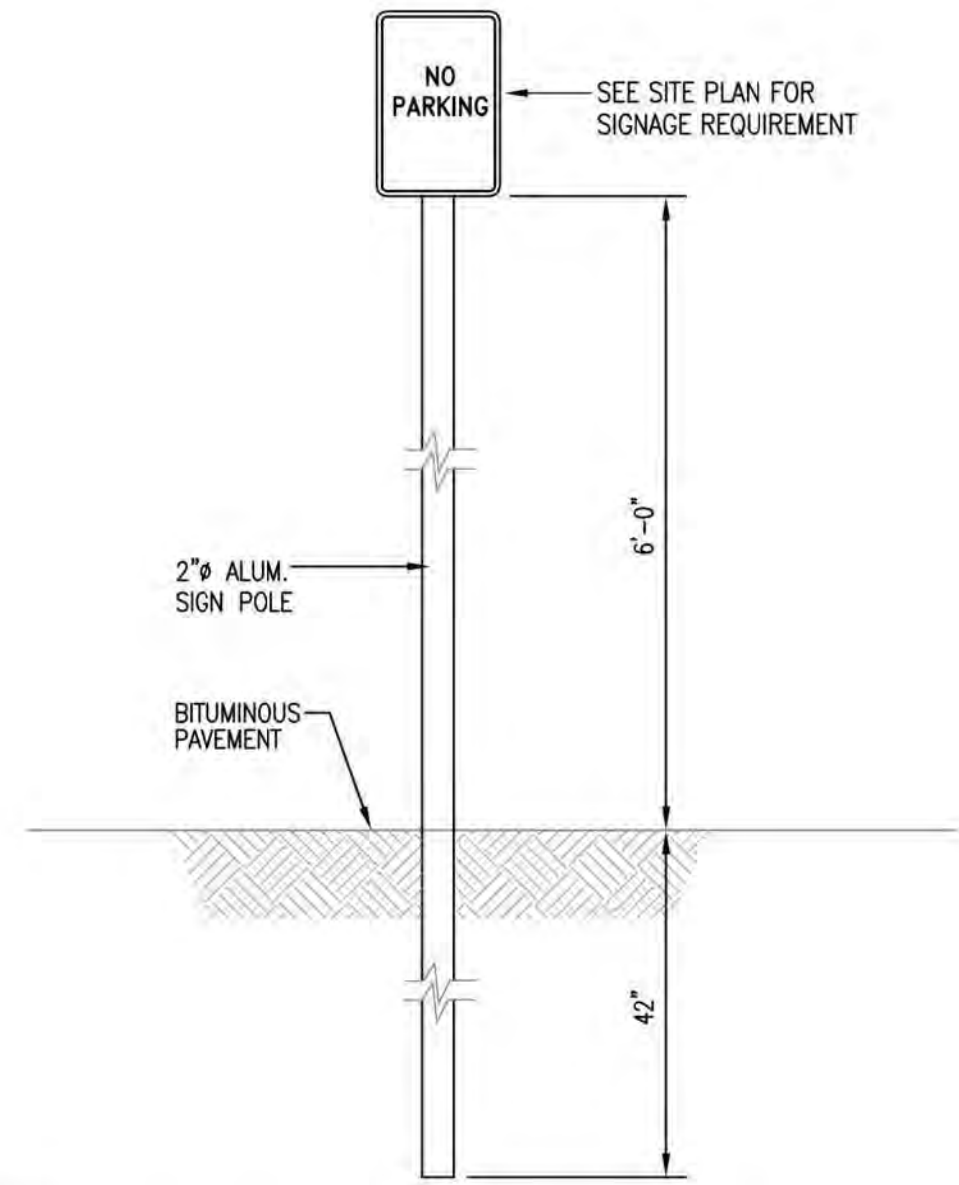
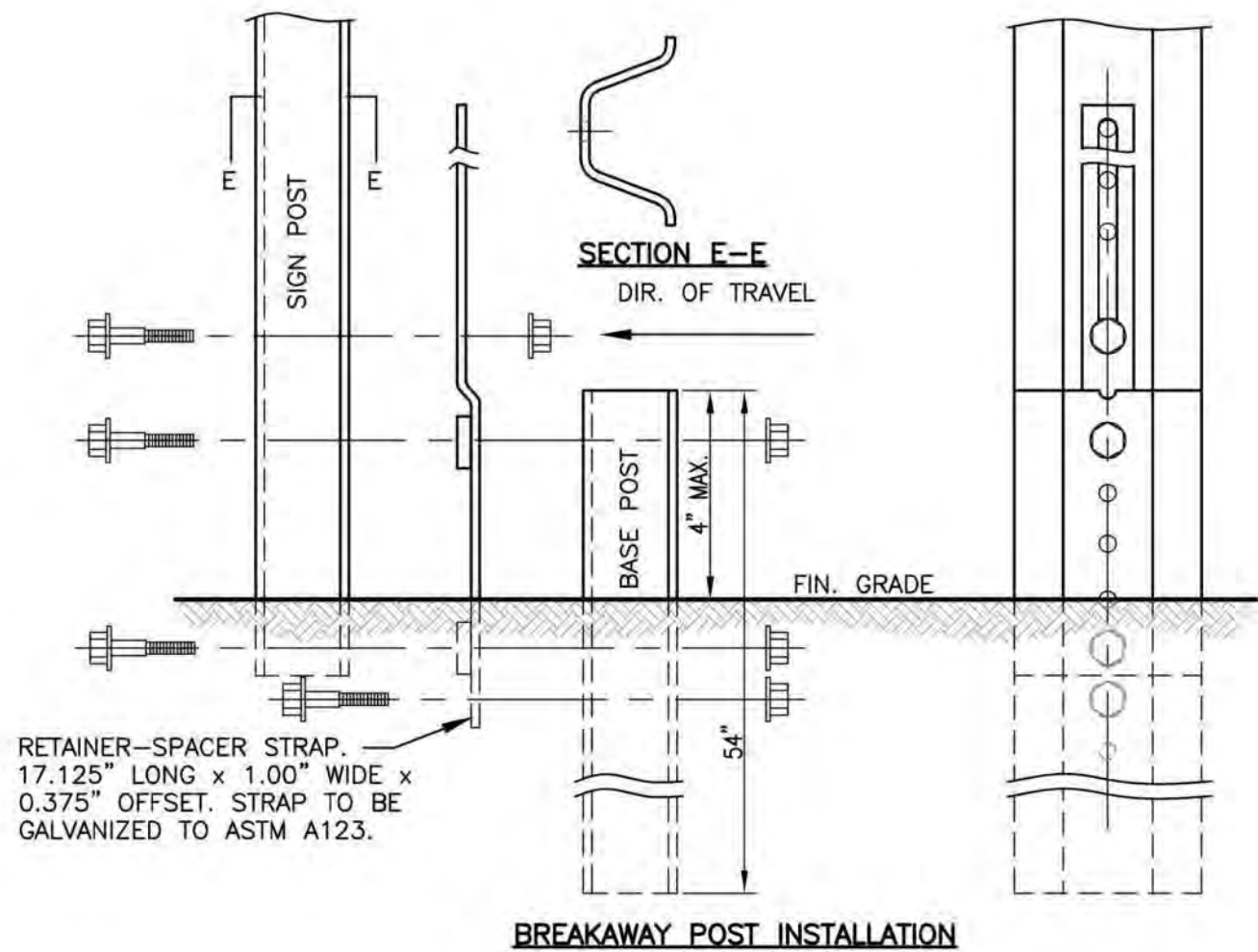


2	SIGN POST DETAILS
C2.2	SCALE: N.T.S.

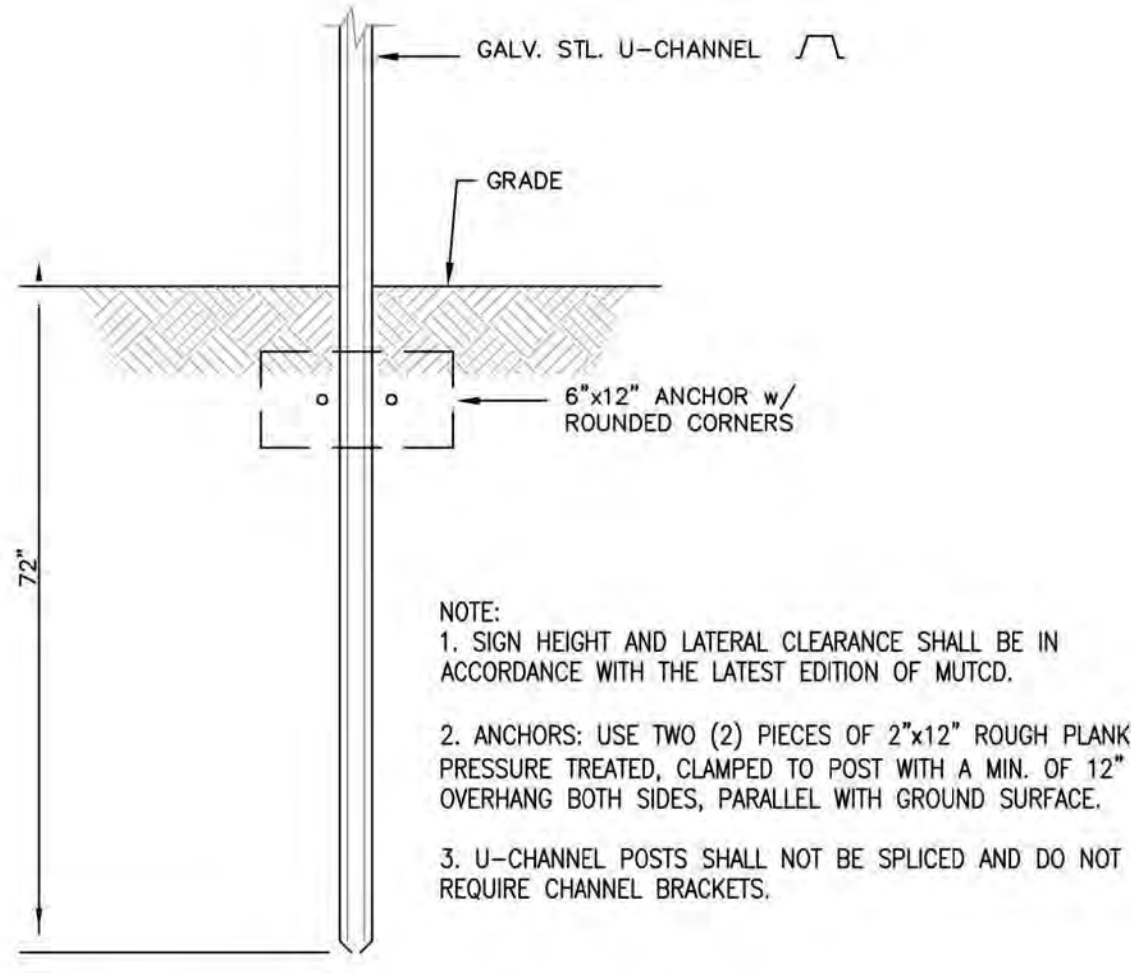


BREAKAWAY POST NOTES

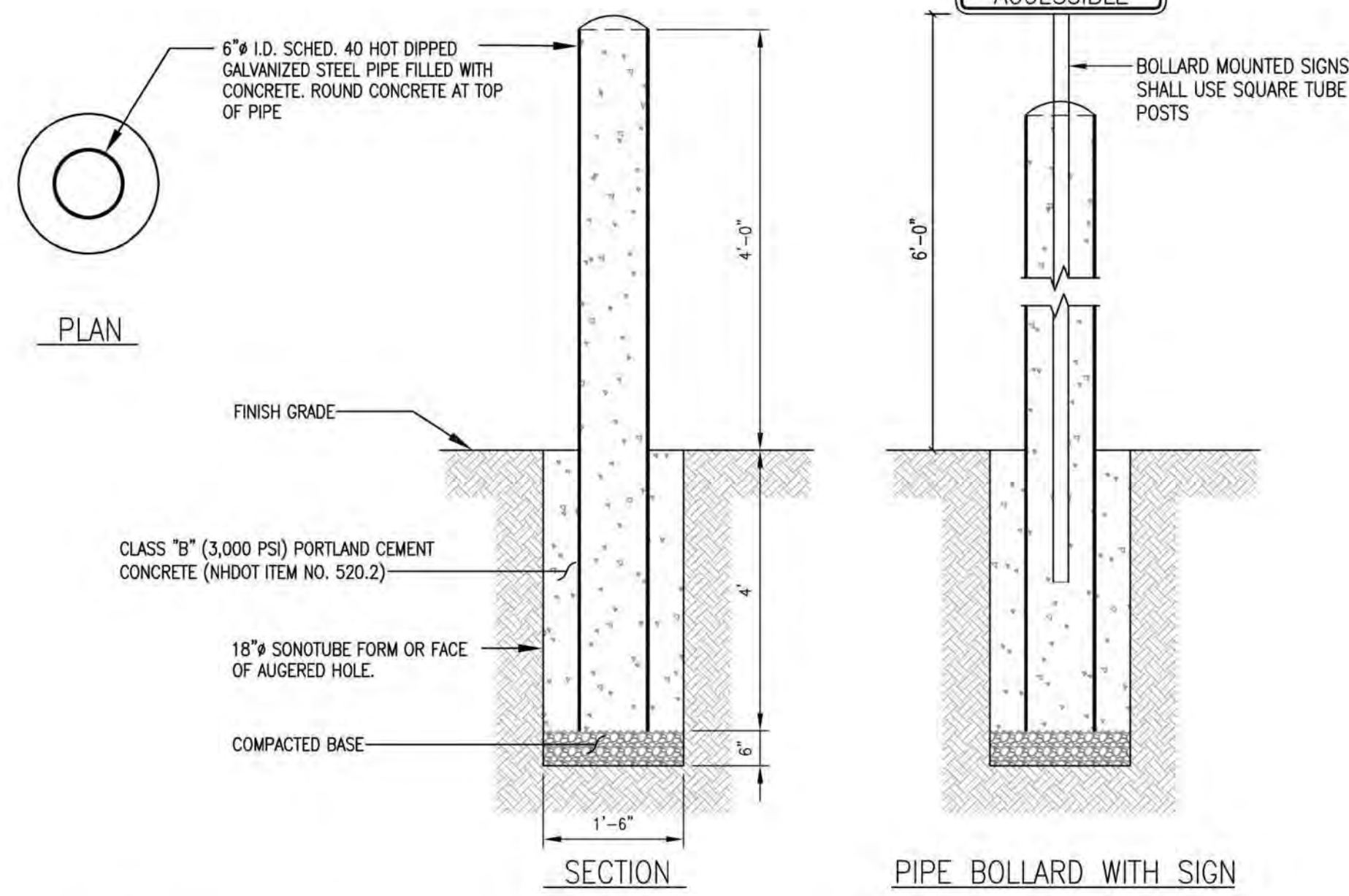
1. BOLTS:
HEX HEAD, INTEGRAL FLANGE, CONFORMING TO ASTM A354, SIZE IS 5/8"-18 UNC x 2.0", GRADE BD.
2. NUTS:
5/8"-18 UNC HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A563, GRADE DH.
3. LOCKWASHERS:
5/8" HEAVY DUTY EXTERNAL TYPE



3	SIGN MOUNTING DETAIL ~ 2"Ø PIPE
C2.2	SCALE: N.T.S.



4	DIRECT BURIED SINGLE POST DETAIL
C2.2	SCALE: N.T.S.



5	STEEL PIPE BOLLARD ~ 6"Ø w/ MOUNTED SIGN
C2.2	SCALE: N.T.S.

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BEAVER MEADOW
GOLF COURSE

PROJECT TITLE / ADDRESS:
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GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

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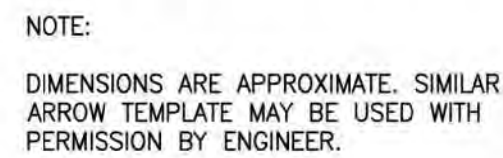
PROJ. NO.:	5387	STAMP	STATE OF NEW HAMPSHIRE DOUGLAS BRODEUR No. 12986 LICENSED PROFESSIONAL ENGINEER
SCALE:	AS NOTED		
DESIGN BY:	DVB		
DRAWN BY:	MR/AGL		
CHKD BY:	DVB		
ISSUE DATE:	07/16/25		

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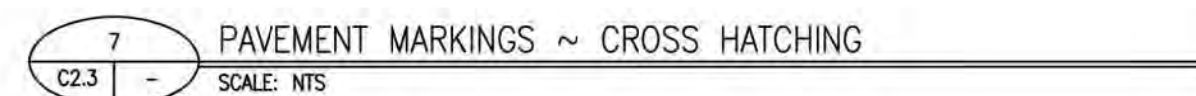
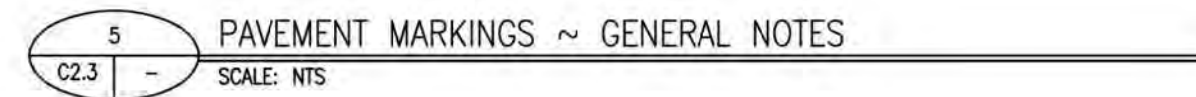
SHEET TITLE:

SITE DETAILS

C2.2



1. ALL PAVEMENT MARKINGS SHALL BE:
 - A. IN CONFORMANCE WITH NHDOT BUREAU OF TRAFFIC STANDARDS AND THE CURRENT EDITION OF THE MUTCD.
 - B. THERMOPLASTIC WITHIN DRIVEWAYS
 - C. VARY NO MORE $\frac{1}{4}$ " FROM THE SPECIFIED DIMENSIONS..
2. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SIGNING AND PAVEMENT MARKINGS.
3. STOP BARS SHALL BE THERMOPLASTIC.
4. ALL FLOW ARROWS ARE TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT.
5. THE CONTRACTOR SHALL CONDUCT A PRE-STRIPPING INSTALLATION MEETING WITH THE OWNER TO REVIEW PATTERNS, COLORS, AND LOCATIONS OF MARKINGS, AND SCHEDULE.



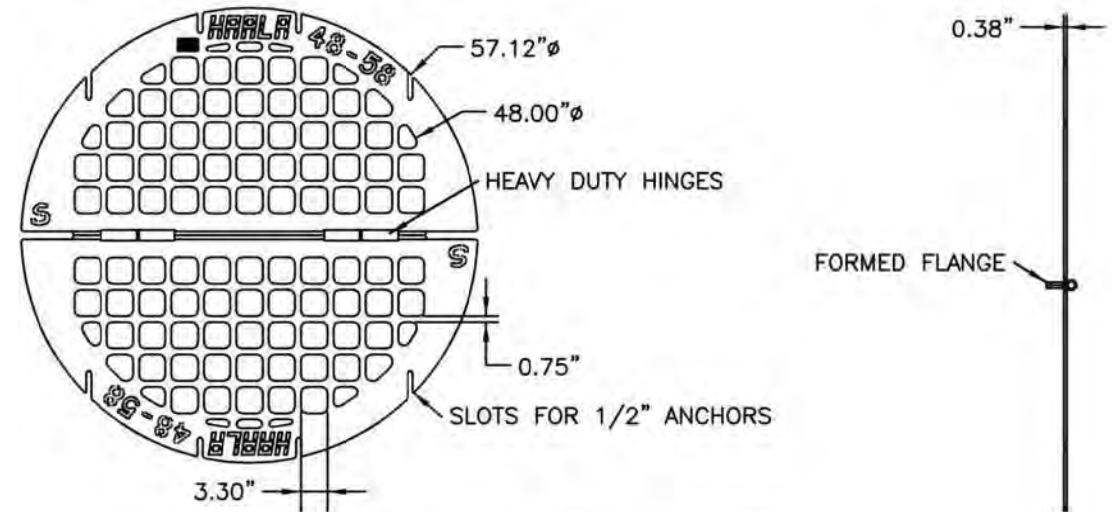
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2

1



- NOTES:
- SKIMMING GRATES SHALL BE PROVIDED BY HALLA INDUSTRIES OR APPROVED EQUAL.
 - A36 HOT DIP GALVANIZED STEEL, w/ COLOR GALV, (BLACK) PER ASTM A123.
 - OPEN AREA: 7.01 SQ FT

4
C2.4 - STORMWATER POND SKIMMING GRATE w/ HINGE ~ 48"Ø
SCALE: N.T.S.

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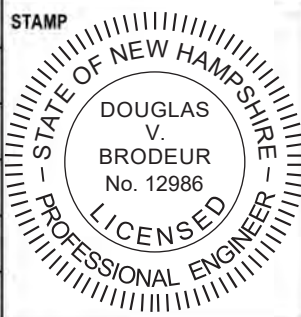
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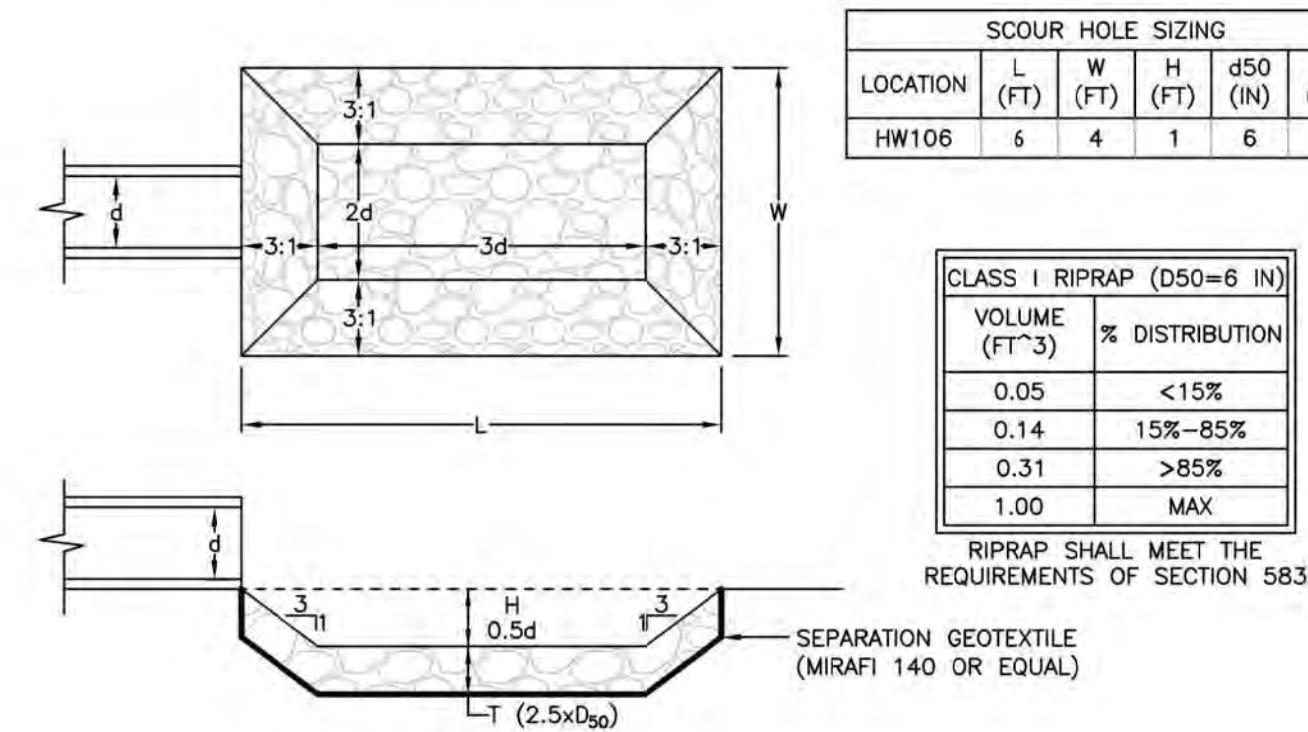
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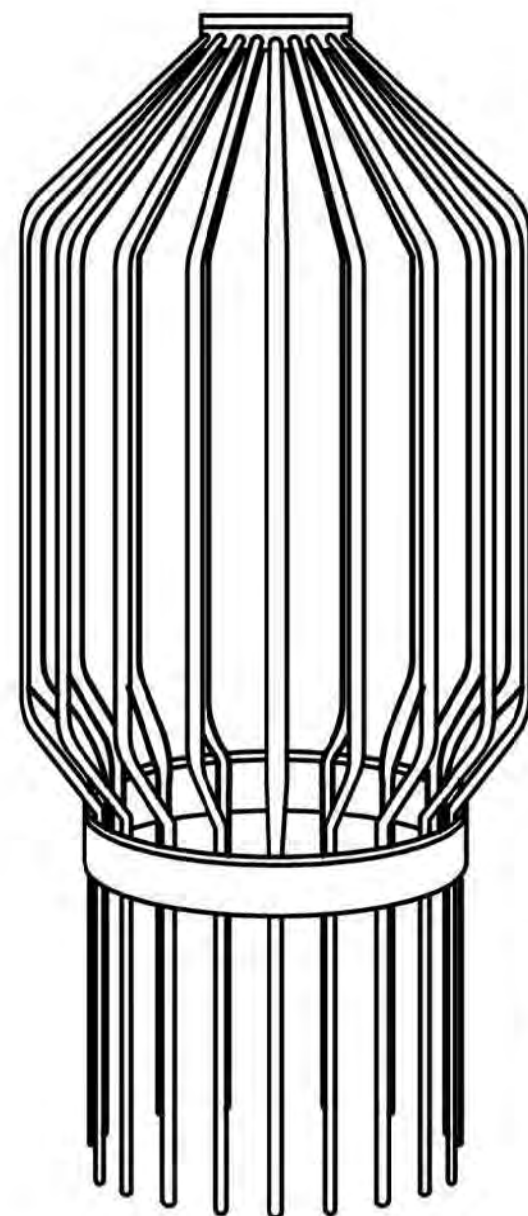
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1



1 OUTLET PROTECTION ~ RIPRAP SCOUR HOLE
SCALE: NTS

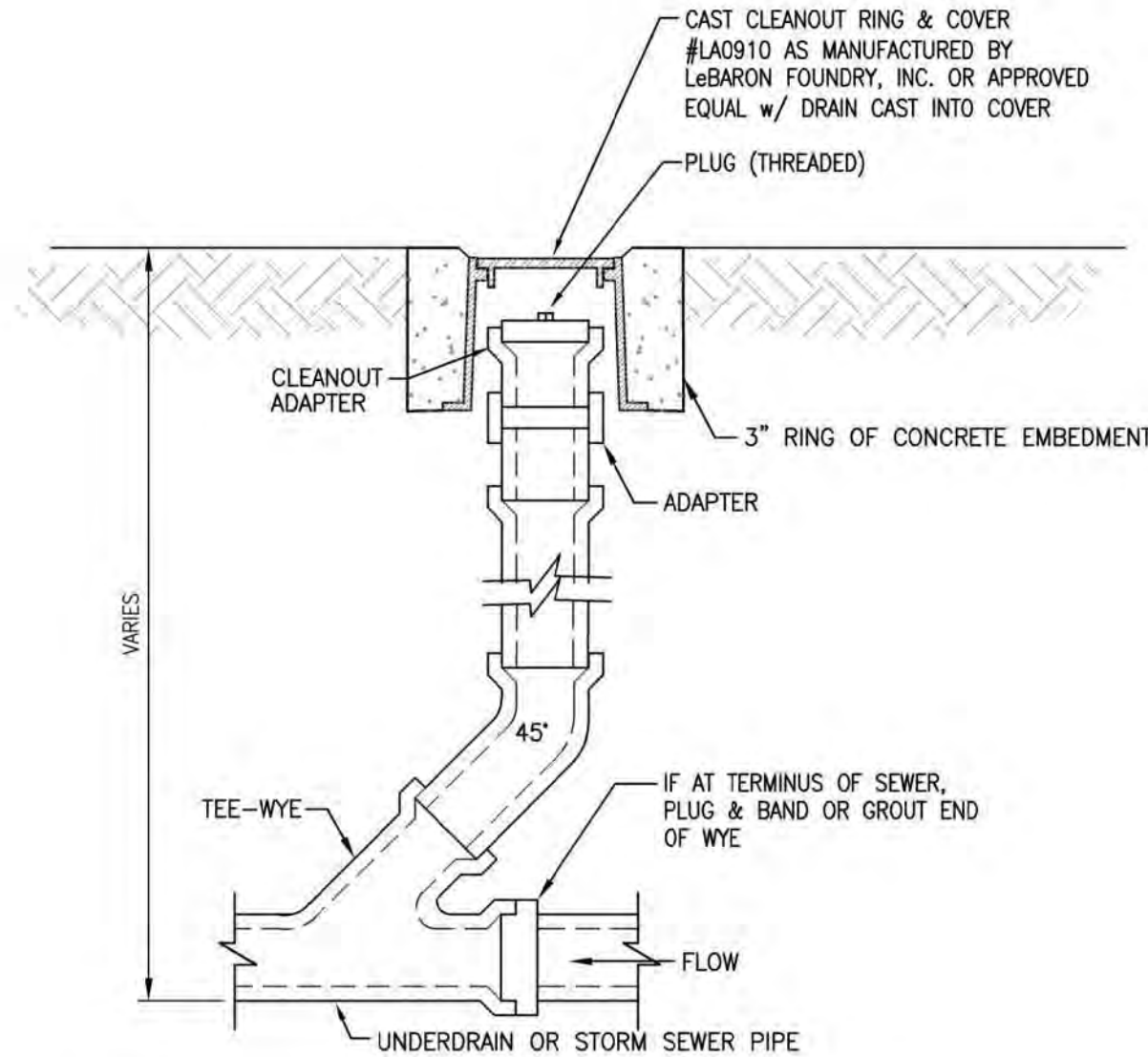


BAR GUARD SIZE	BAR DIAMETER	BAR SPACING	OVERALL O.D.	OVERALL HEIGHT
4"	1/4"	1 1/8"	5 1/2"	17 3/8"
5"	1/4"	1 1/8"	6 1/2"	17 3/4"
6"	1/4"	1 1/8"	7 1/2"	18"
8"	1/4"	1 1/8"	9 1/2"	19 1/8"
8" H	1/4"	1 1/8"	9 7/8"	19 1/2"
10"	1/4"	1 1/8"	11 1/2"	20"
10" H	1/4"	1 1/8"	12 1/4"	20 3/8"
12"	1/4"	1 1/8"	13 1/2"	21 1/8"
12" H	1/4"	1 1/8"	15 7/8"	22"
15"	5/16"	1 1/2"	16 1/2"	22 1/8"
18"	5/16"	1 1/2"	19 1/2"	23 1/2"
24"	5/16"	2"	25 1/2"	26 1/2"
30"	5/16"	2"	31 1/2"	31"
36"	5/16"	2"	37 1/2"	33 1/8"
42"	3/8"	2 3/4"	43 1/2"	35 3/4"
48"	3/8"	3 1/8"	49 1/2"	36"

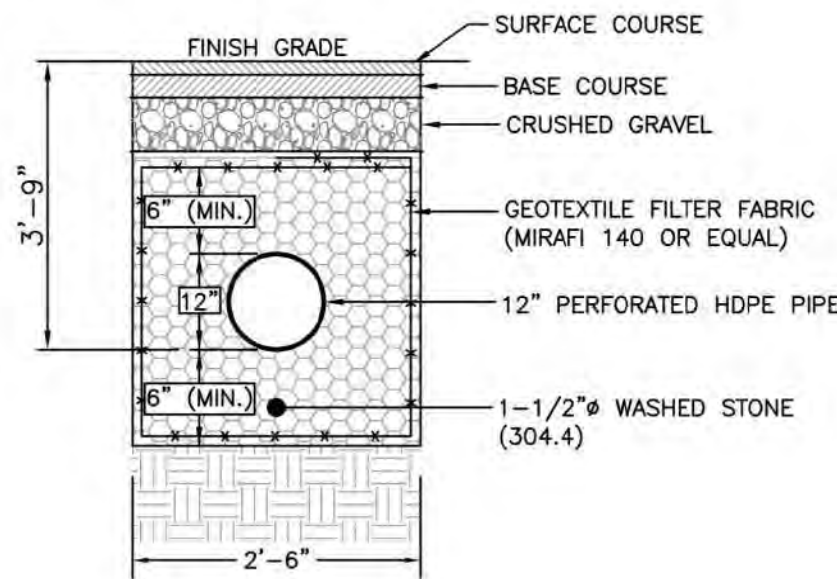
24"-30" BAR GUARDS ARE IN 2 PIECES.
36" ARE IN 3 PIECES, 42" & 48" ARE IN 4 PIECES.
(BOLTS, WASHERS, AND NUTS ARE INCLUDED)

- NOTES:
- ALL OUTLET PIPES SHALL BE INSTALLED WITH AGRIDRAIN BAR GUARDS.
 - ALL AGRIDRAIN BAR GUARDS SHALL BE PAINTED WITH FACTORY APPROVED YELLOW POWDER COAT.

