Standard Soil Erosion and Sediment Control Notes

1. Control measures shall meet the minimum standards and specifications of the *Illinois Urban Manual* (www.aiswcd.org/IUM) unless stated otherwise.
2. Soil disturbance shall be conducted in such a manner as to minimize erosion. Areas of the development site that are not to be disturbed shall be protected from construction traffic or other disturbance until final stabilization is achieved.
3. Soil stabilization measures shall consider the time of year, development site conditions and the use of temporary or permanent measures.
4. Stabilization by seeding shall include topsoil placement and fertilization, as necessary.
5. Native seed mixtures shall include rapid-growing annual grasses or small grains to provide initial, temporary soil stabilization.
6. Offsite property shall be protected from erosion and sedimentation. Velocity dissipation devices shall be placed at concentrated discharge locations and along the length of any outfall channel, as necessary to prevent erosion.
7. Sediment control measures shall be installed prior to the disturbance of tributary areas.
8. Stabilization of disturbed areas shall be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the development site, or temporarily ceased on any portion of the development site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas shall be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible, but not later than 14 calendar days from the initiation of stabilization work in an area. Exceptions to these time frames are specified below:
   a. Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable; and
   b. In areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method may be used.
9. Disturbance of steep slopes shall be minimized. Areas or embankments having slopes steeper than 3:1 shall be stabilized with staked in place sod, erosion control blanket in combination with seeding, or an equivalent control measure.
10. Perimeter control measures shall be provided downslope and perpendicular to the flow of runoff from disturbed areas, where the tributary area is greater than 5,000 square feet, and where runoff will flow in a sheet flow manner. Perimeter erosion control shall also be provided at the base of soil stockpiles.
11. The stormwater management system shall be protected from erosion and sedimentation downslope from disturbed areas. Inlet protection that reduces sediment loading, while allowing runoff to enter the inlet shall be required for all storm sewers. Check dams, or an equivalent control measure, shall be required for all channels. Filter fabric inlet protection and straw bale ditch checks are not acceptable control measures.
12. If dewatering services are used, discharges shall be routed through an effective sediment control measure (e.g., sediment trap or an equivalent control measure). The Enforcement Officer shall be notified prior to the commencement of dewatering activities.
13. All temporary soil erosion and sediment control measures shall be removed within 30 days after final stabilization of the development site is achieved or after the temporary measures are no longer necessary. Trapped sediment shall be removed and disturbed areas shall be permanently stabilized.
14. Stockpiled soil and materials shall be removed from flood hazard areas at the end of each work day. Soil and materials stockpiled in IWMC or buffer areas shall be placed on timber mats, or an equivalent control measure.
15. Effective control measures shall be utilized to minimize the discharge of pollutants from the development site. At a minimum, control measures shall be implemented in order to:
   a. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash water; and
   b. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, vehicle fluids, sanitary waste, and other materials present on the development site to precipitation and to stormwater.
16. Adequate receptacles shall be provided for the depositing of all construction material debris generated during the development process. The applicant shall not cause or permit the dumping, depositing, dropping, throwing, discarding or leaving of construction material debris upon or into any development site, channel, or IWMC. The development site shall be maintained free of construction material debris.
17. The Enforcement Officer may require additional or alternate soil erosion and sediment control measures, based on development site specific considerations and the effectiveness of the installed control measures.

Standard Drain Tile Notes

1. Drain tiles disturbed during regulated development shall be reconnected by those responsible for their disturbance, unless the development plans specify abandonment of the drain tiles.
2. All abandoned drain tiles within disturbed areas shall be removed in their entirety.
3. Drain tiles within the disturbed area of a development site shall be replaced, bypassed around the development site or intercepted and connected to the stormwater management system for the development site. The size of the replaced or bypassed drain tile shall be equivalent to the existing drain tile.

