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STABILIZATION NOTES

1. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION TO SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
- 1.1. NYSDEC RECOMMENDS IF WORKING IN SPRING/SUMMER/EARLY FALL, SEED THE REQUIRED AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (APPROX. 0.7 LB./1,100 SF).
- 1.2. NYSDEC RECOMMENDS IF WORKING IN LATE FALL/EARLY WINTER, SEED THE REQUIRED AREA WITH 'AROSTOOK' WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (APPROX. 2.5 LB./1,100 SF).
2. NYSDEC RECOMMENDS TO MULCH THE REQUIRED AREA WITH HAY OR STRAW 2 TONS/ACRE (APPROX. 90 LBS./1000 SF). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURED SPECIFICATION.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS,
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30 0 30 60ft

REVISIONS:	
No.	Description
1	Rev. per Town comments
2	Rev. per Town comments
3	Rev. per Town comments
4	Rev. per Town comments



<u>DRAWING NAME:</u>	
Demolition & Erosion Control Plan	
Date:	3/2
Drawn By:	P. Sh
Scale:	AS N
<u>DRAWING NO.</u>	
C-001	
Project No:	22.296

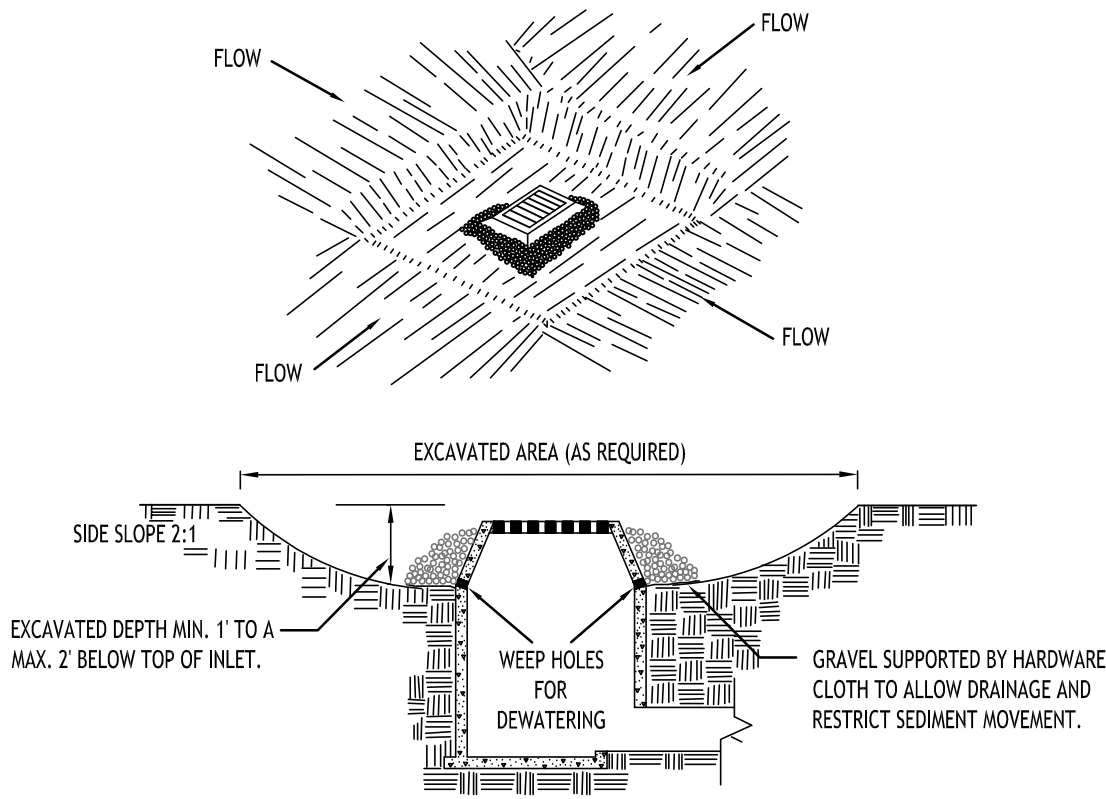
CARMIN+WOOD
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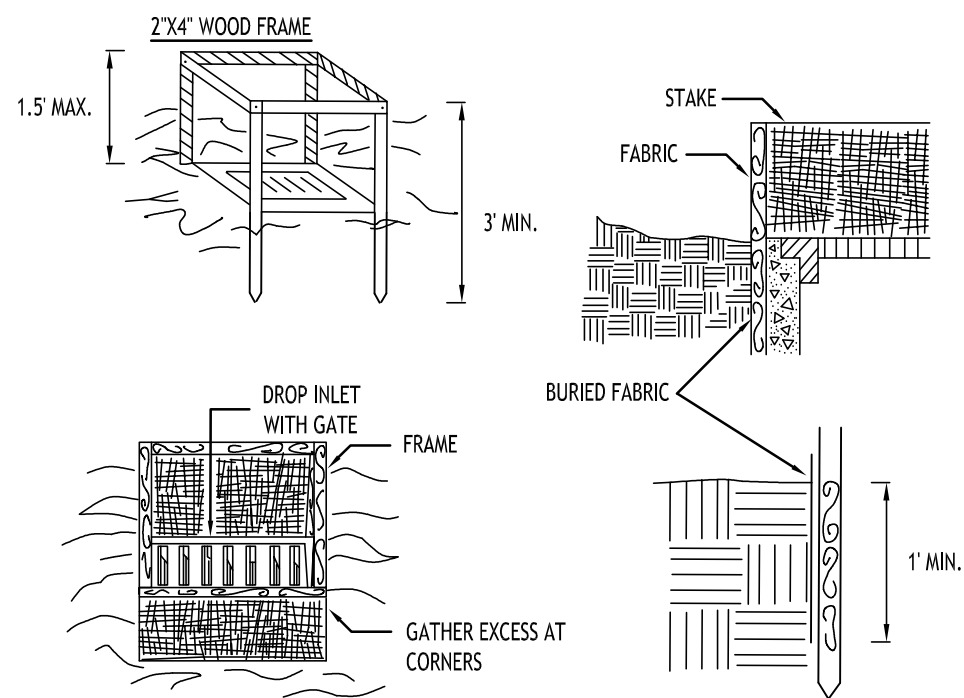
CONSTRUCTION SPECIFICATIONS

- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
- WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
- UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



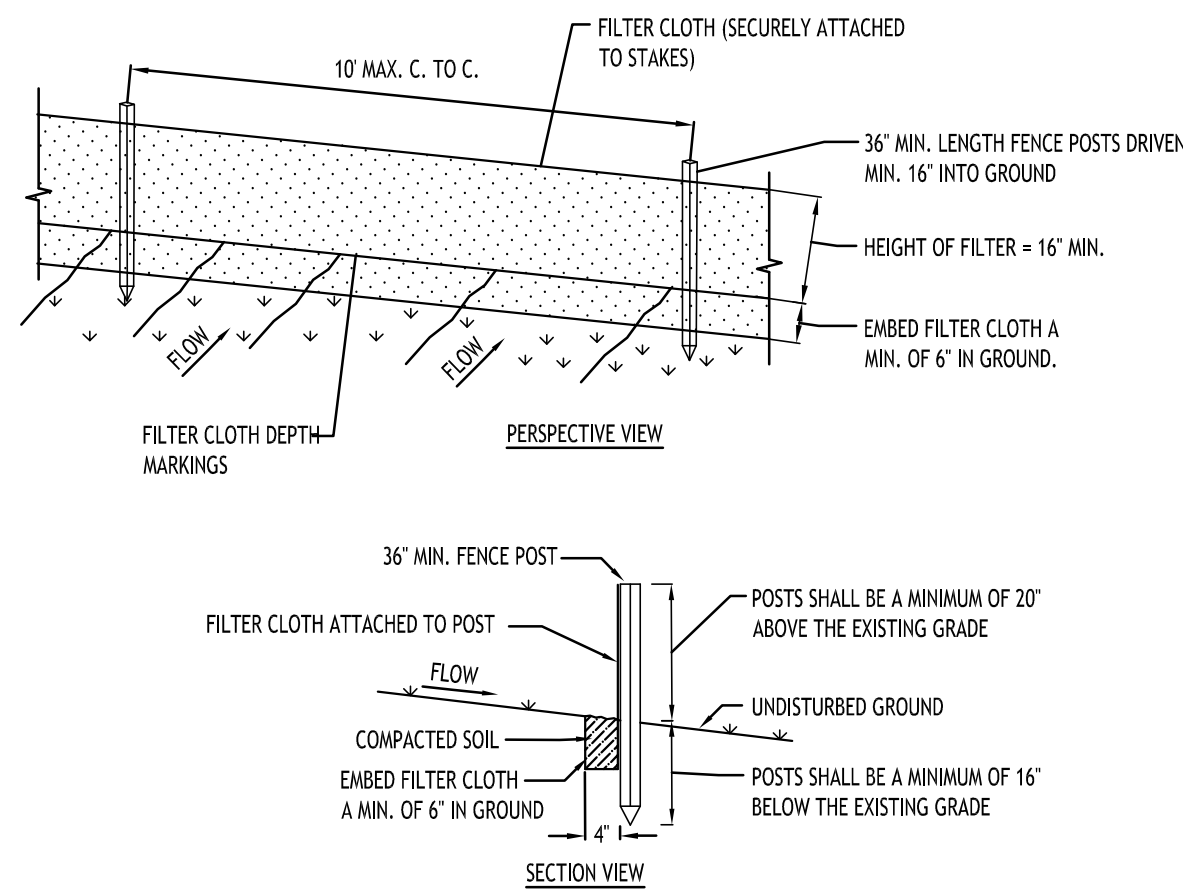
- FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION

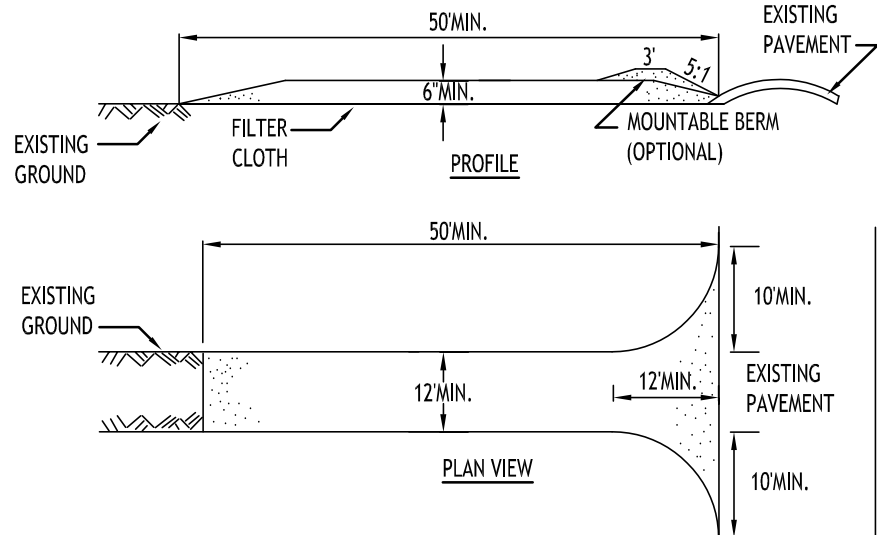


CONSTRUCTION SPECIFICATIONS

- WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

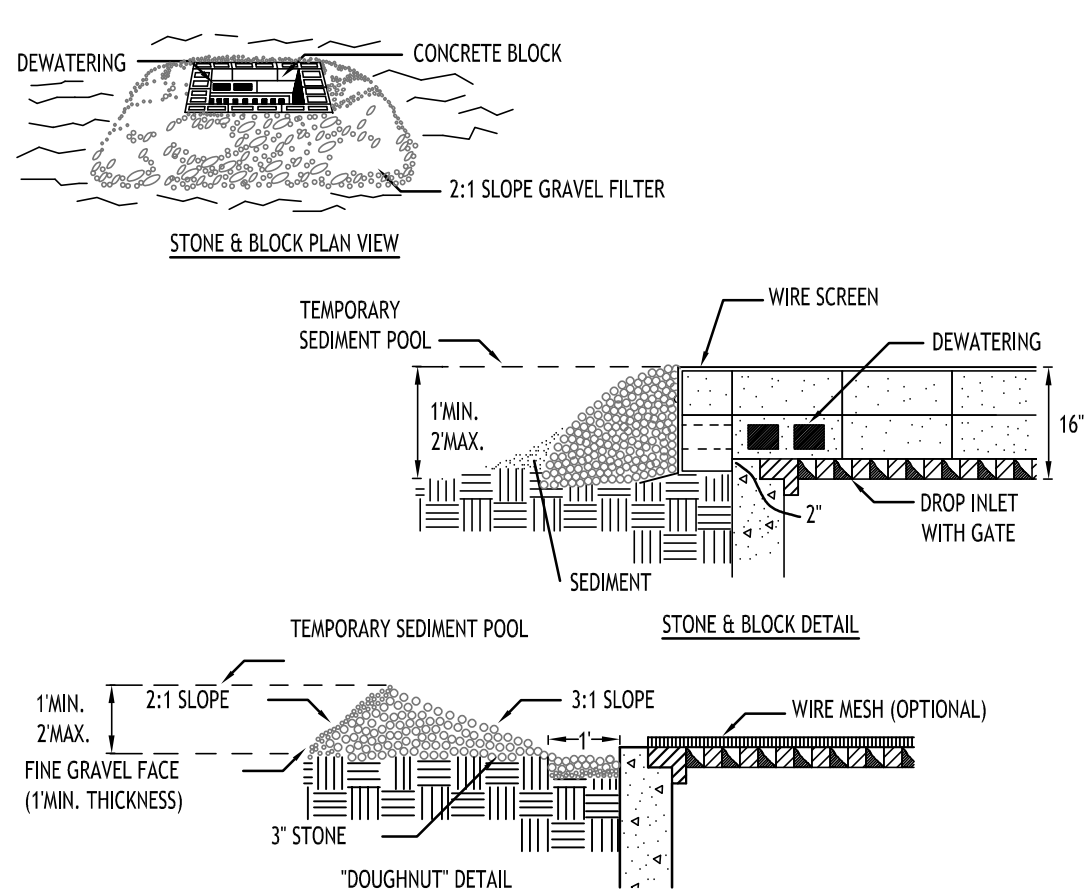


CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

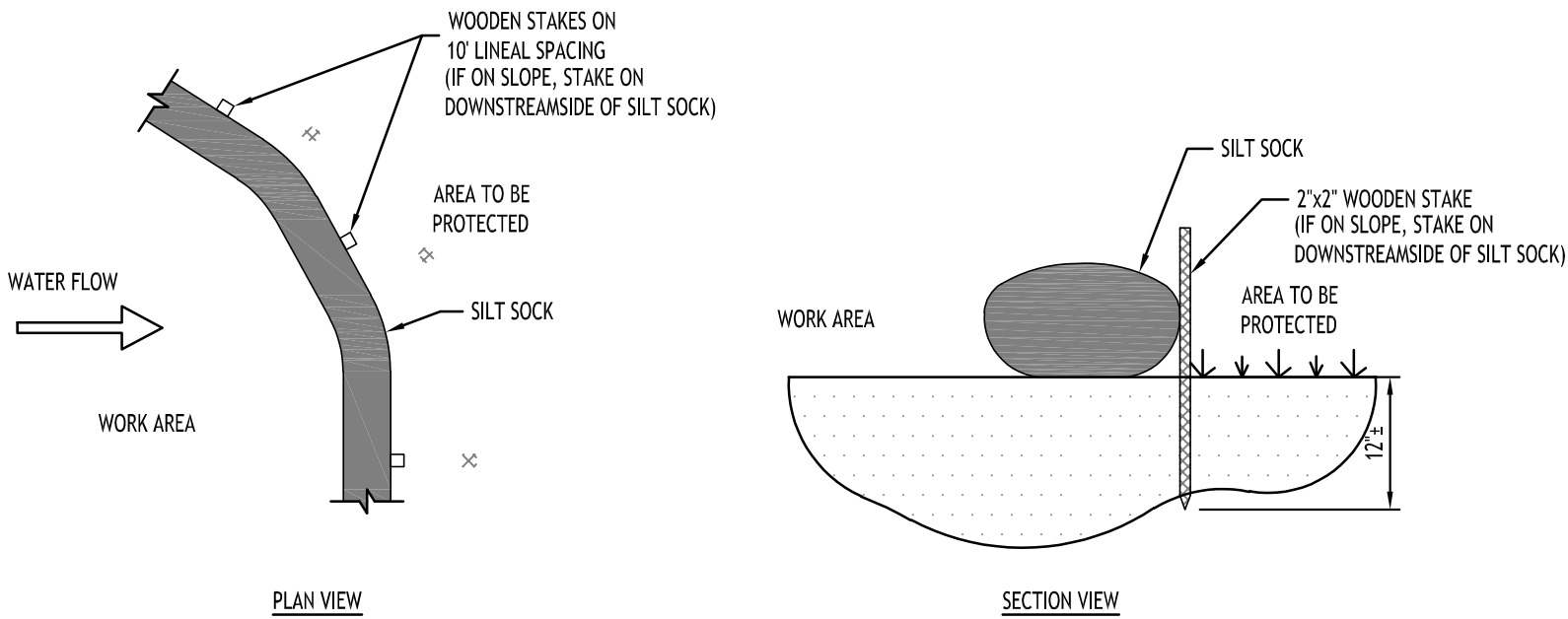


- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

NOT TO SCALE



NOTES:

CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED 1/2 OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

SILT SOCK DETAIL

NOT TO SCALE

NOTES

- ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
- A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
- HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

DEMOLITION NOTES:

- ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES, AND CATCH BASINS.
- TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
- AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
- REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
- REMOVE EXISTING BUILDING TO INCLUDE ALL FOUNDATIONS, SIDEWALKS & PATIOS, STEPS, LANDSCAPING, ETC. ALL UTILITY CONNECTIONS TO BE ABANDONED AND/OR REMOVED PER COUNTY, TOWN, AND UTILITY COMPANY REQUIREMENTS. BACKFILL ANY FOUNDATIONS REMOVED AS NEEDED.
- EXISTING TREE LOCATIONS ARE APPROXIMATE, CONTRACTOR TO LOCATE LOCATIONS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

- INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
- ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
- THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
- DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
- ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
- ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
- INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.
- THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY, AND WHEN DISTURBING MORE THAN 5 ACRES TWICE A WEEK, AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF AMHERST (BI)WEEKLY.
- THE ENGINEER OF RECORD FOR THIS PROJECT CERTIFIES THAT THESE DESIGN PLANS MEET THE REQUIREMENTS AND ARE IN COMPLIANCE WITH THE NEW YORK STORMWATER MANAGEMENT DESIGN MANUAL AND NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS.

CARMINA WOOD
DESIGN

111 Bain Street, Suite 332
Amherst, NY 14203
Phone: (716) 842-3165

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:	Date
No. Description	



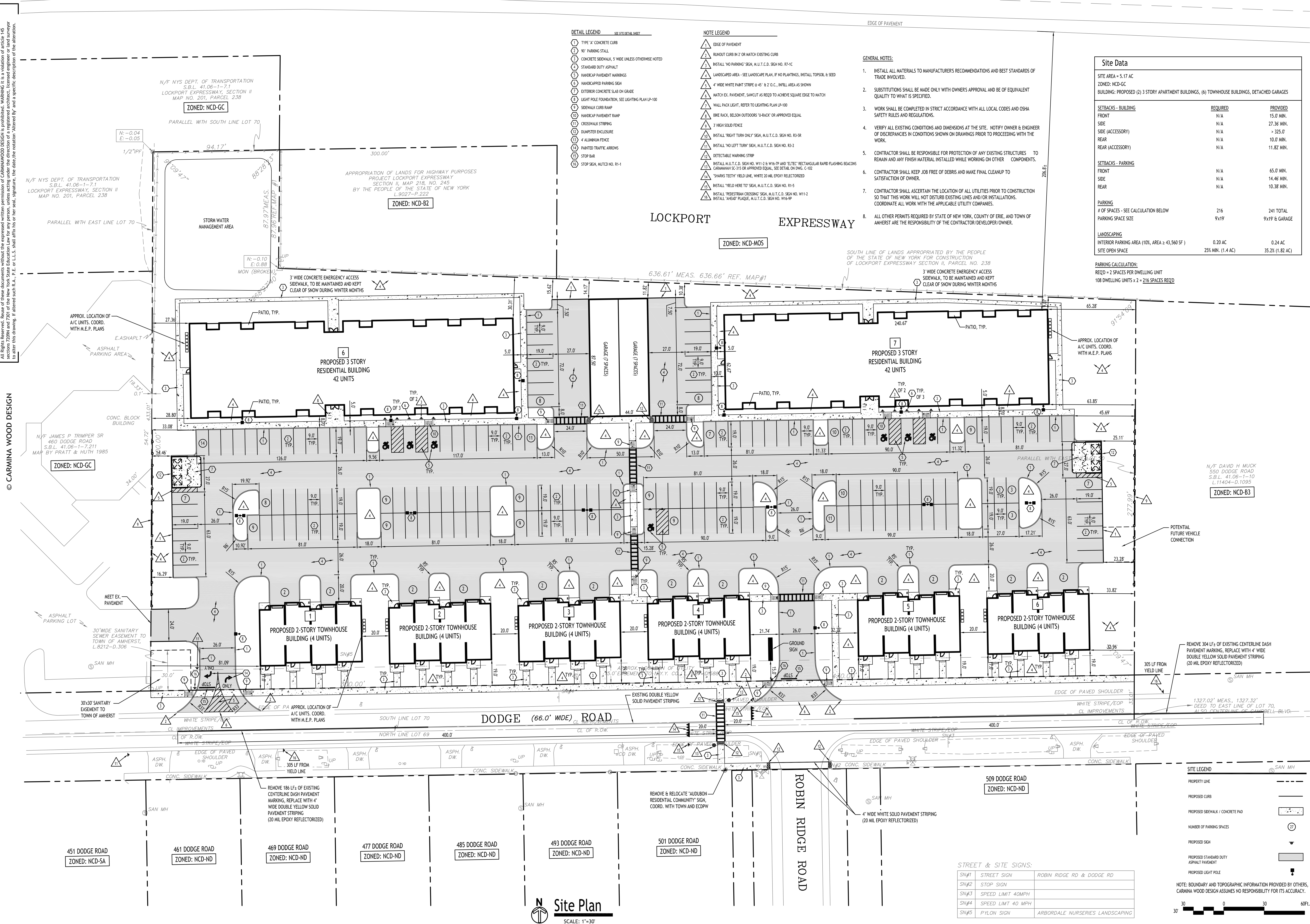
DRAWING NAME:
Demolition &
Erosion Control
Notes & Details

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

C-002

Project No: 22.296



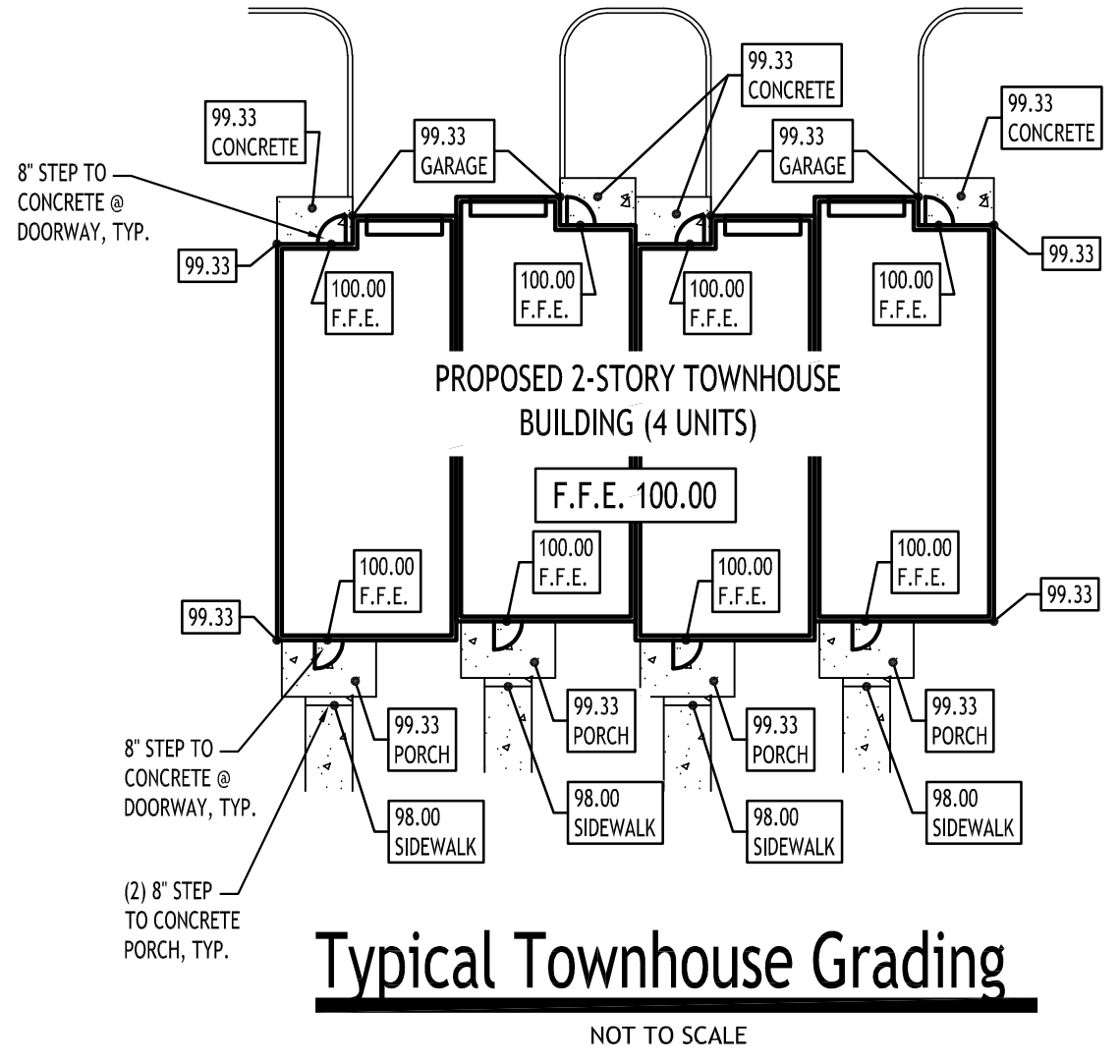
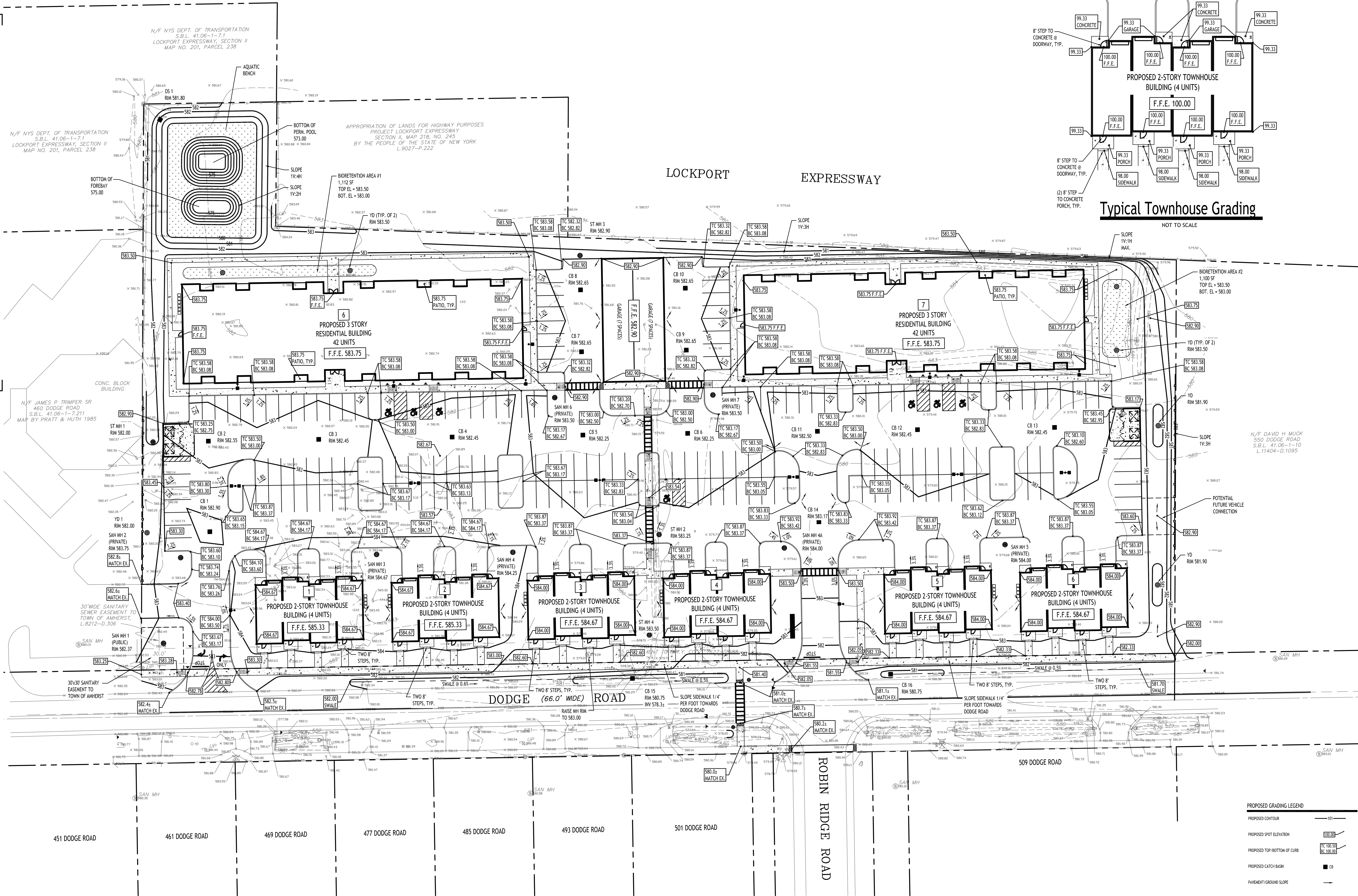


- NOTES:**
1. BASIS OF DESIGN IS CARMANAH SC-315 OR APPROVED EQUAL.
 2. ALL ADA STANDARDS SHALL BE MET WITH PLACEMENT OF THE SIGN WITH THE PROPOSED CROSSWALK.

