C001 GENERAL NOTES

- THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. **DIAL 811 OR (800) 242-8511**
- THE UNDERGROUND LOCATIONS OF THE PUBLIC UTILITIES WERE MARKED BY REPRESENTATIVES OF THOSE COMPANIES. THE LOCATIONS OF THE PRIVATELY OWNED UNDERGROUND UTILITIES WERE NOT MARKED.
- THERE MAY BE MORE UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- ANY AND ALL PARTIES UTILIZING VERTICAL DATUM SHALL ALWAYS CHECK INTO AT LEAST TWO (2) BENCHMARKS TO AVOID MISTAKES DUE TO HYDRANT ADJUSTMENTS OR TRANSPOSITIONAL ERRORS. FAILURE TO DO SO WILL BE CONSIDERED TANTAMOUNT TO GROSS NEGLIGENCE AND SUBJECT THE OFFENDING PARTY TO ANY DAMAGES RESULTING THEREFROM.
- THIS DOCUMENT HAS BEEN PREPARED FOR A SPECIFIC APPLICATION AND SOLELY FOR THE USE OF GERRARD DEVELOPMENT, LLC AND NOT FOR GENERAL USE. IT MAY NOT BE USED WITHOUT THE EXPRESSED WRITTEN CONSENT OF PARAGON ASSOCIATES, INC. UNAPPROVED USE IS THE SOLE RESPONSIBILITY OF THE UNAUTHORIZED USER.
- THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD OR ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. EASEMENTS THAT ARE SHOWN ARE BASED ON DOCUMENTS FROM OUR FILES, AND MAY OR MAY NOT HAVE BEEN VACATED. OTHER EASEMENTS MAY EXIST ON THE PROPERTY SURVEYED.
- THIS DOCUMENT IS BEING FURNISHED TO GERRARD DEVELOPMENT, LLC IN THE FORM OF AN AUTOCAD DRAWING. THE PURPOSE OF THE AUTOCAD DRAWING IS FOR USE WITHIN THE AUTOCAD SOFTWARE PROGRAM WITH THE UNDERSTANDING THAT THE CAPABILITY OF AUTOCAD TO DIMENSION AN ELEMENT OF A DRAWING EXCEEDS THE DEGREE OF PRECISION TO WHICH THAT ELEMENT MAY HAVE BEEN LOCATED. FIELD VERIFICATION MAY BE NECESSARY BEFORE DESIGN IS FINALIZED.

C001 LEGEND

EXISTING TOPOGRAPHY

- CONTOUR MAJOR
- CONTOUR MINOR
- SPOT ELEVATION
- SPOT ELEVATION TOP / BOTTOM CURB OR WALL
- CONIFEROUS TREE, SIZE NOTED
- DECIDUOUS TREE, SIZE NOTED
- FENCE
- BOLLARD
- SINGLE POST SIGN
- TACTILE MAT (ADA)

EXISTING UTILITIES

- SANITARY SEWER
- STORM SEWER
- WATERMAIN / SERVICE
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITIES
- GAS
- UNSPECIFIED COMMUNICATION LINE
- SANITARY MANHOLE
- STORM MANHOLE
- CURB INLET
- DOWNSPOUT
- WATER MANHOLE
- HYDRANT
- WATER VALVE
- CURB STOP
- COMMUNICATIONS MANHOLE
- GAS METER
- ELECTRIC METER
- AIR CONDITIONER
- UTILITY POLE
- GUY ANCHOR
- UNKNOWN PEDESTAL
- UNKNOWN PULLBOX

PLAN SCALE: 1"=20'