SITE BENCHMARK:

FOUND 1/2" IRON ROD @
SOUTHEAST CORNER OF PROPERTY
ELEV=896.82 (NAV88)

TOPOGRAPHY:

TOPOGRAPHY TAKEN FROM ELEVATIONS SHOT BY SCHMITT ENGINEERING ON 02/01/2024

IMPERVIOUS AND DISTURBANCE AREAS DATA:

EXISTING IMPERVIOUS	
COMMERCIAL BUILDING:	5,093 SQ.FT.
GRAVEL DRIVEWAY:	28,116 SQ.FT.
ASPHALT DRIVEWAY & SIDEWALK:	9,438 SQ.FT.
TOTAL EXISTING IMPERVIOUS:	42,647 SQ.FT.
PROPOSED IMPERVIOUS	
PAVEMENT REMOVED:	3,332 SQ.FT.
PAVEMENT ADDED:	435 SQ.FT.
COMMERCIAL BUILDING (WITHIN GRAVEL):	8,600 SQ.FT.
TOTAL PROP. IMPERVIOUS:	–2,897 SQ.FT.
TOTAL LOT SIZE:	63,188 ± SQ.FT. 1.45 ± ACRES
TOTAL IMPERVIOUS:	39,750 SQ.FT.
TOTAL IMPERVIOUS PERCENT:	62.9 %
SOIL DISTURBANCE:	30,600 SQ.FT.

LEGEND

Symbol	Description
●	MONUMENT
—∿→	PROPOSED FLOW DIRECTION
+885.52	EXISTING GRADE
+885.8	PROPOSED GRADE
AC	AIR CONDITIONING UNIT
E	ELECTRIC CONNECTION
G	GAS CONNECTION
W	WELL
⊠	UTILITY PEDESTAL
P.U.E.	PUBLIC UTILITY EASEMENT
B.S.L.	BUILDING SETBACK LINE
S.R.A.	SEPTIC RESTRICTED AREA
D.E.	DRAINAGE EASEMENT
◁	FLARED END SECTION
—)—	EXISTING STORM SEWER UTILITY
—x—	EXISTING FENCE
⇨	OVERLAND FLOW IN EXCESS OF STORM SEWER DESIGN

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A,B,C, D			*	*					
SODDING				G**								
TEMPORARY SEEDING			E									
DORMANT SEEDING												

STANDARD LAWN MIXTURE
A (1) KENTUCKY BLUEGRASS 50 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE AND CREEPING RED FESCUE 20 LBS/ACRE

SALT TOLERANT MIXTURE B
(1A) BLUE GRASS 30 LBS/ACRE PERENNIAL RYEGRASS 10 LBS/ACRE DAWSONS RED FESCUE 10 LBS ACRE SCALDIS HARD FESCUE 10 LBS/ACRE FULTS SALT GRASS 30 LBS/ACRE

LOW PROFILE NATIVE GRASS MIXTURE
C ANDROPOGON SCOPARIUS (LITTLE BLUE STEM) 5 LBS/ACRE BOUTELOVA CURTIPENDULA (SIDE OATS GRAMA) 5 LBS/ACRE ELYMUS CANADENENSIS (WILD RYE) 1 LBS/ACRE SPOROBOLUS HETEROLEPSIS (PRAIRIE DROPSEED) 0.5 LBS/ACRE ANNUAL RYE GRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE PERENNAL RYE GRASS 15 LBS/ACRE