Project No: 22.296

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Grading Plan
SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



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Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:		Date
No.	Description	
1	Rev. per Town comments	5/23/23
2	Rev. per Town & ECDPW comments	7/21/23
3	Rev. per Town comments	8/10/23
4	Rev. per Town comments	12/8/23
5	Rev. per Town comments	1/27/25
6	Clubhouse removed, townhouse added	8/22/25



DRAWING NAME:
Grading Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-200
Project No: 22.296

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N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

N/F JAMES P TRIMMER SR
460 DODGE ROAD
S.B.L. 41.06-1-7.211
MAP BY PRATT & HUTT 1985

SAN.MH#7
RIM=582.13
W. INV=569.89
E. INV=570.78
S. INV=569.85

30"x30" SANITARY
SEWER EASEMENT TO
TOWN OF AMHERST
L.8212-0.306

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

SAN.MH#1
RIM=582.30
CL. INV=570.00

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS
F.F.E. 583.75

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 585.33

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 585.33

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

PROPOSED 2-STORY TOWNHOUSE
BUILDING (4 UNITS)
F.F.E. 584.67

PROPOSED 3 STORY
RESIDENTIAL BUILDING
42 UNITS
F.F.E. 583.75

DODGE (66.0' WDE) ROAD

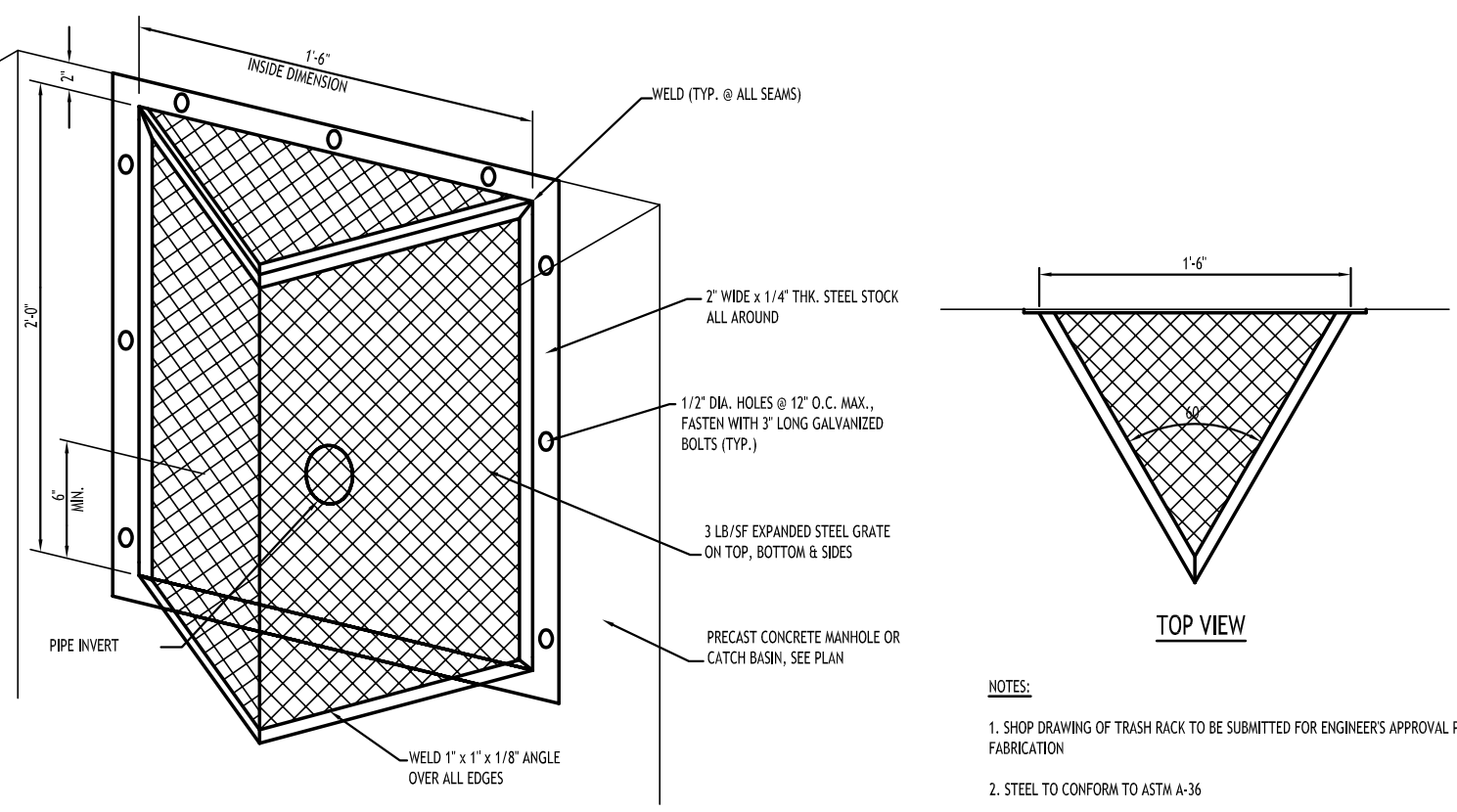
ROBIN RIDGE ROAD

509 DODGE ROAD



Storm Drainage Plan

SCALE: 1"=30'



NOTES:
1. SHOP DRAWING OF TRASH RACK TO BE SUBMITTED FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION.
2. STEEL TO CONFORM TO ASTM A-36
3. FOLLOWING FABRICATION, THE TRASH RACK ASSEMBLY SHALL BE COATED WITH ZINC COLD GALVANIZING COMPOUND
4. INTERNAL ANGLE BETWEEN SIDE PANELS TO BE 60°

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES - CULVERT/DODGE RD.				
Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)	
1-Year	5.02	13,877	0.92	
10-Year	10.93	30,533	2.03	
25-Year	14.28	40,270	2.67	
100-Year	20.94	60,145	3.99	

POST DEVELOPMENT STORMWATER EVENT SUMMARIES - CULVERT/DODGE RD.				
Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)	
1-Year	1.84	3,629	579.54	
10-Year	2.84	7,653	580.24	
25-Year	3.45	10,042	580.69	
100-Year	4.75	14,839	581.93	

PRE DEVELOPMENT STORMWATER EVENT SUMMARIES - DITCH/THRUWAY				
Event	Runoff (cfs)	Volume (cubic-feet)	Depth (inches)	
1-Year	1.39	3,215	1.92	
10-Year	2.94	7,069	4.08	
25-Year	3.85	9,361	5.34	
100-Year	5.66	14,093	7.94	

POST DEVELOPMENT STORMWATER EVENT SUMMARIES - DITCH/THRUWAY				
Event	Runoff (cfs)	Volume (cubic-feet)	Elevation (ft)	
1-Year	1.01	2,344	580.39	
10-Year	1.61	5,751	580.92	
25-Year	1.89	7,974	581.24	
100-Year	2.35	12,683	581.88	

PROPOSED STORM DRAINAGE LEGEND	
PROPOSED STORM PIPE	ST
PROPOSED PERFORATED STORM PIPE	ST
PROPOSED CATCH BASIN	■
PROPOSED MANHOLE	●
PROPOSED CLEANOUT	○
CB: CATCH BASIN	
MH: MANHOLE	
OS: OUTLET STRUCTURE	

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



CARMINA WOOD
DESIGN

Multi-Family Project
480 Dodge Road
Amherst, NY

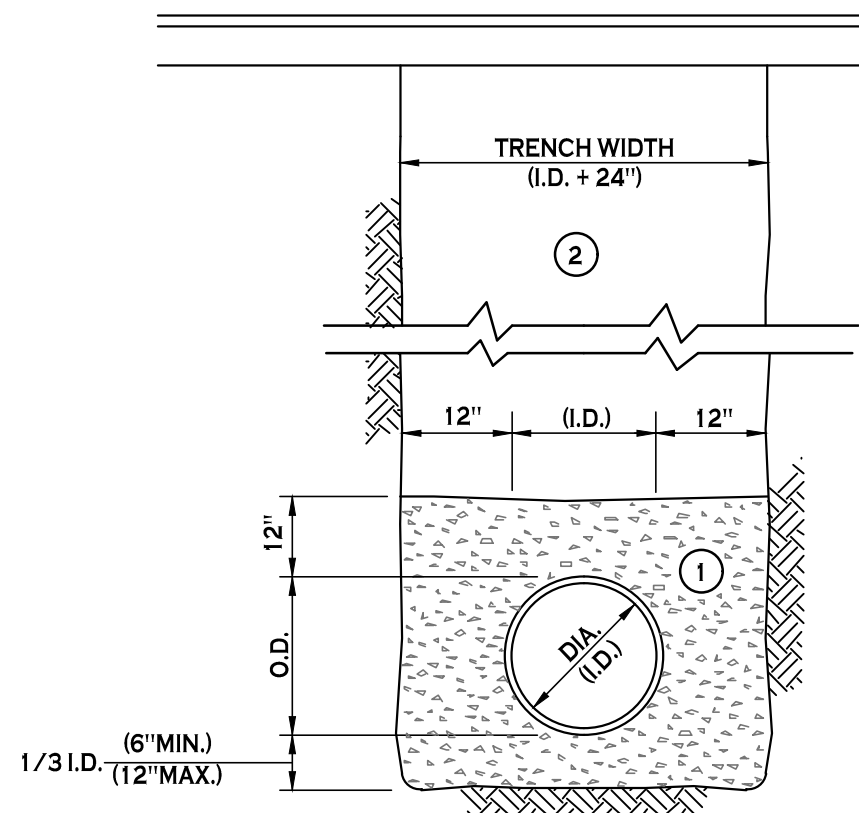
REVISIONS:		Date
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1	Rev. per Town comments	5/23/23
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3	Rev. per Town comments	12/8/23
4	Rev. per Town comments	1/27/25
5	Rev. per Town comments	4/25/25
6	Clubhouse removed, townhouse added	8/22/25



DRAWING NAME:
Storm Drainage
Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
C-300
Project No: 22.296



- NOTES:
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
 - TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.
 - AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

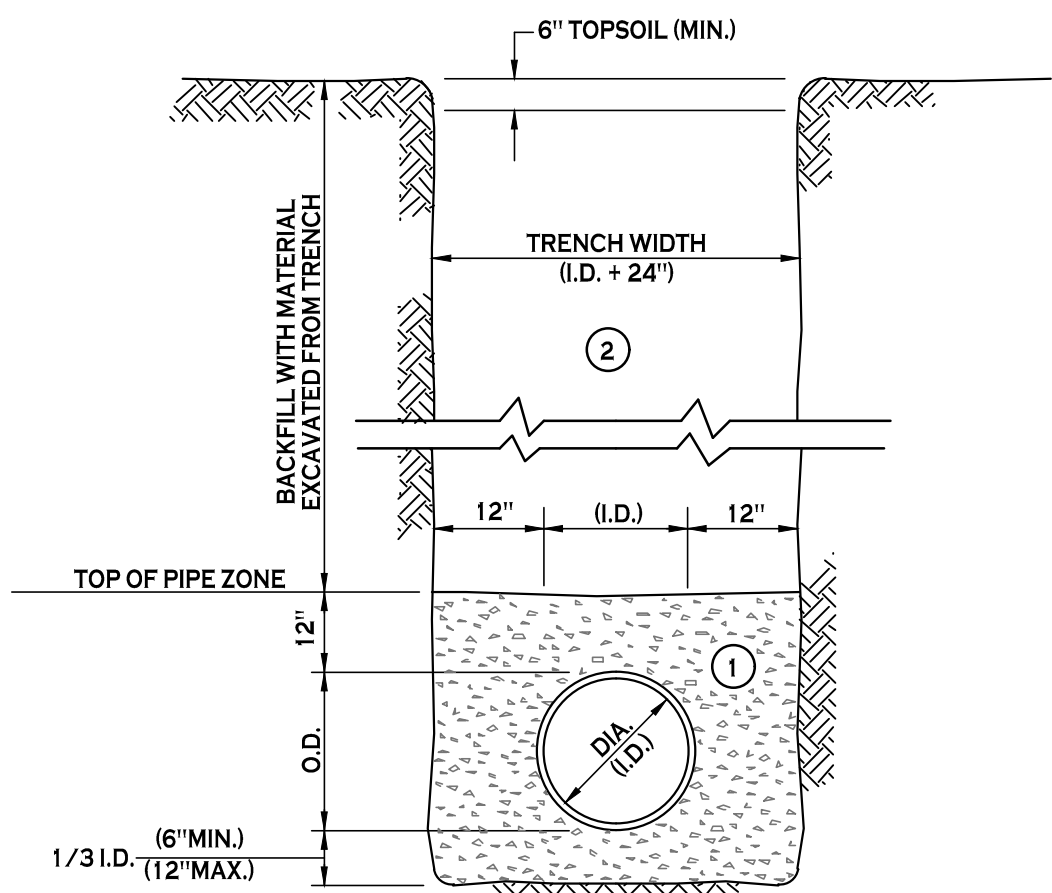
PIPE BEDDING MATERIAL (NYS DOT 1985 EDITION)

- NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703.02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.
- TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304.2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL ②

**STORM SEWER TRENCH SECTION
IN PAVED AREAS**

NOT TO SCALE



- NOTES:
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
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MATERIALS

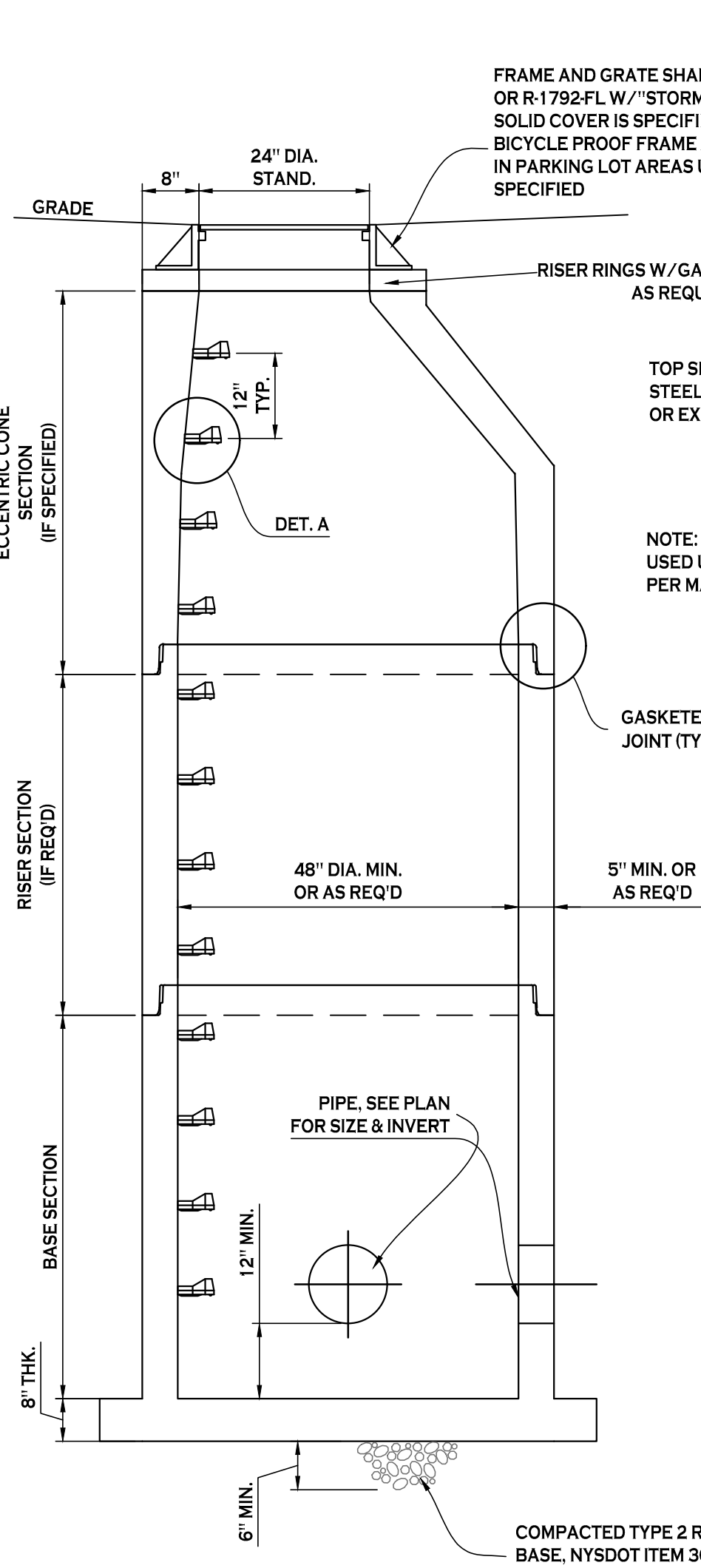
PIPE BEDDING MATERIAL (NYS DOT 1985 EDITION)

- NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703.02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.
- BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL. COMPACTED IN 6" LIFTS.

NO SLAG SHALL BE ALLOWED FOR MATERIAL ①

**STORM SEWER TRENCH SECTION
IN UNPAVED AREAS**

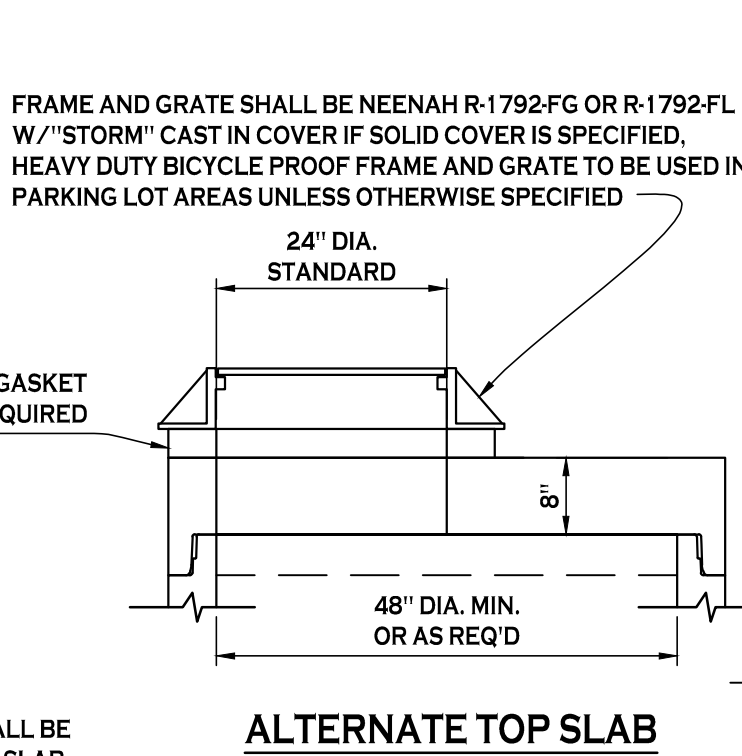
NOT TO SCALE



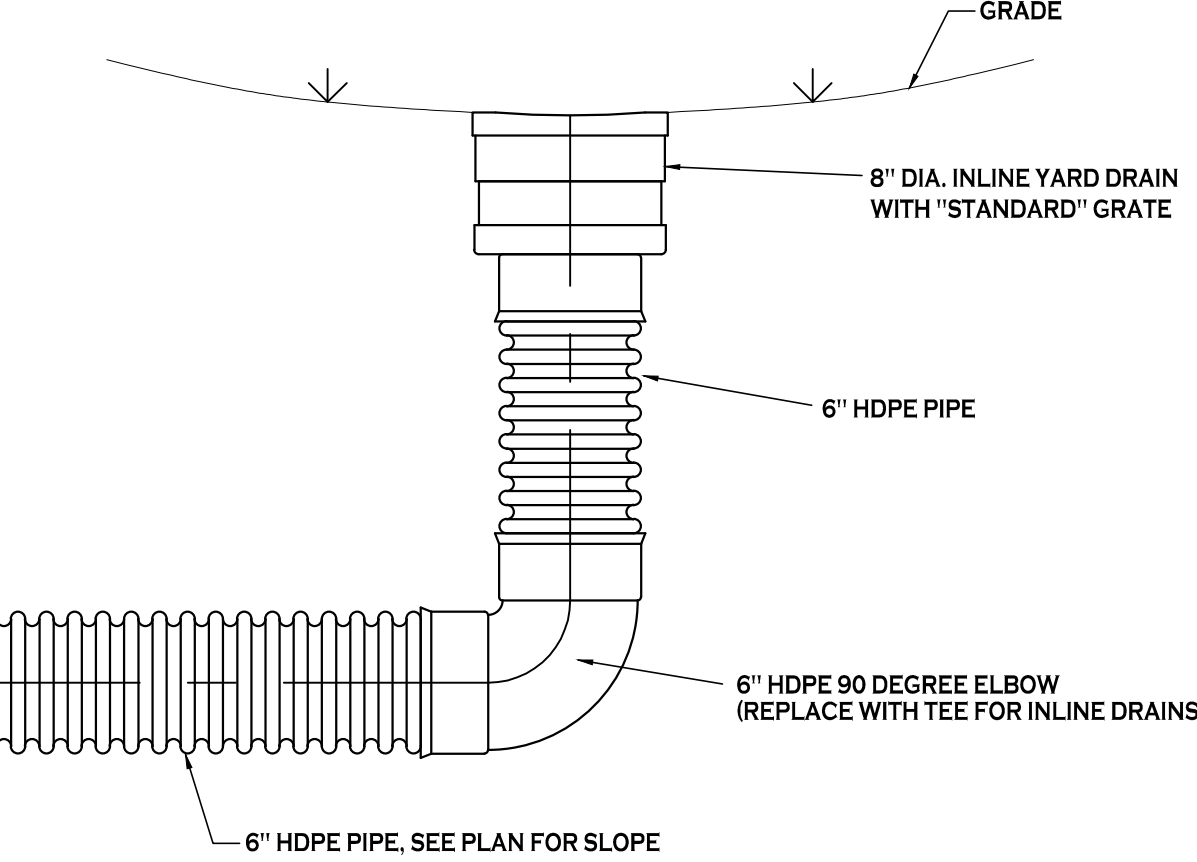
- GENERAL NOTES:
- REINFORCED STEEL TO CONFORM TO LATEST A.S.T.M. A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) IN BASE SLAB.
 - CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
 - MANHOLE DESIGN SPECIFICATIONS TO CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.
 - SINGLE POUR MONOLITHIC BASE SECTION.
 - MANHOLE TO BE COATED ON OUTSIDE WITH BITUMASTIC SEALER.