4 STORMDRAIN OUTLET PIPE PROTECTION ~ AGRIDRAIN BAR GUARD
SCALE: NTS

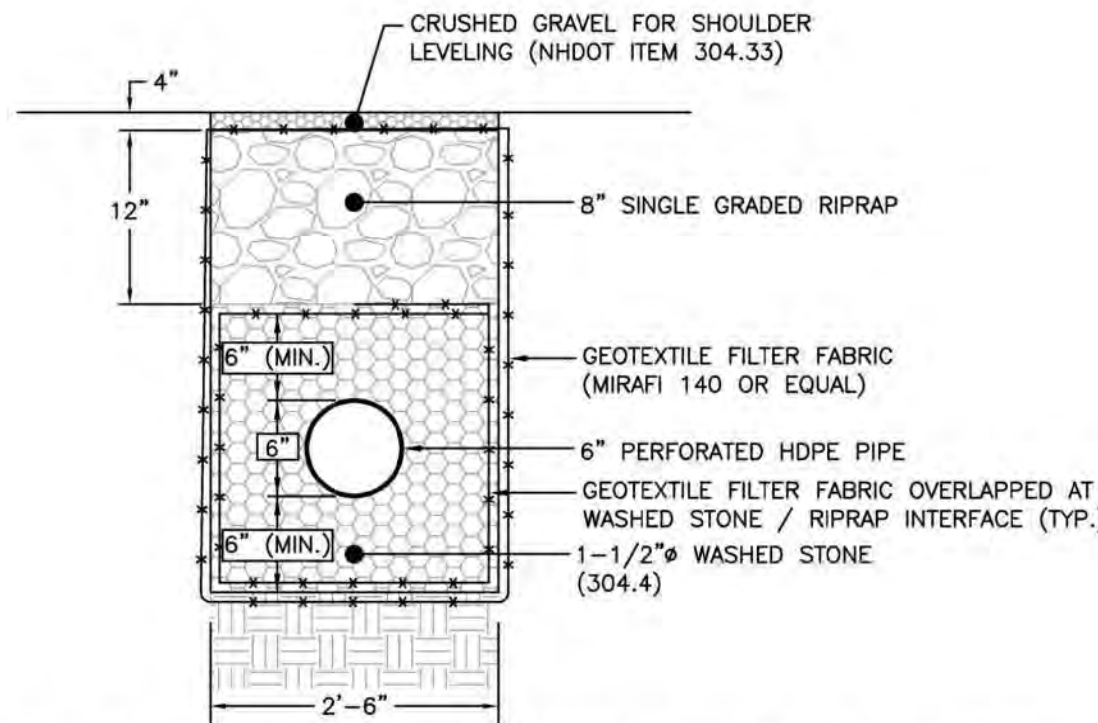


2 STORM SEWER/UNDERDRAIN CLEAN OUT
SCALE: N.T.S.



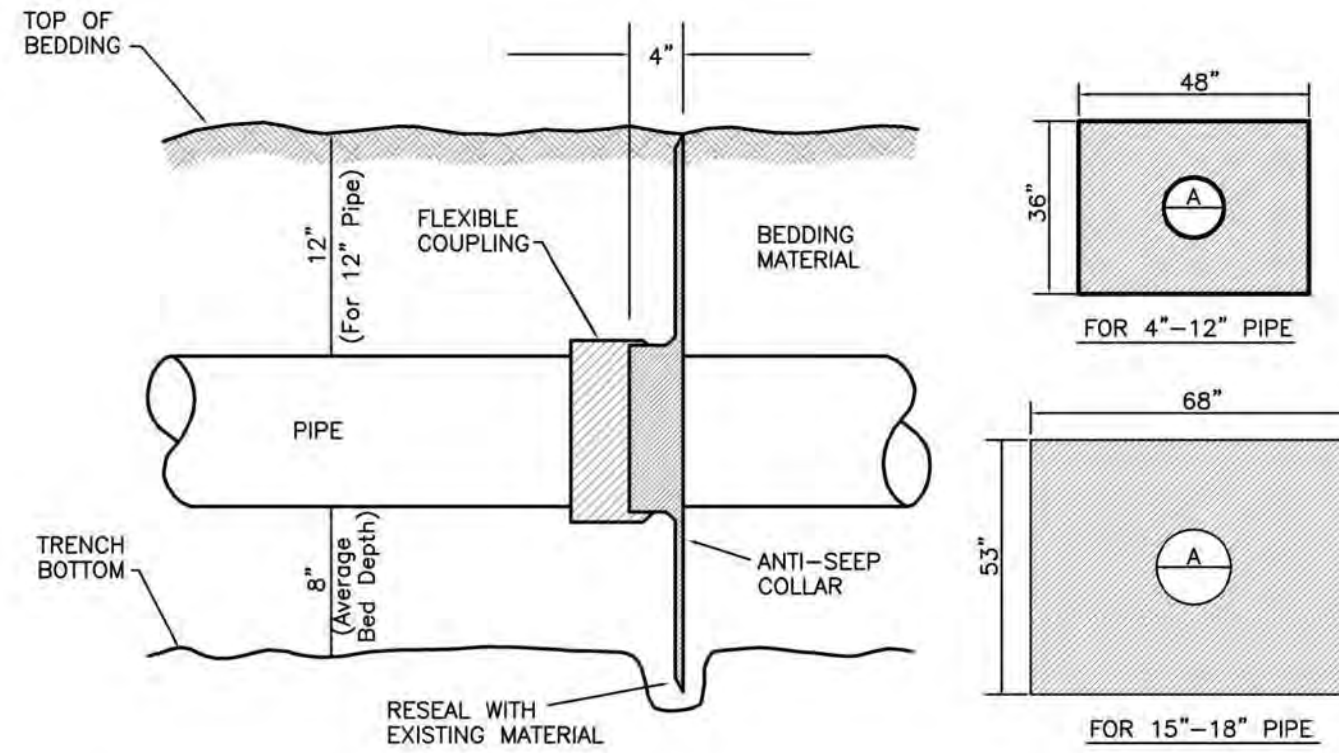
- NOTES:
- PERFORATED PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE DUAL WALL SMOOTH INTERIOR MEETING AASHTO M294, TYPE S, AND ASTM F2306 REQUIREMENTS AND MEETING AASHTO CLASS II PERFORATION REQUIREMENTS. ADVANCED DRAINAGE SYSTEMS (ADS) N-12-ST IB OR EQUAL.

5 AGGREGATE UNDERDRAIN
SCALE: NTS



- NOTES:
- PERFORATED PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE DUAL WALL SMOOTH INTERIOR MEETING AASHTO M294, TYPE S, AND ASTM F2306 REQUIREMENTS AND MEETING AASHTO CLASS II PERFORATION REQUIREMENTS. ADVANCED DRAINAGE SYSTEMS (ADS) N-12-ST IB OR EQUAL.

6 TRENCH/FRENCH DRAIN
SCALE: NTS



- NOTES:
- ANTI SEEP COLLARS SHALL BE PLACED IN THE BERM IMMEDIATELY DOWNSTREAM OF ALL THE OUTLET PIPE FROM OUTLET CONTROL STRUCTURES (OCS) IN ALL STORMWATER PONDS.
 - INSTALL ACCORDING THE MANUFACTURERS WRITTEN RECOMMENDATIONS AND PROCEDURES.

3 ANTI-SEEP COLLAR (BY EJ PRESCOTT)
SCALE: NTS

PIPE SIZE	DIMENSION "A"
4"	9.50"
6"	9.50"
8"	9.50"
10"	13.50"
12"	13.50"
15"	17.65"
16"	17.65"
18"	21.50"

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PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP 
SCALE:	AS NOTED	
DESN. BY:	DVB	
DRAWN BY:	MR/AGL	
CHKD BY:	DVB	
ISSUE DATE:	07/16/25	

REVISIONS

SHEET TITLE:

STORMWATER DETAILS

C2.5

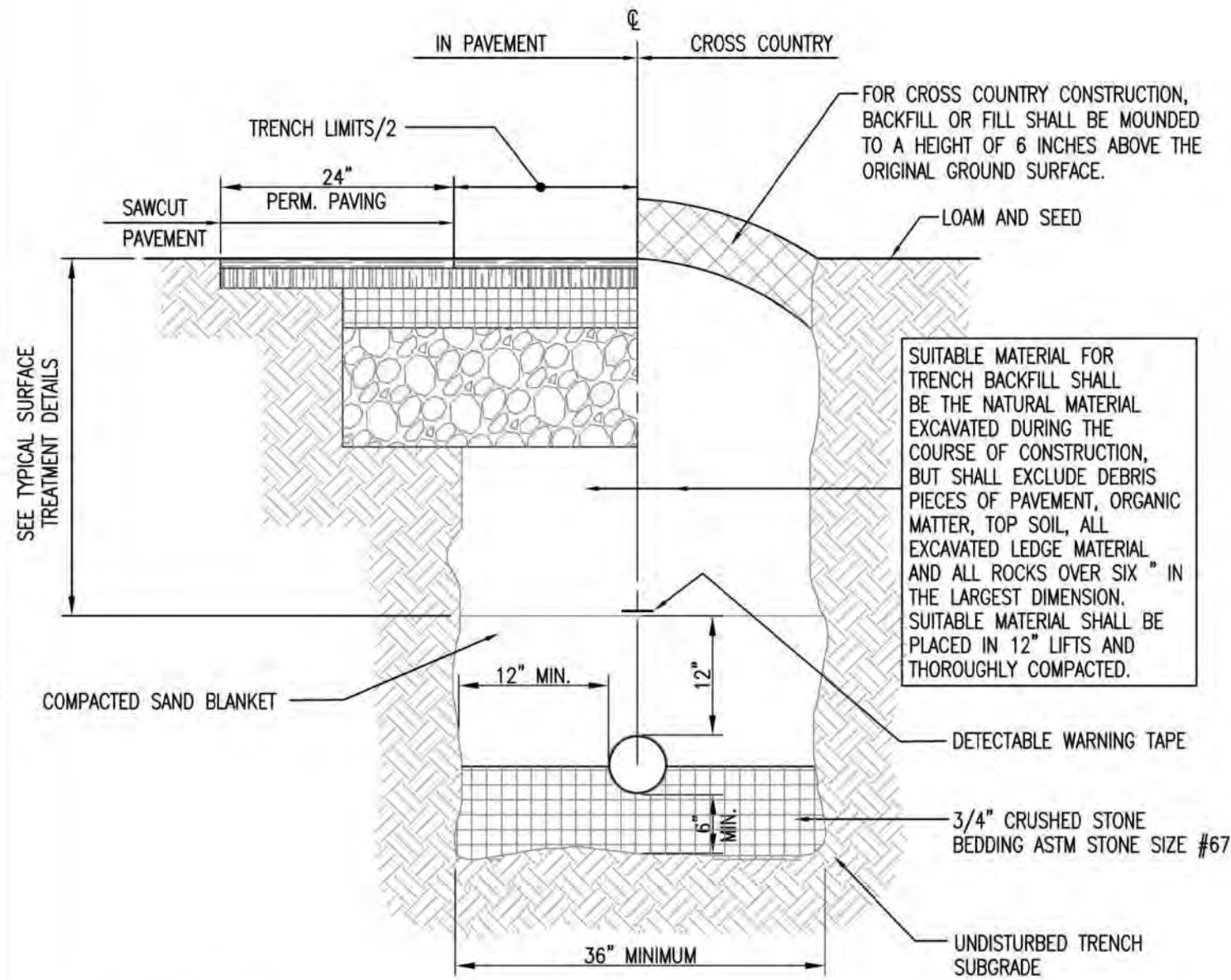
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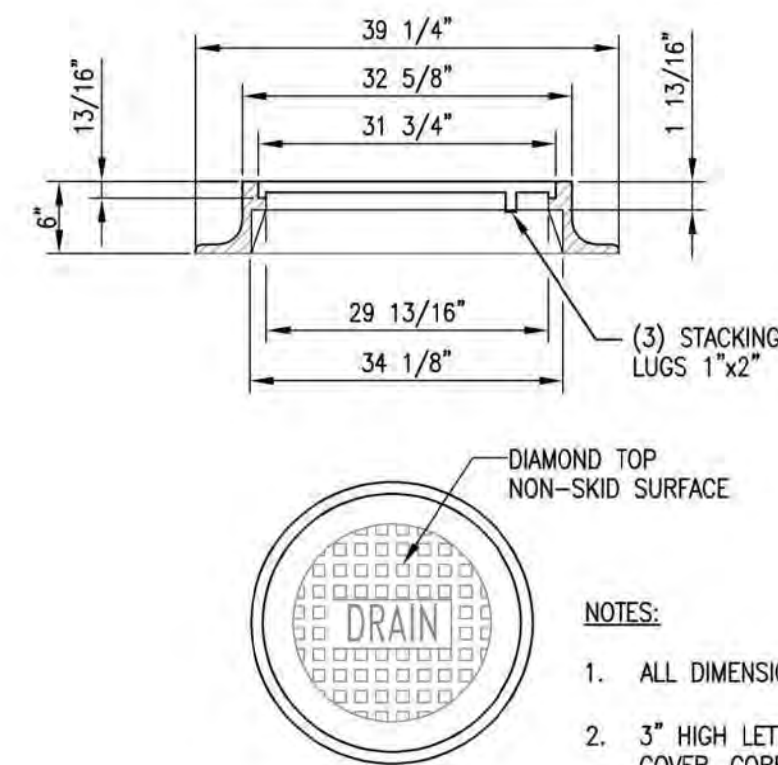
GENERAL NOTES:

1. ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL. SEE ALSO NOTE 7.

BEDDING:

SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.

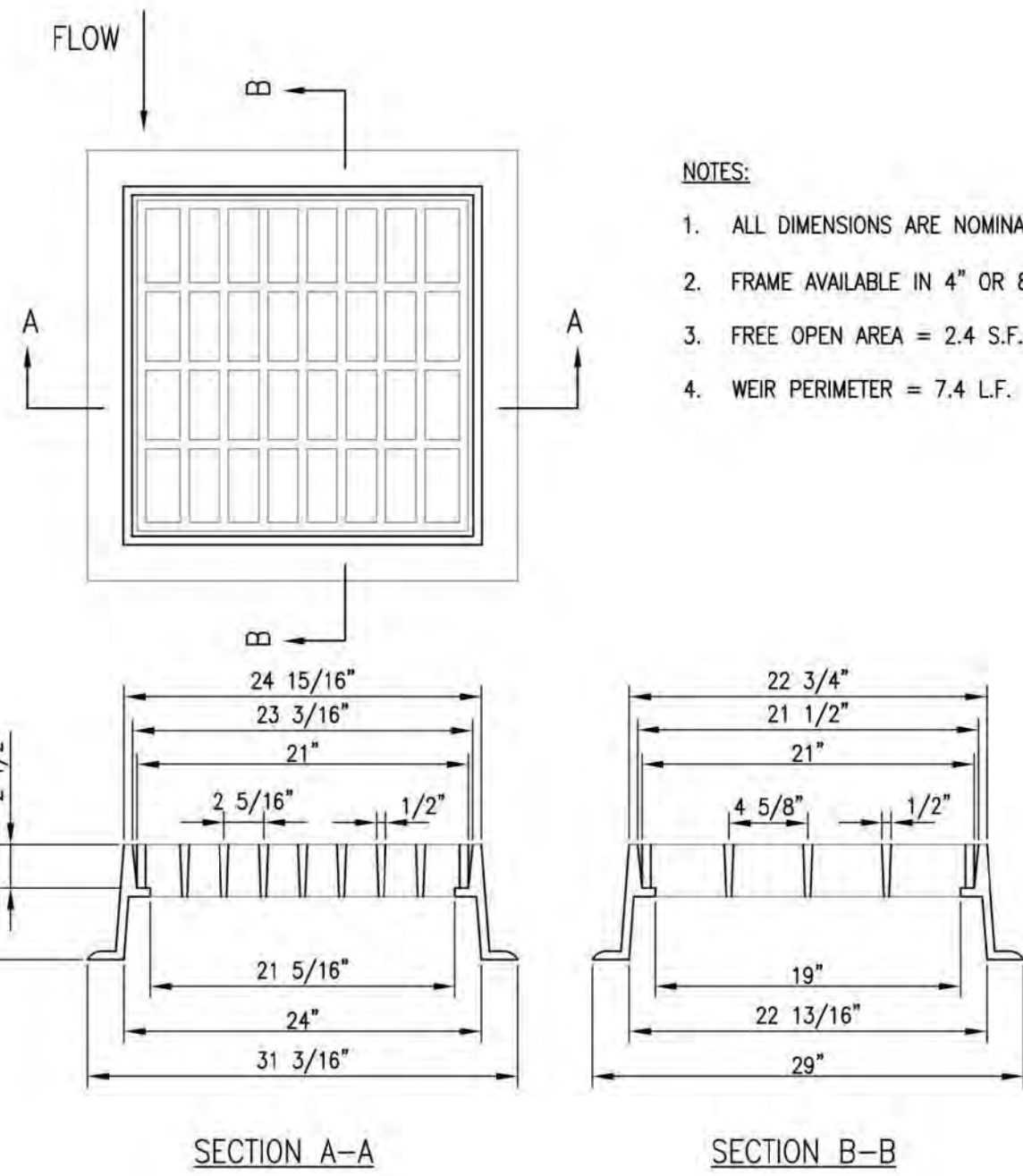
- | | |
|-----------------|-----------------|
| 100% PASSING | 1 INCH SCREEN |
| 90-100% PASSING | 3/4 INCH SCREEN |
| 20-55% PASSING | 3/8 INCH SCREEN |
| 0-10% PASSING | # 4 SIEVE |
| 0-5% PASSING | # 8 SIEVE |
2. WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2-INCH TO 1-1/2-INCH SHALL BE USED.
 3. **SAND BLANKET:**
CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 90-100% PASSES A 1/2-INCH SIEVE AND NOT MORE THAN 15% WILL PASS A # 200 SIEVE. A BLANKET MAY BE OMITTED FOR CAST-IRON, DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED HOWEVER, THAT NO STONE LARGER THAN 2-INCHES IS IN CONTACT WITH THE PIPE.
 4. **SUITABLE MATERIAL:**
IN ROADS, ROAD SHOULDERS, WALK-WAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER 6-INCHES IN LARGEST DIMENSION, OR ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WHEN NECESSARY WILL BE PRESERVED.
 5. BASE COURSE, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS.
 6. WOOD SHEETING, IF REQUIRED, WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3- FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1-FOOT ABOVE THE TOP OF THE PIPE.
 7. W = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12-INCHES ABOVE THE PIPE. FOR PIPES 15-INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES; FOR PIPES GREATER THAN 15-INCHES NOMINAL DIAMETER, W SHALL BE 24-INCHES PLUS PIPE O.D. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
 8. FOR CROSS COUNTRY CONSTRUCTION, BACKFILL OR FILL SHALL BE MOUND TO A HEIGHT OF 6-INCHES ABOVE THE ORIGINAL GROUND SURFACE.



NOTES:

1. ALL DIMENSIONS ARE NOMINAL.
2. 3" HIGH LETTER (D,S,T,W) IN THE CENTER OF THE COVER, CORRESPONDING TO THE APPROPRIATE UTILITY.

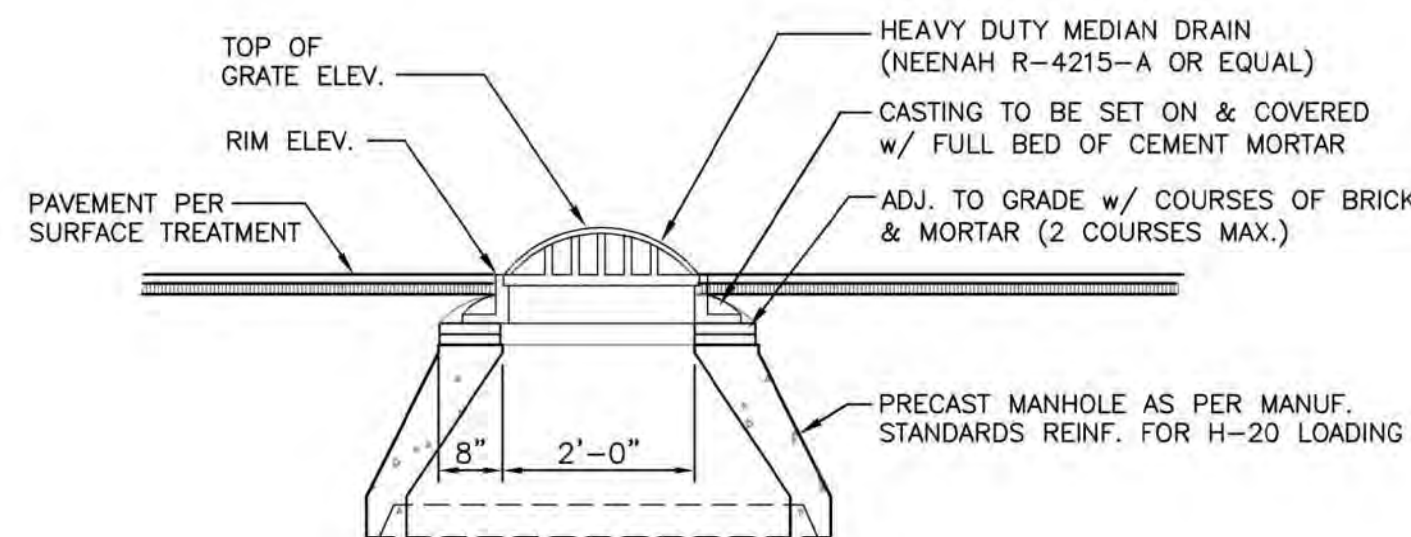
2 DRAIN MANHOLE FRAME & COVER
SCALE: N.T.S.



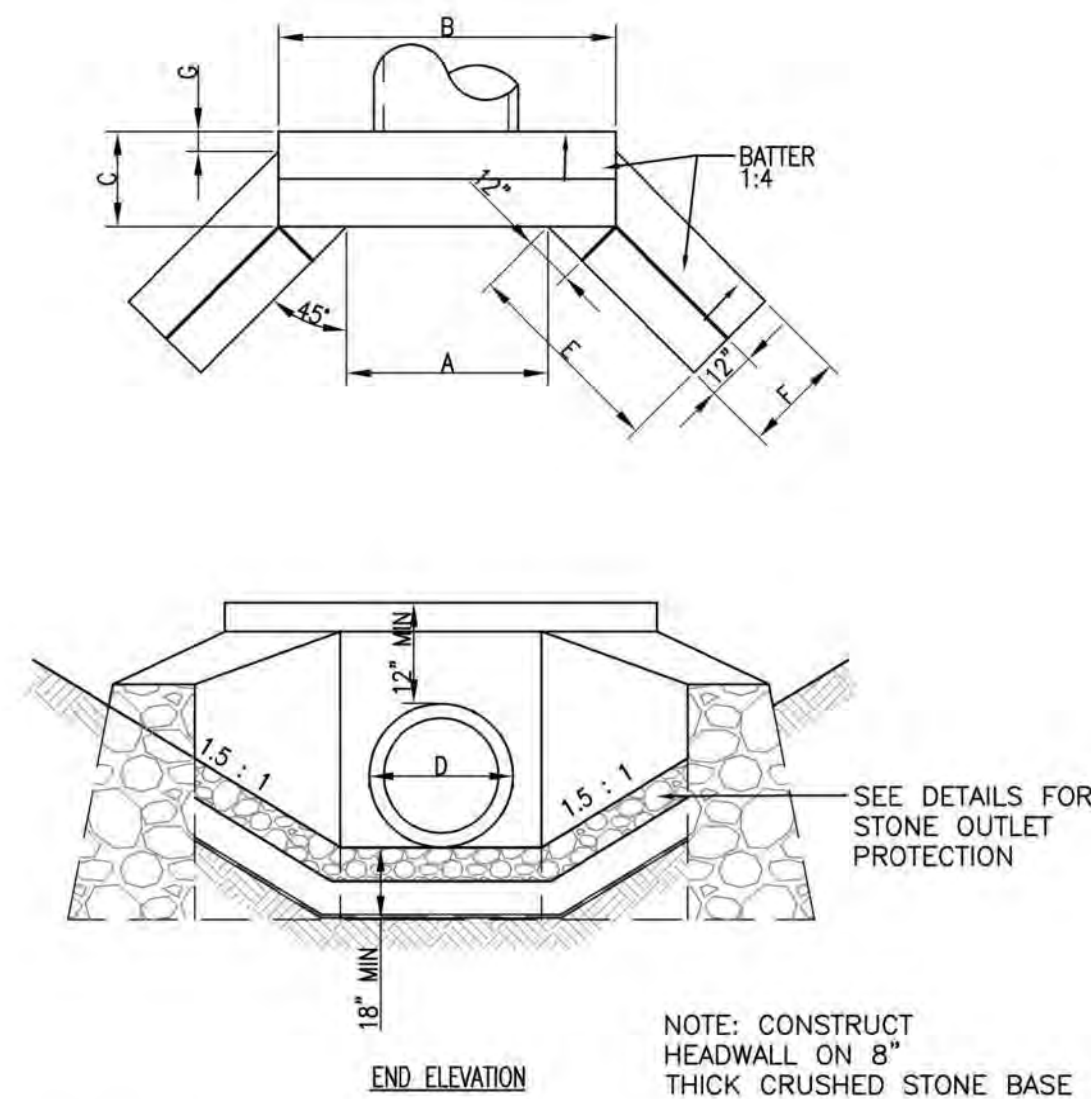
NOTES:

1. ALL DIMENSIONS ARE NOMINAL.
2. FRAME AVAILABLE IN 4" OR 8" HEIGHTS.
3. FREE OPEN AREA = 2.4 S.F.
4. WEIR PERIMETER = 7.4 L.F.

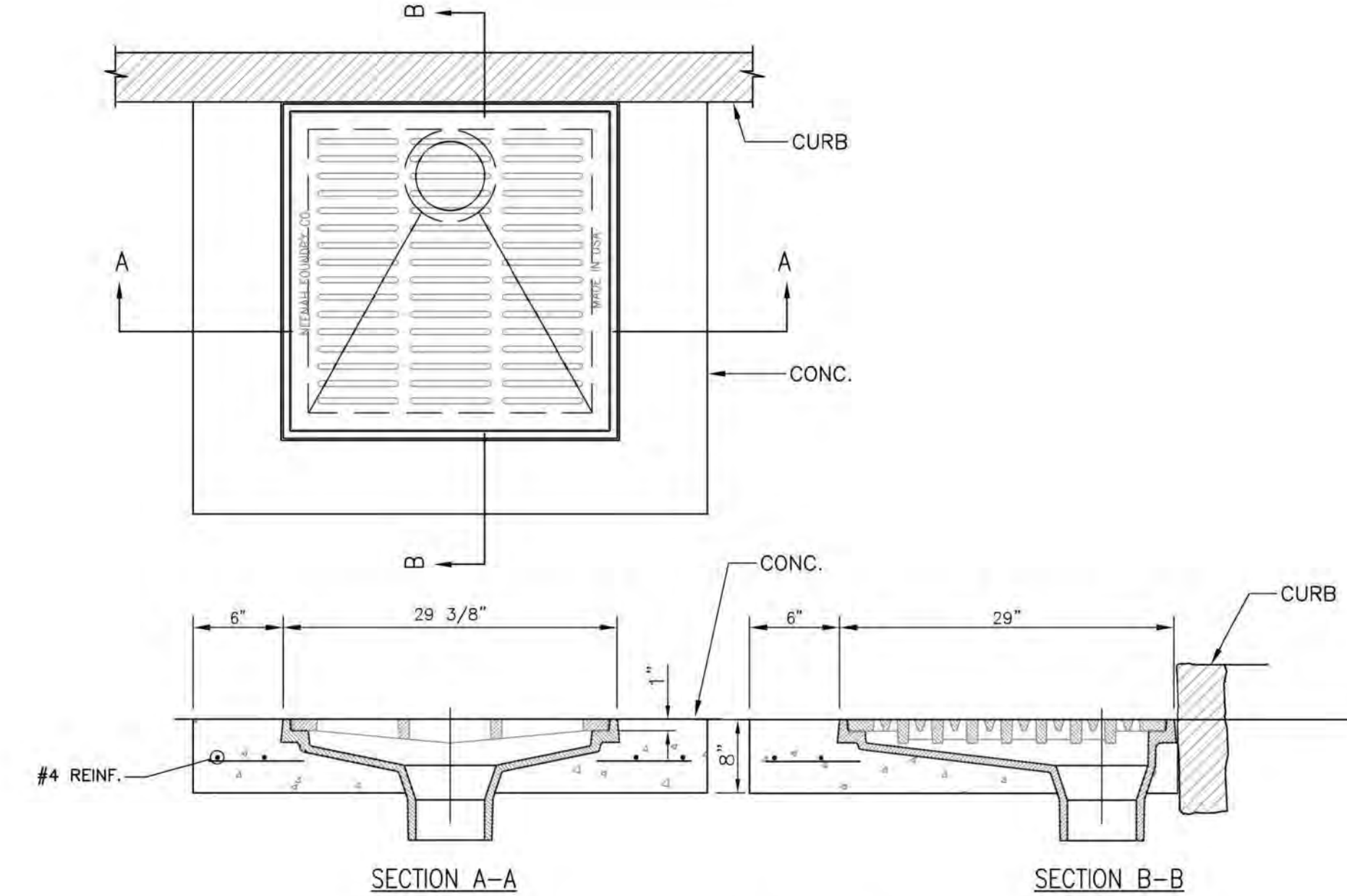
4 CATCH BASIN FRAME & GRATE ~ TYPE 'B' (NEENAH R-3570)
SCALE: N.T.S.