WETLAND GRASS AND SEDGE MIXTURE.
D (4B) ANNUAL RYE GRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE

E CEREAL RYE 90 LBS/ACRE, OR WHEAT 90 LBS/ACRE, OR PERENNIAL RYEGRASS 25 LBS/ACRE

G SOD

* IRRIGATION NEEDED DURING JUNE AND JULY

** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

( ) IDOT STANDARD

STORM SEWER TAGS

R1. PROP. 2' DIA. CATCH BASIN
NEENAH R–5901 E OPEN GRATE LID
RIM = 889.40
INV = 887.21

R2. PROP. 60–LF 15" RCP STORM SEWER @ 1.3%

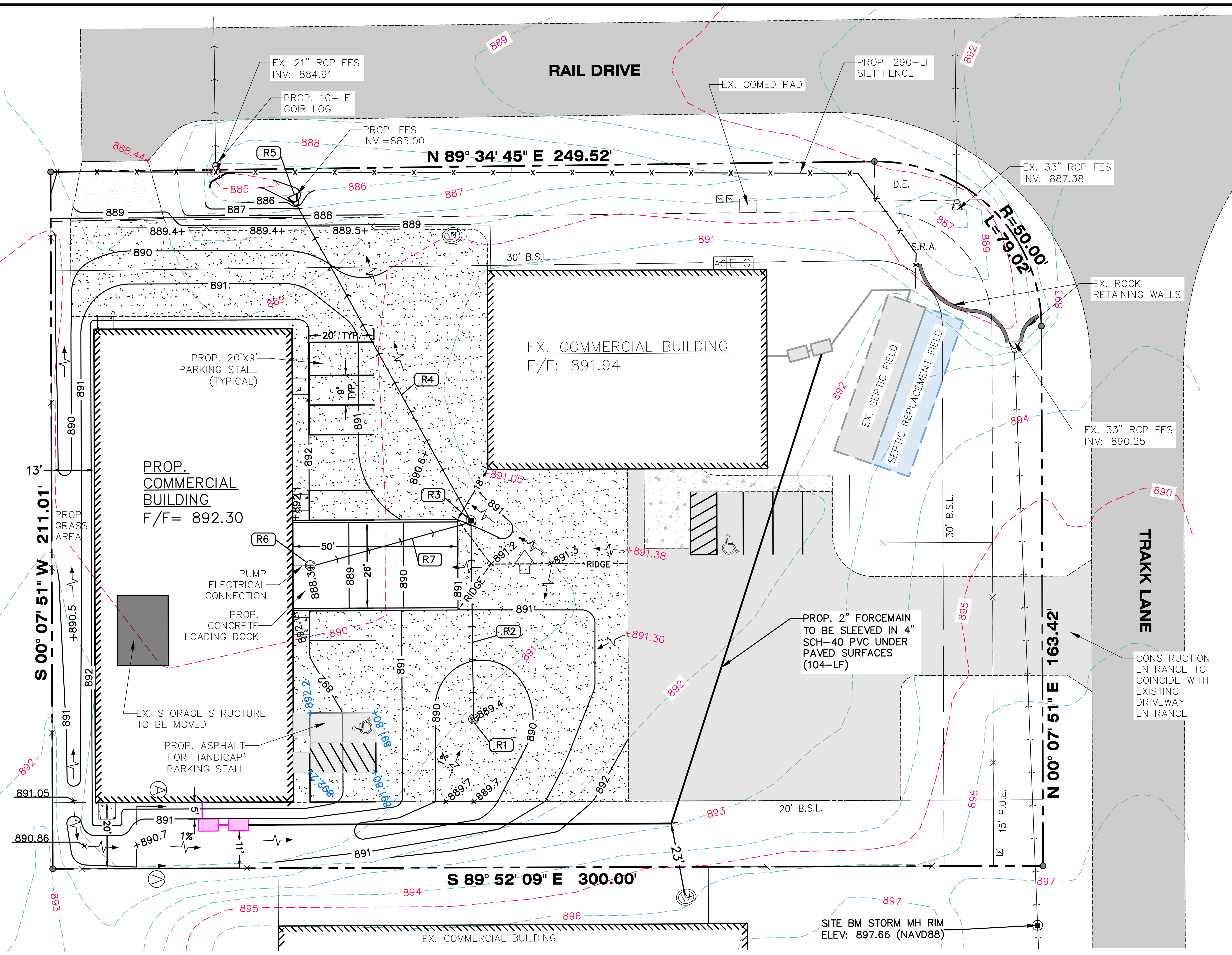
R3. PROP. 3' DIA. CATCH BASIN
NEENAH R–5901 H SOLID LID
RIM = 890.95
15" INV = 886.43
2" INV = 888.50