TYPICAL STORM MANHOLE DETAIL

NOT TO SCALE

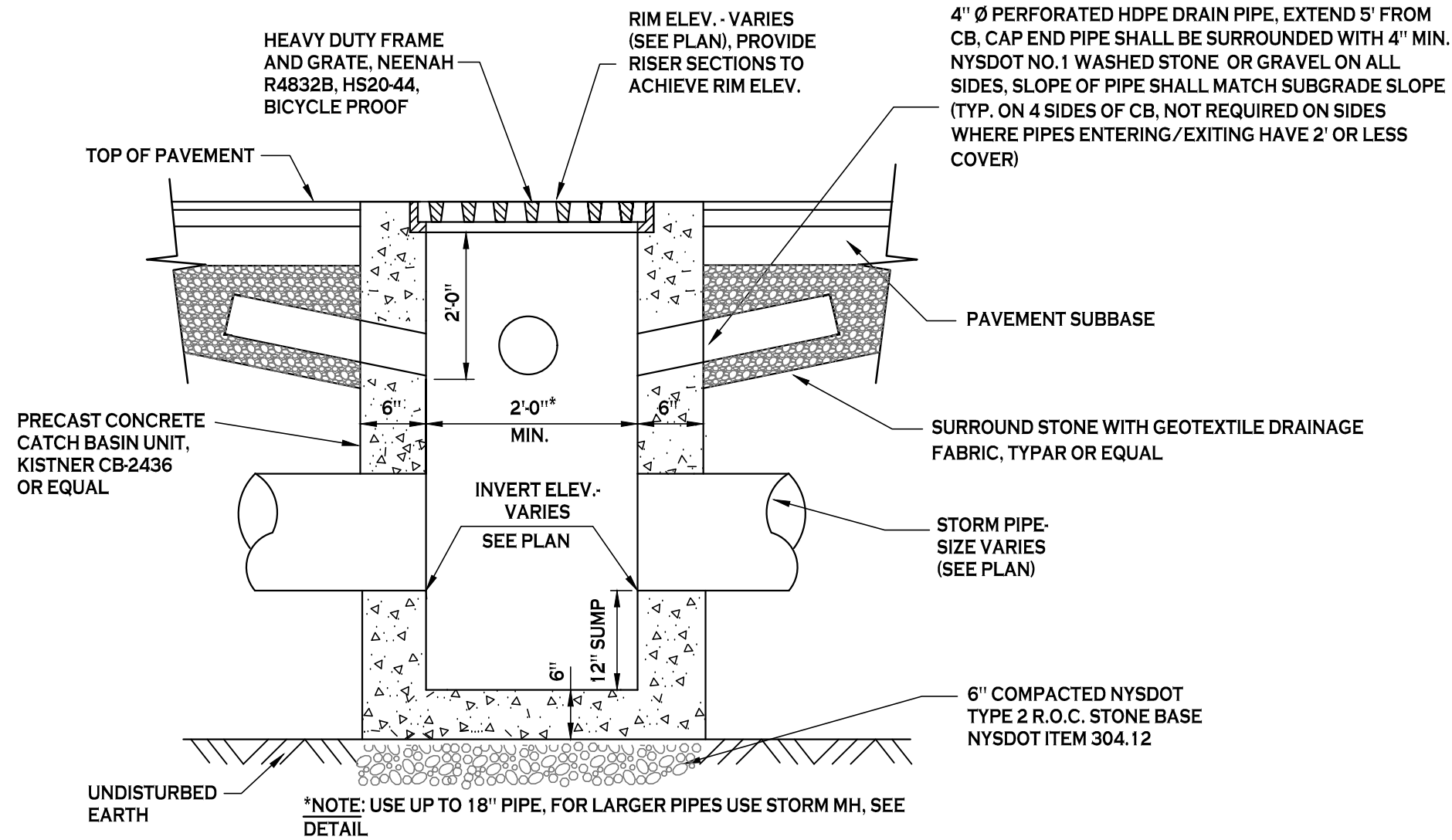


ALTERNATE TOP SLAB



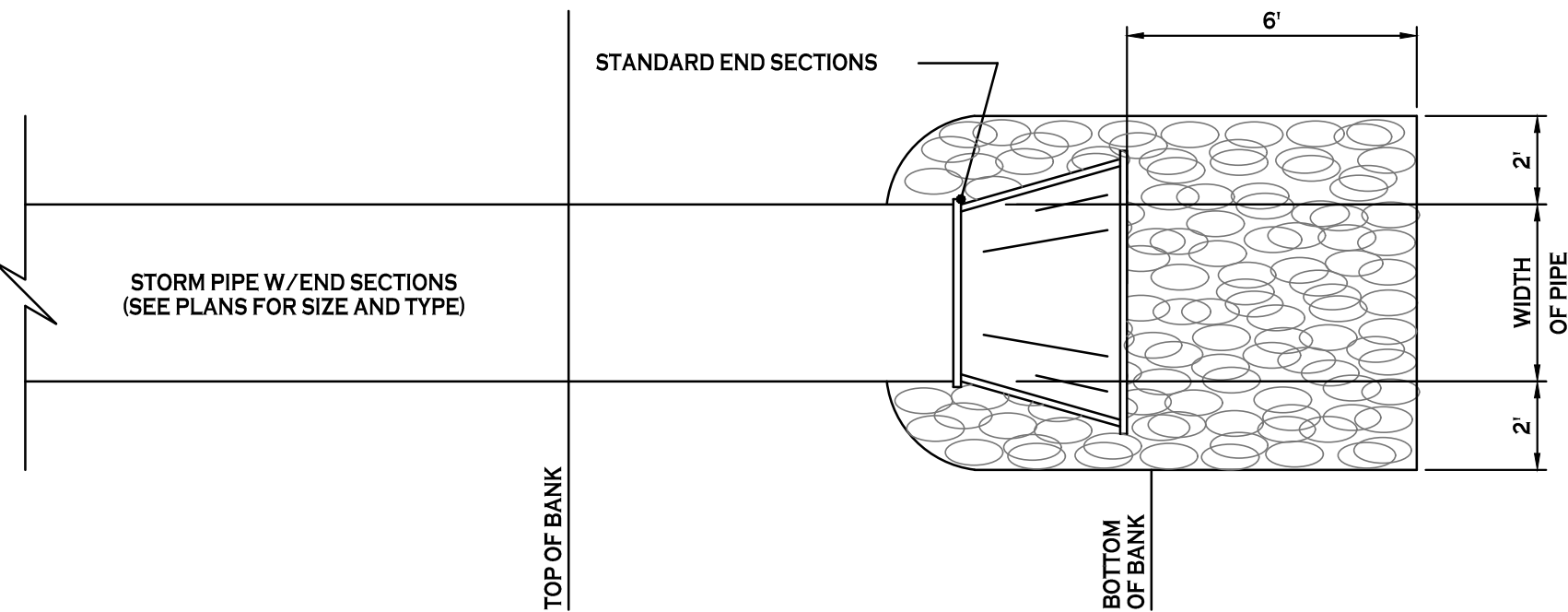
TYPICAL YARD DRAIN DETAIL

NOT TO SCALE

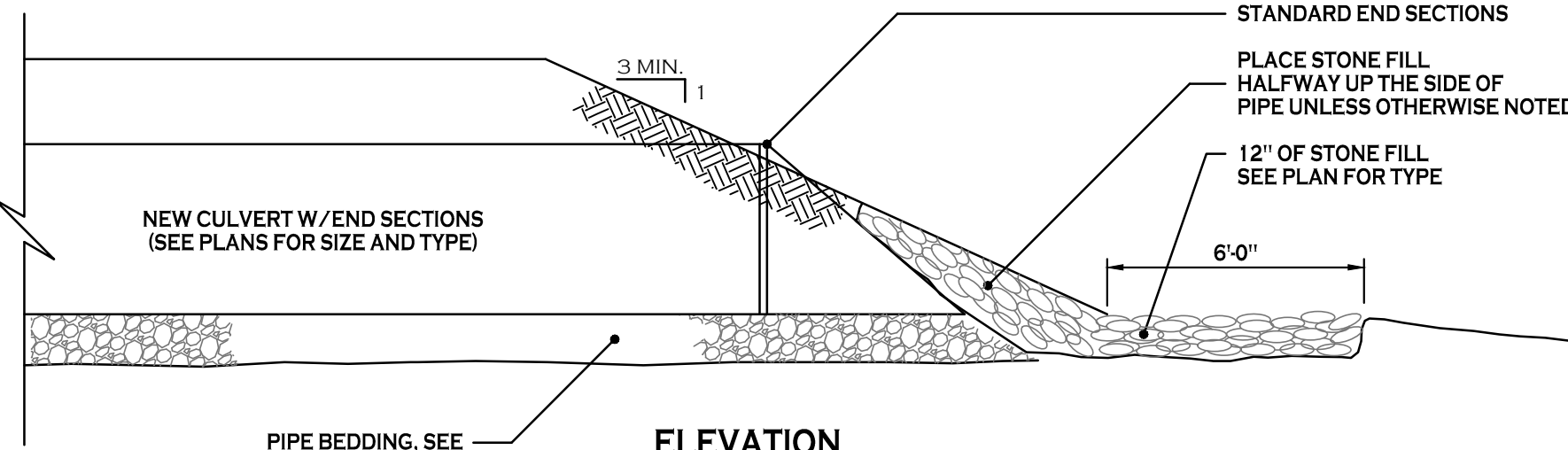


TYPICAL PRECAST CATCH BASIN

NOT TO SCALE



PLAN VIEW

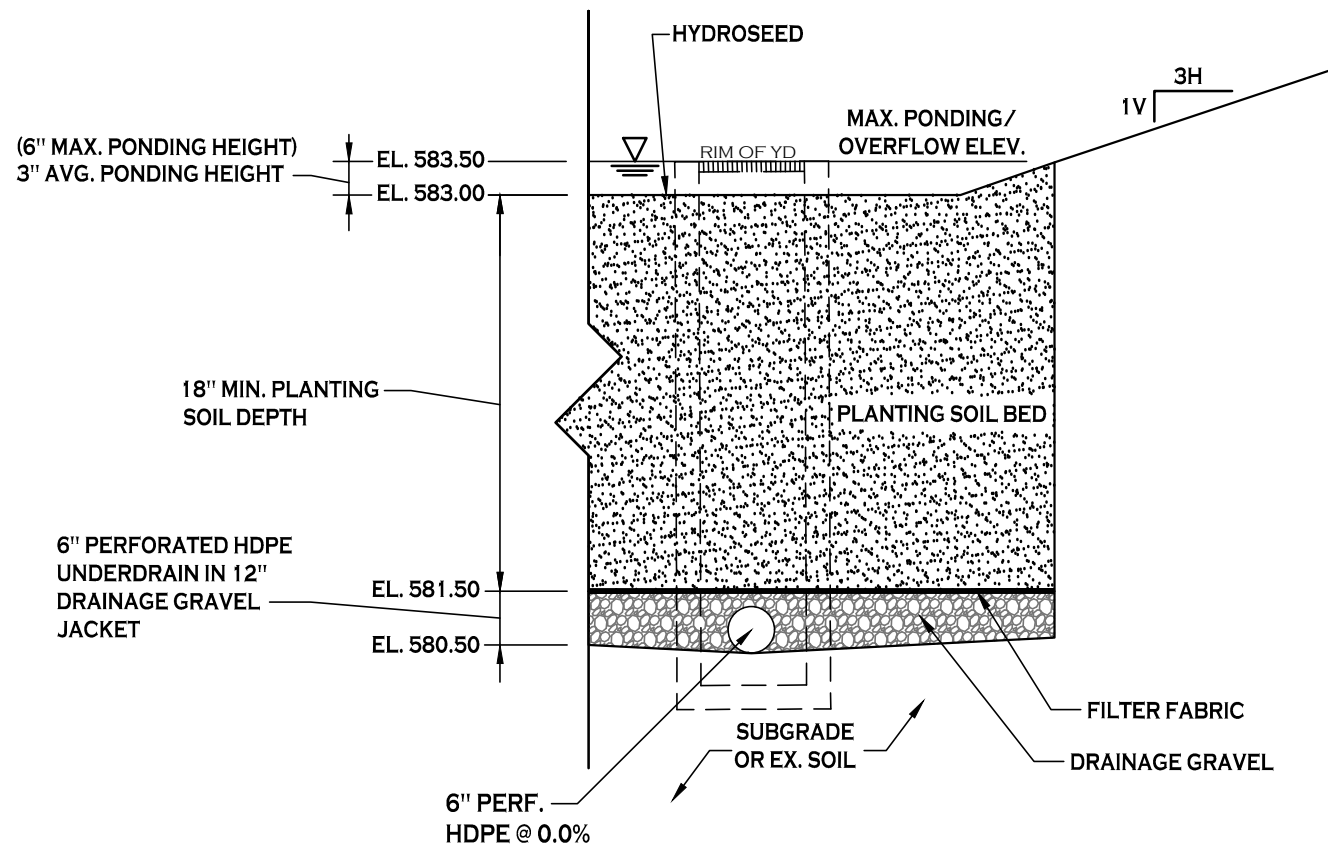


ELEVATION

NOTE: LIMITS OF STONE SHOWN ARE MINIMUMS. PLAN MAY INDICATE GREATER LIMITS

TYPICAL PIPE OUTLET W/ END SECTION & RIP RAP

NOT TO SCALE



- NOTES:
- FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180N OR APPROVED EQUIVALENT.
 - DRAINAGE GRAVEL TO MEET AASHTO M-43, NO.67, SIZE 0.25" TO 0.75".
 - CONTRACTOR TO PROVIDE PLANTING SOIL. SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 0.5 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

BIO-RETENTION AREA SEEDING SPEC (NORTHEAST WETLAND GRASS SEED MIX):

SEED MIXTURE	VARIETY	PERCENT BY NO. OF SEEDS
CREeping BENTGRASS	AGROSTIS STOLONIFERA	63.0
ROUGH BLUEGRASS	POA TRIVIALIS	17.0
MEADOW FXTAIL	ALOPECURUS ARUNDINACEUS	11.0
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	4.5
DEERTONGUE	PANICUM CLANDESTINUM	4.5

BIORETENTION AREA - TYPICAL SECTION

NOT TO SCALE

REVISIONS:	No.	Description	Date
	1	Treatment structure detail added	1/27/25
	2	WQV calculation table added	4/25/25



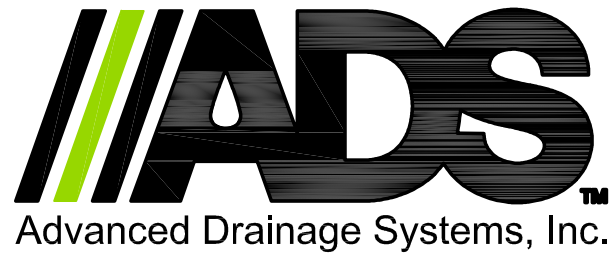
DRAWING NAME:
Storm Drainage
Details

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

C-301

Project No: 22.296



SC-740 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 (LBS/FT³). THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

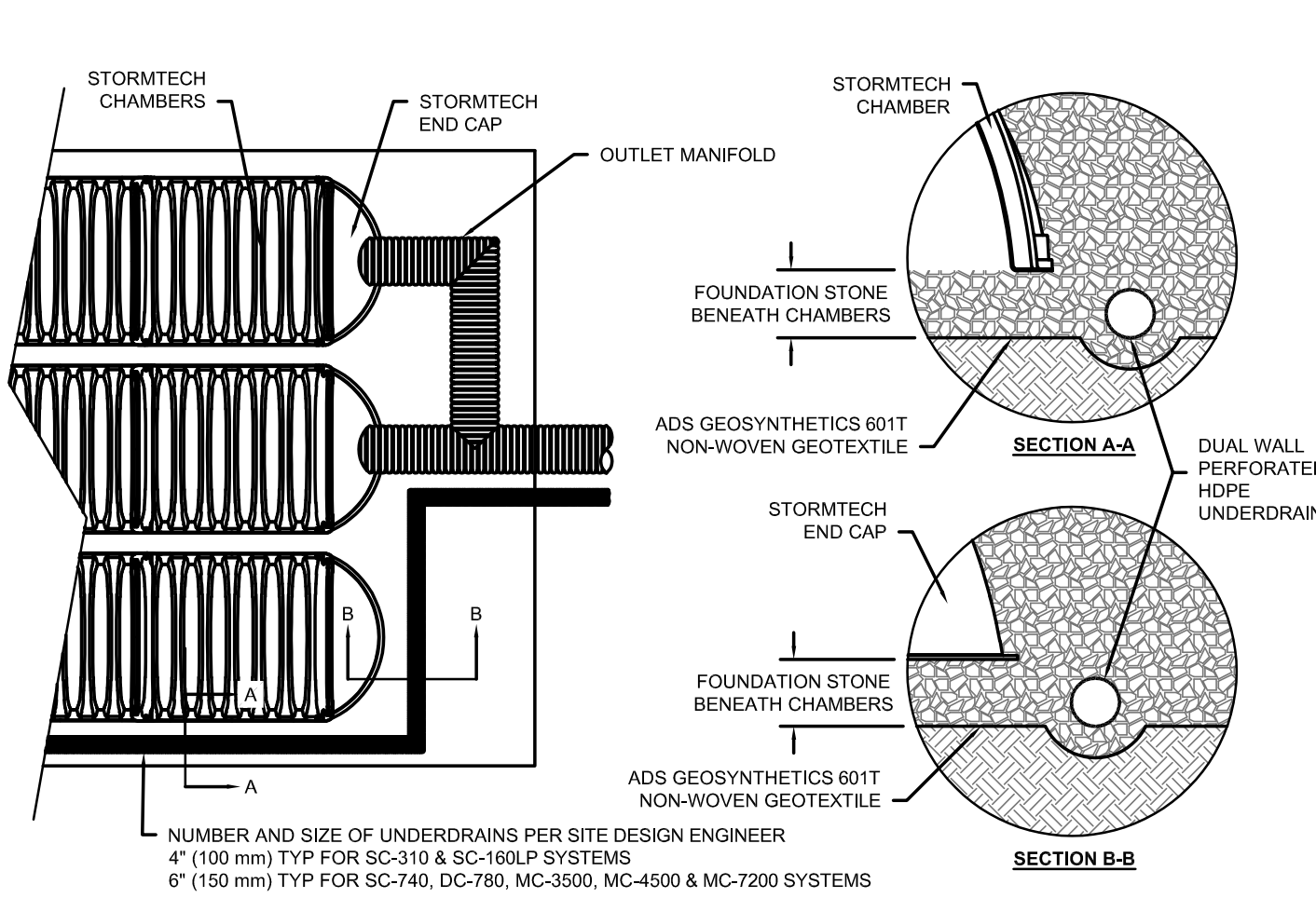
- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