REVISIONS	BY

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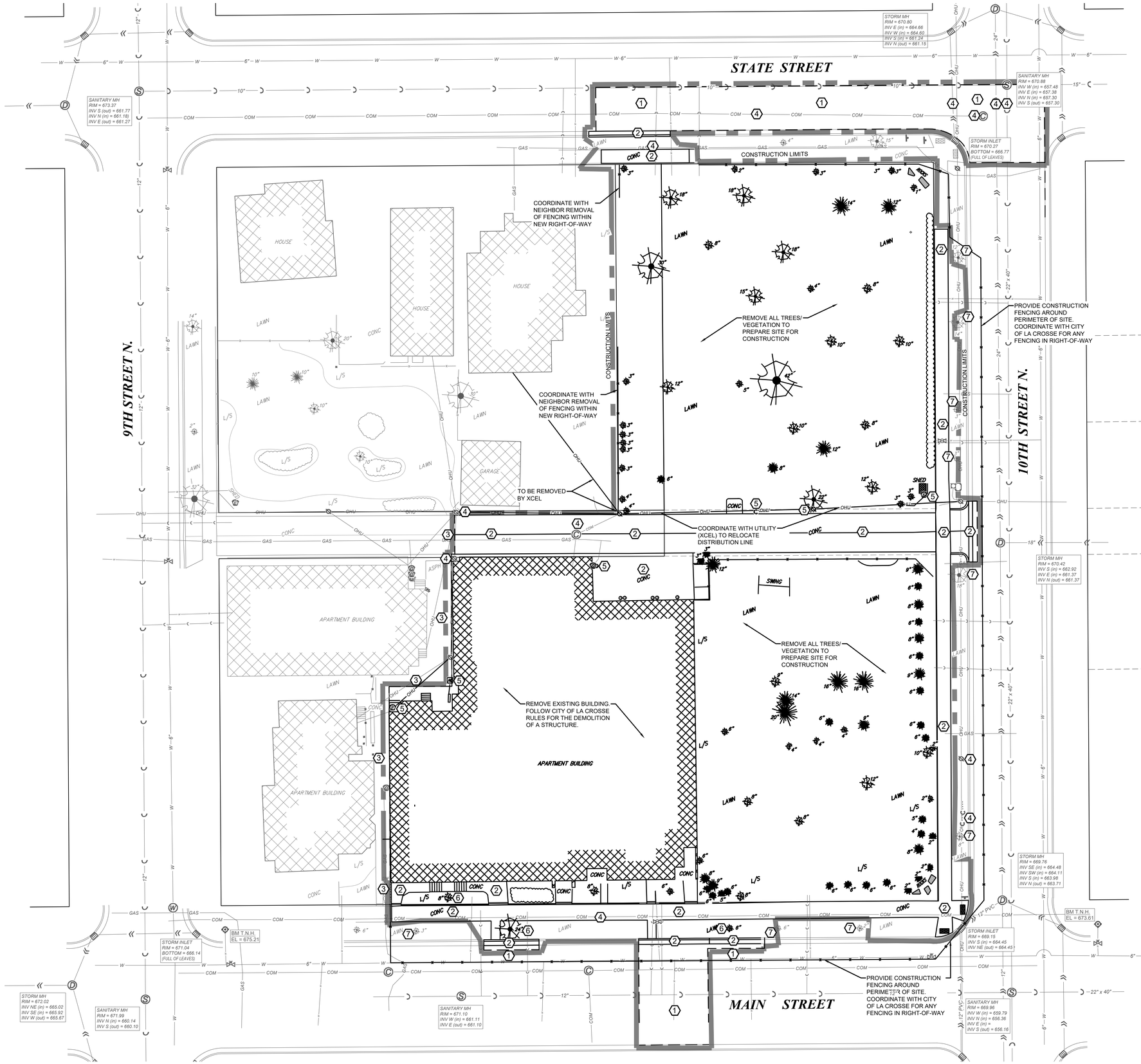
PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
TOPOGRAPHIC SITE MAP

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C001



SITE NOTES

-The location of existing utilities, both underground and overhead are approximate only and have not been independently verified by the owner or its representatives. The contractor shall be responsible for determining the exact location of all existing utilities, whether shown on these plans or not, before commencing work, and shall be fully responsible for any and all damages which might be caused by the contractor's failure to exactly locate and preserve any and all utilities. CALL DIGGERS HOTLINE (800) 242-8511

-The underground locations of the Public Utilities were marked by representatives of those companies. The locations of the privately owned underground utilities were not marked.