R4. PROP. 110–LF 15" RCP STORM SEWER @ 1.3%

R5. PROP. 15" FES W/ GRATE
INV=885.00

R6. PROP. 3' DIA. CATCH BASIN WITH A 1/3 HP EFFLUENT PUMP
NEENAH R–5901 H OPEN GRATE LID
RIM = 888.30
INV = 885.30

R7. PROP. 48–LF 2" FORCEMAIN



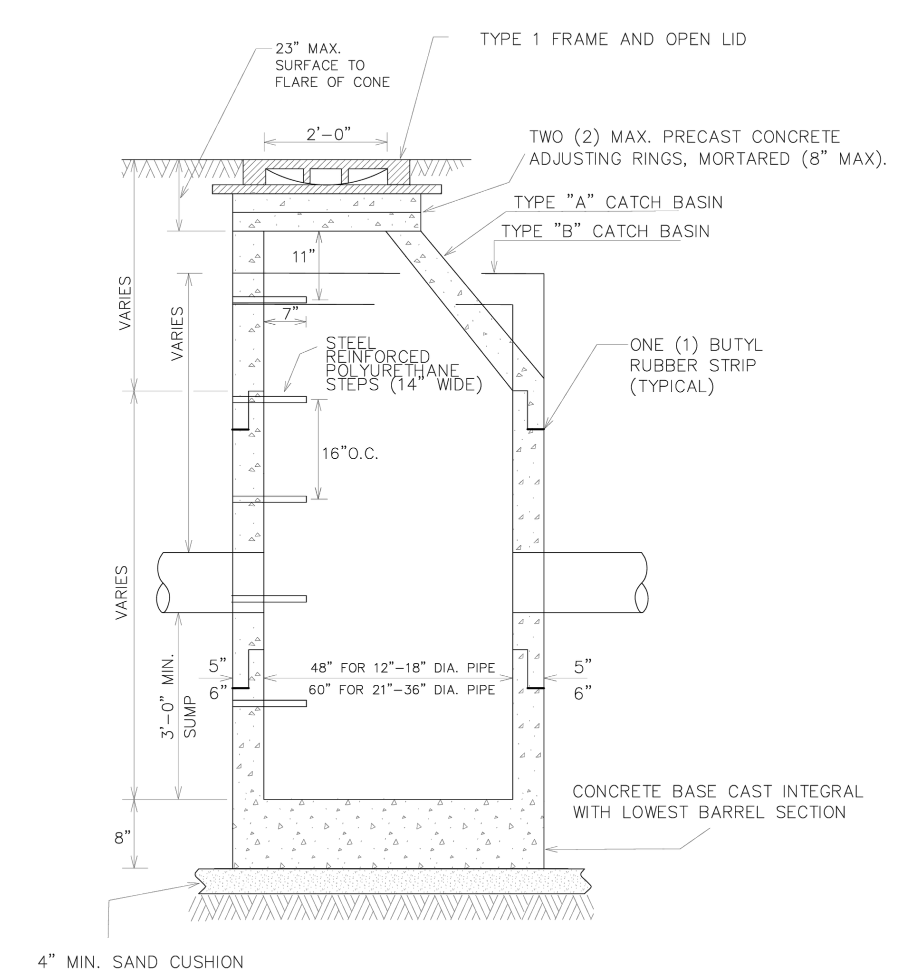
GRAPHIC SCALE
0 20 30 40 60
(IN FEET)
1"=20 FT.