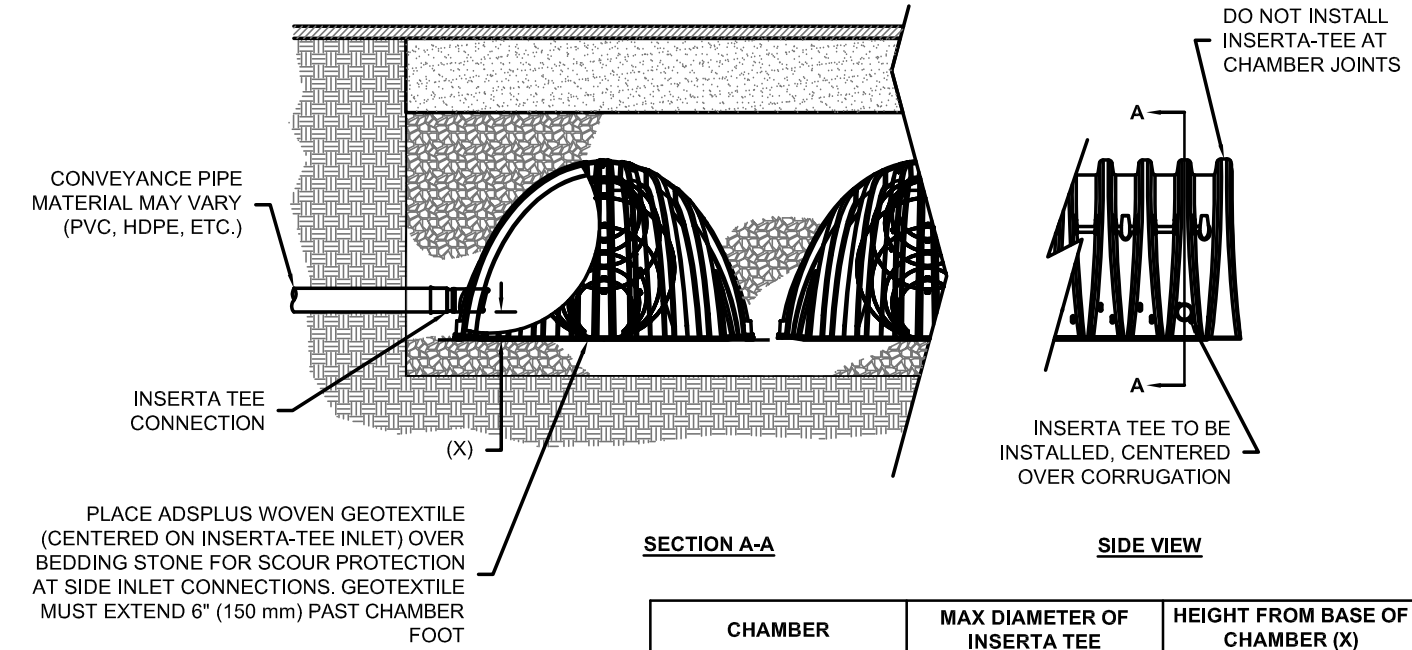
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

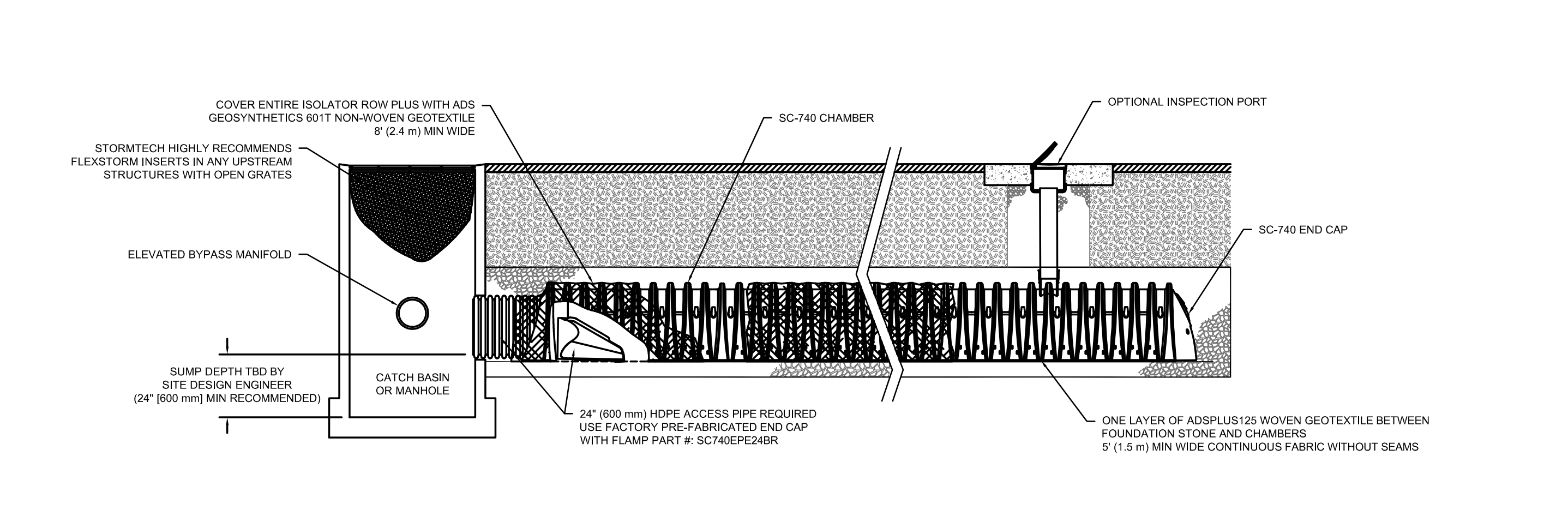


5 UNDERDRAIN DETAIL

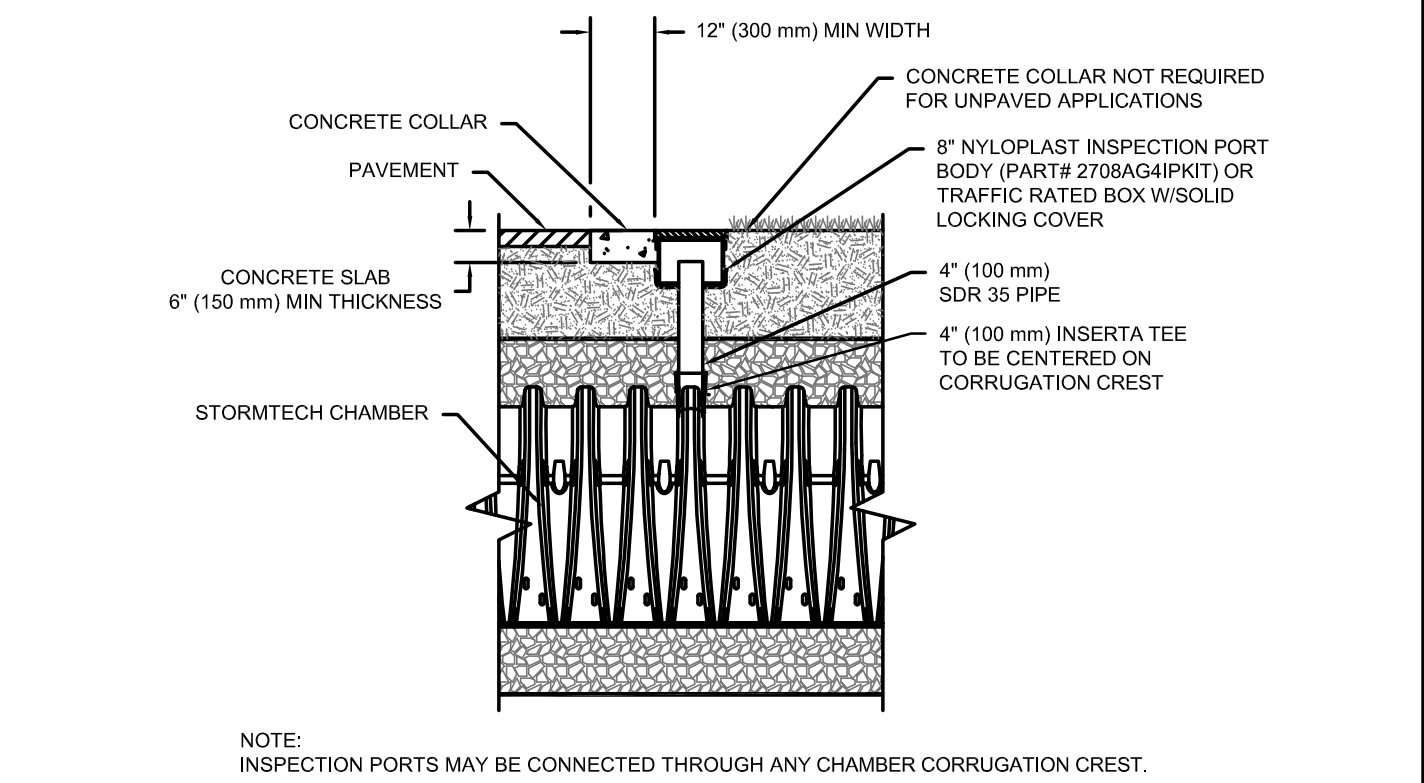


- NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
 - CONTACT ADS ENGINEERING SERVICES IF INSERT TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

6 INSERTA-TEE SIDE INLET DETAIL



3 SC-740 ISOLATOR ROW PLUS DETAIL



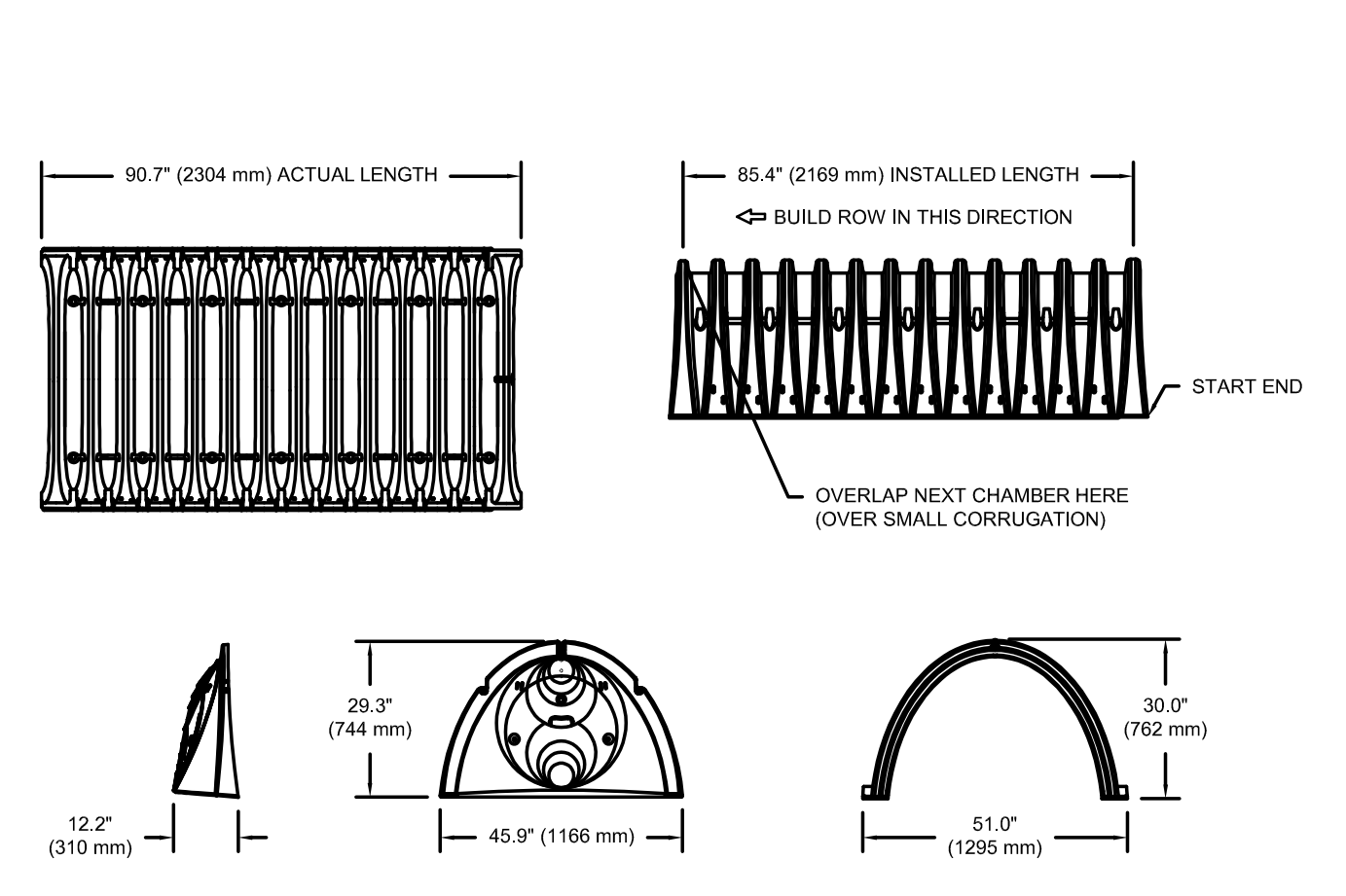
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)



NOMINAL CHAMBER SPECIFICATIONS			
SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 65.4"	(1295 mm X 762 mm X 2169 mm)	
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m ³)	
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m ³)	
WEIGHT	75.0 lbs.	(33.6 kg)	

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC		10.9" (277 mm)	18.5" (470 mm)	—
SC740EPE06B / SC740EPE06BPC	6" (150 mm)	—	—	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	—
SC740EPE08B / SC740EPE08BPC		—	—	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740EPE10B / SC740EPE10BPC		—	—	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EPE12B / SC740EPE12BPC		—	—	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	16.4" (467 mm)	9.0" (229 mm)	—
SC740EPE15B / SC740EPE15BPC		—	—	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EPE18B / SC740EPE18BPC		—	—	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