-There may be more underground utility installations within the project area that are not shown.

-It shall be the contractors responsibility to arrange for any necessary inspections by local government that may be required.

-Any and all parties utilizing vertical datum shall always check into at least two (2) benchmarks to avoid mistakes due to hydrant adjustments or transpositional errors. failure to do so will be considered tantamount to gross negligence and subject the offending party to any damages resulting therefrom.

-There may be discrepancies between the building exterior as located on the survey and what was provided by the architect. Verify dimensions prior to construction.

DEMOLITION NOTES

1. SAW CUT AND REMOVE EXISTING PAVEMENT
2. REMOVE EXISTING CONCRETE CURB OR PAVEMENT TO NEAREST JOINT
3. PROTECT EXISTING IMPROVEMENT IN PLACE
4. PROTECT EXISTING UTILITY IN PLACE
5. REMOVE EXISTING UTILITY
6. REMOVE EXISTING TREE
7. PROTECT EXISTING TREE

REVISIONS	BY

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GERRARD CORP.

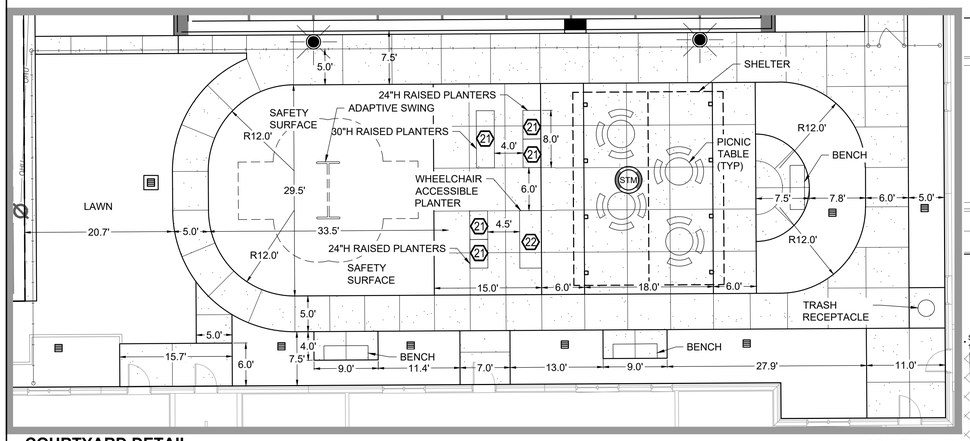
HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
DEMOLITION PLAN

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C050

N

10 0 10 20

PLAN SCALE: 1"=20'



COURTYARD DETAIL SCALE: 1" = 10'

SITE NOTES

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-There may be discrepancies between the building exterior as located on the survey and what was provided by the architect. Verify dimensions prior to construction.