I, ALBERT M. SCHMITT, OWNER OF SCHMITT ENGINEERING & ASSOCIATES, INC., LIC. NO. 062–046261, PROFESSIONAL ENGINEER OF THE STATE OF ILLINOIS, DO HEREBY CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY CONSTRUCTION OF THIS PROJECT OR ANY PART THEREOF, OR, IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE PROJECT OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE PROJECT. FURTHERMORE, THESE DEVELOPMENT PLANS HAVE MET THE MINIMUM REQUIREMENTS OF THE STORMWATER MANAGEMENT ORDINANCE OF McHENRY COUNTY WITH LATEST AMENDMENTS SEPTEMBER 15, 2020.

LICENSED PROFESSIONAL ENGINEER ALBERT M SCHMITT 062-046261 STATE OF ILLINOIS

SOIL EROSION DETAIL NOTE

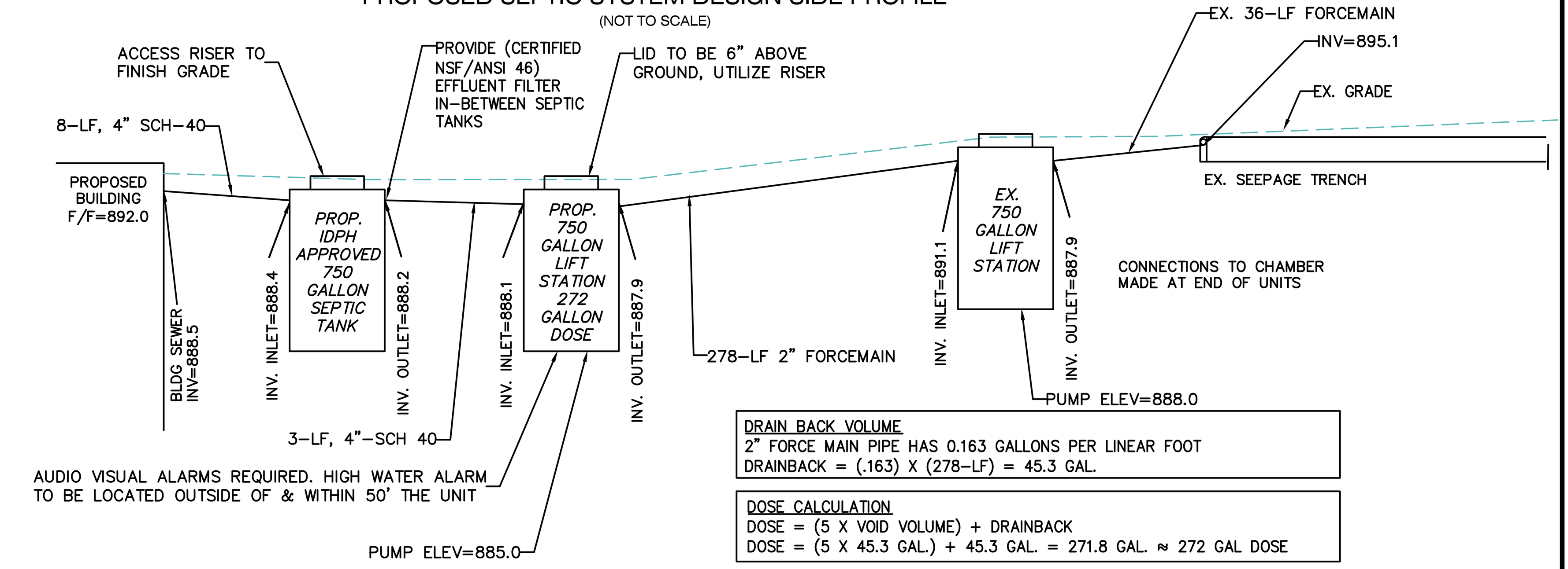
- SILT FENCE TO FOLLOW ILLINOIS URBAN MANUAL IUM–620 DETAIL
- COIR LOG TO FOLLOW ILLINOIS URBAN MANUAL IUM–514RC DETAIL



NOTES:
1. MANHOLES MUST CONFORM TO ASTM C–478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. NON–PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
4. MORTAR ALL PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
5. IN "SUBMERGED" CONDITIONS, ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED AND INTERIOR MORTARED.
6. PRIOR TO THE PLACEMENT OF FINAL LAYER OF ROADWAY, FRAMES AND ADJUSTING RINGS LOCATED WITHIN PAVED AREAS SHALL BE SET IN AN IDOT APPROVED CONCRETE "SI" MIXTURE.