6 CATCH BASIN FRAME & GRATE ~ DITCH GRATE (NEENAH R-4215)
SCALE: N.T.S.



3 HEADWALL WITH 45° WINGS (PORTLAND CEMENT CONCRETE)
SCALE: N.T.S.



5 SCUPPER & TYPE 'Q' GRATE ~ (NEENAH R-3956)
SCALE: N.T.S.

2:1 SLOPE										
D INCHES	AREA SQ. FT.	A	B	C	E	F	G	H	J	K
24	3.14	2'-3"	5'-1"	2'-2"	2'-10"	1'-11"	0'-7"	4'-6"	4'-2"	3'-9"
30	4.91	2'-3"	5'-7"	2'-3"	3'-7"	2'-0"	0'-6"	5'-0"	4'-8"	4'-1"
36	7.07	3'-3"	6'-1"	2'-5"	4'-3"	2'-1"	0'-6"	5'-6"	5'-2"	4'-1"
42	9.62	4'-3"	6'-7"	2'-6"	4'-2"	2'-1"	0'-5"	6'-0"	6'-0"	4'-6"
48	12.57	4'-4"	7'-2"	2'-8"	4'-9"	2'-2"	0'-4"	6'-6"	7'-2"	4'-9"
60	19.63	6'-5"	9'-3"	3'-2"	7'-1"	2'-5"	0'-1"	8'-6"	8'-2"	6'-9"
72	28.27	8'-5"	11'-3"	4'-2"	9'-4"	2'-8"	0'-1"	10'-6"	10'-2"	9'-9"

3:1 SLOPE										
D INCHES	AREA SQ. FT.	A	B	C	E	F	G	H	J	K
24	3.14	2'-3"	5'-1"	2'-2"	2'-10"	1'-11"	0'-7"	4'-6"	4'-2"	3'-9"
30	4.91	2'-3"	5'-7"	2'-3"	3'-7"	2'-0"	0'-6"	5'-0"	4'-8"	4'-1"
36	7.07	3'-3"	6'-1"	2'-5"	4'-3"	2'-1"	0'-6"	5'-6"	5'-2"	4'-1"
42	9.62	4'-3"	6'-7"	2'-6"	4'-2"	2'-1"	0'-5"	6'-0"	6'-0"	4'-6"
48	12.57	4'-4"	7'-2"	2'-8"	4'-9"	2'-2"	0'-4"	6'-6"	7'-2"	4'-9"
60	19.63	6'-5"	9'-3"	3'-2"	7'-1"	2'-5"	0'-1"	8'-6"	8'-2"	6'-9"
72	28.27	8'-5"	11'-3"	4'-2"	9'-4"	2'-8"	0'-1"	10'-6"	10'-2"	9'-9"

4:1 SLOPE										
D INCHES	AREA SQ. FT.	A	B	C	E	F	G	H	J	K
24	3.14	2'-3"	5'-1"	2'-2"	2'-10"	1'-11"	0'-7"	4'-6"	4'-2"	3'-9"
30	4.91	2'-3"	5'-7"	2'-3"	3'-7"	2'-0"	0'-6"	5'-0"	4'-8"	4'-1"
36	7.07	3'-3"	6'-1"	2'-5"	4'-3"	2'-1"	0'-6"	5'-6"	5'-2"	4'-1"
42	9.62	4'-3"	6'-7"	2'-6"	4'-2"	2'-1"	0'-5"	6'-0"	6'-0"	4'-6"
48	12.57	4'-4"	7'-2"	2'-8"	4'-9"	2'-2"	0'-4"	6'-6"	7'-2"	4'-9"
60	19.63	6'-5"	9'-3"	3'-2"	7'-1"	2'-5"	0'-1"	8'-6"	8'-2"	6'-9"
72	28.27	8'-5"	11'-3"	4'-2"	9'-4"	2'-8"	0'-1"	10'-6"	10'-2"	9'-9"

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t:603.228.1122
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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP	STATE OF NEW HAMPSHIRE DOUGLAS BRODEUR No. 12986 LICENSED PROFESSIONAL ENGINEER
SCALE:	AS NOTED		
DES. BY:	DVB		
DRAWN BY:	MR/AGL		
CHKD BY:	DVB		
ISSUE DATE:	07/16/25		

REVISIONS

SHEET TITLE:

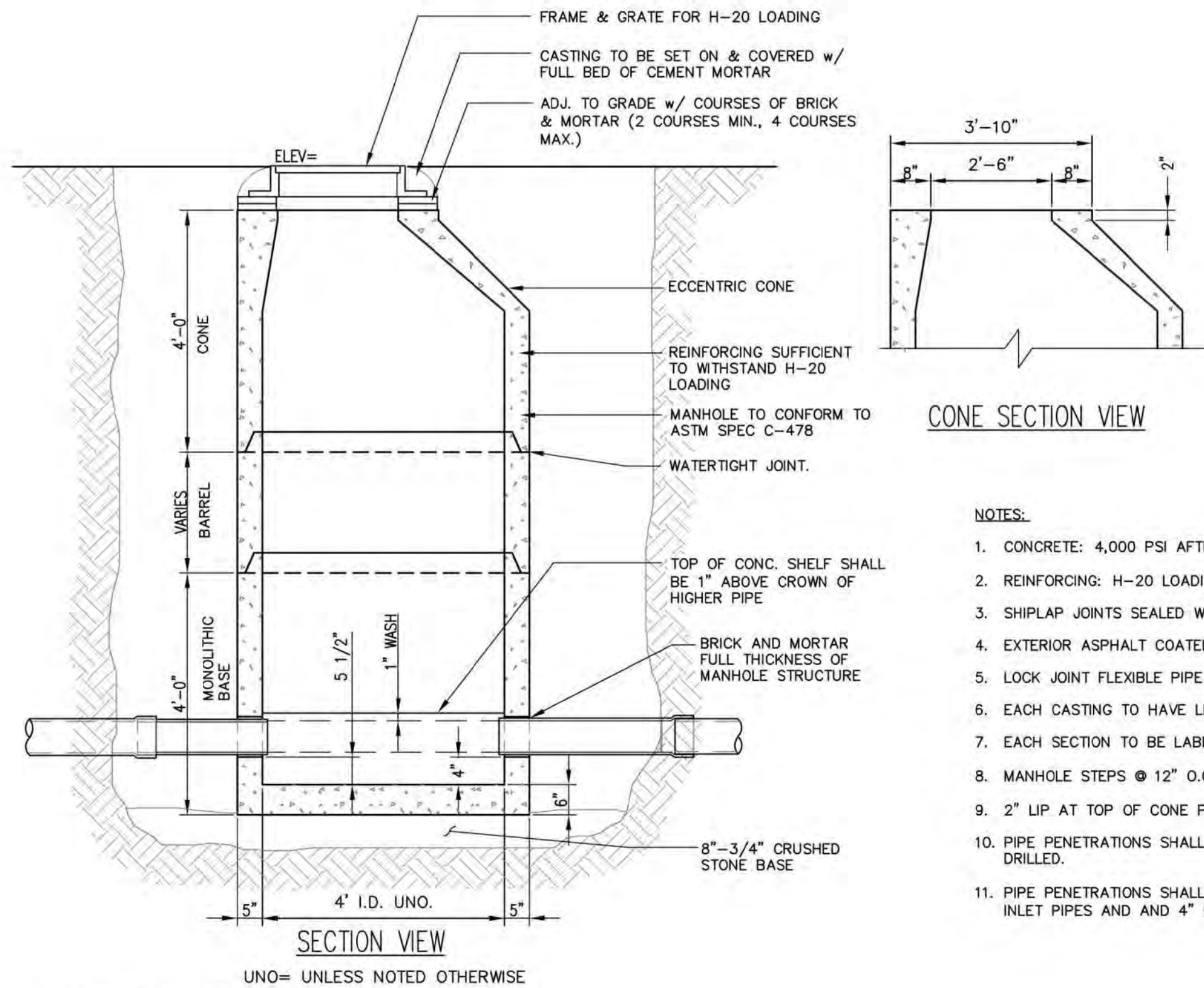
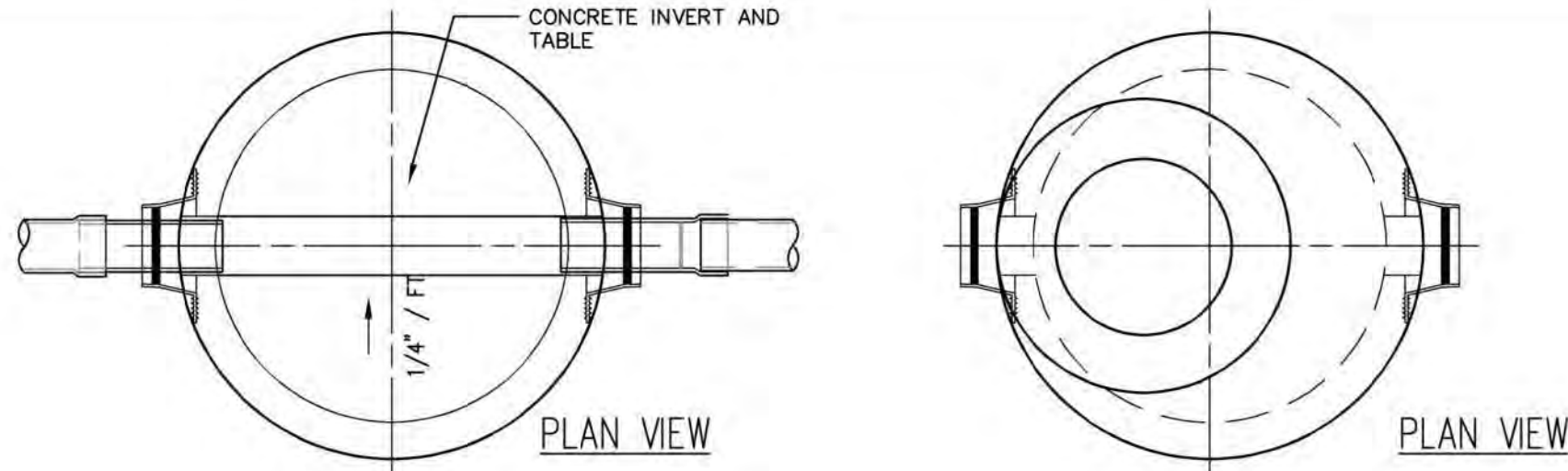
STORMWATER DETAILS

C2.6

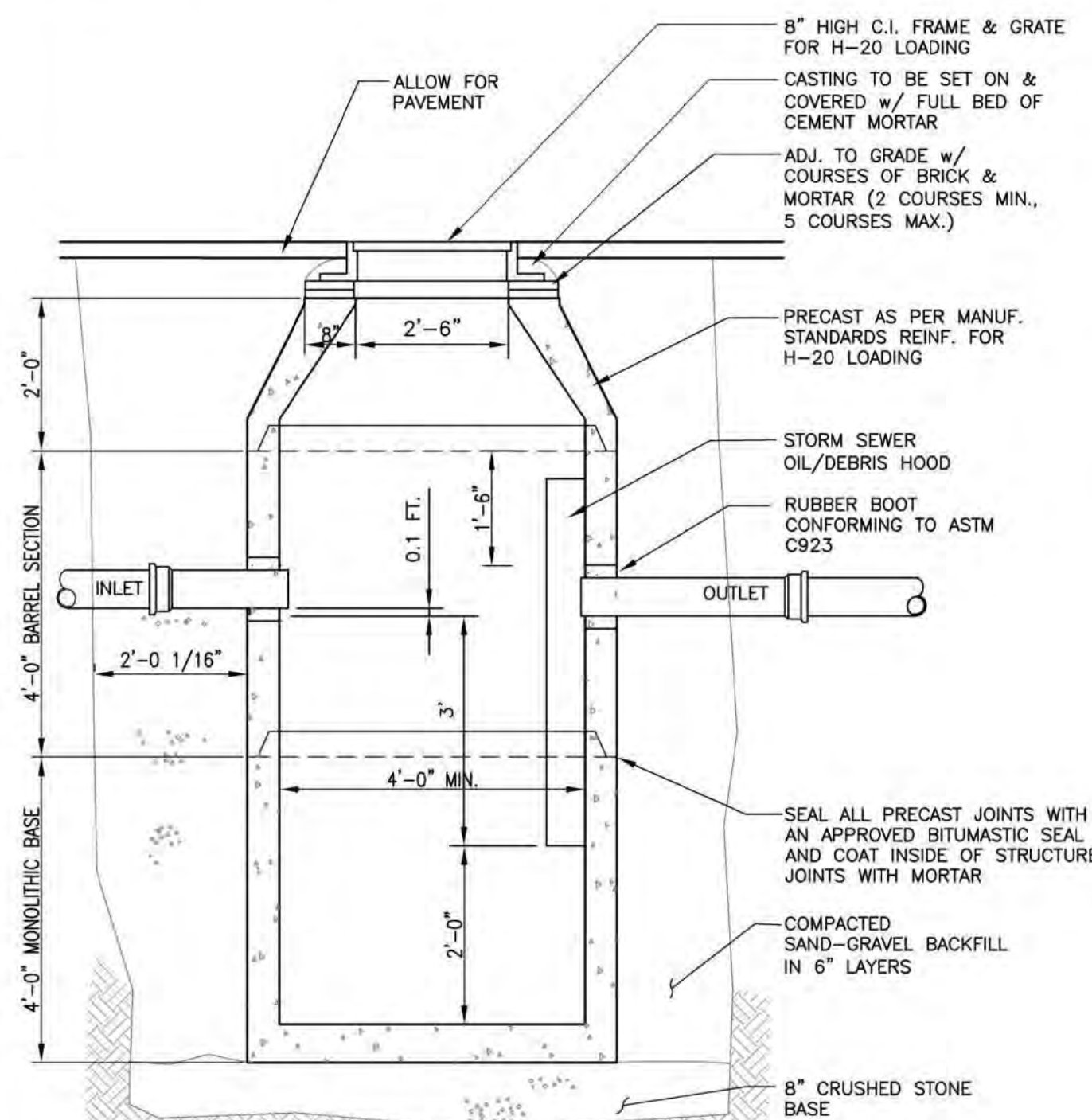
P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility Drawings\01_Civil\5387 Details.dwg 2

4

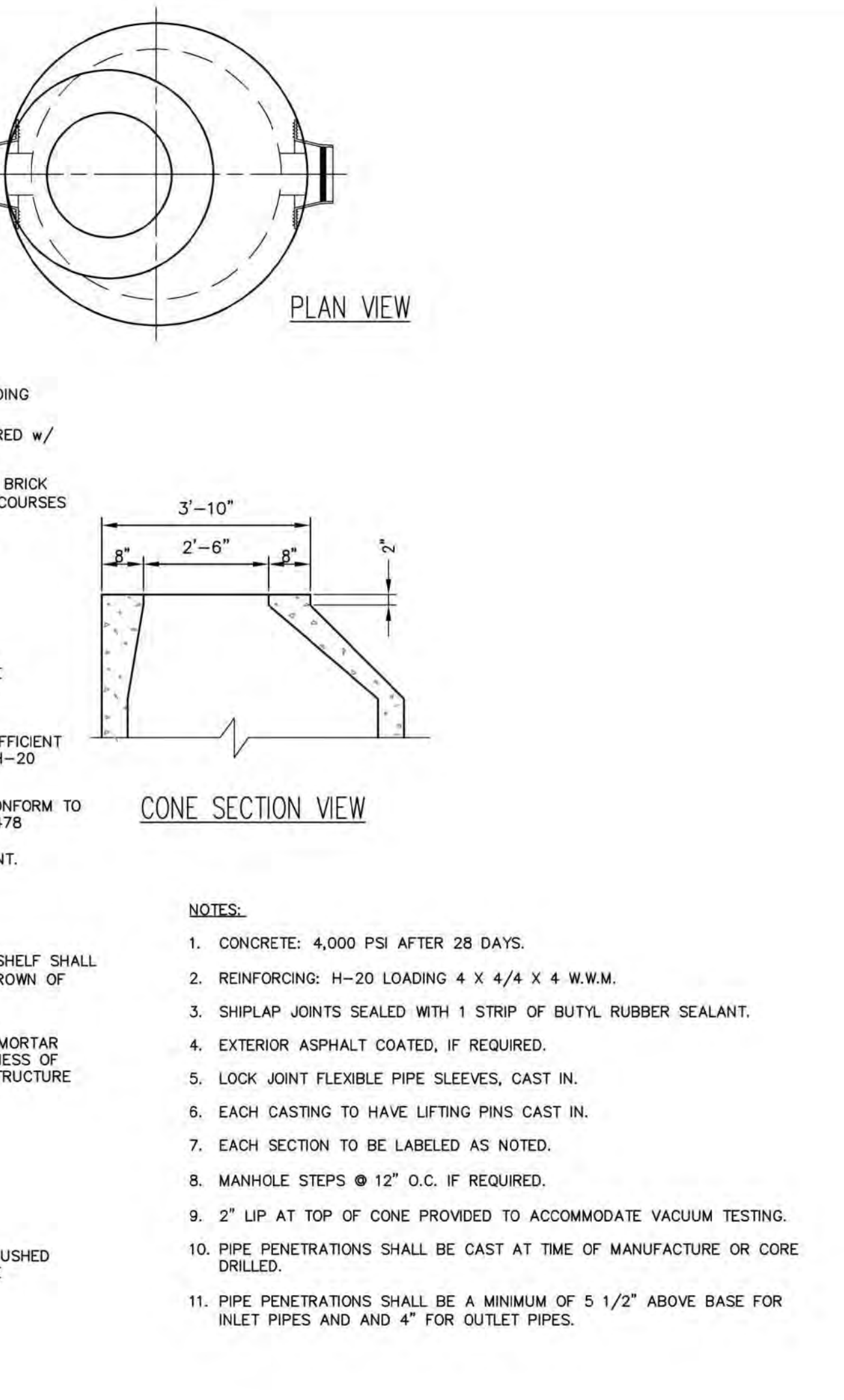
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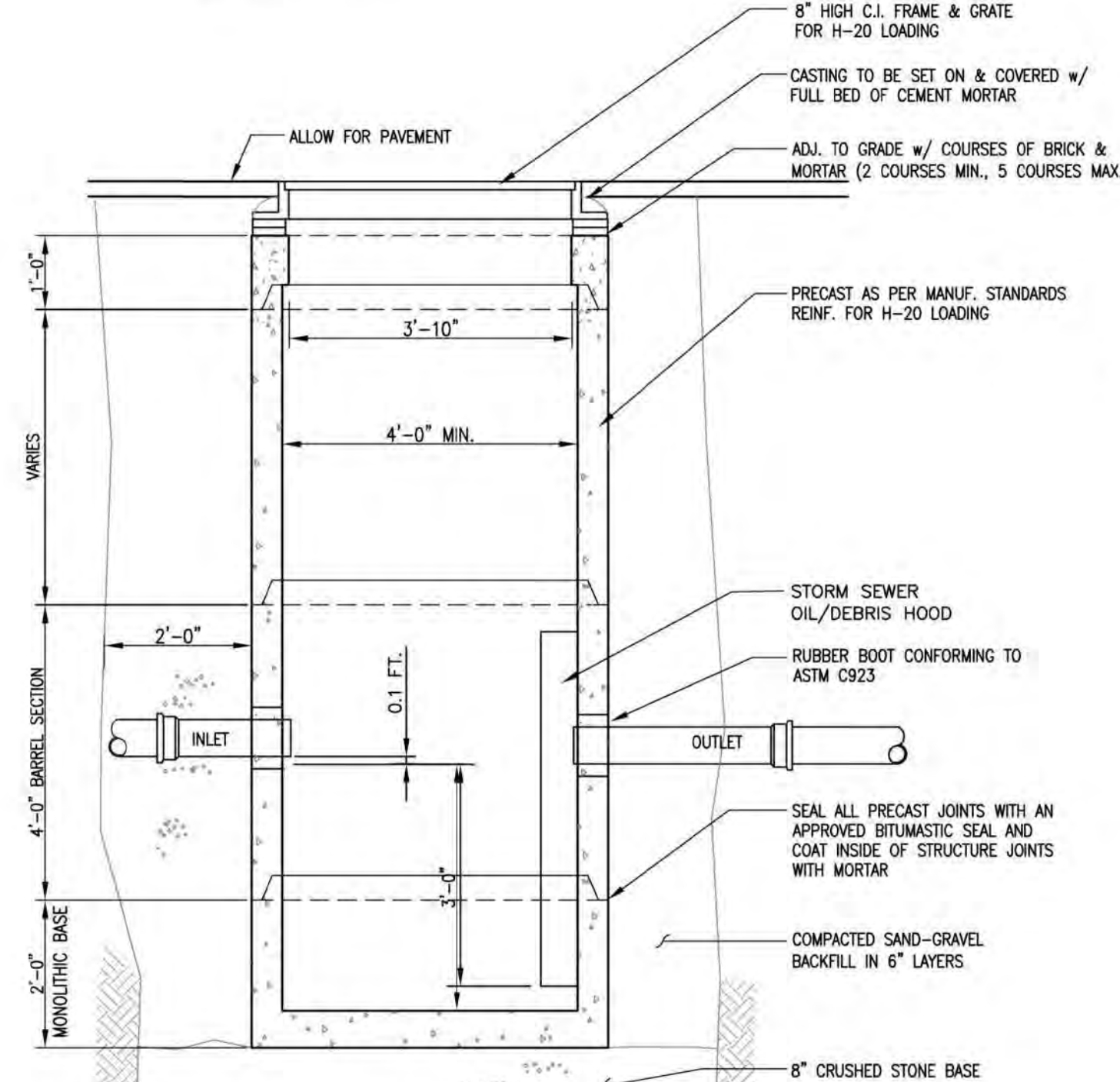
1 STORM DRAIN MANHOLE DETAIL
SCALE: N.T.S.



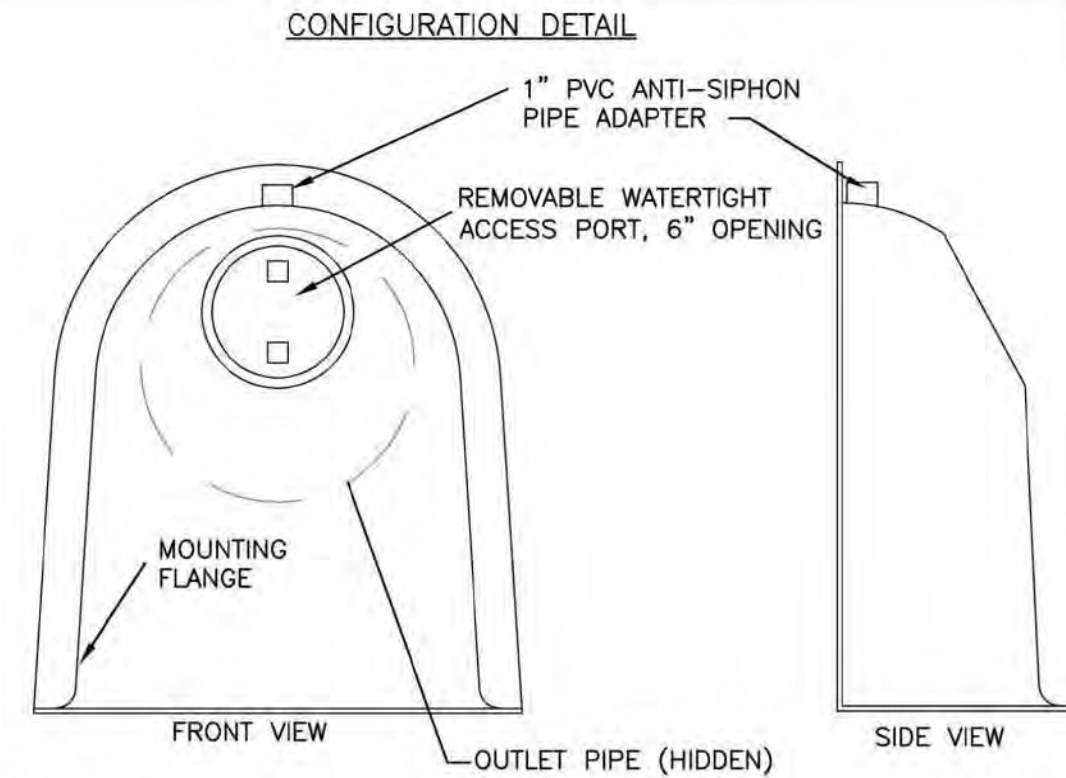
3 CATCH BASIN- SYMMETRICAL CONE
SCALE: N.T.S.



4 CATCH BASIN- ECCENTRIC CONE
SCALE: N.T.S.

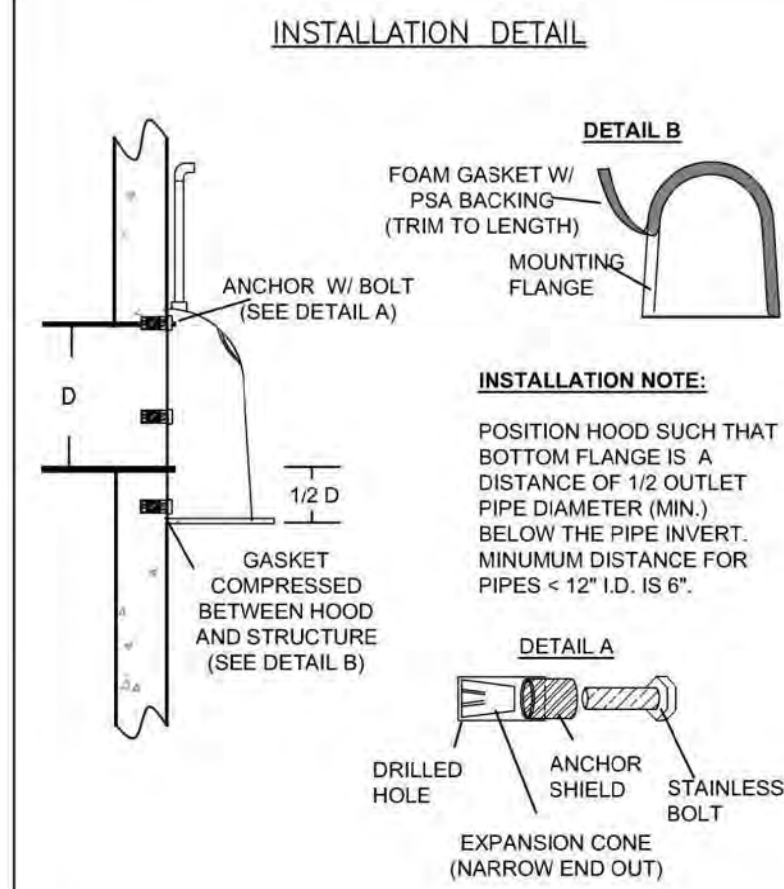
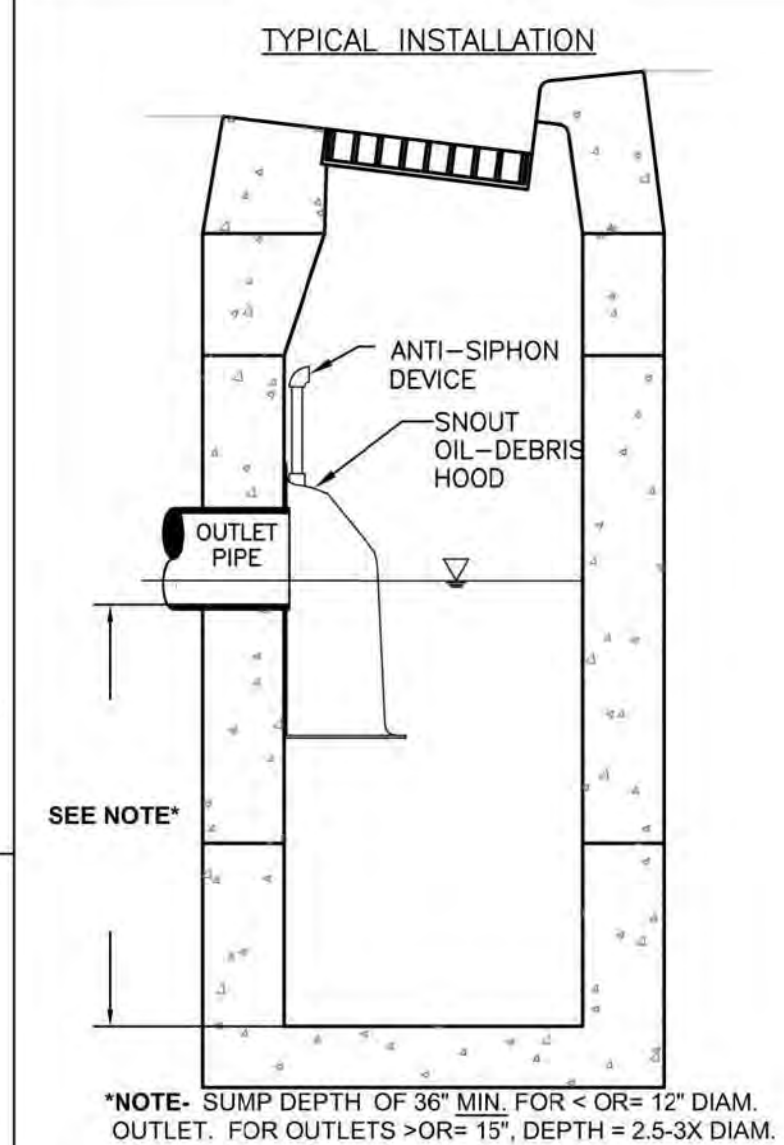


5 TYPICAL CATCH BASIN W/ DOUBLE GRATE (SLAB TOP)
SCALE: N.T.S.



- SNOUT OIL-WATER-DEBRIS SEPARATOR
- NOTES:
- ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY:
BEST MANAGEMENT PRODUCTS, INC.
53 MT. ARCHER RD.
LYME, CT 06371
(860) 434-0277, (860) 434-3195 FAX
TOLL FREE: (800) 504-8008 OR (888) 354-7585
WEB SITE: www.bmpinc.com
OR PRE-APPROVED EQUAL
 - ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
 - ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
 - THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
 - THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
 - THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
 - THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
 - THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
 - INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.
INSTALLATION KIT SHALL INCLUDE:
A. INSTALLATION INSTRUCTIONS
B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
D. 3/8" STAINLESS STEEL BOLTS
E. ANCHOR SHIELDS

2 STORM SEWER OIL/DEBRIS HOOD
SCALE: N.T.S.



6 TYPICAL DROP INLET
SCALE: N.T.S.

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Concord, New Hampshire 03301
t:603.228.1122
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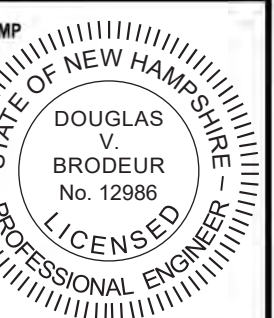
PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.: 5387
SCALE: AS NOTED
DES. BY: DVB
DRAWN BY: MR/AGL
CHKD BY: DVB
ISSUE DATE: 07/16/25



REVISIONS

SHEET TITLE:

STORMWATER DETAILS

C2.7

P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility Drawings\01_Civil\5387 Details.dwg 2 1

NOTES:

- ITEM NO.'S REFER TO THE CURRENT EDITION OF THE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- HORIZONTAL AND VERTICAL DIMENSIONS, ORIGINAL GROUND AND FINISHED GRADE ELEVATIONS, SLOPES, WIDTHS, ETC. SHALL BE PER THE SITE PLANS.
- CONTRACTOR SHALL CONDUCT A PRECONSTRUCTION CONFERENCE WITH DESIGN ENGINEER PRIOR TO CONSTRUCTION OF STORMWATER BASINS, TO DISCUSS THE PARTICULAR NATURE AND REQUIREMENTS OF THE BIORETENTION BASINS, TESTING AND SUBMITTAL REQUIREMENTS, AND SCHEDULE AND GENERAL CONSTRUCTION SEQUENCE.
- ALL DISTURBED AREAS OTHER THAN THE BASIN FLOOR SHALL BE STABILIZED WITH WILDFLOWER ESTABLISHMENT WITH 4" DEEP COMPOST MEDIUM AND STRAW MULCH w/o HERBICIDE (644.91104)
- BIORETENTION BASINS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE UNIVERSITY OF NEW HAMPSHIRE (UNH) STORMWATER CENTER PUBLICATION, DATED FEBRUARY 2017, FOUND AT: https://www.unh.edu/unhsc/sites/default/files/media/unhsc_bsm_spec_9-2021.pdf AND AS FOLLOWS:
 - DO NOT PLACE BIORETENTION FILTER MEDIA (BFM), PRIOR TO DESIGN ENGINEER INSPECTION AND APPROVAL SUBGRADE AND BFM MIX DESIGN SUBMITTALS;
 - DO NOT PLACE IMPERMEABLE MEMBRANE, PRIOR TO DESIGN ENGINEER APPROVAL OF LINER SUBMITTALS;
 - DO NOT BACKFILL IMPERMEABLE MEMBRANE, PRIOR TO DESIGN ENGINEER INSPECTION AND APPROVAL OF FINAL INSTALLATION, WHICH WILL REQUIRE A PARTIAL FILLING OF THE BASIN TO AT OR ABOVE THE ISR TO ENSURE WATER TIGHTNESS;
 - DO NOT DIRECT WATERS TO BASIN PRIOR TO DESIGN ENGINEER INSPECTION AND APPROVAL OF FINAL CONSTRUCTION.
- BIORETENTION FILTER MEDIA (BFM) SHALL MEET THE FOLLOWING REQUIREMENTS:
 - FREE OF STICKS, ROOTS, AND OTHER LARGE ORGANIC CONTENT PARTICLES LARGER THAN ONE EIGHTH OF AN INCH (1/8" ~ 0.125");
 - FREE OF NON COMPLIANT DEBRIS, FOREIGN MATTER, DELETERIOUS SUBSTANCES, OR UNSUITABLE MATERIALS, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION DEMO, CONCRETE, PLASTER, GARBAGE WASTE, SOLVENTS, STONES, SOD, PLANT OR ORGANIC CLUMPS, CLAY LUMPS, ETC. COARSE MATERIALS EXCEEDING 5% BY DRY WEIGHT OF THE TOTAL BFM ETC.;
 - SOIL REACTION PH OF 6-7.5;
 - CATION ION EXCHANGE CAPACITY (CEC) MINIMUM OF 10 meq PER 100 ml AT 7.0 PH;
 - MEET THE FOLLOWING COMPONENT MIXTURE RATES:

COMPONENT	PERCENT BY TOTAL VOLUME
SAND (<#4>#200)	60 - 85
LOAM/TOPSOIL	15-25
ORGANIC MATTER*	3-8
IRON FILINGS*	0-5
 - MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
#4	100
#10	95
#40	15 - 40
#200	10 - 20
<#200	0 - 5

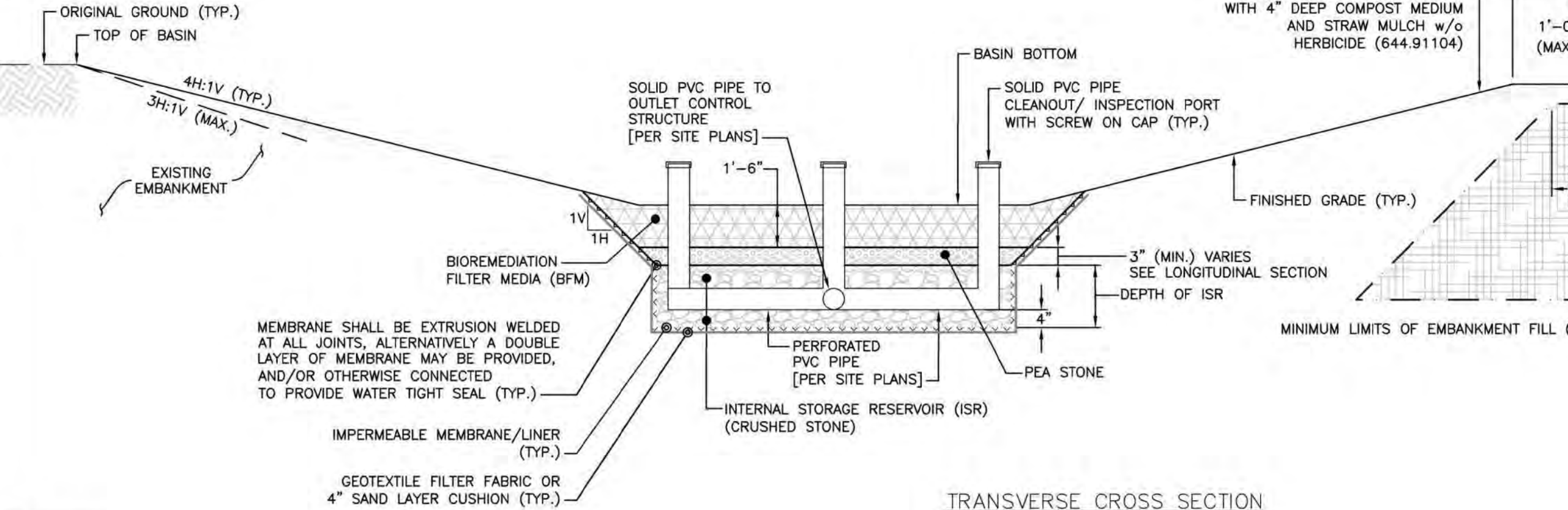
NOTES (CONTINUED):

- *ORGANIC MATTER PORTION SHALL MEET THE FOLLOWING REQUIREMENTS:
[1] BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS; AND
[2] NOT COMPRISED OF WOOD CHIPS, BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS;
[3] FREE OF SILTS, CLAYS, OR FINE SANDS;
** IRON FILING PORTION SHALL CONSIST OF ZERO-VALENT-IRON, ALTERNATIVELY DRINKING WATER TREATMENT RESIDUALS (ALUM) MAY BE SUBSTITUTED.
- INTERNAL STORAGE RESERVOIR (ISR) COURSE SHALL MEET THE REQUIREMENTS OF ITEM NO 304.4 (CRUSHED STONE [FINE]), ALTERNATIVELY AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) NO 5 STONE (3/4" CRUSHED STONE) MAY BE SUBSTITUTED.
 - PEA GRAVEL SHALL MEET THE REQUIREMENTS OF AASHTO NO 8 AGGREGATE (3/8"-1/4" STONE).
 - SAND (SAND CUSHION ONLY) SHALL MEET THE REQUIREMENTS OF ITEM NO 304.1 (SAND) w/ THE FURTHER REQUIREMENT OF 98% PASSING THE 1/2" SIEVE.
 - GEOTEXTILE FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ITEM NO 593.211 (GEOTEXTILE; SEPARATION CL.1, NON-WOVEN).
 - IMPERMEABLE MEMBRANE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - IMPERMEABLE DURABLE, ALL WEATHER, SUBSURFACE GRADE LINER CAPABLE OF HOLDING A MINIMUM STATIC PRESSURE OF FIVE FEET (5') OF HEAD;
 - MINIMUM LIFE EXPECTANCY RATING OF 50 YEARS;
 - MATERIAL TYPICALLY USED FOR MUNICIPAL LANDFILLS, SEWAGE LAGOONS, OR WATER IMPOUNDMENT PONDS, SUCH AS HIGH DENSITY POLYETHYLENE (HDPE), LINEAR LOW DENSITY POLYETHYLENE (LLDPE), POLYVINYL CHLORIDE (PVC), VINYL, ETHYLENE PROPYLENE DIENE MONOMER RUBBER (EPDM), ETC.
 - 20 MIL MINIMUM THICKNESS.
 - EMBANKMENT FILL SHALL BE PLACED IN ALL BERMS AND/OR AREAS IN WHICH AN OBSTRUCTION IS CREATED ABOVE ORIGINAL GROUND TO IMPOUND WATER AND AS FOLLOWS:
 - BE A HIGH SILT CONTENT GLACIAL TILL MEETING THE FOLLOWING GRADATION:

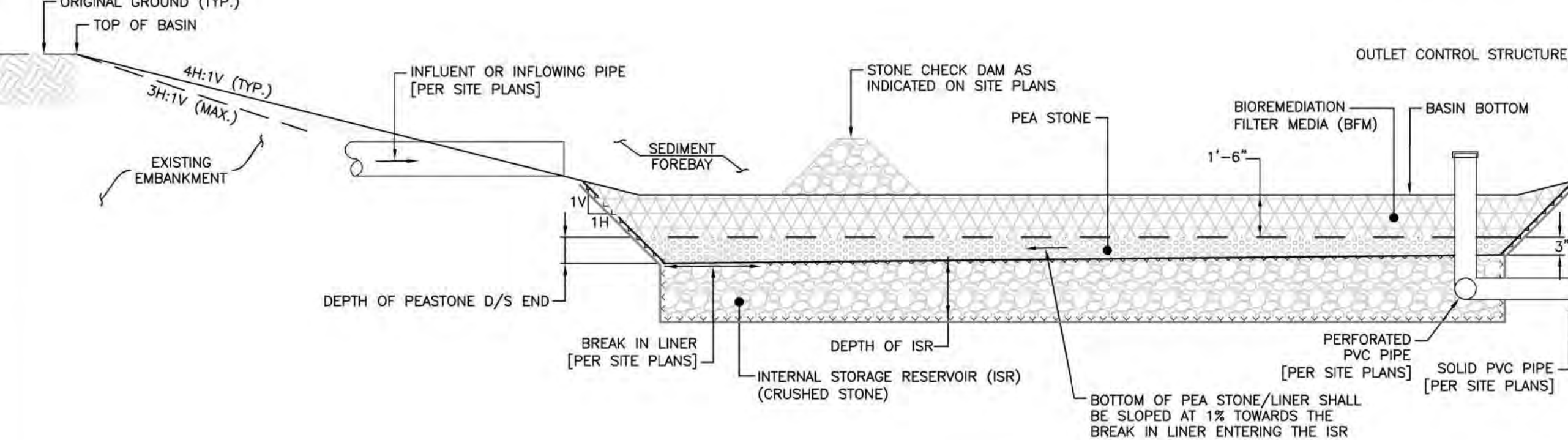
SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
3/4"	75 - 100
#4	65 - 90
#40	40 - 70
#100	25 - 60
#200	15 - 50
 - ALTERNATE MATERIALS MAY BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL.
 - A LETTER SIGNED BY A QUALIFIED ENGINEER MUST BE PROVIDED TO DES STATING THAT THE INDIVIDUAL OBSERVED ANY UNDERGROUND DETENTION, INFILTRATION, OR FILTERING SYSTEMS PRIOR TO BACKFILLING, AND WHETHER, IN HIS OR HER PROFESSIONAL OPINION, THE SYSTEM(S) CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.

BIORETENTION STORMWATER BASIN	TOP OF BASIN ELEV.	BOTTOM OF BASIN ELEV. TOP OF BFM ELEV.	DEPTH OF BFM (IN)	BOTTOM OF BFM ELEV. TOP OF U/S PEA STONE ELEV.	DEPTH OF PEA STONE ON D/S END (IN)	BOTTOM OF PEASTONE ELEV. TOP OF ISR ON D/S END ELEV.	MIN. DEPTH OF ISR ON D/S END (IN)	BOTTOM OF ISR ELEV.
B	333.2	328.2	18	326.7	12	325.7	32	323.0

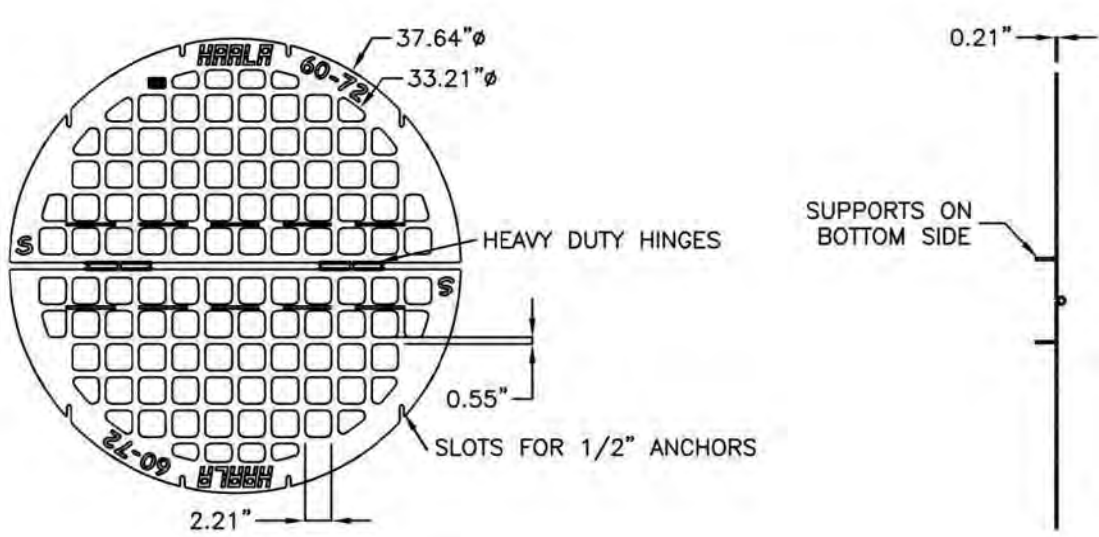
CUT SECTION



CUT SECTION



3 STORMWATER POND 'B' ~ BIORETENTION w/ INTERNAL STORAGE RESERVOIR (ISR) BASIN
C2.8 - SCALE: NTS



NOTES:

- SKIMMING GRATES SHALL BE PROVIDED BY HALLA INDUSTRIES OR APPROVED EQUAL.
- A36 HOT DIP GALVANIZED STEEL, w/ COLOR GALV, (BLACK) PER ASTM A123.
- OPEN AREA: 11.61 SQ FT

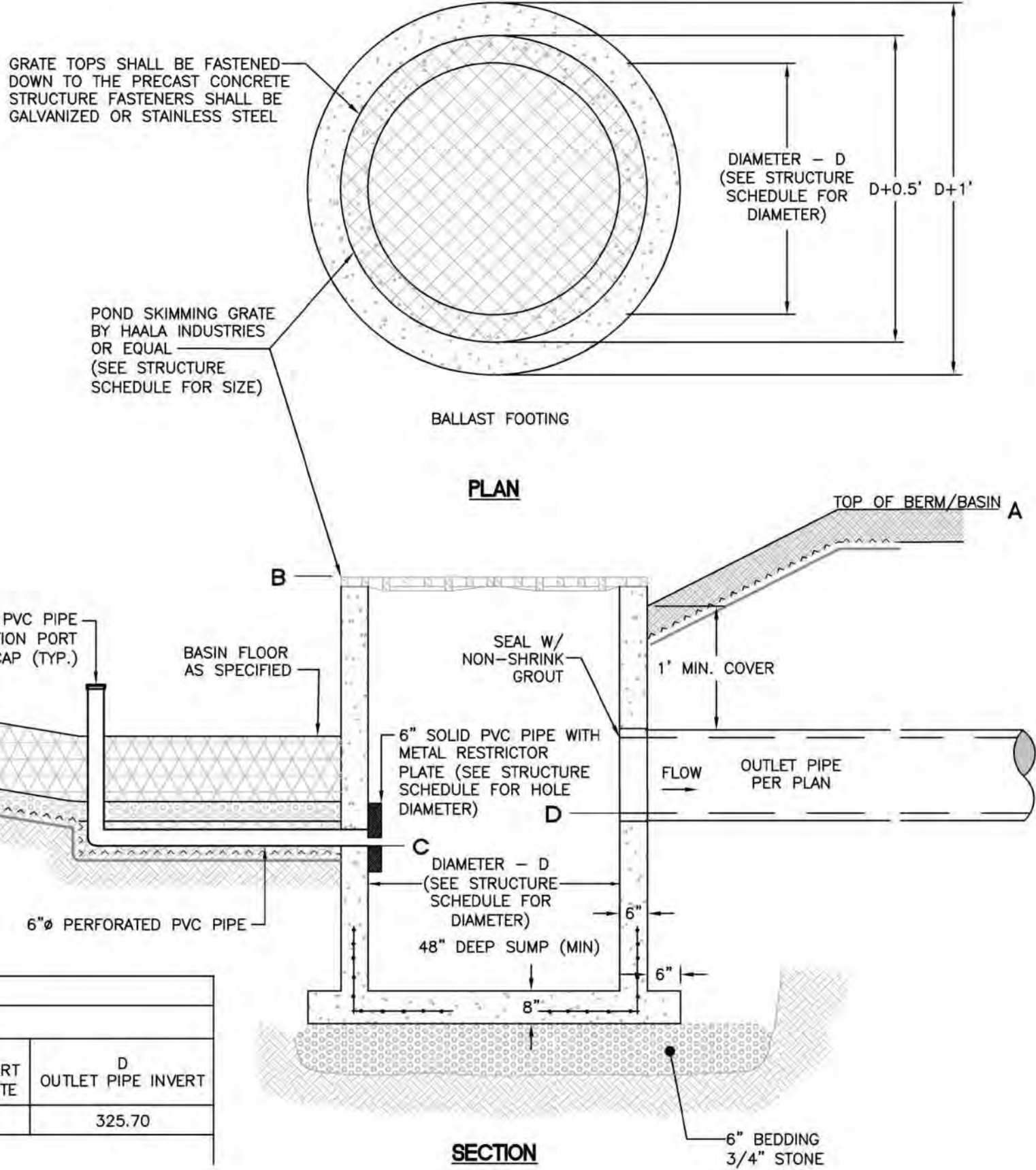
1 STORMWATER POND SKIMMING GRATE w/ HINGE ~ 60"φ
C2.8 - SCALE: N.T.S.

OUTLET STRUCTURE NOTES:

- OUTLET CONTROL STRUCTURE SHALL CONFORM TO SECTION 604 OF THE NHDOT STANDARD SPECIFICATIONS.
- ALL HARDWARE SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123/123M AND/OR ASTM A153/153M.
- ALL HARDWARE SHALL CONFORM TO SECTION 550, AND AS FOLLOWS:
 - BOLTS: ASTM A325;
 - NUTS: GRADE 4H;
 - WASHERS: ASTM F436;
 - STRUCTURAL STEEL: ASTM A6 AND/OR AASHTO M270 (ASTM A709); GRADE 36;

OUTLET CONTROL STRUCTURE (OCS)	STRUCTURE DIAMETER - D (IN)	METAL RESTRICTOR PLATE HOLE DIAMETER (IN)	ELEVATIONS			
			A TOP OF BERM/BASIN	B GRATE	C 6" UNDERDRAIN INVERT w/ RESTRICTOR PLATE	D OUTLET PIPE INVERT
B	60	3	333.2	332.25	323.50	325.70

2 OUTLET CONTROL STRUCTURE (OCS 'B')
C2.8 - SCALE: NTS



SECTION

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BEAVER MEADOW
GOLF COURSE

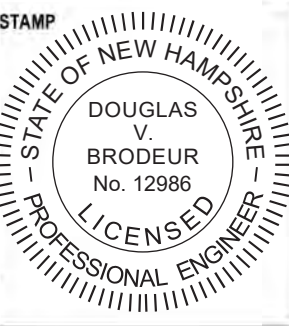
PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

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REVISIONS

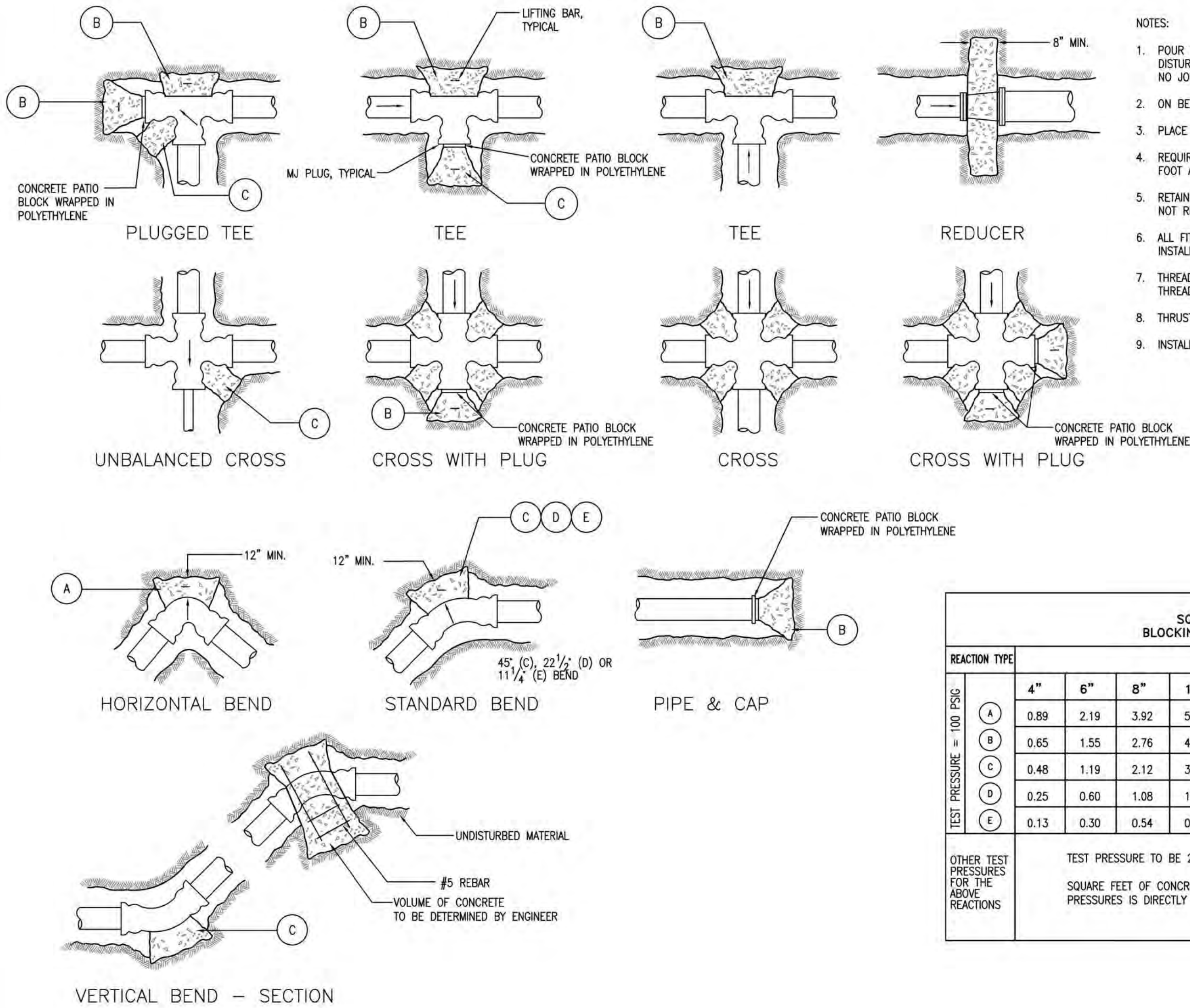
SHEET TITLE:
**STORMWATER BMP
DETAILS**

C2.8

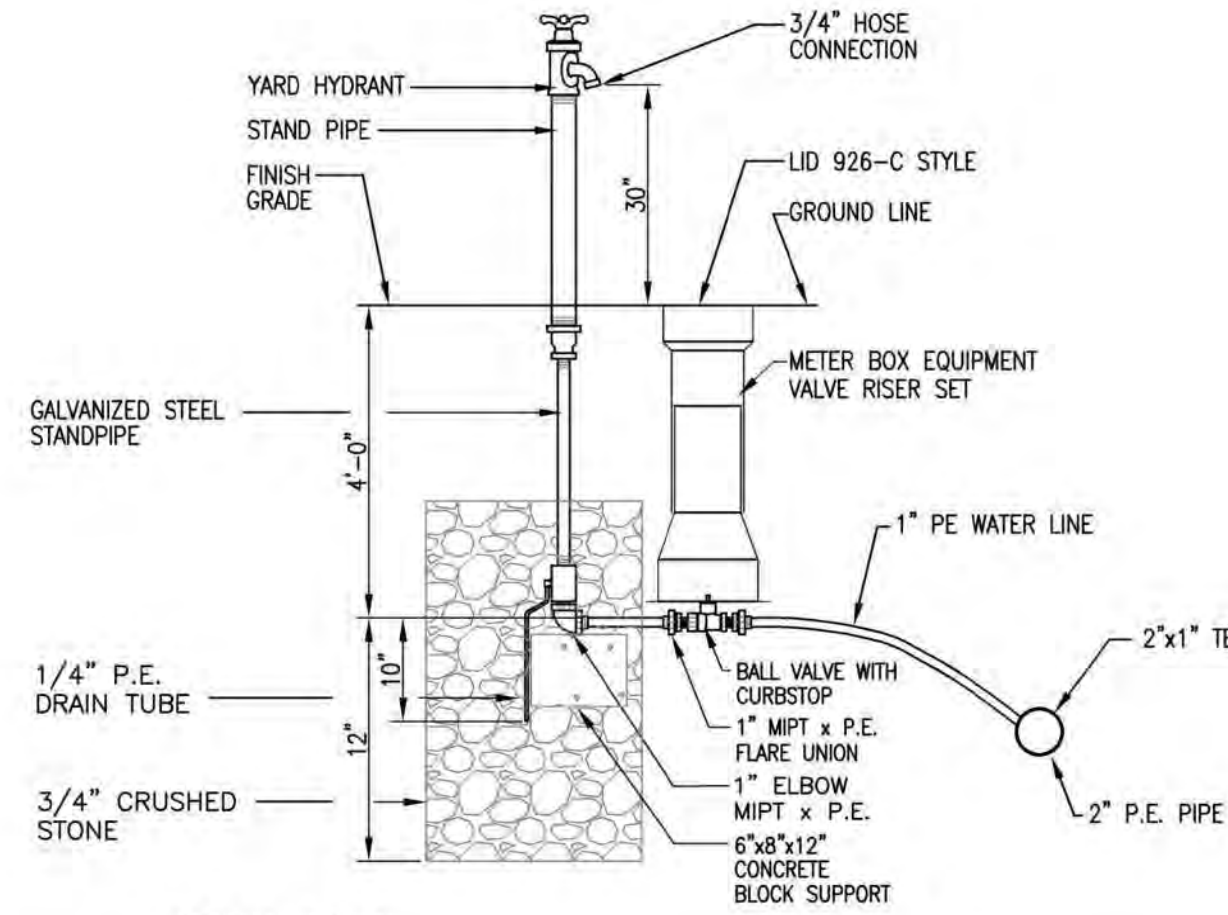
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SHEET TITLE:
**SANITARY SEWER
DETAILS**

P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility Drawings\01_Civil\5387 Details.dwg Details.dwg 2



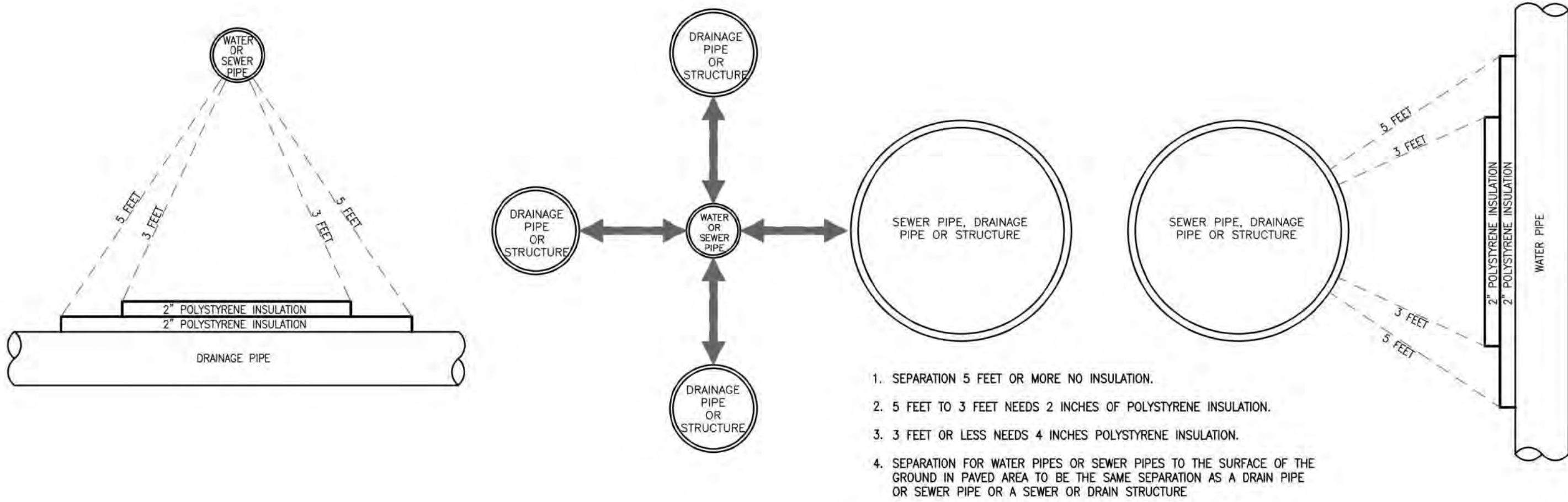
THRUST BLOCK SCHEDULE SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL													
REACTION TYPE		PIPE SIZE											
TEST PRESSURE = 100 PSIG	A	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
	B	0.89	2.19	3.92	5.57	8.62	10.91	15.41	18.02	24.06	34.64	53.83	77.39
	C	0.65	1.55	2.76	4.19	6.09	8.37	10.89	13.87	17.01	24.49	38.06	54.72
	D	0.48	1.19	2.12	3.01	4.66	5.91	8.34	9.71	13.02	18.75	29.13	41.88
	E	0.25	0.60	1.08	1.54	2.37	3.01	4.26	4.97	6.64	9.56	14.85	21.35
	F	0.13	0.30	0.54	0.77	1.19	1.52	2.12	2.51	3.33	4.79	7.45	10.71
OTHER TEST PRESSURES FOR THE ABOVE REACTIONS		TEST PRESSURE TO BE 200 PSI MINIMUM AT LOW END OF THE TEST SECTION SQUARE FEET OF CONCRETE THRUST BLOCKING FOR OTHER TEST PRESSURES IS DIRECTLY PROPORTIONAL TO THE ABOVE TABLE.											



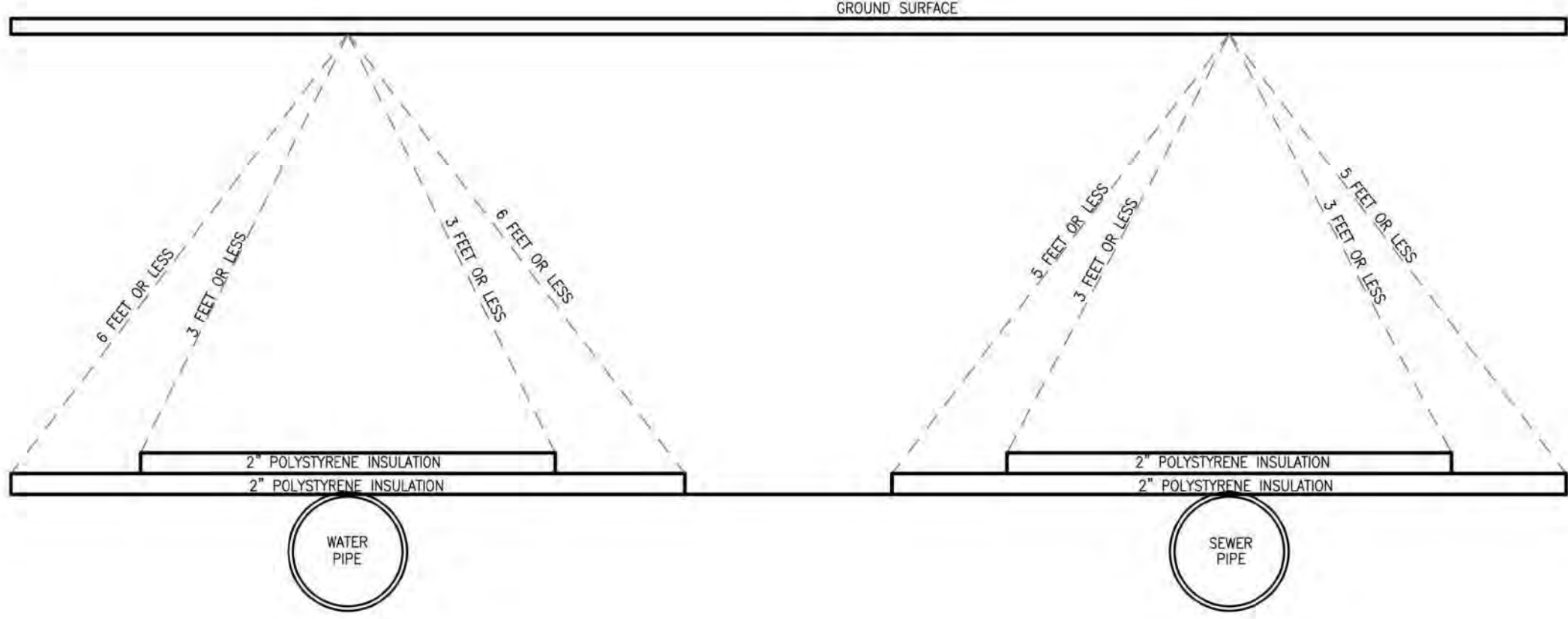
- GENERAL NOTES
- Yard hydrants shall be self-draining, non-freezing, compression type. Inlet connection shall be 3/4". Outlet shall be 3/4" threaded hose nozzle.
 - Yard hydrants shall have a steel pipe riser with a cast iron casing guard. Principal interior operating parts shall be brass and removable from yard hydrant for servicing without excavation.
 - Yard hydrants shall be set in 4 cubic feet of crushed stone to allow for proper drainage. Recommendations of the AWWA should be followed when installing the yard hydrant.