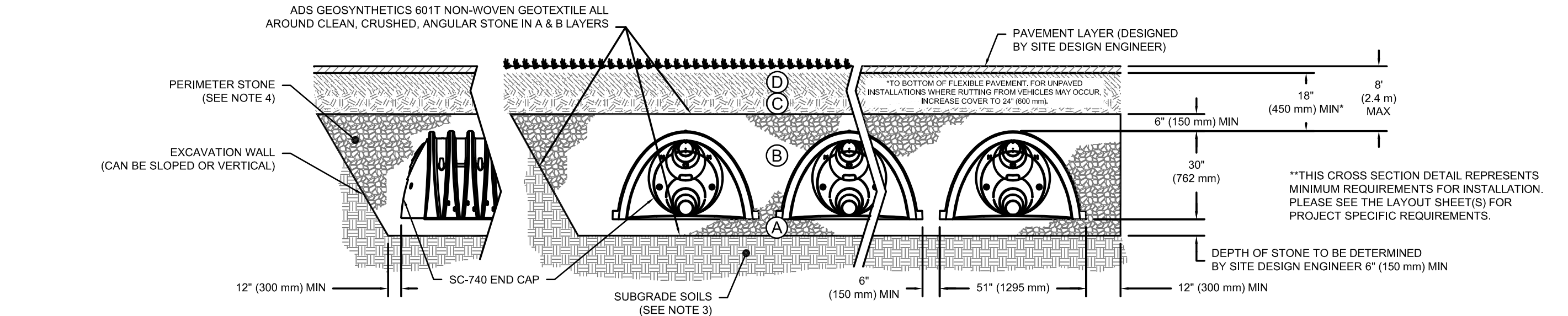
2 SC-740 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT³. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-740 CROSS SECTION DETAIL

REVIEWS:	Date	
	No.	Description



DRAWING NAME:
Storm Drainage
Details

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

C-302

Project No: 22.296

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N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

LOCKPORT EXPRESSWAY

WATER NOTE LEGEND

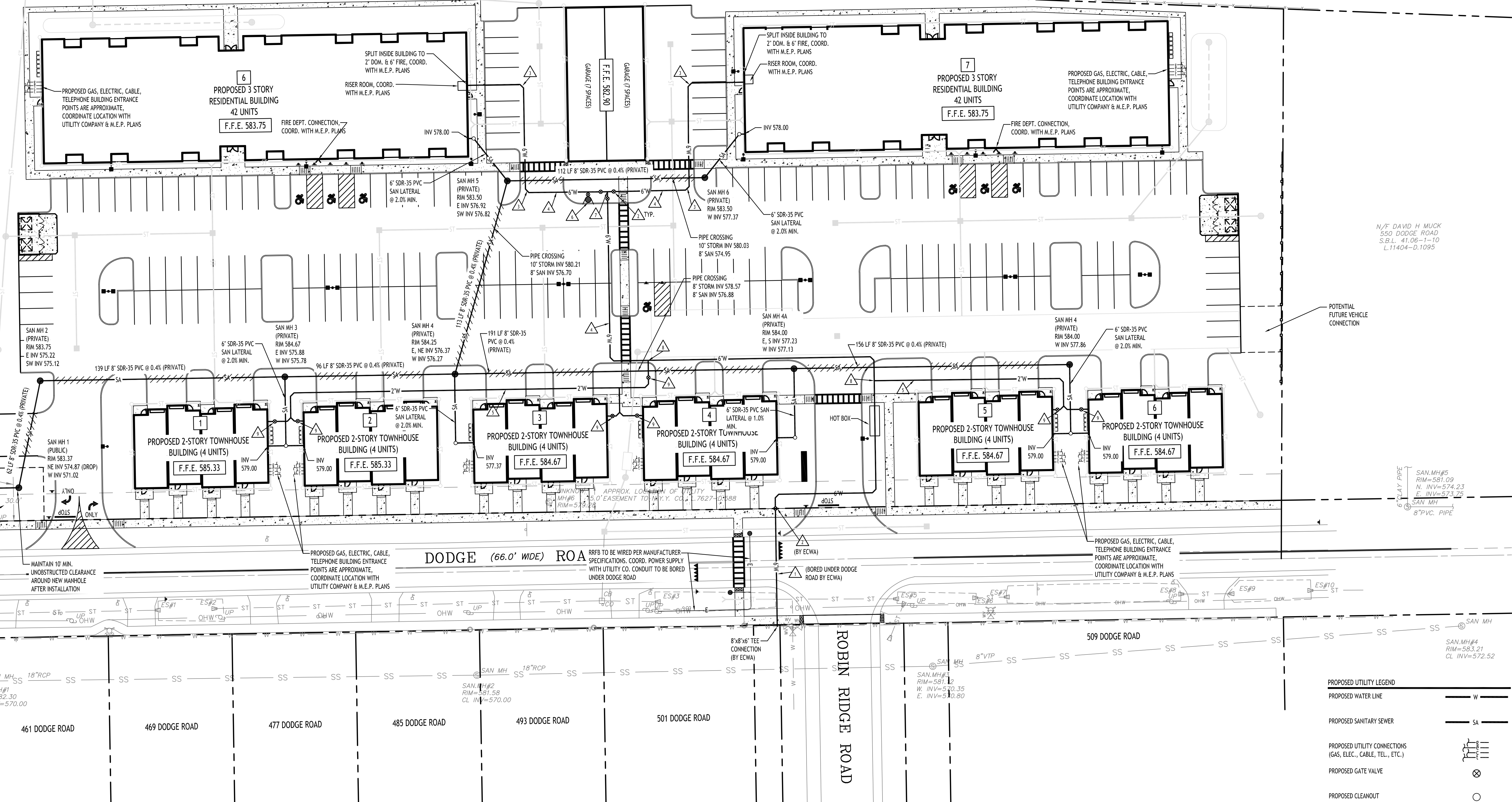
- 6" CLASS 52 DUCTILE IRON
- 6" VALVE AND BOX
- PROVIDE BENDS AND BLOCKING AS NECESSARY
- 6" AWWA C-900 PVC COMBINED SERVICE
- 2" POLYETHYLENE DOMESTIC SERVICE
- HYDRANT ASSEMBLY
- 6"x6"x6" CONNECTION W/ THREE VALVE CLUS
- 2" CORP. STOP
- 2" CURB STOP & BOX

NOTES:

- ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
- PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE TO THE WORK.
- FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
- ALL SANITARY SEWER IS TO CONSTRUCTION IS TO CONFORM TO TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS.
- ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

UTILITY NOTES:

- FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
- BUILDINGS TO HAVE INVERT ELEVATION 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6" SDR-35 PVC @ 1.0% MIN. WITH MIN 4' OF COVER. ADD CLEANKUTS @ 90' MAX. SPACING FOR 6" LATERALS OVER 90' IN LENGTH.
- COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.S.
- COORDINATE LOCATION OF CTY & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.S.
- ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
- A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
- SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH CONCRETE AND ASPHALT PAVEMENT AREAS.
- EXISTING SANITARY SEWER INVERTS AND ROUTING BASED ON RECORD DRAWINGS PROVIDED BY TOWN OF AMHERST ENGINEERING DEPARTMENT. SANITARY SEWER EASEMENTS SHOWN ARE APPROXIMATE BASED ON RECORD PLANS PROVIDED BY TOWN OF AMHERST ENGINEERING DEPARTMENT. SURVEYOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.



PROPOSED UTILITY LEGEND

- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED UTILITY CONNECTIONS (GAS, ELEC., CABLE, TEL., ETC.)
- PROPOSED GATE VALVE
- PROPOSED CLEANKUT
- INSTALL SELECT BACKFILL

END SECTION INVERTS:

ES#1	12" CMP	577.58
ES#2	12" CMP	578.35
ES#3	12" CMP	577.84
ES#4	12" CMP	577.84
ES#5	12" CMP	578.66
ES#6	12" HOPE	578.57
ES#7	12" HOPE	578.45
ES#8	12" HOPE	578.71
ES#9	12" HOPE	578.56
ES#10	12" CMP	578.89

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60'

Utility Plan
SCALE: 1"=30'

CARMINA WOOD
DESIGN

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:	No.	Description	Date
	1	Rev. per Town comments	5/23/23
	2	Rev. per Town comments	7/21/23
	3	Rev. per Town comments	12/8/23
	4	Rev. per Town comments	1/12/24
	5	Rev. per Town comments	1/18/24
	6	Clubhouse removed, townhouse added	8/22/25



DRAWING NAME:
Utility Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

C-400

Project No: 22.296

111 Bain Street, Suite 332
Amherst, NY 14203
Phone: (716) 837-9009

80 Silo City Row, Suite 100
Amherst, NY 14203
Phone: (716) 842-3165



Project No: 22.290

Project No: 22.290

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N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

N/F NYS DEPT. OF TRANSPORTATION
S.B.L. 41.06-1-7.1
LOCKPORT EXPRESSWAY, SECTION II
MAP NO. 201, PARCEL 238

APPROPRIATION OF LANDS FOR HIGHWAY PURPOSES
PROJECT LOCKPORT EXPRESSWAY
SECTION II, MAP 218, NO. 245
BY THE PEOPLE OF THE STATE OF NEW YORK
L.9027-P.222

N/F JAMES P. TRIMPER SR.
460 DODGE ROAD
S.B.L. 41.06-1-7.211
MAP BY PRATT & HUTH 1985

CONC. BLOCK BUILDING

30' WIDE SANITARY SEWER EASEMENT TO TOWN OF AMHERST, L.8212-D.306

SAN MH

30x30' SANITARY EASEMENT TO TOWN OF AMHERST

EXISTING PUBLIC HYDRANT

SAN MH

SAN MH

SAN MH

N/F DAVID H. MUCK
550 DODGE ROAD
S.B.L. 41.06-1-10
L.11404-D.1095

POTENTIAL FUTURE VEHICLE CONNECTION

APPROX. LOCATION OF UTILITY
15.0' EASEMENT TO N.Y. CO. L.7827-D.288

LOCKPORT EXPRESSWAY

DODGE (66.0' WIDE) ROAD

ROBIN RIDGE ROAD

509 DODGE ROAD

451 DODGE ROAD

461 DODGE ROAD

469 DODGE ROAD

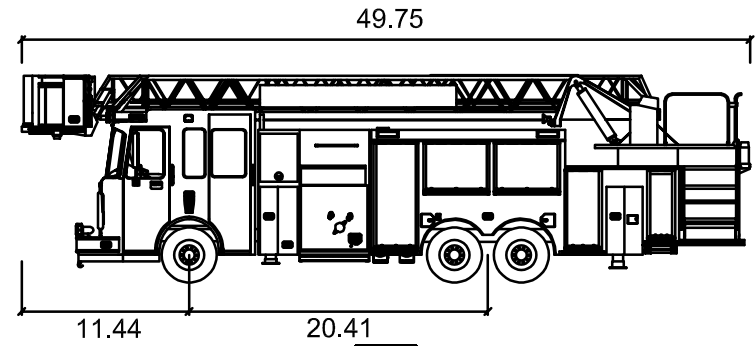
477 DODGE ROAD

485 DODGE ROAD

493 DODGE ROAD

501 DODGE ROAD

Fire Truck Plan
SCALE: 1"=30'



E-One Cyclone II

Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 31.0

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



CARMINA WOOD
DESIGN

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:
No. Description

Date



DRAWING NAME:

Fire Truck
Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

CF-100

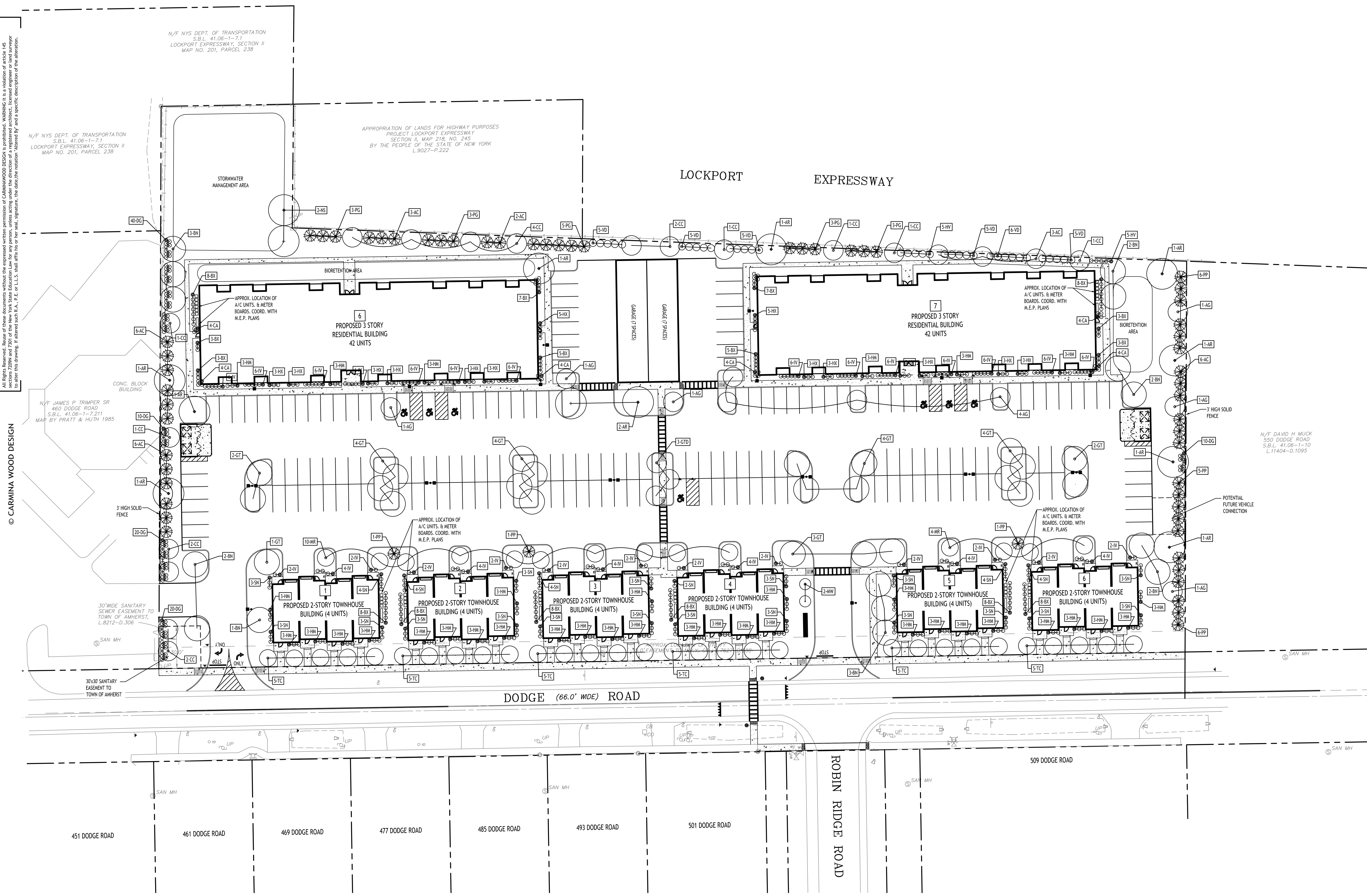
Project No: 22.296

111 Bain Street, Suite 332
Greenville, SC 29603
Phone: (336) 937-9099

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Landscape Plan
SCALE: 1"=30'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