TYPE A & B CATCH BASIN DETAIL

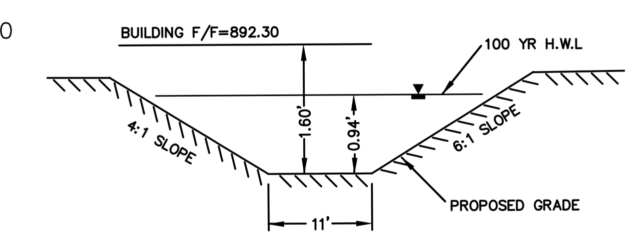
PROPOSED SEPTIC SYSTEM DESIGN SIDE PROFILE
(NOT TO SCALE)



DRAIN BACK VOLUME
2" FORCE MAIN PIPE HAS 0.163 GALLONS PER LINEAR FOOT
DRAINBACK = (.163) X (278–LF) = 45.3 GAL.

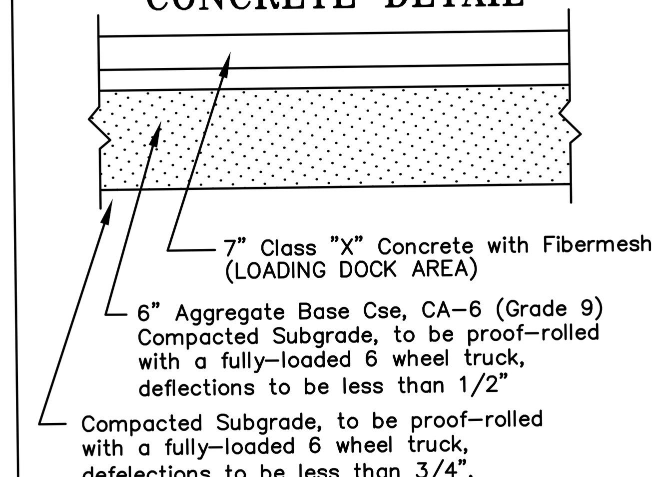
DOSE CALCULATION
DOSE = (5 X VOID VOLUME) + DRAINBACK
DOSE = (5 X 45.3 GAL.) + 45.3 GAL. = 271.8 GAL. ≈ 272 GAL DOSE

PUMP CALCULATION
FORCE MAIN FRICTION LOSS (2" FORCE MAIN)
(35 GPM) 2.05 PER 100' OF FORCE MAIN = 278–LF X (2.05/100) = 5.70 + 20%[1] = 6.84'   [1]20% IS FITTINGS/ELBOWS LOSSES)
STATIC HEAD (INVERT INLET ELEV–PUMP ELEV) 891.1 – 885.0 = 6.1
TOTAL HEAD LOSS: 2.0 + 6.84 + 6.1 = 14.94'   PUMP TO PROVIDE 30 GPM @ 15' T.D.H



SWALE DETAIL SECTION A–A
(NOT TO SCALE)