1 THRUST BLOCK DETAIL
SCALE: N.T.S.

2 FROST PROOF YARD HYDRANT
SCALE: N.T.S. C5002B



3 DOMESTIC WATER AND/OR SANITARY SEWER INSULATION
SCALE: N.T.S.



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t:603.228.1122
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PROJECT TITLE / ADDRESS:
BEAVER MEADOW GOLF FACILITY PARKING LOT RENOVATIONS

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP	STATE OF NEW HAMPSHIRE
SCALE:	AS NOTED	DOUGLAS BRODEUR	No. 12986
DESIGN BY:	DVB	PROFESSIONAL ENGINEER	
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REVISIONS

SHEET TITLE:

POTABLE WATER DETAILS

C2.11

P:\5387 Beaver Meadow - New Golf Course Cleanup Facility Drawings\01_Golf\5387 Details ewg

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GENERAL EROSION AND SEDIMENTATION CONTROL AND WATER QUALITY PROTECTION NOTES:

- ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL (NHDES) ALTERATION OF TERRAIN (AOT) PERMITTING PROGRAM RULES (ENV-WQ 1500), THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, AND THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPEC).
- ALL EARTH MOVING ACTIVITIES OR TERRAIN ALTERATION SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL (NHDES) SURFACE WATER QUALITY (SWG) STANDARDS (ENV-WQ 1700) REGARDLESS OF WHETHER A PERMIT IS REQUIRED AND/OR ISSUED.
- PRIOR TO EARTH MOVING OPERATIONS:
 - IN AREAS WHERE THE LIMITS OF WORK ARE WITHIN FIFTEEN FEET (15') OF JURISDICTIONAL WETLANDS OR OTHER REGULATORY RESOURCES (IE SHORELAND PROTECTION, ORDINARY HIGH WATER MARK (OHWM), STREAM/OPEN WATER TOP OF BANK (TOB), ETC.), THE LIMITS OF THE RESOURCE SHALL BE DELINEATED WITH ORANGE CONSTRUCTION DEMARCATION FENCE. IN AREAS OF PERMITTED IMPACT TO RESOURCES, THE LIMITS OF WORK (IE LIMITS OF DISTURBANCE) SHALL BE MARKED. SAID FENCING SHALL BE SET SIX INCHES (6") ABOVE GRADE TO ALLOW FOR WILDLIFE PASSAGE;
 - CONSTRUCT NECESSARY EROSION AND SEDIMENTATION CONTROLS (IE PERIMETER CONTROLS, STABILIZED CONSTRUCTION ENTRANCE, CHECK DAMS, INLET PROTECTION, ETC.) FOR THE PROTECTION OF EXISTING ONSITE/OFFSITE PRACTICES. IN ACCORDANCE WITH APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND EROSION AND SEDIMENTATION CONTROL PLANS.
- STORMWATER TREATMENT PONDS AND DRAINAGE SWALES SHALL BE CONSTRUCT PRIOR TO ROUGH GRADING THE SITE.
- RUNOFF SHALL BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BEST MANAGEMENT PRACTICES ARE STABILIZED.
- STORMWATER PONDS, DITCHES AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN SEVENTY TWO HOURS (72 HR) OF ACHIEVING FINISHED GRADE.
- CUT AND FILL SLOPES MUST BE STABILIZED WITHIN SEVENTY TWO HOURS (72 HR) OF ACHIEVING FINISHED GRADE.
- SOIL STOCKPILES FOR PERIOD LONGER THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND HAY MULCH AND PERIMETER CONTROLS ALONG THE DOWNSLOPE SIDE.
- ALL AREAS OF UNSTABILIZED SOIL MUST BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN FORTY FIVE DAYS (45 DAY) AFTER INITIAL DISTURBANCE.
- EROSION CONTROL PRACTICES MUST BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY RAIN EVENT OF 1/4" INCH (0.25") OR MORE.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED AT ANY GIVEN TIME PRIOR TO STABILIZATION.
- NO MORE THAN FIVE ACRES (5 AC) SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME [SEE WINTER CONSTRUCTION NOTE 1, BELOW].
- AN AREA SHALL BE CONSIDERED STABLE WHEN IT HAS ACHIEVED A CONDITION THAT WILL NOT ERODE DURING A 10-YEAR STORM EVENT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED;
 - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.03;
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED AND COMPACT TO A MINIMUM OF 95% OF THE DRY UNIT WEIGHT, IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATION OF ROAD AND BRIDGE CONSTRUCTION (STANDARD SPEC);
 - AN AREA HAS BEEN PAVED WITH BITUMINOUS ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE, OR SIMILAR MATERIALS.
- EARTH MOVING ACTIVITIES, TERRAIN ALTERATION, AND EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL MEET THE REQUIREMENTS OF RSA 430:51-57 AND THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES Agr 3800 "INVASIVE SPECIES".
- FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH WITH THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ENV-A 1000 "PREVENTION, ABATEMENT, AND CONTROL OF OPEN SOURCE AIR POLLUTION".

EROSION AND SEDIMENTATION CONTROL FOR COLD WEATHER CONSTRUCTION NOTES:

- DURING WINTER/COLD WEATHER AND SPRING RUNOFF CONDITIONS, DURING THE PERIOD BETWEEN OCTOBER 15TH AND MAY 1ST, NO MORE THAN 1 ACRE (1 AC) SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME, AND UNSTABILIZED AREAS SHALL BE PROTECTED AS FOLLOWS:
 - SLOPES LESS THAN FIFTEEN PERCENT (<15%) SHALL BE STABILIZED BY SEEDING AND HAY/STRAW MULCH APPLIED THREE TO FOUR TONS PER ACRE (3-4 TON/ACRE) [APPROXIMATELY 4" DEPTH] AND SECURED WITH ANCHORED NETTING OR TACKIFIER OR WITH A MINIMUM TWO INCHES (2 IN) OF EROSION CONTROL MIX (ECM). TEMPORARY MULCH MUST BE REMOVED PRIOR TO GROWING SEASON FOR SEED TO PROPERLY GERMINATE AND GROW.
 - SLOPES GREATER THAN FIFTEEN PERCENT (>15%) SHALL BE STABILIZED BY SEEDING AND ANCHORED EROSION CONTROL BLANKETS OR WITH A MINIMUM FOUR INCHES (4 IN) OF EROSION CONTROL MIX.
 - ALL DITCHES AND SWALES SHALL BE STABILIZED WITH STONE FILL, RIPRAP, OR EROSION CONTROL BLANKETS.
 - INCOMPLETE ROAD, PARKING, OR PAVEMENT AREAS, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF THREE INCHES (3 IN) OF BASE COURSE GRAVELS, IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) STANDARD SPECIFICATION OF ROAD AND BRIDGE CONSTRUCTION (STANDARD SPEC),OR EROSION CONTROL MIX (ECM).
- EROSION CONTROL BLANKETS AND/OR ANCHORED HAY MULCH SHALL NOT BE INSTALLED OVER SNOW GREATER THAN ONE INCH (1") OF DEPTH OR FROZEN GROUND.
- STABILIZED CONDITIONS SHALL BE ACHIEVED WITHIN ONE DAY (1 DAY) OF FINISHED GRADE ESTABLISHMENT OR

EROSION PROTECTION AND SEDIMENTATION CONTROL (EPSC) INSPECTION AND MAINTENANCE NOTES:

- EROSION PROTECTION AND SEDIMENTATION CONTROL (EPSC) INSPECTIONS SHALL BE IN COMPLIANCE AND TO THE STANDARDS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA) CONSTRUCTION GENERAL PERMIT (CGP).
- ALL EROSION CONTROL MEASURES SHALL BE REVIEWED AND CORRECTIONS MADE CONTINUOUSLY, TO KEEP PRACTICES IN MAINTAINED AND GOOD WORKING ORDER, THROUGHOUT THE CONSTRUCTION PROCESS. DOCUMENTED INSPECTIONS SHALL BE CONDUCTED EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF A 1/4" INCH RAINFALL EVENT, OR MORE FREQUENTLY AS REQUIRED.
- DETAILED MAINTENANCE AND INSPECTION REPORTS SHALL BE FILLED OUT AT THE TIME OF EACH INSPECTION BY A COMPETENT INDIVIDUAL APPOINTED BY THE CONTRACTOR OR OWNER. THE INSPECTOR WILL BE TRAINED IN INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. IF A CORRECTIONS/REPAIRS ARE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT. COPIES OF THE WEEKLY INSPECTION REPORTS SHALL BE AVAILABLE ONSITE FOR REVIEW.
- MAINTENANCE OF EROSION PROTECTION AND SEDIMENTATION CONTROLS (EPSC) SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL (NHDES) ALTERATION OF TERRAIN (AOT) PERMITTING PROGRAM RULES (ENV-WQ 1500), THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, AND AS FOLLOWS:
 - TEMPORARY VEGETATION AND/OR PERMANENT TURF, NOT ACHIEVING 85% VEGETATIVE COVER BY OCTOBER 15TH, OR EXHIBITING EROSION CONDITIONS (IE RILLS, WASHOUTS, ETC.) ANYTIME OF THE YEAR SHALL REQUIRE ADDITIONAL EROSION CONTROLS (IE HAY MULCH, STONE APPLICATION, EROSION CONTROL BLANKETS, TACKIFIERS, ETC.);
 - EROSION CONTROL BLANKETS WHICH HAVE BECOME DISPLACED OR DAMAGED SHALL BE SET/RESET IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, WHICH MAY ALSO REQUIRE REPAIR AND RESEEDING OF THE AFFECTED AREA.
 - PERIMETER CONTROLS (IE SILT FENCE, COMPOST SOCK, EROSION CONTROL MIX BERM, HAYBALE BARRIERS ETC.) WHICH HAVE BECOME DISLOADED, OVERTOPPED, OR BROKEN OPEN SHALL BE SET/RESET AND/OR REPAIRED AS REQUIRED TO KEEP THEM IN WORKING FUNCTIONAL ORDER. SEDIMENTS SHALL BE REMOVED AS NEEDED, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, OR ACCUMULATED TO 1/3 THE HEIGHT OF THE PRACTICE.
 - CHECK DAMS (IE STONE CHECK DAM, COMPOST SOCK, TIMBER CHECK DAM, ETC.) WHICH HAVE BECING DISLOADED, OVERTOPPED, OR BROKEN OPEN SHALL BE SET/RESET AND/OR REPAIRED AS REQUIRED TO KEEP THEM IN WORKING FUNCTIONAL ORDER. SEDIMENTS SHALL BE REMOVED AS NEEDED, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, OR ACCUMULATED 1/2 THE HEIGHT OF THE PRACTICE. WHERE DOWNSTREAM AREAS HAVE SILTATION OR WATERS ARE TURBID, CHECK DAMS SHALL BE ADJUSTED TO PREVENT SUCH ILLICIT DISCHARGES AS REQUIRED.
 - STORM SEWER INLET PROTECTION (IE DANDY BAG, INLET FILTER BASKET, COMPOST SOCK, ETC.) PRACTICES SHALL BE CLEANED OF SEDIMENTS AS NEEDED, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, OR ACCUMULATED TO 1/2 THE HEIGHT OF THE DEVICE.
 - STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION TO WHEN TRACKING OR FLOWING OF SEDIMENTS OFFSITE, WHICH MAY REQUIRE TOP DRESSING WITH ADDITIONAL STONE OR REPLACEMENT OF STONE PAD. ANY SEDIMENTS TRACKED, SPILLED, OR DRIVEN OFFSITE BY OTHER MEANS SHALL BE REMOVED PROMPTLY.
 - SEDIMENT TRAPS, SETTLEMENT BASINS, CONCRETE WASHOUT AREAS, AND FILTER BARRIERS SHALL BE CLEANED AND IF NECESSARY REPLACED WHEN DISCHARGED RUNOFFS NO LONGER FLOW OUT OF PRACTICE, OUTFLOW IS LADEN WITH SEDIMENTS, DOWNSTREAM AREAS EXHIBIT SILTATION, OR THEY ARE NO LONGER EFFECTIVELY FILTERING TURBIDITY, AND SHALL BE CLEANED OF SEDIMENTS AS NEEDED, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, OR ACCUMULATED TO 1/2 THE PRACTICE VOLUME;
 - DIVERSION SWALES DAMAGED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITIES SHALL BE REPAIRED BEFORE THE END OF EACH WORKING DAY. SEDIMENT SHALL BE CLEANED AFTER EVERY RAIN EVENT OF 1/2" INCH OR MORE.
 - CONVEYANCE SWALES WHICH EXHIBIT EXCESSIVE EROSION SHALL BE RESHAPED AND LINED WITH RIPRAP OR STONE FILL TO PREVENT FURTHER DETERIORATION.

- UPON COMPLETION OF CONSTRUCTION AND ACHIEVING FULL SITE STABILIZATION TEMPORARY SEDIMENTATION AND EROSION CONTROL PRACTICES SHALL BE REMOVED, AREAS DISTURBED BY THESE ACTIVITIES SHALL BE SMOOTHED, SEEDED, AND HAY MULCHED, AND THE ENTIRE DRAINAGE SYSTEM (STORM SEWERS, DRAINAGE SWALES AND DITCHES, STORMWATER PONDS, AND OTHER STORMWATER CONVEYANCE, TREATMENT OR STORAGE PRACTICES, ETC.) SHALL BE CLEANED OF ALL DEBRIS AND SILT.
- TEMPORARY GRADE CONDITIONS THAT WILL EXIST FOR FIVE DAYS (5 DAY) OR LONGER.

EROSION AND SEDIMENT CONTROL GENERAL STANDARDS:

TEMPORARY/PERMANENT MULCHING:

- HAY USED FOR MULCH OR HAY BALES SHALL BE LOCALLY GROWN, CURED, FREE OF NOXIOUS WEED AND INVASIVE SPECIES LISTED IN TABLE 3800.01 (NHRSA-AGR 3800), AND FREE OF INORGANIC MATTER, AND INSTALLED AS FOLLOWS:
 - APPLIED AT A RATE OF 70-90 POUNDS PER 1,000 SF (APPROXIMATELY TWO BALES) OR 1-1½ TO 2 TONS PER ACRE OR COVERING 75-90% OF THE GROUND SURFACE;
 - ANCHORED TO PREVENT DISPLACEMENT BY RUNOFF OR WIND INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - NETTING, JUTE, WOOD FIBER OR OTHER ORGANIC AND BIODEGRADABLE WILDLIFE FRIENDLY PRODUCT, INTENDED FOR USE ON THE SLOPE OF THE SLOPE OR INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATION;
 - TACKIFIER: BONDED FIBER MATRIX, FIBER REINFORCED MATRIX, OR STABILIZED MULCH MATRIX LISTED ON THE NHDOT QUALIFIED PRODUCTS LIST, INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATION.
- BARK MULCH SHALL SHALL BE BARK CHIPPINGS GRADED TO BE APPROXIMATELY 3/8" TO 2" IN WIDTH, THE CHIPPINGS SHALL NOT HAVE BEEN STORED SO LONG AND UNDER SUCH CONDITIONS THAT THE MATERIAL HAS DECOMPOSED SUFFICIENTLY SO THAT IT HAS LOST ITS FIBROUS TEXTURE. BARK MULCH MUST BE APPROVED AS TO GRADING AND CONDITION PRIOR TO ITS USE, AND INSTALLED AS FOLLOWS:
 - APPLIED AT A RATE OF 10-20 TONS PER ACRE (460-920 LBS PER 1,000 SF);
 - APPLIED AT A THICKNESS OF 2-6 INCHES.

GENERAL TEMPORARY VEGETATION AND PERMANENT TURF REQUIREMENTS:

- SITE PREPARATION SHALL INCLUDE INSTALLATION OF ANY NECESSARY EROSION CONTROLS (DIVERSION SWALES OR TEMPORARY SILTATION BASINS, ETC.) TO DIVERT RUNOFF AWAY FROM THE SEEDED AREA AND PLACEMENT OF TOPSOIL, LOAM, OR INTERMIXED HUMUS FOR THE AREA TO BE SEEDED.
- SEEDBED PREPARATION SHALL INCLUDE THE REMOVAL OF STONE LARGER THAN 1/2", TRASH, DELETERIOUS MATERIALS, AND OTHER FOREIGN DEBRIS (IE PLAN OR ORGANIC CLUMPS, SOIL CLODS, WOOD, ETC.); LOOSENING THE TOP 4 INCHES OF SOIL PRIOR TO APPLYING FERTILIZER, LIME, OR SEED, ON SLOPES 4%+ (1%) OR STEEPER GROOVING/SLOPING THE SOIL PARALLEL TO THE TOP/BOTTOM OF SLOPE DIRECTION; APPLICATION OF LIMESTONE, FERTILIZER, OR OTHER ORGANIC AMENDMENTS.
- SEED SOWN BETWEEN MAY 15TH AND AUGUST 15TH SHALL INCLUDE TEMPORARY HAY MULCH COVER.
- LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER SHALL BE APPLIED AS SPECIFIED BY NHDOT SECTION 643 "FERTILIZER FOR GRASSES" AND LIMESTONE PER NHDOT SECTION 642 "LIMESTONE".
- FERTILIZER APPLIED WITHIN 100 FEET OF ANY SURFACE WATER (IE STREAM, RIVER, POND, LAKE, ETC.) SHALL BE LOW PHOSPHATE AND SLOW RELEASE NITROGEN OR WITHIN 250 FEET OF A WATER SPECIFIED BY THE NEW HAMPSHIRE COMPREHENSIVE SHORELAND PROTECTION ACT (RSA 483-B) SHALL BE LOW PHOSPHATE AND SLOW NITROGEN RELEASE (LESS THAN 2% PHOSPHORUS AND A MINIMUM 50% SLOW RELEASE NITROGEN COMPONENT), NO FERTILIZE SHALL BE APPLIED WITHIN 25 FEET OF SURFACE WATERS.
- SEED SHALL CONTAIN LESS THAN 0.5% (IDEALLY 0.0%) NOXIOUS WEEDS, BE FREE OF ANY INVASIVE SPECIES LISTED IN TABLE 3800.01 (NH CODE OF ADMINISTRATIVE RULES AGR 3800 "INVASIVE SPECIES"), COMPLY WITH THE NEW HAMPSHIRE SEED LAW (NHRSA-433), MEET THE REQUIREMENTS OF INDUSTRY STANDARDS, AND AS FOLLOWS:
 - TEMPORARY VEGETATION: SHALL CONSIST OF GRASS AND OTHER TURF SPECIES TO PROVIDE A TEMPORARY COVER UP TO 12 MONTHS THAT WILL NOT COMPETE WITH PERMANENT TURFS, AS FOLLOWS:

TIME OF SOWING	SEED TYPE	APPLICATION RATE	SEED COVER
APRIL 1ST TO JUNE 1ST OR	PERENNIAL RYEGRASS	30 LB/ACRE	1/2"
AUGUST 15TH TO SEPT 15TH	ANNUAL RYEGRASS	40 LB/ACRE	1/4"
NO LATER THAN MAY 15TH	OATS	80 LB/ACRE	1"
AUGUST 15TH TO SEPT 5TH	WINTER RYE	112 LB/ACRE	1"
 - PERMANENT TURF ESTABLISHMENT: SHALL CONSIST OF A MIXTURE OF PERENNIAL GRASSES (IE PERENNIAL RYEGRASS, FESCUE, KENTUCKY BLUEGRASS, ETC.) AND OTHER TURF SPECIES (IE CLOVER, CROWN VETCH, BIRDSFOOT TREFOIL, ETC.) TO PROVIDE A PERMANENT VEGETATIVE COVER, AS FOLLOWS:
 - IN AREAS INTENDED FOR USE AS LAWN, SPORTS FIELD, LANDSCAPED AREAS, OR MAINTAINED TURF THE SEED MIXTURE SHALL BE IN ACCORDANCE WITH NHDOT ITEM NO. 644.15 "PARK SEED TYPE 15". (REFER TO LANDSCAPE PLAN FOR LOCATIONS)
 - IN AREAS OF OPEN SPACE, SIDE SLOPES, UNMAINTAINED TURF AREAS, OR OTHERWISE NON VISIBLE FROM PUBLIC WAYS THE SEED MIXTURE SHALL BE IN ACCORDANCE WITH NHDOT ITEM NO. 644.45 "SLOPE SEED (WF) TYPE 45". (REFER TO LANDSCAPE PLAN FOR LOCATIONS)

EROSION CONTROL MIX:

- EROSION CONTROL MIX (ECM) SHALL BE WELL GRADED MIXTURE OF ORGANIC MATERIALS, STONE, AND COARSE SANDS MEETING THE FOLLOWING REQUIREMENTS:
 - FREE OF SILTS, CLAYS, FINE SANDS, AND STONE 3 INCHES OR LARGER;
 - PH BETWEEN 5-8;
 - MEET THE FOLLOWING COMPONENT MIXTURE RATE:

COMPONENT	PERCENT BY DRY WEIGHT
ORGANIC MATTER	25-65%
SAND/STONE	35-75%
 - MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING BY DRY WEIGHT
3"	100%
1"	90-100%
3/4"	70-100%
#4	30-75%
 - THE ORGANIC PORTION SHALL CONSIST OF FIBROUS AND ELONGATED STUMP GRINDINGS, SHREDDED BARK, COMPOSTED BARK OR EQUIVALENT MANUFACTURED PRODUCTS, WHICH ARE NOT COMPRISED OF WOOD CHIPS, BARK CHIPS, CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS.

AIRBORNE PARTICULATE MATTER CONTROL

- FUGITIVE DUST SHALL BE CONTROLLED IN ACCORDANCE WITH WITH THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ENV-A 1000 "PREVENTION, ABATEMENT, AND CONTROL OF OPEN SOURCE AIR POLLUTION".
- THE SITE CONTRACTOR SHALL MAINTAIN A VIGOROUS DUST CONTROL PROGRAM THROUGHOUT THE CONSTRUCTION PROCESS, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO PHASED CONSTRUCTION PRACTICES, TEMPORARY MULCHING, VEGETATIVE COVERS, STONE APPLICATION, TACKIFIERS (IE BONDED FIBER MATRIX, FIBER REINFORCED MATRIX, STABILIZED MULCH, ETC.), MECHANICAL AND MANUAL SWEEPING, WATER APPLICATION, AND OTHER APPROVED DUST SUPPRESSANTS (IE CALCIUM CHLORIDE, MAGNESIUM CHLORIDE, ALUM, ETC.)
- ACTIVE DUST SUPPRESSION SHALL USE WATER, UNLESS OTHERWISE APPROVED.

GROUNDWATER DEWATERING REQUIREMENTS:

- THE CONTRACTOR SHALL APPLY FOR AND RECEIVE A NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) GROUNDWATER DISCHARGE PERMIT, PRIOR TO CONDUCTING ANY DEWATERING EFFORTS AND/OR PUMPING OF GROUNDWATER.
- DEWATERING ACTIVITIES SHALL BE MANAGED IN ACCORDANCE WITH THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ENV-WQ 402 "GROUNDWATER DISCHARGE PERMITS AND REGISTRATIONS".
- GROUNDWATER DISCHARGE SHALL BE DIRECTED TO A FILTER BASIN, GEOTEXTILE FILTER BAG (IE "DIRTBAG" BY ACT FERGUSON), OR OTHER PRACTICE, CAPABLE OF REMOVING TURBIDITY PRIOR TO RELEASE TO REGULATORY RESOURCES (IE WETLANDS, SURFACE WATERS, STORMSEWERS, ETC.).

POLLUTION PREVENTION PLAN GENERAL NOTES:

THE FOLLOWING ARE GENERAL COMPLIANCE RECOMMENDATIONS TO BE CONSISTENT WITH ENVIRONMENTAL PROTECTION AGENCY (EPA) CONSTRUCTION GENERAL PERMIT (CGP) AND DOES NOT SUPERSEDE THE SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OR OTHER CGP REQUIREMENTS, AND DOES NOT ALLEVATE THE CONTRACTOR OR OWNER OF THERE LEGAL OBLIGATIONS TO FOLLOW LOCAL, STATE, AND FEDERAL REQUIREMENTS RELATIVE TO THE MANAGEMENT OF MATERIALS AND POLLUTION PREVENTION.

MATERIAL INVENTORY FOR POLLUTION PREVENTION PLAN: THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- PORTLAND CEMENT CONCRETE
- PETROLEUM BASED PRODUCTS
- WOOD (KILN DRIED, PRESSURE TREATED)
- MASONRY BLOCK
- BITUMINOUS ASPHALT CONCRETE
- PAINT (GEMEL, OIL, LATEX)
- METAL (STEEL, ALUMINUM, BRASS)
- TAR
- SHINGLES
- FUEL (DIESEL, GASOLINE, KEROSENE, PROPANE)

SPILL PREVENTION PLAN NOTES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT:
 - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED FOR THE JOB.
 - ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED PRIOR DISPOSING OF THE CONTAINER.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE, STORAGE, AND DISPOSAL WILL BE FOLLOWED;
 - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE, STORAGE AND DISPOSAL OF MATERIALS ONSITE.
- HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
 - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINER UNLESS THEY ARE NOT RESEALABLE.
 - ORIGINAL LABEL AND MATERIAL SAFETY DATA WILL BE RETAINED.
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES:

PETROLEUM PRODUCTS:

- ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE.
- ALL VEHICLE REFUELING, OILING AND/OR GREASING, SHALL BE CONFINED TO THE VEHICLE MAINTENANCE PAD (CONSTRUCTION DETAIL SHOWN ON THIS PLAN) THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS.
- SHOULD ANY FUEL, HYDRAULIC OIL, OR ENGINE OIL SPILL OCCUR:
 - THE PLASTIC ON THE LOWER SIDE OF THE PAD SHALL BE SWNEELED UP AGAINST THE SAND FILL AND STABILIZED IN THAT POSITION.
 - ANY CONTAMINATED SOILS SHALL BE HAULED OFF-SITE AND DISPOSED OF BY AND THROUGH AN APPROVED HAZARDOUS WASTE HAULER.
 - PLASTIC SHEETING EXPOSED TO SUNLIGHT SHOULD BE CHECKED EVERY TWO MONTHS FOR U.V. DETERIORATION, AND REPLACED AS NECESSARY PRIOR TO BECOMING BRITTLE.
 - IN THE EVENT OF A REPORTABLE SPILL (25 GALLONS OR MORE) CONTACT THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) HAZARDOUS WASTE DIVISION @ (603) 271-2942 AND THENATIONAL RESPONSE CENTER @ (800) 424-8802.
- PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, REGULATORY APPROVED CONTAINERS, WHICH ARE CLEARLY LABELED. FUEL BARRELS SHALL BE PLACED WITHIN A CONTAINMENT WALL OR BERM.
- ASPHALT PRODUCTS WILL BE APPLIED AND STORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

- FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER, SOIL TEST RESULTS, OR NHDOT REQUIREMENTS.
- ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER.
- FERTILIZERS WILL NOT APPLIED IN RESTRICTED REGULATORY AREAS (IE SHORELAND PROTECTION, ETC.).
- SHALL BE STORED IN A COVERED WEATHER TIGHT STORAGE SHED.
- THE CONTENTS OF PARTIALLY USED BAGS WILL BE TRANSFERRED TO SEALABLE WATERTIGHT BAGS.

PAINTS:

- ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
- SHALL BE STORED IN A COVERED WEATHER TIGHT STORAGE SHED;
- EXCESS PAINT AND CLEANING MATERIALS WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM AND SHALL BE DISPOSSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR REGULATED REQUIREMENTS.

CONCRETE TRUCKS:

- CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER WITHIN ANY CRITICAL BUFFER OR PROTECTION ZONE;
- DISCHARGES FROM CLEANING OF CONCRETE TRUCKS SHALL BE DISCHARGED TO A CONCRETE WASHOUT AREA (AS SHOWN ON THIS PLAN).

SPILL PREVENTION AND CLEANUP PRACTICES:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE LOCAL, STATE, OR FEDERAL GOVERNMENT AGENCY.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM OCCURRING AGAIN AND IT WILL BE ADJUSTED IF ADDITIONAL HAZARDOUS MATERIALS ARE BROUGHT ONSITE.
- THE ONSITE SUPERVISOR SHALL APPOINT A PERSON RESPONSIBLE FOR DAILY AND WEEKLY INSPECTIONS AND REPORTS.
- SPILLS OF REPORTABLE QUANTITIES SHALL BE REPORTED TO THE NATIONAL RESPONSE CENTER @ (800) 424-8802 AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) HAZARDOUS WASTE DIVISION @ (603) 271-2942. REPORTABLE QUANTITIES CAN BE CONSIDERED BUT NOT LIMITED TO THE FOLLOWING:
 - UNKNOWN QUANTITY;
 - RELEASE OF PETROLEUM PRODUCTS;
 - RELEASE CAUSES A SHEEN ON NEARBY SURFACE WATERS;
 - RELEASE OF HAZARDOUS SUBSTANCE;
 - RELEASE THREATENS TO REACH OR ADVERSELY AFFECT A WATERWAY.