CARMINA WOOD DESIGN
111 Bain Street, Suite 332
Greenville, SC 29615
Phone: (336) 937-9009

Multi-Family Project
480 Dodge Road
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road, East Amherst, NY 14051-2113
Phone: 716-364-5564
RCWlandscapearchitect@gmail.com

DRAWING NAME:
Landscape Plan

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.
L-100
Project No: 22.296

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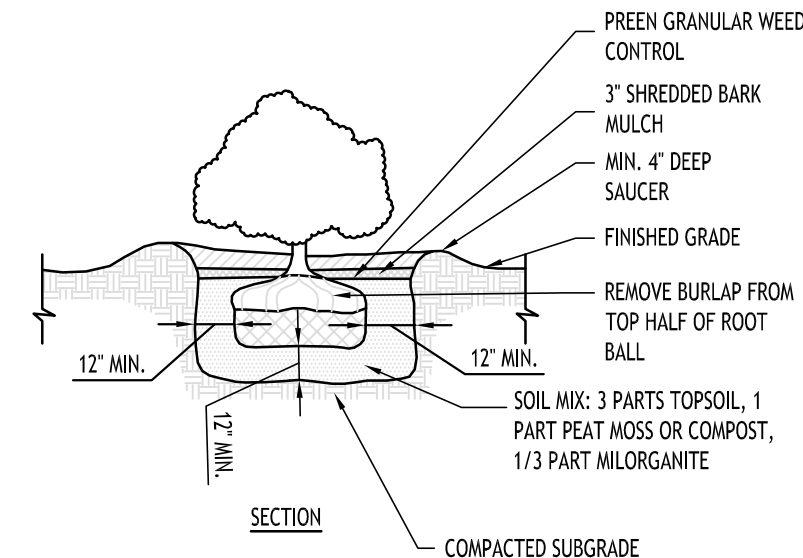
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PLANTING SCHEDULE - 480 DODGE ROAD, AMHERST, NEW YORK

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
DECIDUOUS TREES					
AG	10	ACER CAMPESTRE "GREENSTREET"	GREENSTREET MAPLE	2-1/2" CAL. MIN.	B&B
AR	11	ACER RUBRUM "AUTUMN RADIANCE"	AUTUMN RADIANCE RED MAPLE	2-1/2" CAL. MIN.	B&B
BN	15	BETULA NIGRA "CULLY"	HERITAGE BIRCH	12' HIGH MIN.	B&B; MIN 3 MAJOR STEMS
GTD	3	GLEDITSIA TRIANCANTHOS INERMIS "DRAVES"	STREET KEEPER HONEYLOCUST	2-1/2" CAL. MIN.	B&B
GT	24	GLEDITSIA TRIACANTHOS INERMIS "SKYCOLE"	SKYLINE THRONLESS HONEYLOCUST	2"-1/2 CAL. MIN.	B&B
NS	2	NYSSA SYLVATICA "WILDFIRE"	WILDFIRE BLACK GUM	2"-1/2 CAL. MIN.	B&B
TC	30	TILIA CORDATA "GLENLEVEN"	GLENLEVEN LITTLELEAF LINDEN	2-1/2" - 3" CAL.	B&B
SMALL/ORNAMENTAL TREES					
AC	3	AMELANCHIER CANADENSIS	SERVICEBERRY	8' HT. MIN.	MIN. 3 MAJOR STEMS
CC	16	CRATAEGUS CRUSGALLI INERMIS ' CRUSZAM'	CRUSADER HAWTHORN	1-3/4" - 2" CAL.	B&B
MR	14	MALLUS 'ROYAL RAINDROPS'	ROYAL RAINDROPS CRABAPPLE	1-3/4" -2" CAL.	B&B; RED FLOWER
MW	2	MAGNOLIA STELLATA "WATERLILLY"	WATERLILY STAR MAGNOLIA	1-3/4" -2" CAL.	B&B; WHITE FLOWER
EVERGREEN TREES					
AC	17	ABIES CONCOLOR**	CONCOLOR FIR	5' - 6' HT.	B&B; FULL TO GROUND
PG	16	PICEA GLAUCA**	WHITE SPRUCE	5'-6" HT.	B&B; FULL TO GROUND
PP	27	PICEA PUNGENS GLAUCA**	COLORADO BLUE SPRUCE	5'-6" HT.	B&B; FULL TO GROUND
SHRUBS					
BX	92	BUXUS "GREEN MOUNTAIN"	GREEN MOUNTAIN BOXWOOD	24" HT.	NO. 3 CONT.
DG	100	DIERVILLA 'G2X88544'	KODIAK ORANGE DIERVILLA	24" HT.	NO. 5 CONT.
HV	10	HAMAMELIS VERNALIS	VERNAL WITCHHAZEL	24" HT.	NO. 5 CONT.
HM	108	HYDRANGEA MACROPHYLLA 'SMHMES14'	LET'S DANCE RYTHMIC BLUE HYDRANGEA	24" HT.	NO. 5 CONT.
HX	46	HYPERICUM X 'DEPPE'	SUNNY BOULEVARD HYPERICUM	24" HT.	NO. 3 CONT.
IV	132	ITEA VIRGINICA 'SMNIVDFC'	SCENTLANDIA SWEETSPIRE	24" HT.	NO. 3 CONT.
SN	73	SPIRAEA 'NCSX2'	DOUBLE PLAY DOOZIE SPIREA	24" HT.	NO. 1 CONT.
VD	31	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	24" HT.	NO. 5 CONT.
ORNAMENTAL GRASS					
CA	24	CALAMAGROSTIS X ACUTIFOLIA 'KARL FOERSTER**	KARL FOERSTER FEATHER REED GRASS	NO. 3 CONT.	

*MEASURED FROM GROUND TO BOTTOM OF LEADER
**ORNAMENTAL GRASSES SHOULD BE PRUNED BACK IN LATE FALL OR EARLY SPRING TO ALLOW NEW FOLIAGE TO GROW IN SPRING

NOTES:
1. ALL PLANTING BEDS & TREE PITS SHALL RECEIVE A MIN. 3-INCH DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE CALLED OUT ON PLANS.

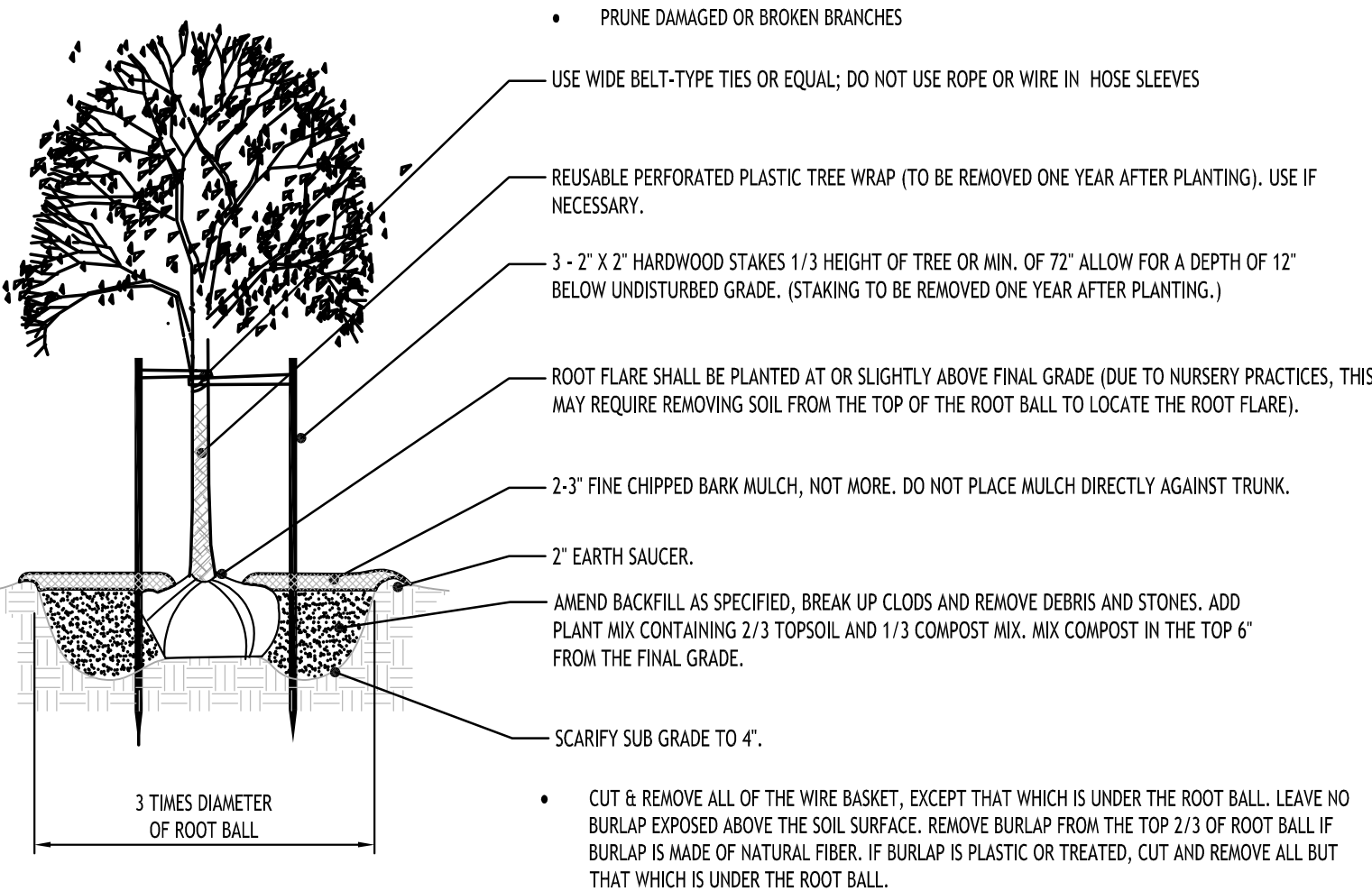


SHRUB PLANTING DETAIL

NOT TO SCALE

PLANTING NOTES:

- ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
- ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
- ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
- ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.
- EXISTING TREE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL TREES WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION AND COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE RESPONSIBLE MEASURES TO PROTECT EXISTING TREES TO REMAIN FROM ANY POSSIBLE ROOT OR LIMB DAMAGE.
- ALL ARBORVITAE PLANTINGS SHALL BE WRAPPED IN BURLAP DURING WINTER TIMES.



TOWN OF AMHERST TREE PLANTING DETAIL

NOT TO SCALE

CARMINA WOOD

DESIGN

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111 Bain Street, Suite 332
Amherst, NY 14203
Phone: (336) 937-9089

Multi-Family Project

480 Dodge Road
Amherst, NY

REVISIONS:		Date
No.	Description	
1	Rev. per Town comments	5/23/23
2	Rev. townhouse layout	6/21/23
3	Rev. per Town comments	7/21/23
4	Rev. per Town comments	8/10/23
5	Rev. per Town comments	9/12/23
6	Clubhouse removed, townhouse added	8/22/25



Robert C. Walter, RLA
Registered Landscape Architect
Member American Society of Landscape Architects
2765 Dodge Road, East Amherst, NY 14205-2113
Phone: 716-368-5564
RCW.Landscapearchitect@gmail.com

DRAWING NAME:

Landscape Notes
& Details

Date: 3/20/23
Drawn By: P. Sheedy
Scale: As Noted

DRAWING NO.

L-101

Project No: 22.296

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Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Surfcwe	Illuminance	Fc	1.41	12.3	0.0

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS.
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**CURTAIN FURNISHED,
INSTALLED AND WIRED BY ELECTRICAL
CONTRACTOR.**

ELECTRICAL CONTRACTOR FURNISHED POLE
15' HEIGHT UNLESS OTHERWISE NOTED

4"x6" GASKET HAND HOLE

ELECT. CONTRACTOR TO CONNECT TO CADDWELD
GROUND WIRE TO

1"x45" CHAMFER

UNIFORM FORMED CONCRETE
GRADE 24" DIAMETER

FURNISHED AND INSTALL IN-LINE
BALLAST FIRES IN BUSMANN
"TROW WEATHERPROOF FUSE
HOLDERS HEB-AD WITH #ATK
FUSES (SIZE AS REQUIRED)

4 - 40"x17" Ø ANCHOR BOLTS

#3 REINFORCING TIES
12" ON CENTER

FINISHED GRADE

#6 BARE GROUND WIRE

CADDWELD CONNECTIONS
(BOTH ENDS)

3/4" x 1/4" COPPER WELD
GROUND ROD (LIGHTNING
PROTECTION)

CARLON PLASTIC CONDUIT

GALVANIZED STEEL TO CARLON
CONDUIT CONNECTOR

GALVANIZED CONDUIT "ELL"

4 - #8 VERTICAL
REINF. BARS

SEE NOTE

3'-5" MIN.
TO SOLID BEARING

6'-2" MIN. AND DOWN
TO SOLID BEARING

3" COVER

24" DIA.
CONCRETE
BASE

ALL CONCRETE WORK AND
REINFORCING SHALL BE
BY SITE CONTRACTOR

NOTES:

1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
IN CURBED ISLANDS: 6' ABOVE TOP OF CURB ELEVATION
IN PAVEMENT: 3' ABOVE GRADE
IN NON-CURBED GRASS AREAS: 6' ABOVE GRADE

LIGHT POLE FOUNDATION - 8

NOT TO SCALE

REVISIONS:		No.	Description	Date
1	Rev. per Town comments			5/23/23
2	Rev. per updated layout			7/21/23
3	Clubhouse removed, townhouse added			8/22/25



Project No: 22-206

Project No: 22.296

Project No: 22-206

Project No: 22.296