CONCRETE DETAIL

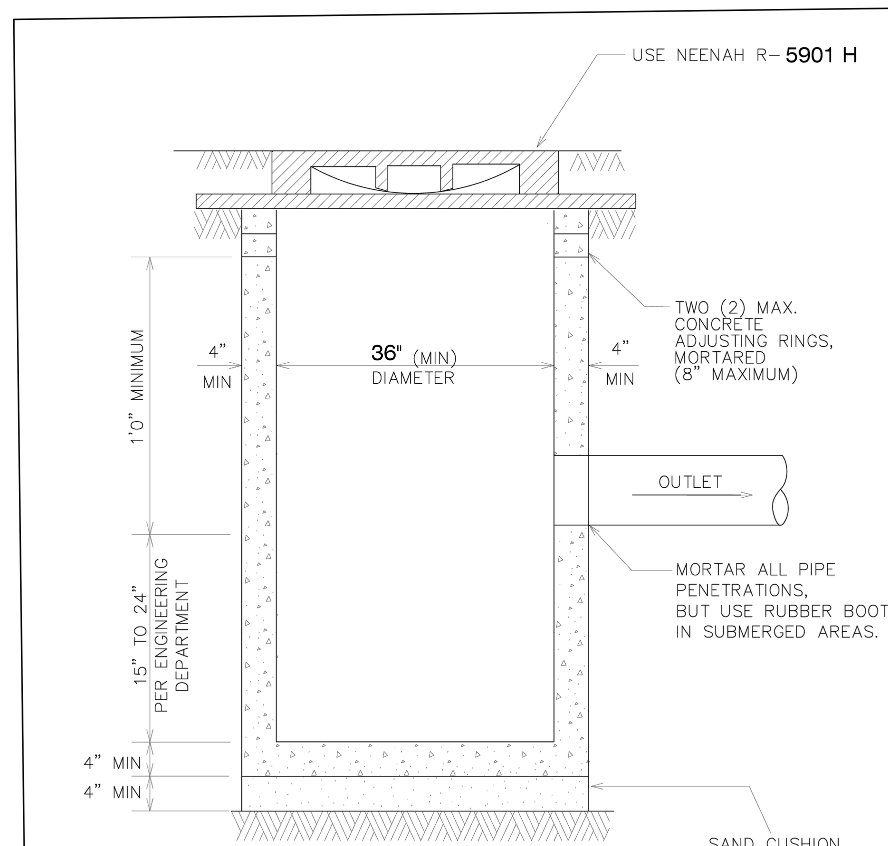


SEWAGE DISPOSAL SYSTEM DESIGN CRITERIA:

EXISTING SEPTIC SIZED ACCORDING TO PERMIT H7848
EXISTING SIZING:
8 EMPLOYEES @ 15 GPD=120 GPD

PROPOSED SIZING:
4 UNITS X 2 EMPLOYESS PER UNIT @ 15 GPD=120 GPD

EXISTING SEPTIC FIELD HAS ADEQUATE CAPACITY; NO PROPOSED INCREASE IN DAILY FLOW



NOTE:
1. CATCH BASIN TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
2. CATCH BASIN MUST CONFORM TO ASTM C–478.
3. NON–PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
4. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER TYPE A CATCH BASIN.

36" CATCH BASIN DETAIL

PLANS PREPARED FOR:
ADAMS BROTHERS GARAGE DOORS
ADAM ADAMS
1017 TRAKK LANE
WOODSTOCK, IL 60098
EMAIL: ADAMSBROTHERS@ATT.NET
PHONE: (815) 482 - 3800

REVISIONS

DATE	DESCRIPTION
11/07/25	COUNTY STORMWATER REVIEW LETTER 11/04/25
12/31/25	COUNTY STORMWATER REVIEW LETTER 12/18/25

Permit Number HEALTH
_-_

Permit Number PLANNING SW-25-257

LICENSED PROFESSIONAL ENGINEER ALBERT M SCHMITT 062-046261 STATE OF ILLINOIS
EXPIRES 11-30-2027

SITE PLAN/ON-SITE WASTE DISPOSAL SYSTEM
ADAMS BROTHERS GARAGE DOORS
LOT 14 TRAKK INDUSTRIAL PARK
1017 TRAKK LANE
WOODSTOCK, IL 60098
P.I.N.: 07-36-126-001

SCHMITT ENGINEERING
215 West Calhoun Street, Woodstock, Illinois 60098
Phone (815) 337-7810
www.alschmittengineering.com

Drawn By	ACT
Checked By	AMS
Date	07/07/2025
Scale	1" = 20 Ft.
Job Number	231201

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