WASTE DISPOSAL:

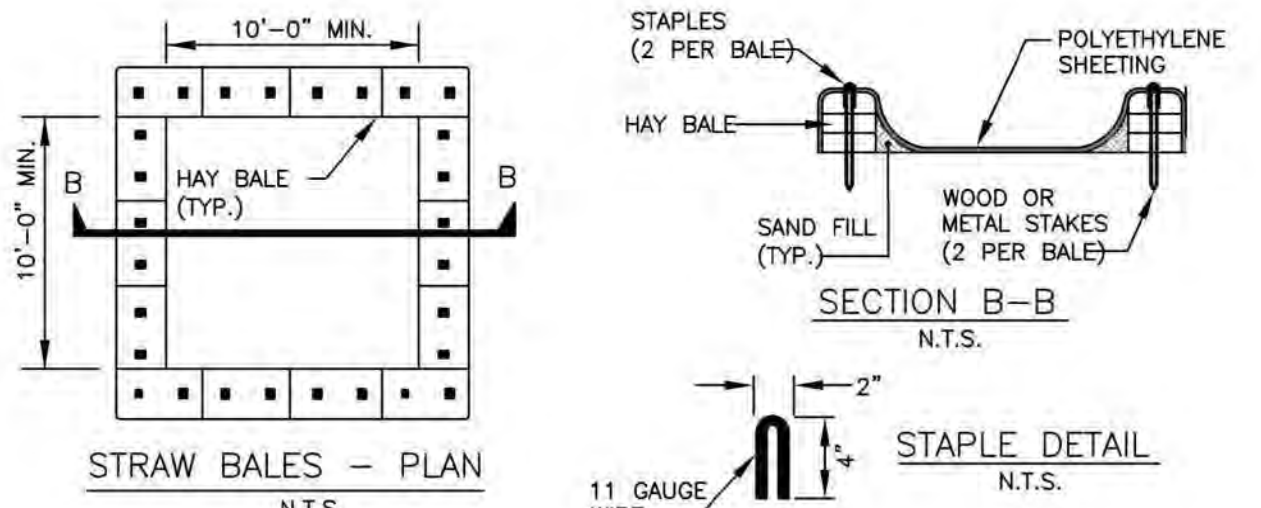
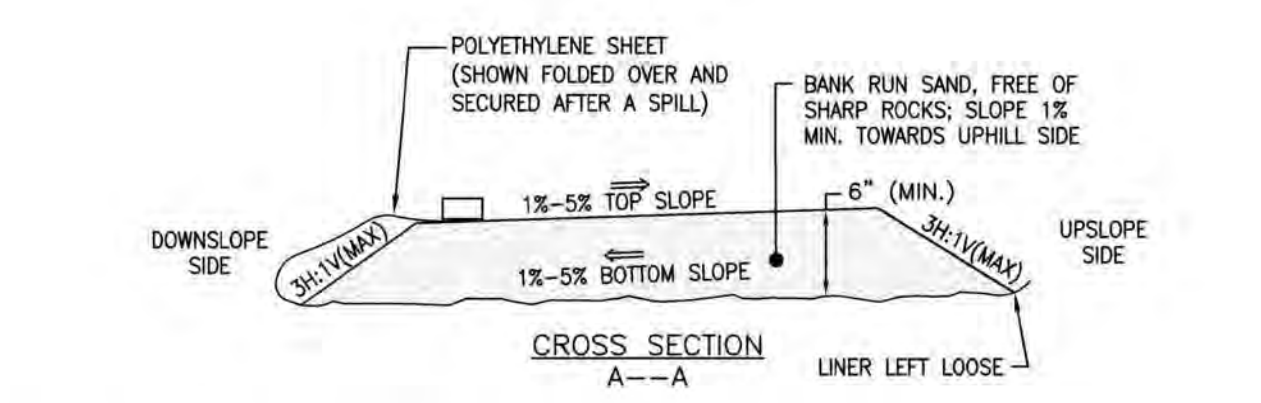
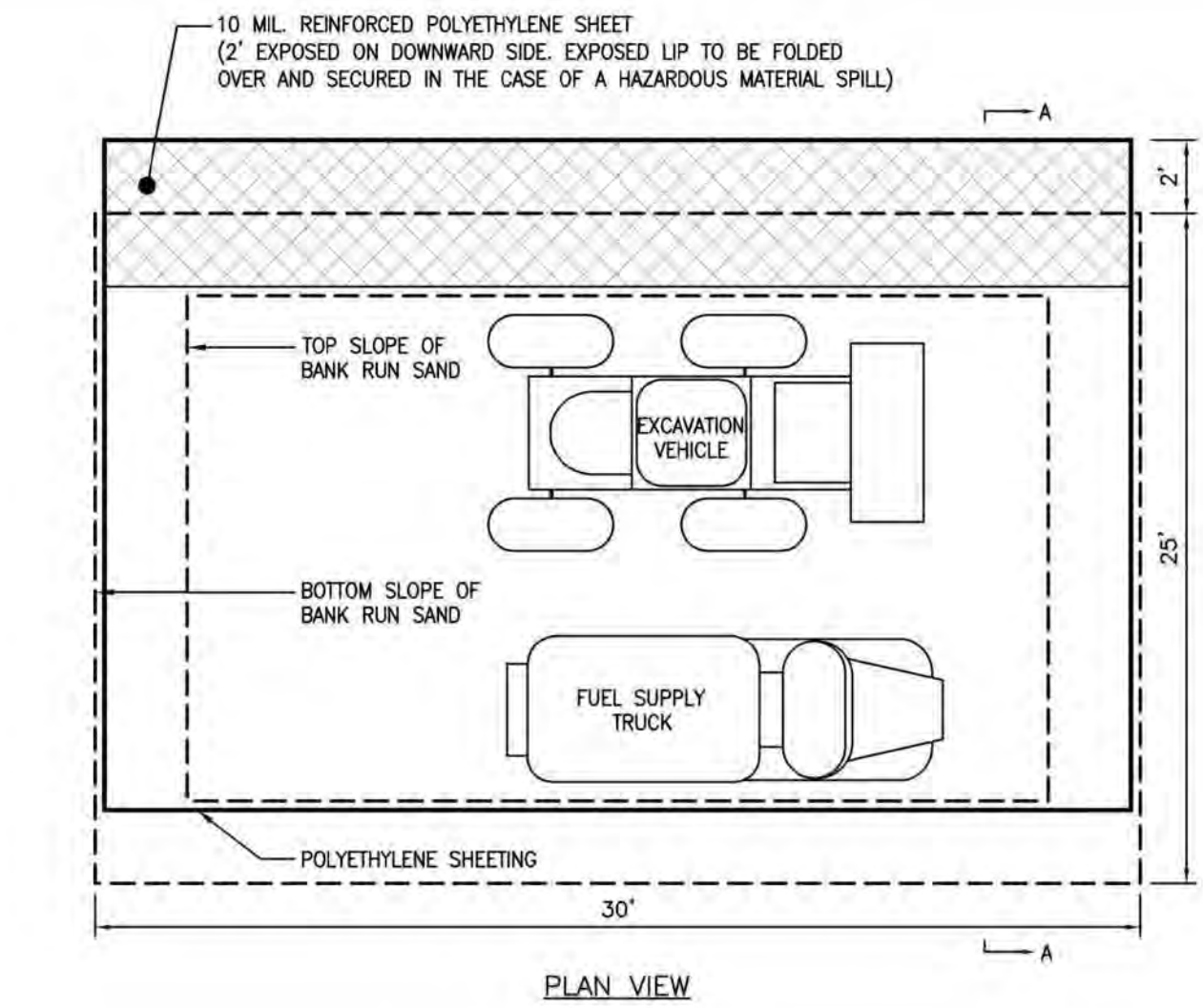
- ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A METAL DUMPSTER SUPPLIED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS.
- ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER.
- THE DUMPSTER WILL BE EMPTIED WHEN IT HAS REACHED ITS DESIGN CAPACITY.
- NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED OR BURNED ONSITE.
- ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSSED OF IN THE MANNER SPECIFIED BY REGULATORY REQUIREMENTS OR BY MANUFACTURER RECOMMENDATIONS.
- PORTABLE SANITARY FACILITIES WILL BE SUPPLIED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL AND STATE REGULATIONS. THESE FACILITIES WILL BE CLEANED AS NECESSARY TO MAINTAIN A CLEAN AND SANITARY FACILITY.
- ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PROCEDURES MUST POSTED ON THE SITE.
- THE INDIVIDUAL APPOINTED BY THE SITE CONTRACTOR OR OWNER TO DO SITE INSPECTIONS SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

NON-STORMWATER DISCHARGES:

THE FOLLOWING IS A LIST OF ALLOWABLE NON-STORMWATER DISCHARGES EXPECTED TO BE PRESENT AT THE SITE:

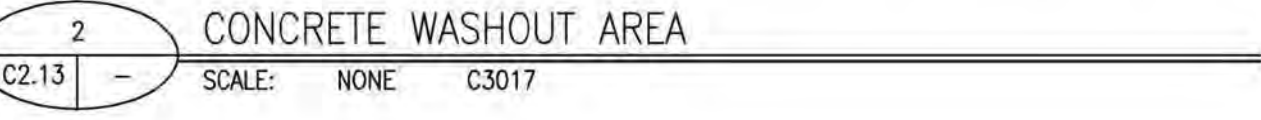
DISCHARGES:

- EMERGENCY FIRE FIGHTING ACTIVITY
- THE HYDRANT FLUSHING
- LANDSCAPE IRRIGATION
- VEHICLE AND EQUIPMENT CLEANING WASH WATER
- WATER FOR DUST CONTROL
- EXTERNAL BUILDING WASH WATER
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING
- PAVEMENT WASH WATER
- UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE
- UNCONTAMINATED NON-TURBID GROUND OR SPRING WATER
- FOUNDATION FOOTING DRAIN
- CONSTRUCTION DEWATERING



NOTES:

- THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
- THE CONCRETE WASHOUT AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE WASHOUT AREA MUST BE CLEANED, OR A NEW WASHOUT AREA MUST BE CONSTRUCTED AND READY FOR USE ONCE THE ORIGINAL VOLUME HAS BEEN DEPLETED BY 50% FULL.
- SIGNS SHALL BE INSTALLED WITHIN 30 FEET OF THE WASHOUT AREA, CLEARLY INDICATING ITS LOCATION TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- THE CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM SEWER INLETS, OPEN DISCHARGE FACILITIES, SURFACE WATERS AND/OR WETLANDS. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS TO PREVENT DISTURBANCE OR TRACKING. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO AREA IS OFF PAVEMENT.
- SHEETING SHALL BE REINFORCED 10 MIL POLYETHYLENE AND FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- HARDENED CONCRETE AND MATERIAL USED TO CONSTRUCT THE WASHOUT AREA SHALL BE REMOVED AND DISPOSSED OF AT AN APPROVED WASTE SITE.
- WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED AS REQUIRED.



The H.L. Turner Group Inc.
27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
h:turner.com
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PROJECT TITLE / ADDRESS:
BEAVER MEADOW GOLF FACILITY PARKING LOT RENOVATIONS

1 BEAVER MEADOW DRIVE CONCORD, NH 03301

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP
SCALE:	AS NOTED	
DESN. BY:	DVB	
DRAWN BY:	MR/AGL	
CHKD BY:	DVB	
ISSUE DATE:	07/16/25	

REVISIONS

SHEET TITLE:
EROSION PROTECTION & SEDIMENTATION CONTROL (EPSC) DETAILS

C2.13

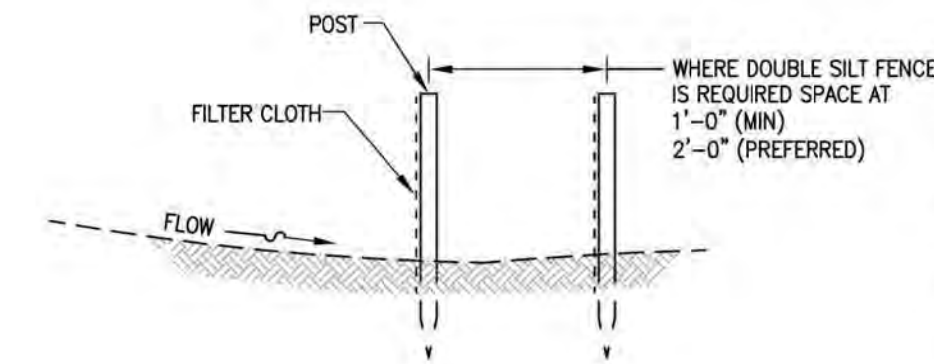
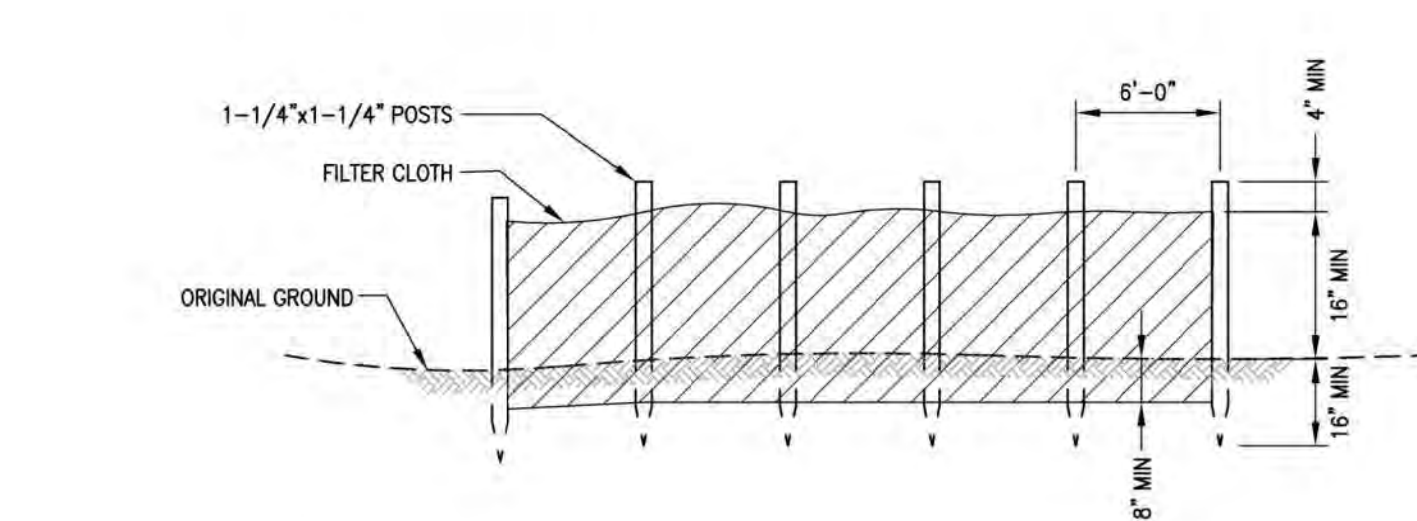
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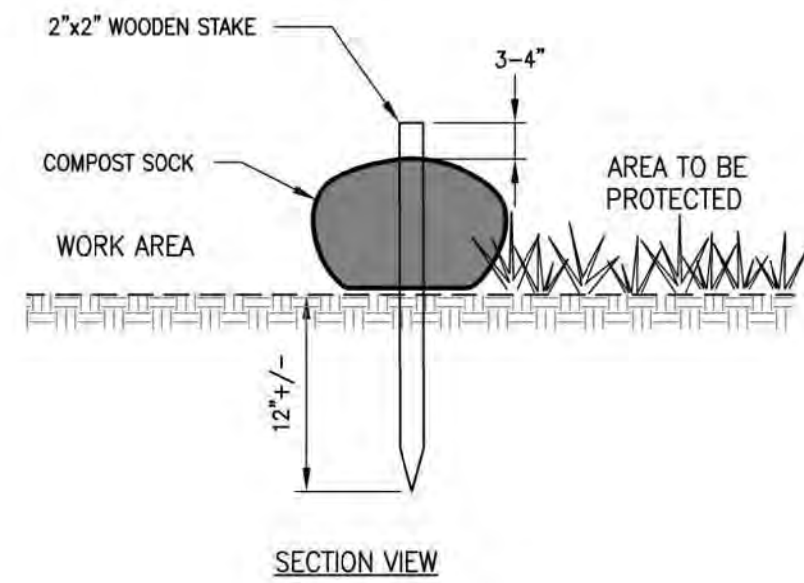
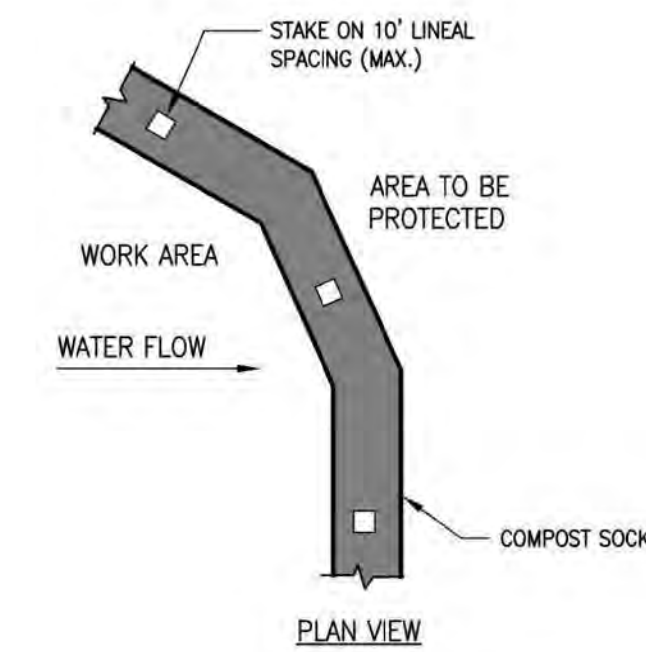
1



NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN FENCE WITH TIES SPACES EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
3. SILT FENCE MUST SHALL BE MAINTAINED ON A CONTINUAL BASIS.
4. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/3 THE HEIGHT OF THE FENCE (5'±).

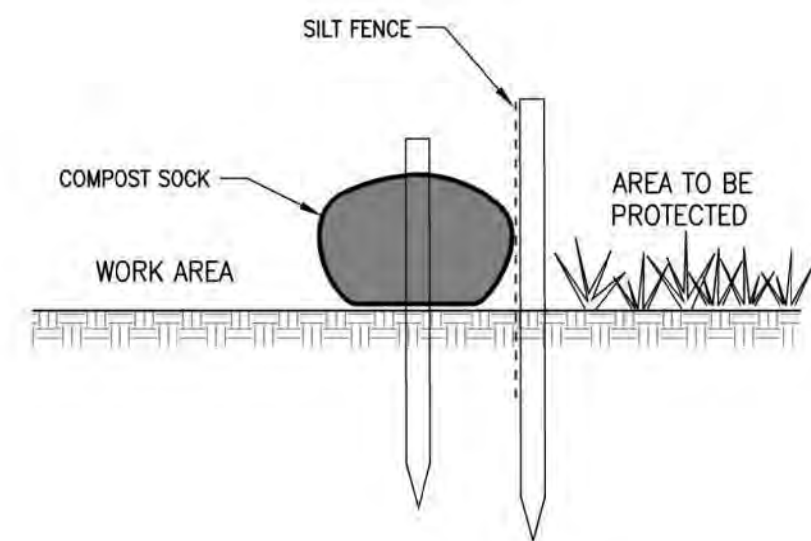
1 PERIMETER CONTROL ~ SILT FENCE
C2.14 - SCALE: NONE



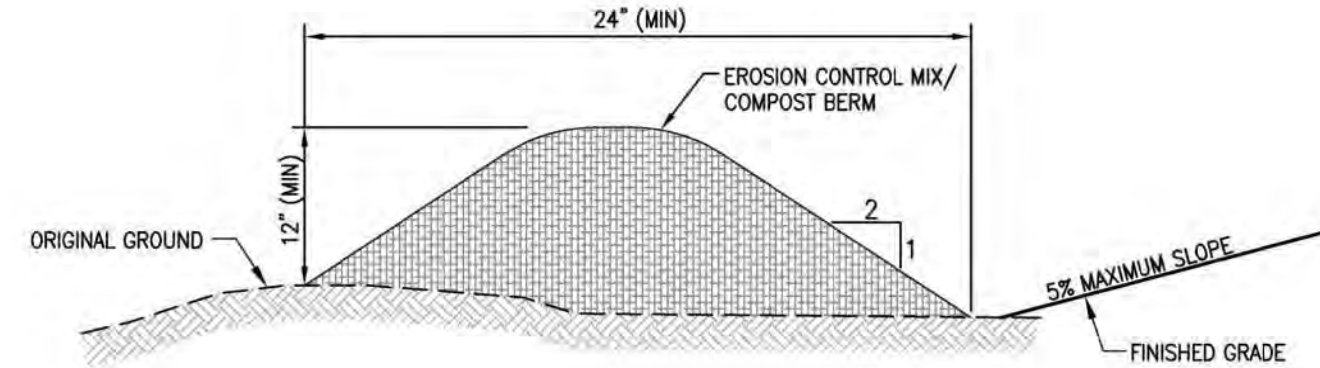
NOTES:

1. COMPOST SOCK SHALL BE FILTREXX SILT SOCKS ORIGINAL 18".
2. COMPOST SOCK MUST SHALL BE MAINTAINED ON A CONTINUAL BASIS.
3. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/2 THE HEIGHT OF THE SOCK (7'±).

4 PERIMETER CONTROL ~ COMPOST SOCK
C2.14 - SCALE: NONE



7 DOUBLE PERIMETER CONTROL ~ SILT FENCE W/ COMPOST SOCK
C2.14 - SCALE: NONE

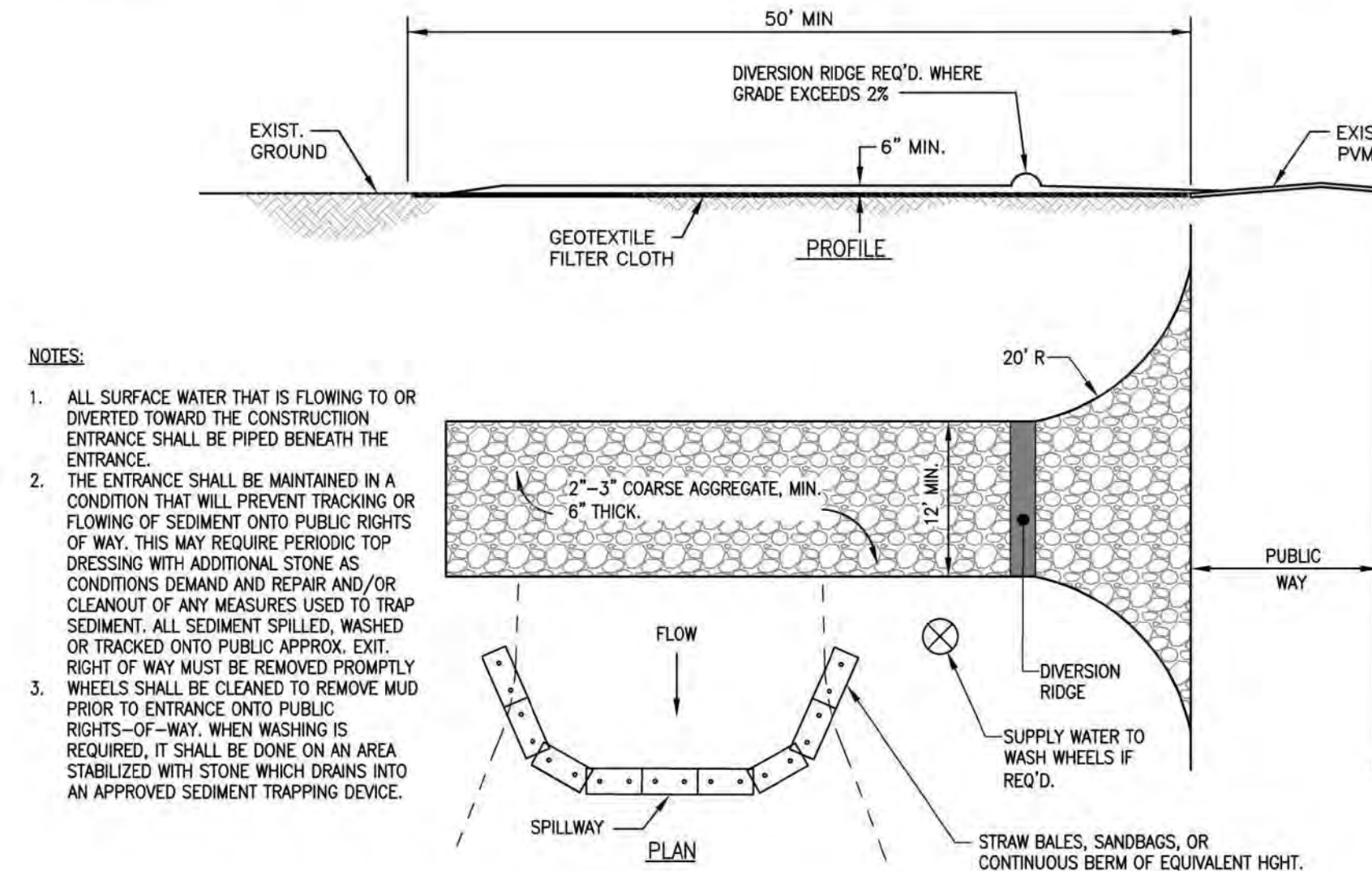


NOTES:

1. MULCH BERM SHALL BE COMPOSED OF EROSION CONTROL MIX, MEETING THE RETIREMENTS OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ALTERATION OF TERRAIN ENV-WQ 1508.05(s) AND AS FOLLOWS:
 - a. SHALL HAVE AN ORGANIC PORTION BETWEEN 25% AND 65%, DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS;
 - b. SHALL NOT CONTAIN WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR RE-PROCESSED WOOD PRODUCTS;
 - c. SHALL NOT CONTAIN SILTS, CLAYS, OR FINE SANDS;
 - d. SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	2-PASSING
3 INCH	100%
1 INCH	90-100%
3/4 INCH	70-100%
1/4 INCH	30-75%
 - e. HAVE A PH BETWEEN 5 AND 8.
2. SHALL NOT BE USED WHERE THE INFLOWING UPSTREAM SLOPE IS GREATER THAN 5%.
3. SHALL BE MAINTAINED ON A CONTINUAL BASIS.
4. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/3 THE HEIGHT OF THE BERM (4'±).

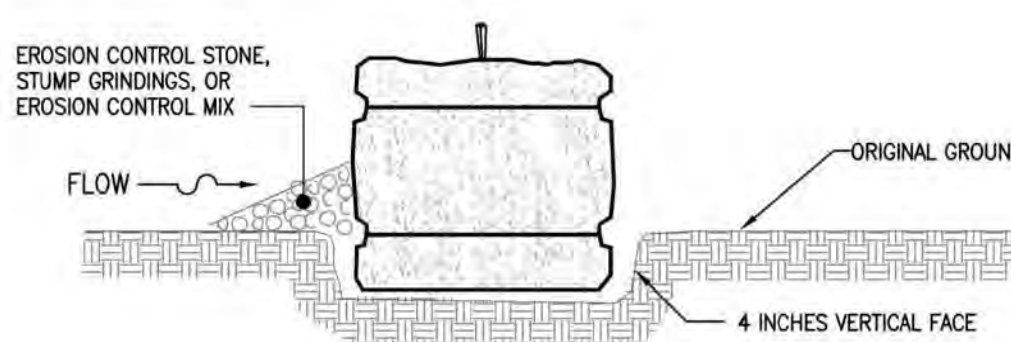
2 PERIMETER CONTROL ~ EROSION CONTROL MIX BERM (COMPOST BERM)
C2.14 - SCALE: NONE



NOTES:

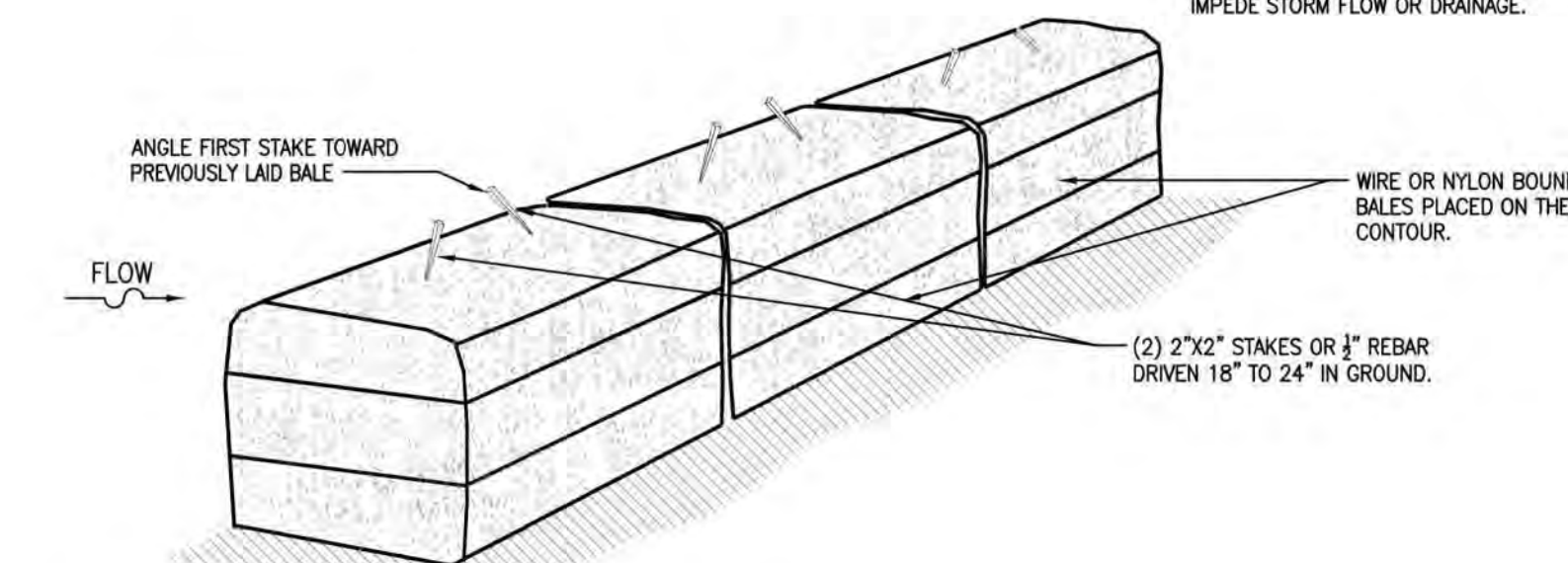
1. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED OR TRACKED ONTO PUBLIC APPROX. EXIT. RIGHT OF WAY MUST BE REMOVED PROMPTLY.
3. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

5 STABILIZED CONSTRUCTION ENTRANCE
C2.14 - SCALE: NONE

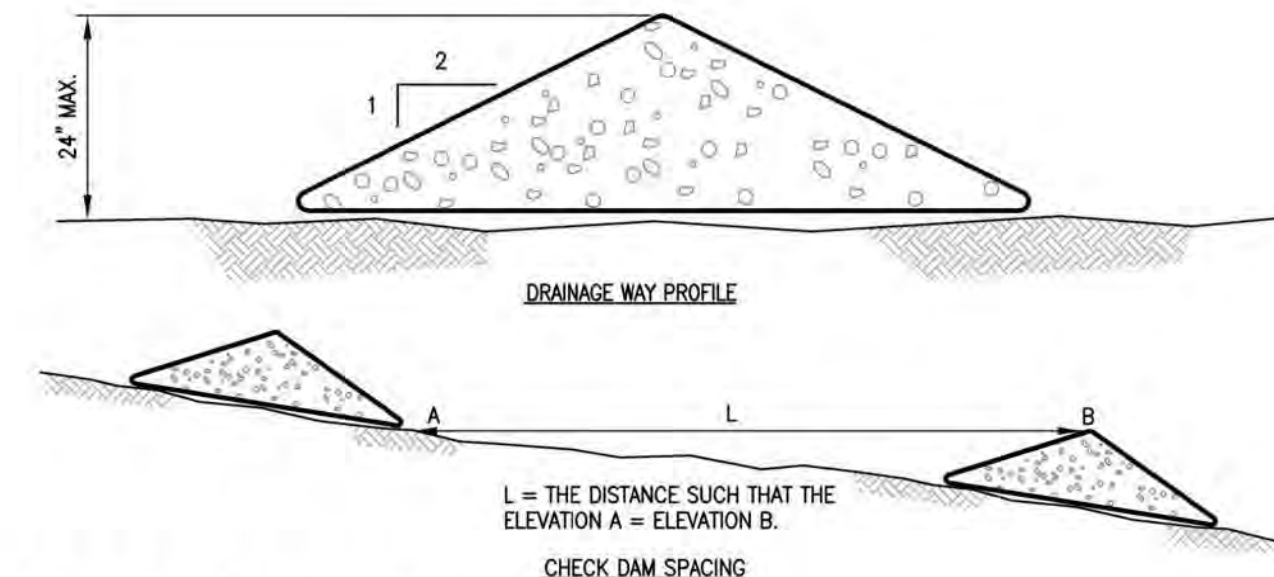
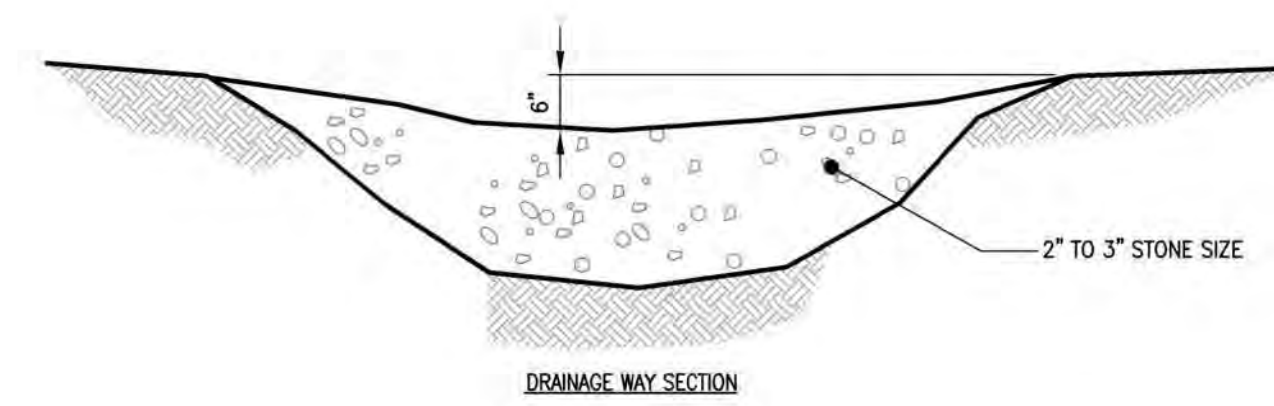


NOTES:

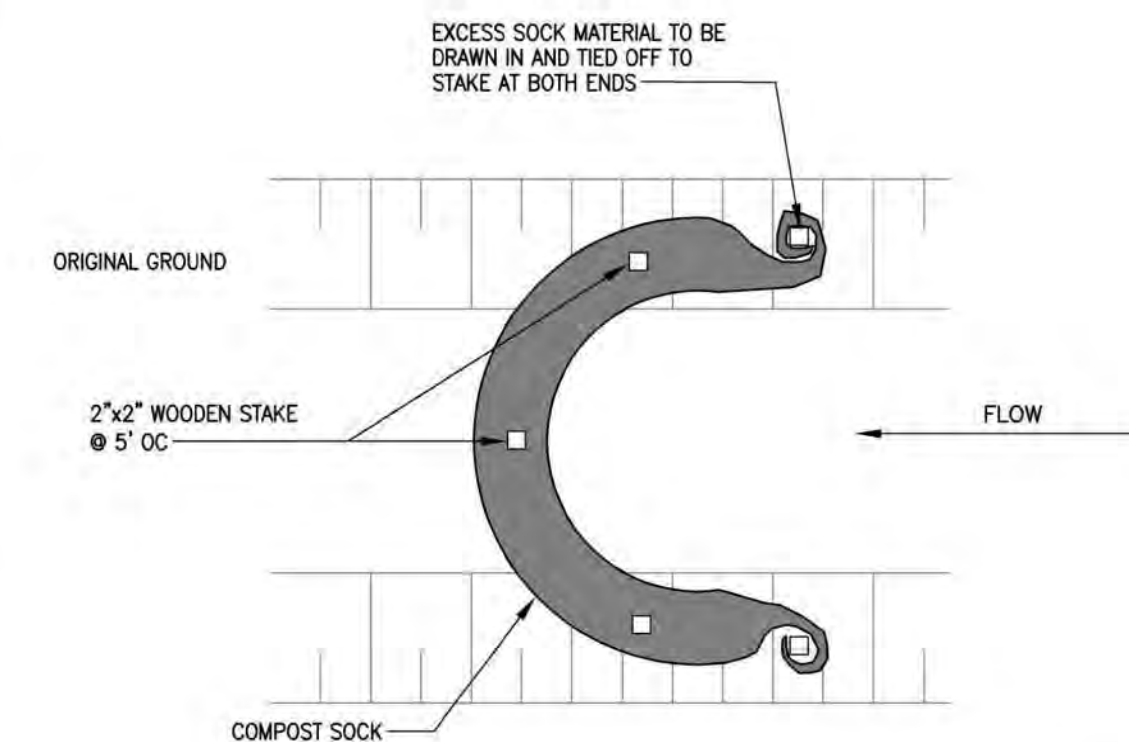
1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. SEE STAKEOUT PATTERN DETAILS, THIS SHEET.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL TO A MINIMUM OF 4 INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



8 HAYBALE BARRIER ANCHORING DETAIL
C2.14 - SCALE: NONE



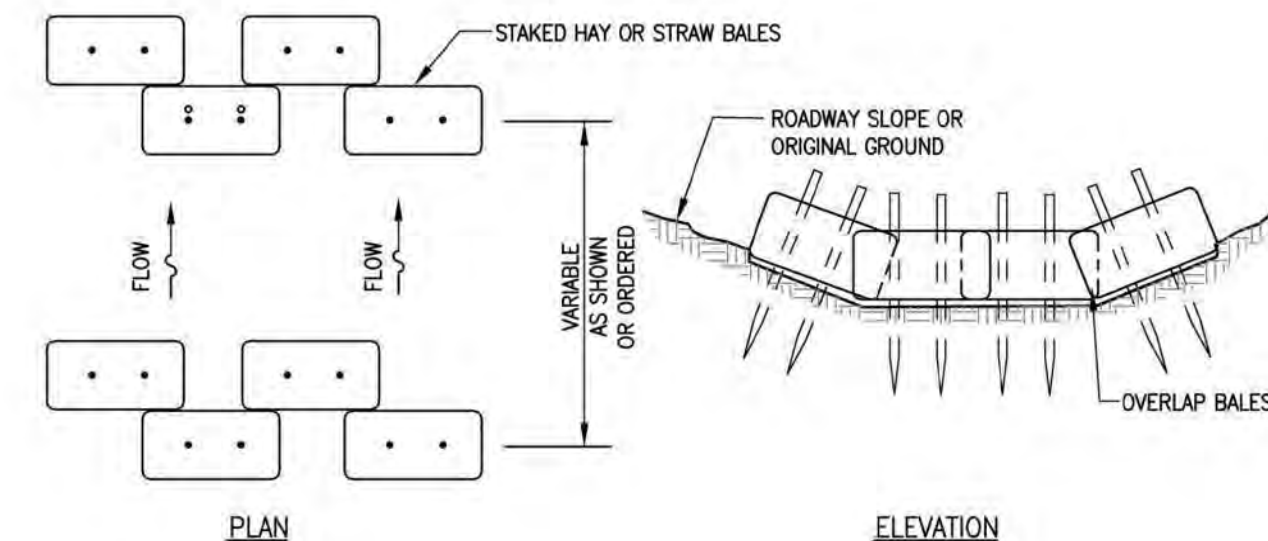
3 CHECK DAM ~ STONE
C2.14 - SCALE: NONE



NOTES:

1. COMPOST SOCK SHALL BE FILTREXX SILT SOCKS ORIGINAL 24".
2. CHECK DAM SHALL BE MAINTAINED ON A CONTINUAL BASIS.
3. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/3 THE HEIGHT OF THE SOCK (5'±).

6 CHECK DAM ~ COMPOST SOCK (TEMPORARY)
C2.14 - SCALE: NONE



NOTES:

1. BALES SHALL BE ANCHORED ACCORDING TO THE HAYBALE ANCHORING DETAIL.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL TO A MINIMUM OF 4 INCHES.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

9 CHECK DAM ~ HAYBALES
C2.14 - SCALE: NONE

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The H.L. Turner Group Inc.

27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
h:turner.com

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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.: 5387

SCALE: AS NOTED

DES. BY: DVB

DRAWN BY: MR/AGL

CHKD BY: DVB

ISSUE DATE: 07/16/25

REVISIONS

SHEET TITLE:
**EROSION PROTECTION &
SEDIMENTATION
CONTROL (EPSC) DETAILS**

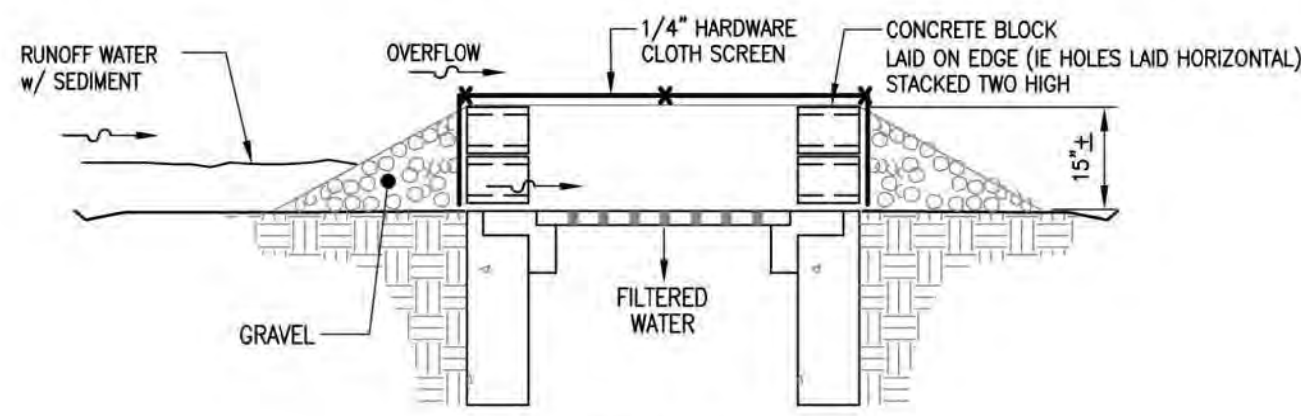
C2.14

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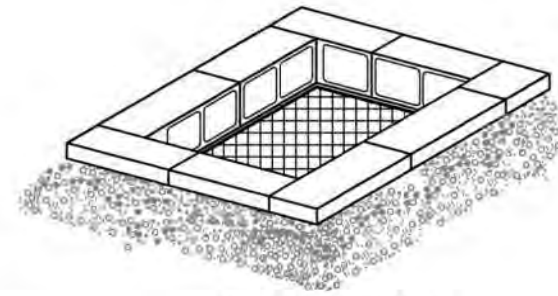
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SECTION VIEW

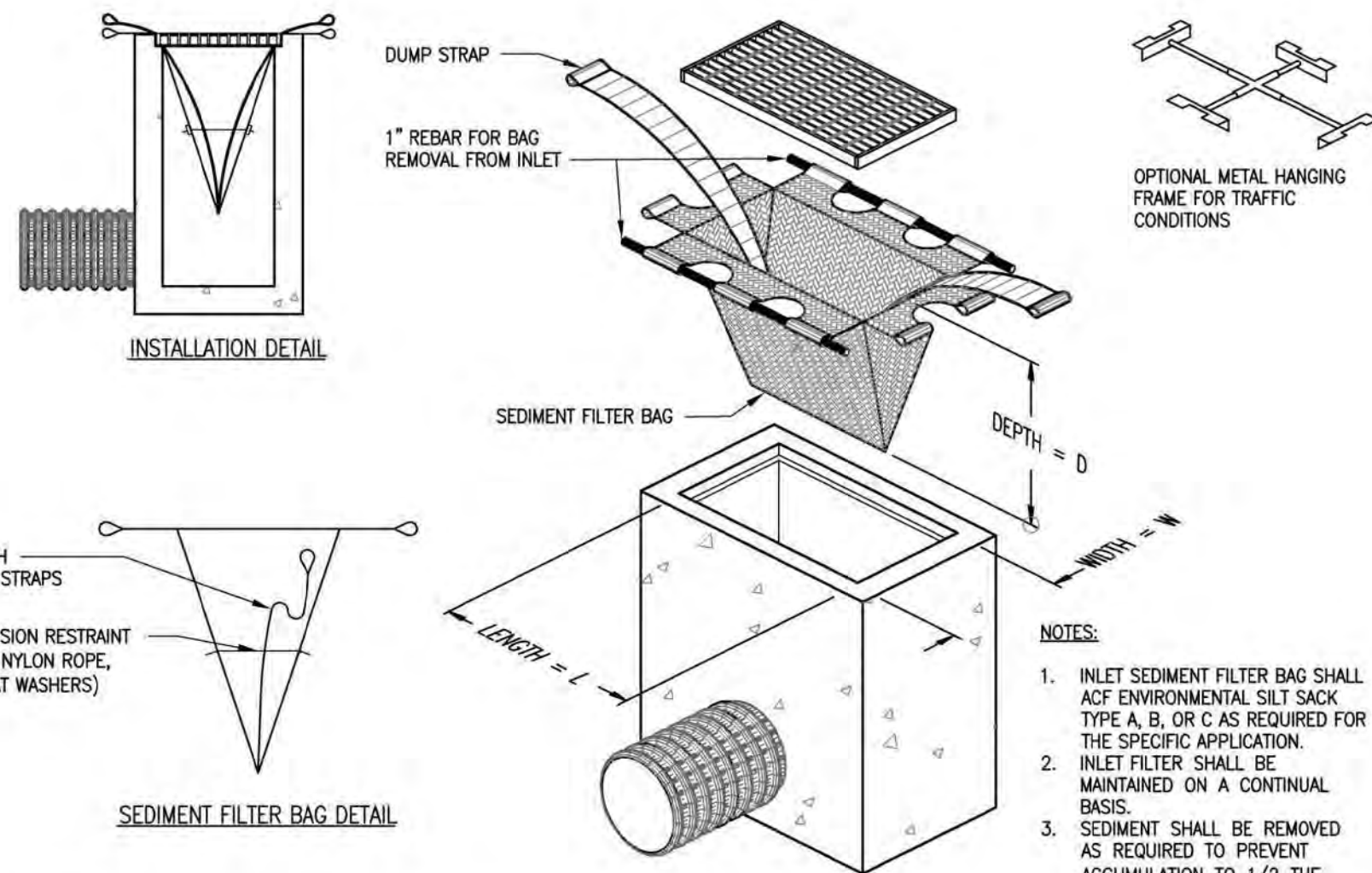


ISOMETRIC VIEW

NOTES:

1. GRAVEL SHALL BE 1-1/2" CRUSHED STONE.
2. FILTER SHALL BE MAINTAINED ON A CONTINUAL BASIS.
3. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/2 THE HEIGHT OF THE GRAVEL (7±).

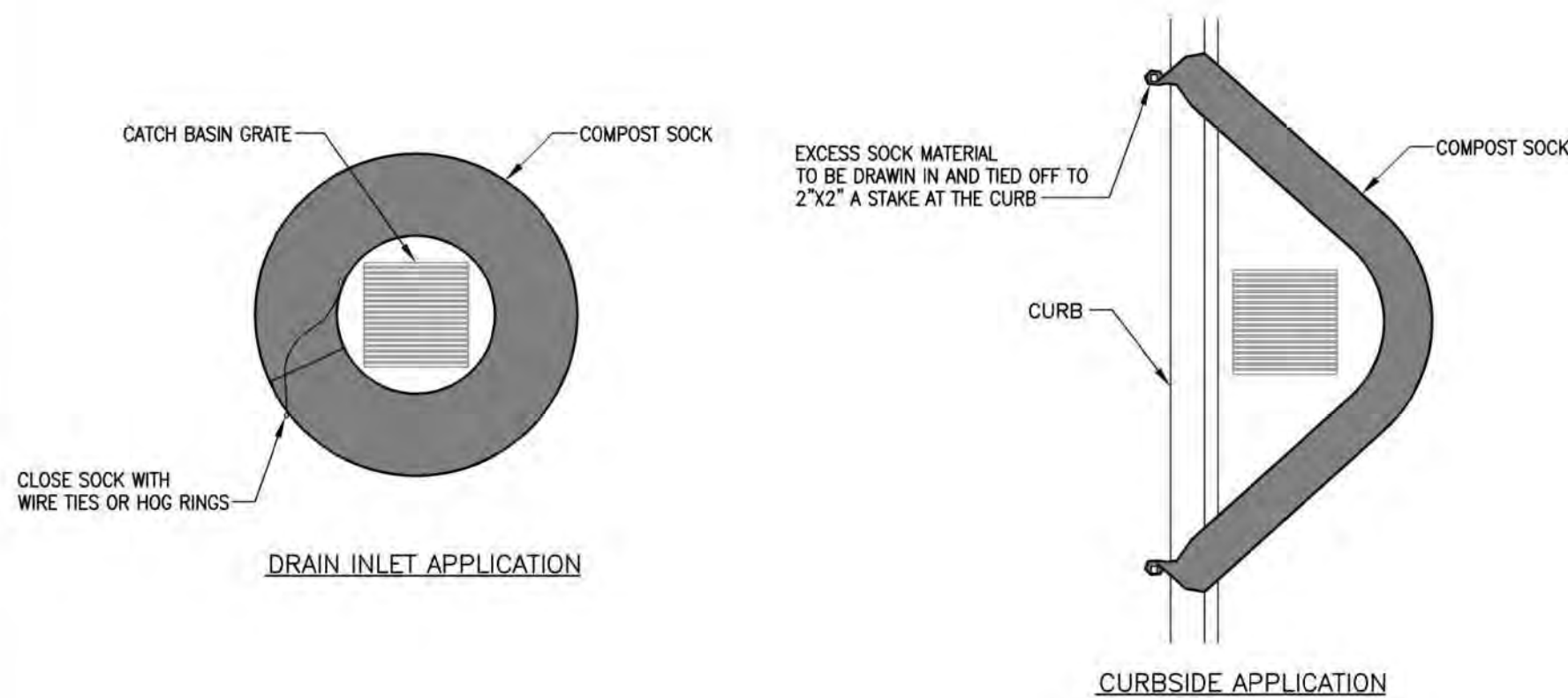
1 INLET PROTECTION ~ BLOCK AND GRAVEL FILTER
C2.15 - SCALE: NONE



NOTES:

1. INLET SEDIMENT FILTER BAG SHALL ACF ENVIRONMENTAL SILT SOCK TYPE A, B, OR C AS REQUIRED FOR THE SPECIFIC APPLICATION.
2. INLET FILTER SHALL BE MAINTAINED ON A CONTINUAL BASIS.
3. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/2 THE HEIGHT OF THE BAG.

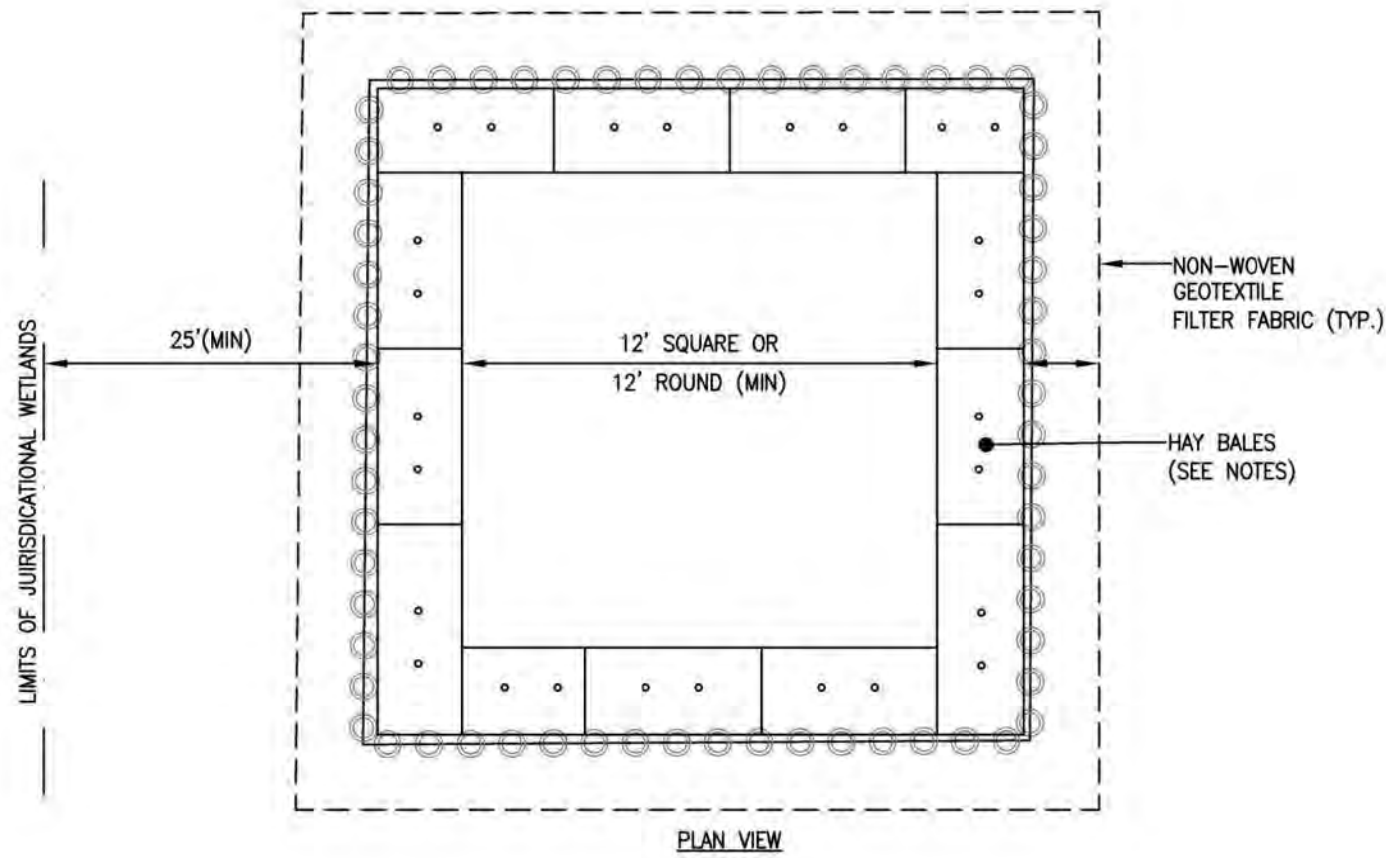
2 INLET PROTECTION ~ SEDIMENT FILTER BAG
C2.14 - SCALE: NONE



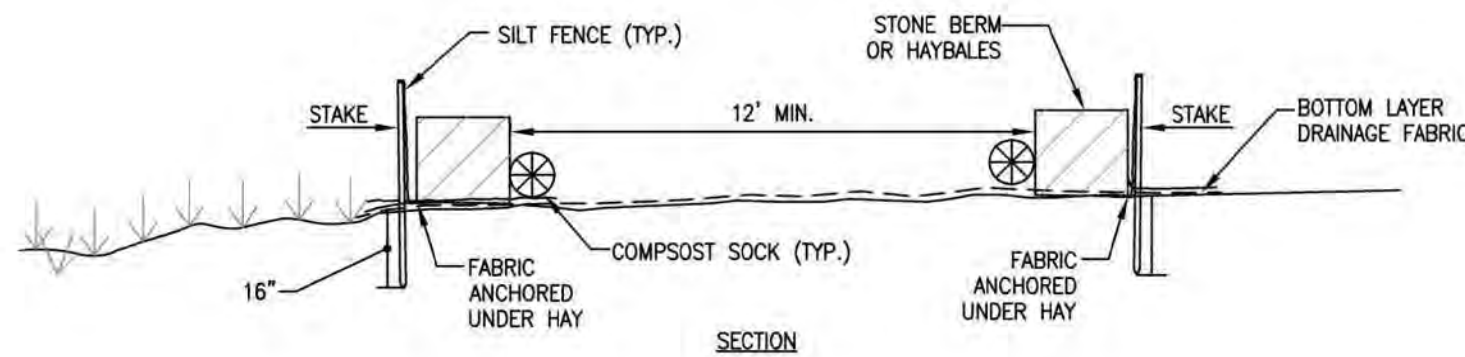
NOTES:

1. COMPOST SOCK SHALL BE FILTREXX SILTSOCXX ORIGINAL 8".
2. COMPOST SOCK MUST SHALL BE MAINTAINED ON A CONTINUAL BASIS.
3. SEDIMENT SHALL BE REMOVED AS REQUIRED TO PREVENT ACCUMULATION TO 1/3 THE HEIGHT OF THE SOCK (2±).

5 INLET PROTECTION ~ COMPOST SOCK
C2.14 - SCALE: NONE



PLAN VIEW

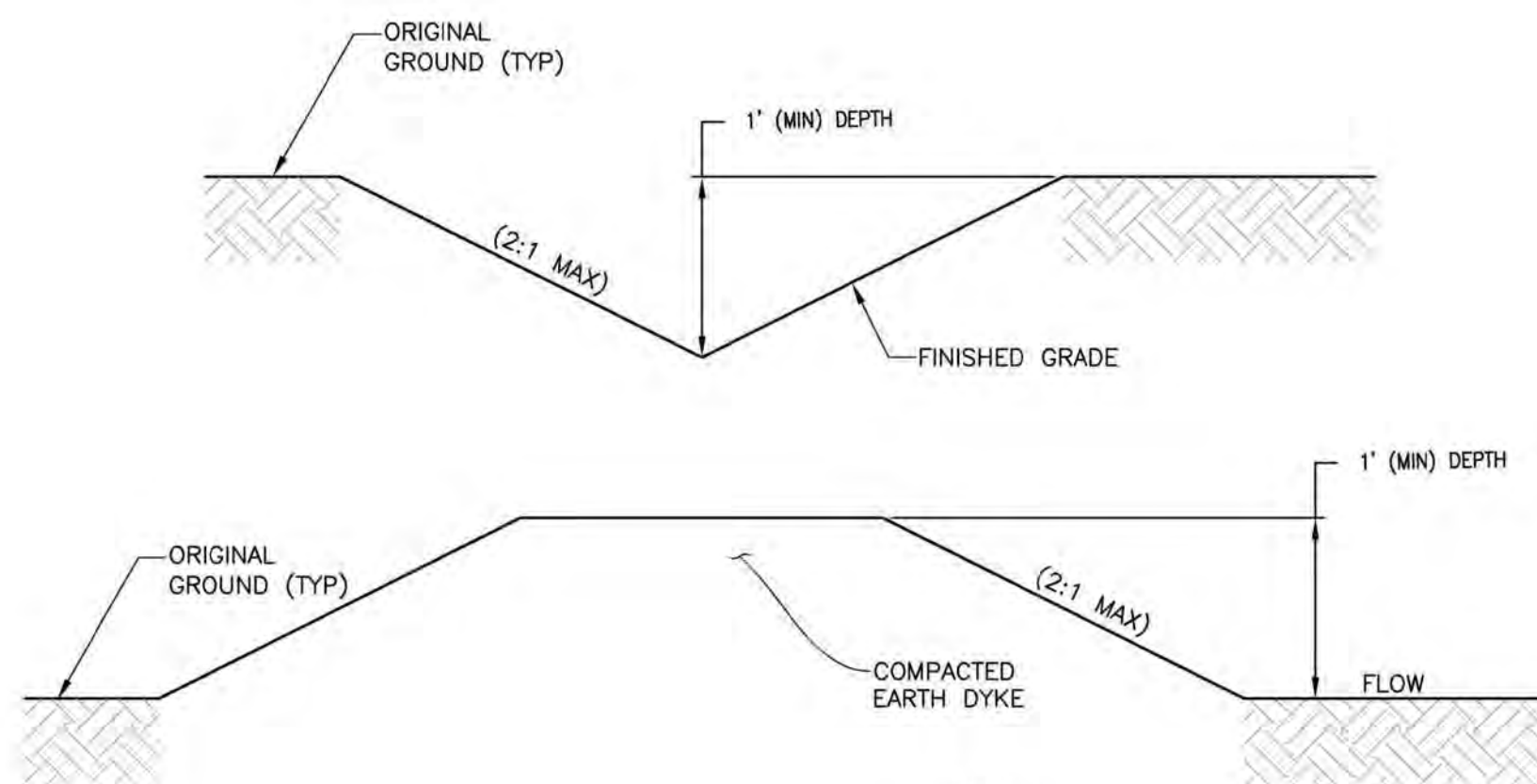


SECTION

NOTES:

1. PLACE BOTTOM LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUAL).
2. CONSTRUCT TEMPORARY HAY OR STONE BERM ON TOP OF FILTER FABRIC.
3. CONTRACTOR SHALL INSPECT DISCHARGE REGULARLY FOR LADEN SEDIMENT. CONTRACTOR SHALL CLEAN ACCUMULATED SEDIMENT WITHIN BASIN AND DISPOSE OF MATERIAL. CONTRACTOR SHALL REPLACE TOP LAYER OF FABRIC AS NECESSARY TO MAINTAIN PROPER FILTRATION.
4. AFTER TERMINATION OF ACTIVITIES REQUIRING TEMPORARY FILTRATION BASIN, ALL MATERIALS USED FOR CONSTRUCTION OF THE BASIN AND ANY TRAPPED SEDIMENT SHALL BE REMOVED. ANY DISTURBED AREAS SHALL BE RESTORED.

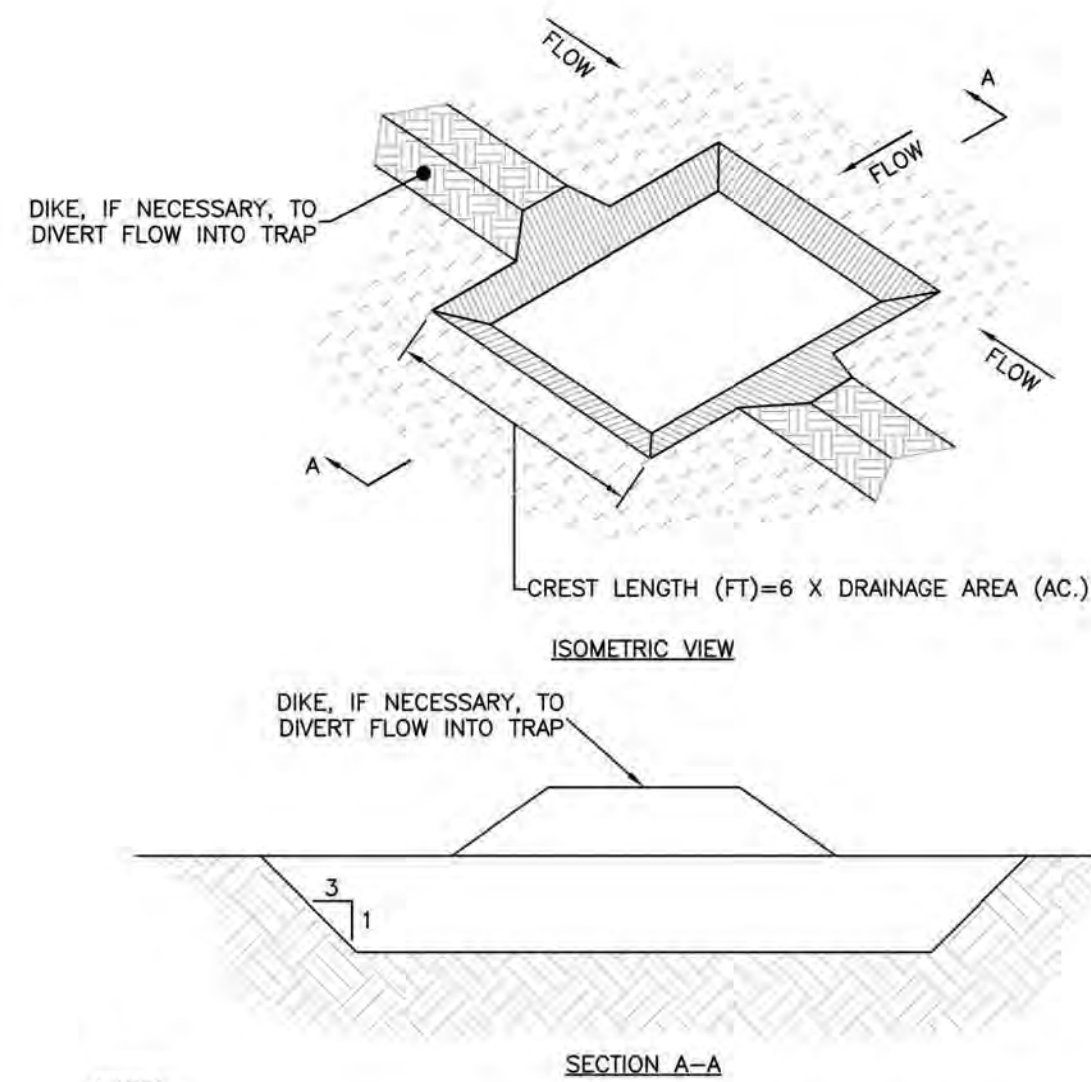
3 TEMPORARY SETTLEMENT BASIN (FOR DEWATERING OR PUMP DISCHARGE)
C2.14 - SCALE: NONE



NOTES:

1. DIVERSION SWALE AND/OR DIKE SHALL BE STABILIZED WITH EROSION STONE (ITEM NO. 545.3), TEMPORARY CHANNEL MATTING (ITEM NO. 645.471), AND/OR TEMPORARY OR PERMANENT SEEDING.
2. DIVERSION SWALES SHALL BE MAINTAINED IN ACCORDANCE WITH THE NH STORMWATER MANUAL REQUIREMENTS.

6 TEMPORARY DIVERSION SWALE/DYKE
C2.14 - SCALE: NONE

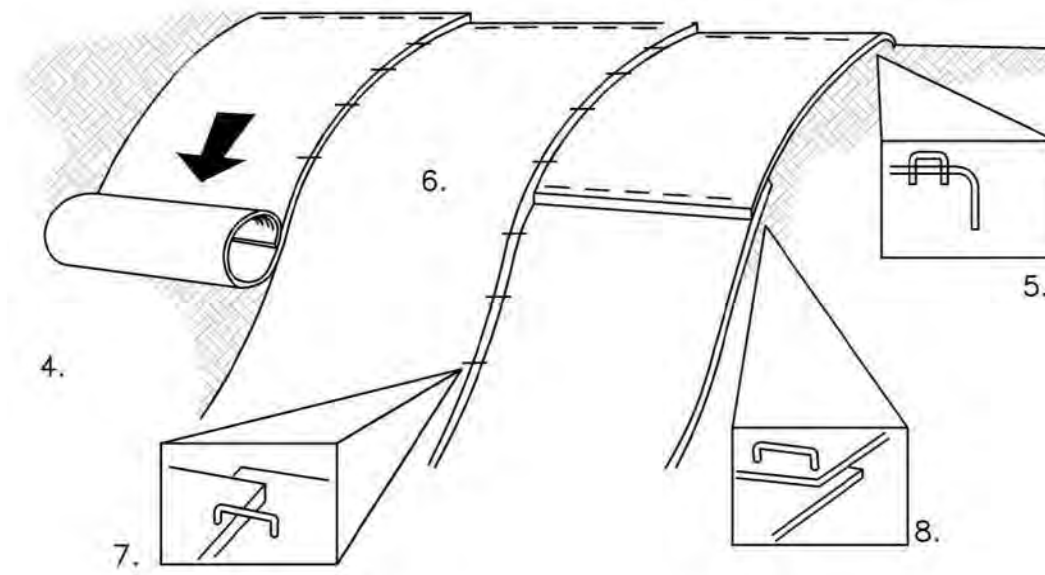


SECTION A-A

NOTES:

1. SEDIMENT TRAPS SHOULD BE LOCATED SO THEY CAN BE INSTALLED PRIOR TO DISTURBING THE AREA THEY ARE TO PROTECT.
2. THE TRAP SHOULD BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
3. THE MAXIMUM CONTRIBUTING AREA TO THE TRAP SHOULD BE LESS THAN 5 ACRES.
4. THE MINIMUM VOLUME OF THE TRAP SHOULD BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
5. THE SIDE SLOPES OF THE TRAP SHOULD BE 3:1 OR FLATTER, AND SHOULD BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
6. REFER TO THE NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOL. 3: CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008 FOR COMPLETE INFORMATION.

4 TEMPORARY SEDIMENT TRAP
C2.14 - SCALE: NONE



CONSTRUCTION REQUIREMENTS AND SLOPE APPLICATIONS:

1. MATS SHALL BE STRAW/COCONUT FIBER EROSION CONTROL TURF REINFORCEMENT MAT SUCH AS NORTH AMERICAN GREEN SC150BN OR EQUAL.
2. THE USE OF ANY EROSION CONTROL MAT WHICH CONTAINS ANY WELDED PLASTIC OR BIODEGRADABLE PLASTIC THREAD OR NETTING IS STRICTLY PROHIBITED.
3. THE EROSION CONTROL MATERIAL(S) SHALL BE ANCHORED WITH "U" SHAPED 11 GAUGE WIRE STAPLES OR WOODEN STAKES WITH A MINIMUM TOP WIDTH OF 1" AND A LENGTH OF 6".
4. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
5. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROLL OF STAPLES OR STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET WITH A ROW OF STAPLES/STAKES PLACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
6. ROLL THE BLANKETS DOWN THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES OR STAKES IN APPROPRIATE LOCATIONS. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN.
7. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" OF OVERLAP DEPENDING ON THE BLANKET TYPE.
8. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE OVERLAPPED AREA APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE BLANKETS.

THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEEDED AND REMULCHED AS DIRECTED.

7 SLOPE STABILIZATION ~ EROSION CONTROL MATS
C2.14 - SCALE: NONE

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The H.L. Turner Group Inc.

27 Locke Rd.
Concord, New Hampshire 03301
t:603.228.1122
h:turner.com

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PROJECT TITLE / ADDRESS:
**BEAVER MEADOW
GOLF FACILITY
PARKING LOT RENOVATIONS**

**1 BEAVER MEADOW DRIVE
CONCORD, NH 03301**

ISSUE:

PERMITTING

PROJ. NO.:	5387	STAMP
SCALE:	AS NOTED	STATE OF NEW HAMPSHIRE
DES. BY:	DVB	DOUGLAS BRODEUR
DRAWN BY:	MR/AGL	No. 12986
CHKD BY:	DVB	LICENSED PROFESSIONAL ENGINEER
ISSUE DATE:	07/16/25	

REVISIONS

SHEET TITLE:
**EROSION PROTECTION &
SEDIMENTATION
CONTROL (EPSC) DETAILS**

C2.15

[illegible][illegible]

REVISIONS



C2.16

A

C

D

A

C

D



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PROJECT TITLE / ADDRESS:

BEAVER MEADOW GOLF FACILITY PARKING LOT RENOVATIONS

1 BEAVER MEADOW DRIVE
CONCORD, NH 03301

ISSUE:

PERMITTING

PROJ. NO.:	5387	\$
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SCALE: AS NOTED

DESN. BY: DVB

DRAWN BY: MR/AGL

CHKD BY: DVB

ISSUE DATE: 07/16/25

REVISIONS

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SHEET TITLE:

TEST PITS A

BORING LOG

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2

C4

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C2.17

P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility\Drawings\01_Civil\5387 Lighting & Photometrics Plans.dwg

4

3

2

1



Scale: 1 inch= 40 Ft.

DESIGN NOTES:

1. MOUNTING HEIGHTS: 15' AFF
2. MEASUREMENTS TAKEN 0" AFF
3. SURFACE REFLECTANCE: .5

Note on this Design:
This report makes no representations in regard to Lighting Design or Specification, rather it attempts to accurately reflect the photometric results of a design, as approved by others.

Note on these Photometric Calculations:
This analysis is a mathematical model and can be only as accurate as is permitted by the third-party software and the IES standards used. All digital CAD data appear to be accurate, however, this apparent accuracy is an artifact of the techniques used to generate it and is in no way intended to imply accuracy in the real world.

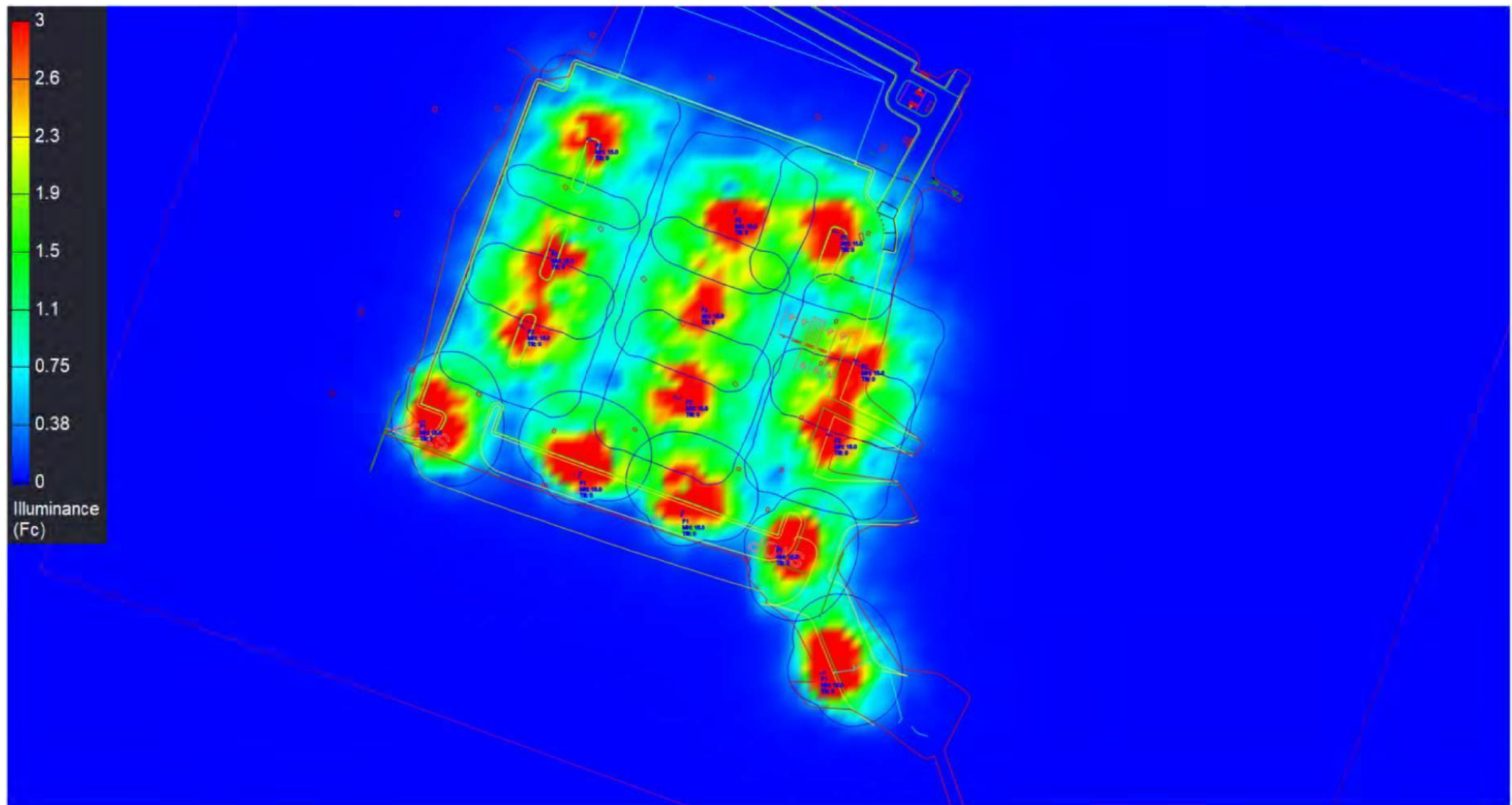
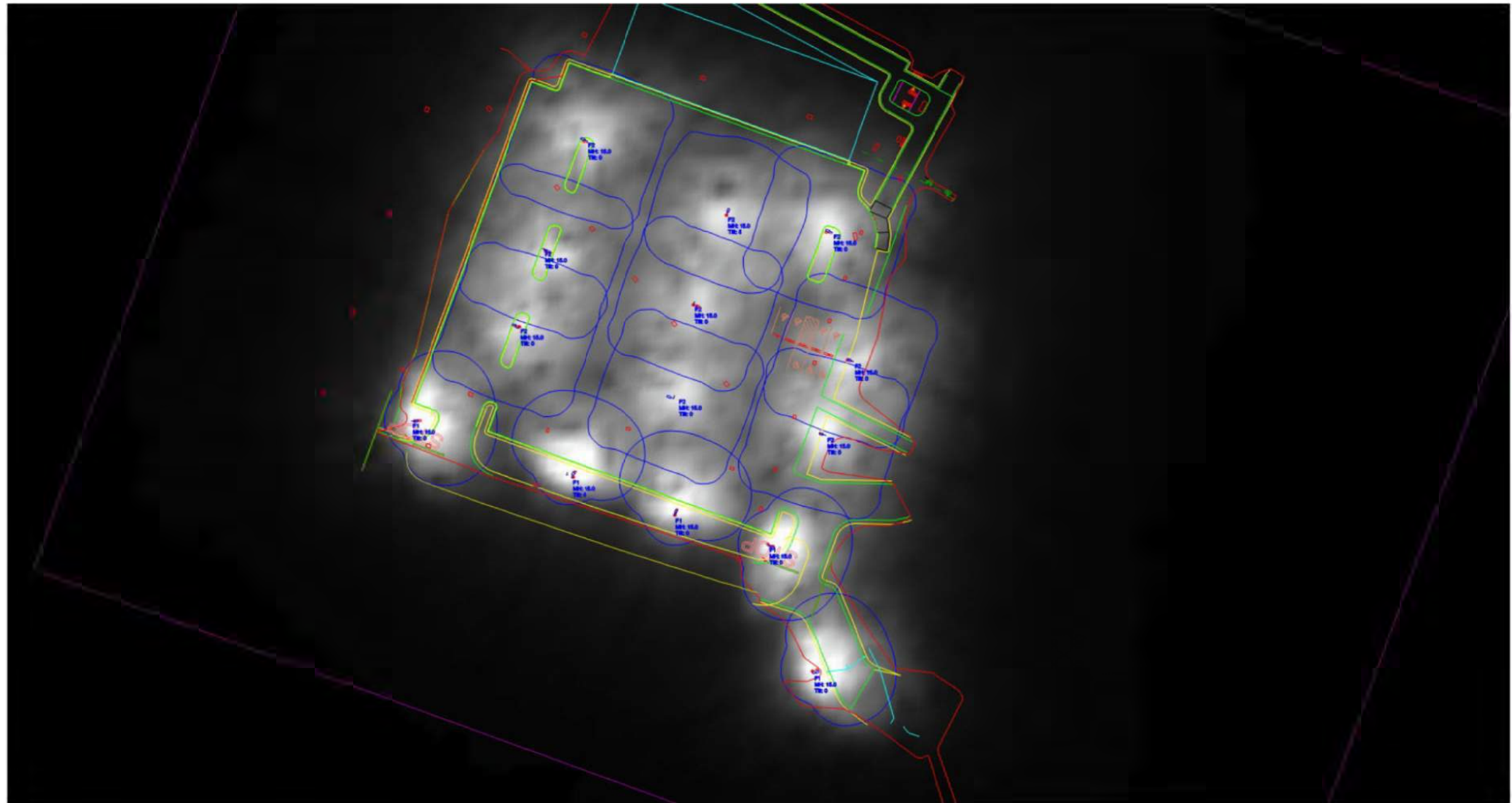
There are many factors that will impact the actual performance of Lighting in the constructed space, including: the accuracy of the original source (.ies) files supplied by the manufacturer, input voltage ballast variances, actual finish values in the constructed environment, manufacturing variations in both the source (lamp) and the luminaire, final luminaire placement, obstructions, and installation quality. Further, field measurement itself is subject to errors arising from measuring methods and/or technology selected, and the knowledge/ability of the measuring party. While the creator of this lighting study makes every effort to ensure accuracy, they cannot be held liable for any errors. The recipient of this lighting study understands and accepts that the likelihood of scaling error increases when no .DWG file or other properly-dimensioned drawing is provided to the designer.

Reflective Values have a significant effect on light levels, the end-user of the document should confirm these values before accepting the results of any photometric report. The managing contractor/architect/engineer is responsible for ensuring compliance to all relevant lighting ordinance(s) and energy codes required on this project.

LIGHTING DETAILS:

Luminaire Schedule						
Label	Symbol	Qty	LLF	Description	Luminaire Lumens	Luminaire Watts
F1		5	0.900	OPF-S-A05-740-T4M	17247	104.3
F2		9	0.900	OPF-S-A06-740-T5W	19315	122.2

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
PARKING LOT	Illuminance	Fc	2.44	9.9	0.5	4.88	19.80	0



Beaver Meadow Golf Parking - Phase 1

Date:8/19/2024
Drawn By: SBM
Revision #: 0
Page 1 of 2



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DESN. BY:	DVB		
DRAWN BY:	MR/AGL		
CHKD BY:	DVB		
ISSUE DATE:	07/16/25		

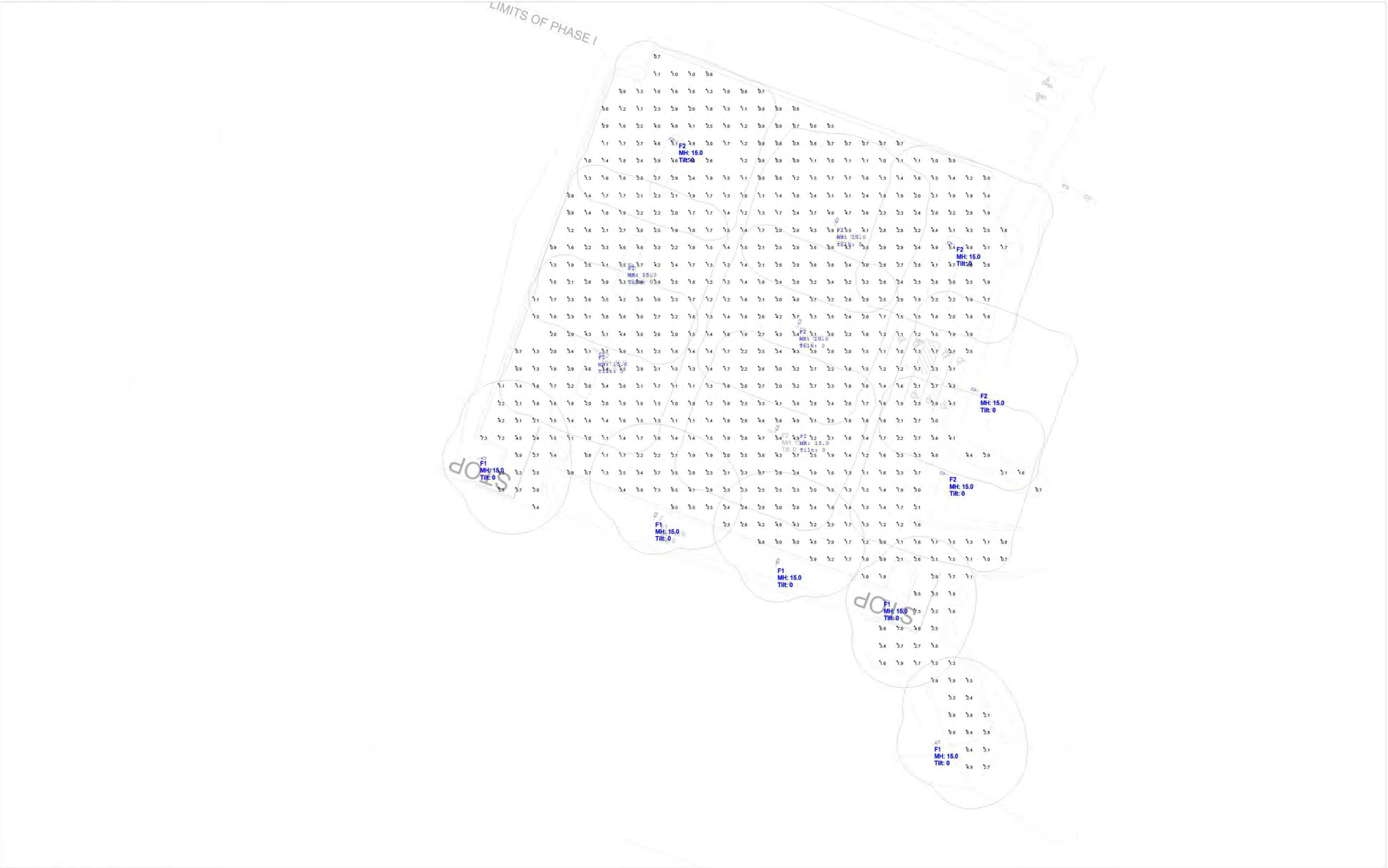
REVISIONS		

SHEET TITLE:
**LIGHTING & PHOTO
METERIC'S PLAN
PHASE 1**

LT-1

P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility\Drawings\01_Civil\5387 Lighting & Photometrics Plans.dwg

Overall Layout:



Scale: 1 inch= 25 Ft.

Beaver Meadow Golf Parking - Phase 1

Date:8/19/2024
Drawn By: SBM
Revision #: 0
Page 2 of 2



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ISSUE DATE:	07/16/25	

REVISIONS	

SHEET TITLE:
**LIGHTING & PHOTO
METERIC'S PLAN
PHASE 1**

LT-2

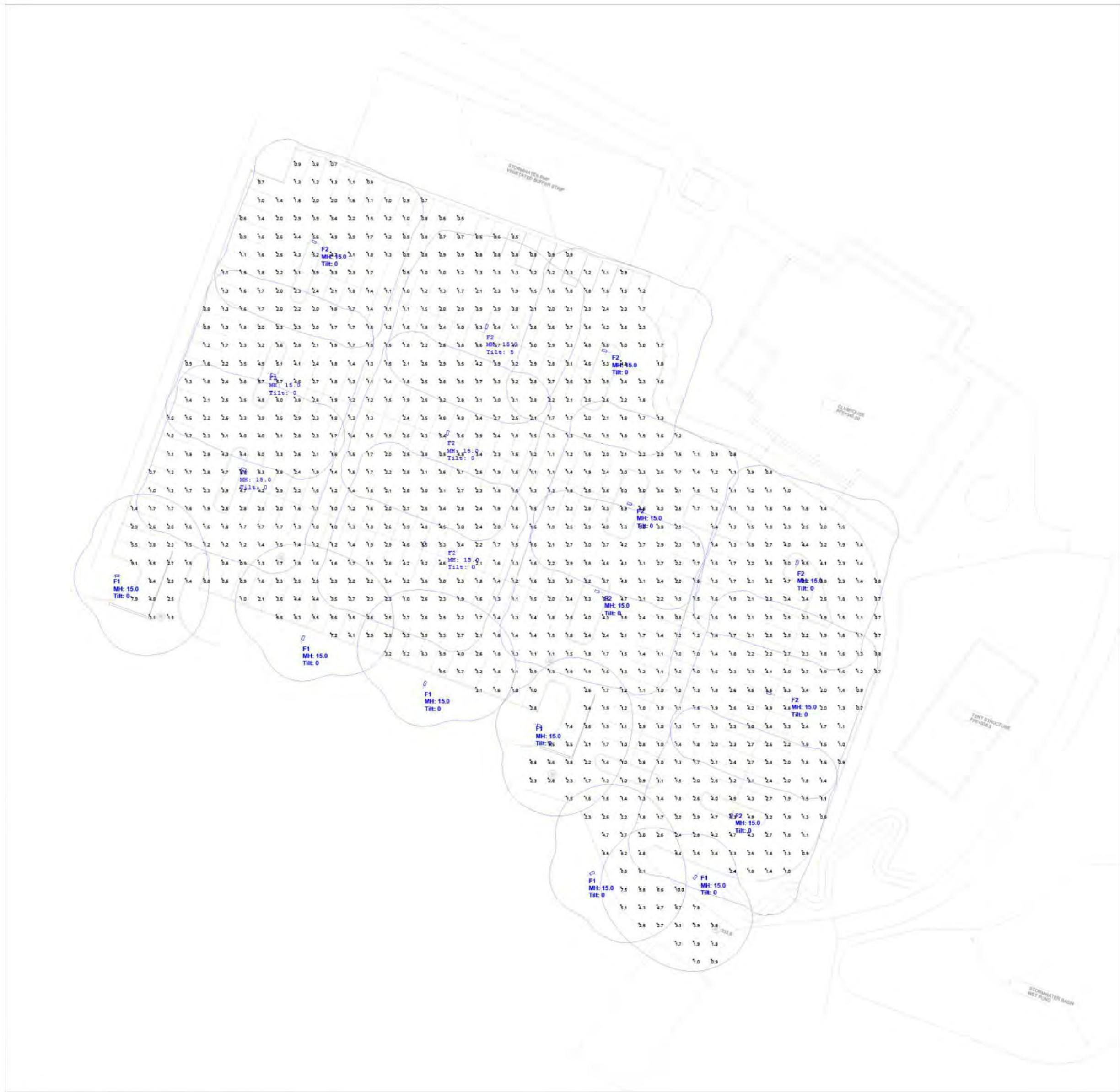
P:\5387 Beaver Meadow - New Golf Course Clubhouse Facility\Drawings\01_Civil\5387 Lighting & Photometrics Plans.dwg

4

3

2

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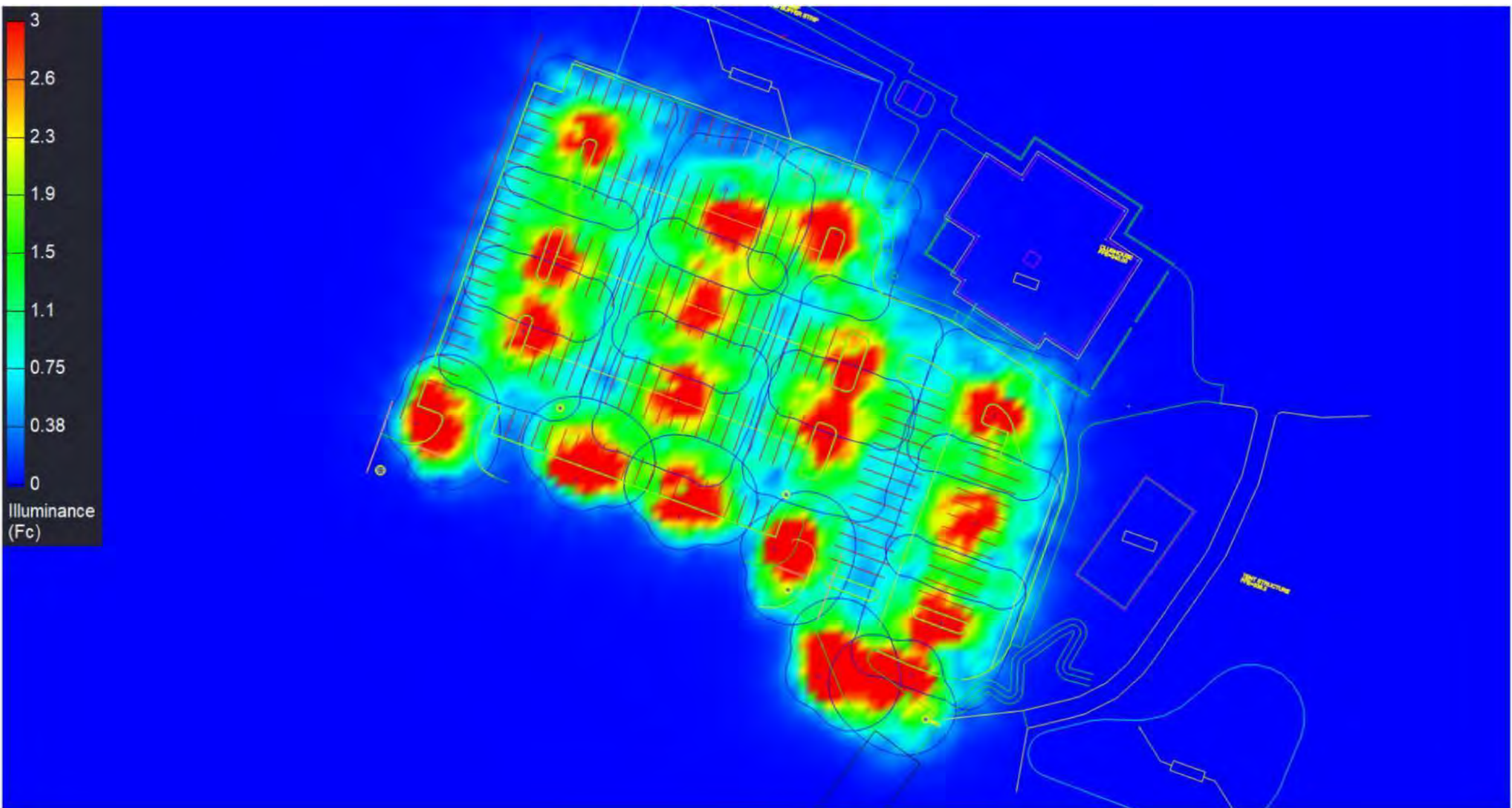
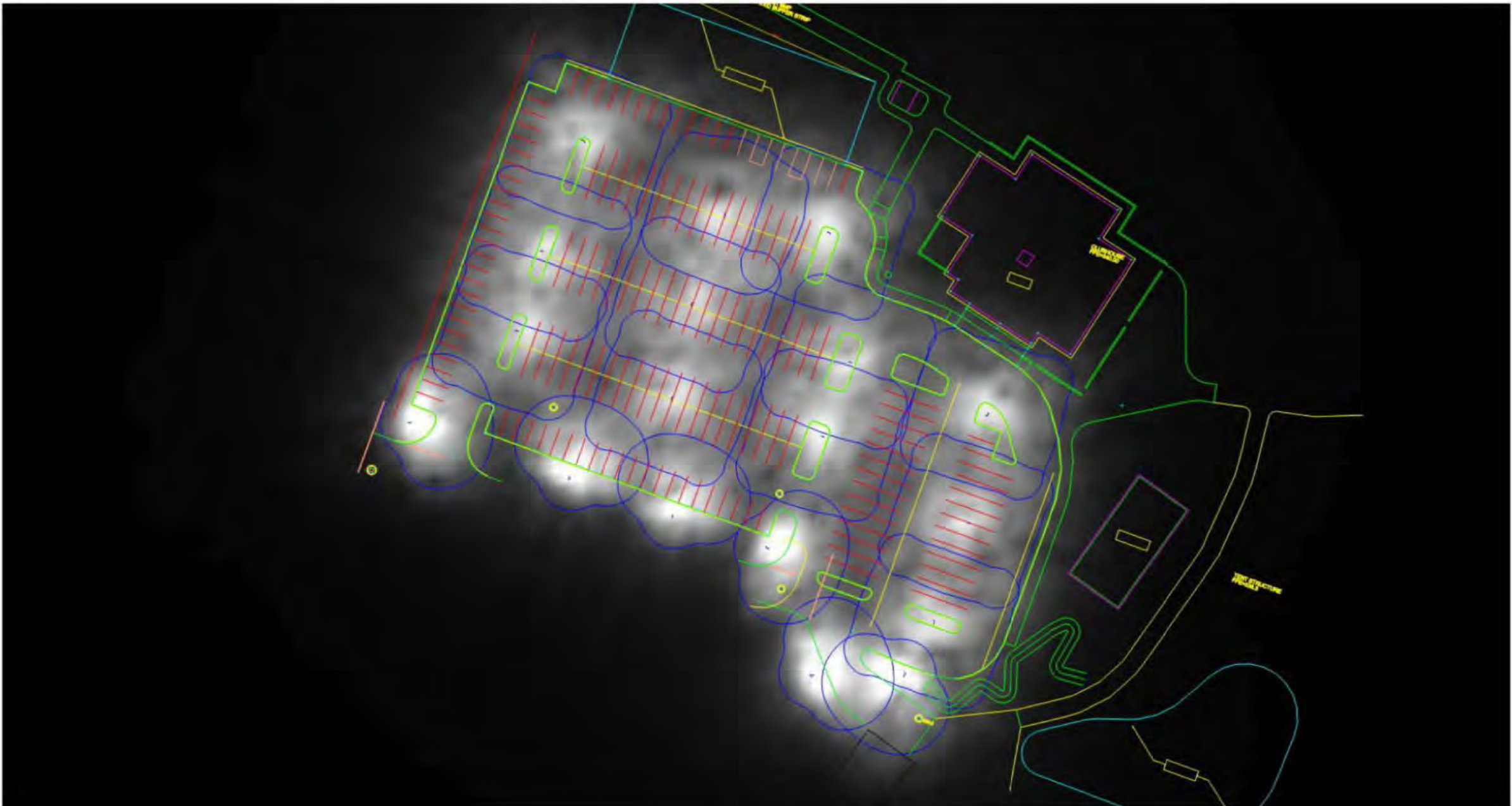
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Label	Symbol	Qty	LLF	Description	Luminaire Lumens	Luminaire Watts
F1		6	0.900	OPF-S-A05-740-T4M	17247	104.3
F2		12	0.900	OPF-S-A06-740-T5W	19315	122.2

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
PARKING LOT	Illuminance	Fc	2.43	10.0	0.5	4.86	20.00	0



Beaver Meadow Golf Parking - Phase 2

Date:8/19/2024
Drawn By: SBM
Revision #: 1
Page 1 of 2



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CHKD BY:	DVB		
ISSUE DATE:	07/16/25		

REVISIONS									

SHEET TITLE:
LIGHTING & PHOTO
METERIC'S PLAN
PHASE 2

LT-3

Scale: 1 inch= 25 Ft.



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LT-4