SITE NOTES

1. SEE DETAIL A/C500 FOR ASPHALT PAVEMENT
2A. SEE DETAIL B/C500 FOR CONCRETE PAVEMENT - TYPE 1
2B. SEE DETAIL B/C500 FOR CONCRETE PAVEMENT - TYPE 2
3. SEE DETAIL C/C500 FOR TYPICAL 24" CURB AND GUTTER SECTION
4. SEE DETAIL D/C500 FOR 24" CURB AND GUTTER SECTION - REVERSE SLOPE
5. SEE DETAIL E/C500 FOR TYPICAL 24" MOUNTABLE CURB & GUTTER
6. SEE DETAIL F/C500 FOR TYPICAL 24" MOUNTABLE CURB & GUTTER - REVERSE SLOPE
7. SEE DETAIL G/C500 FOR CONCRETE LIGHT BASE. MAXIMUM LIGHT POLE HEIGHT OF 18'
8. SEE DETAIL H/C500 FOR END SECTION CURB AND GUTTER
9. SEE DETAIL I/C500 FOR END SECTION CORNER MOUNTABLE CURB
10. SEE DETAIL J/C500 FOR INTEGRAL CURB/SIDEWALK
11. SEE DETAIL K/C500 FOR CONCRETE PAVING AND JOINTING
12. SEE DETAIL L/C500 FOR STANDARD CONCRETE APRON
13. SEE DETAIL M/C500 FOR SIDEWALK RAMP
14. SEE DETAIL N/C500 FOR DISABLED PARKING SIGN
15. SEE DETAIL O/C500 FOR CONCRETE WALL AND RAILING
16. SEE ARCHITECTURAL FOR STAIRS AND RAMP
17. COLORED CONCRETE
18. TURF AND SWING SUPPLIER/INSTALLER SELECTED BY OWNER
19. CONCRETE IN ALLEY TO BE CONSTRUCTED TO CITY OF LA CROSSE STANDARDS
20. CONCRETE SIDEWALKS TO BE CONSTRUCTED TO CITY OF LA CROSSE STANDARDS
21. RAISED PLANTERS TO BE WAUSAU TILE (4) 48"X30"X24" AND (1) 72"X30"X30" PLANTERS
22. PLANTER TO BE RUTHERFORD 4 SPACE PLANTER BY WISHBONE SITE FURNISHINGS

COMMERCIAL DESIGN STANDARDS REQUIREMENTS:
SNOW STORAGE: SNOW WILL BE REMOVED FROM SITE
REQUIRED PARKING SPACES (1 STALL/BEDROOM): 118 SPACES
PROPOSED PARKING SPACES: 68 SPACES
REQUIRED BIKE PARKING SPACES (1 SPACE PER 10 PARKING STALLS): 7 SPACES
REQUIRED BIKE PARKING SPACES (1 SPACE PER 20 EMPLOYEES): 1 SPACE
PROPOSED BIKE STORAGE MOUNTS: 7-70 (DEPENDING ON TENANT NEEDS)
PROPOSED EXTERIOR BIKE SPACES: 2 SPACES

REVISIONS	BY

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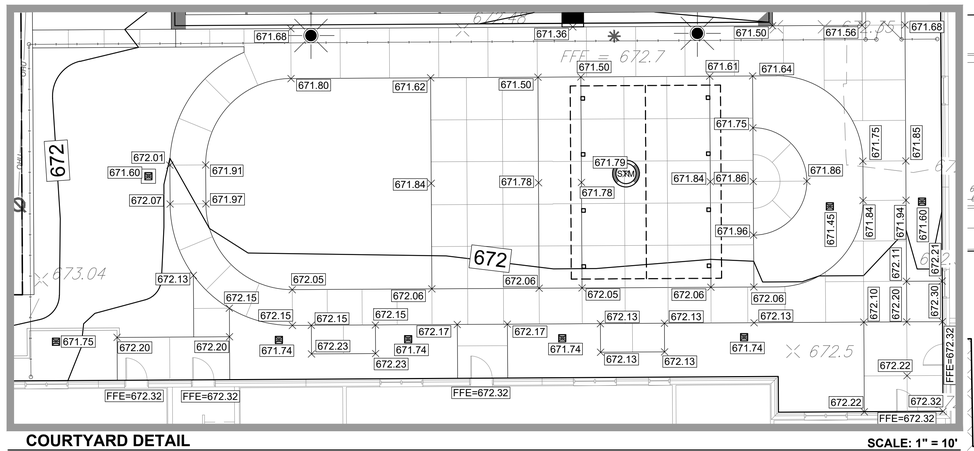
PREPARED FOR:
GERRARD CORP.

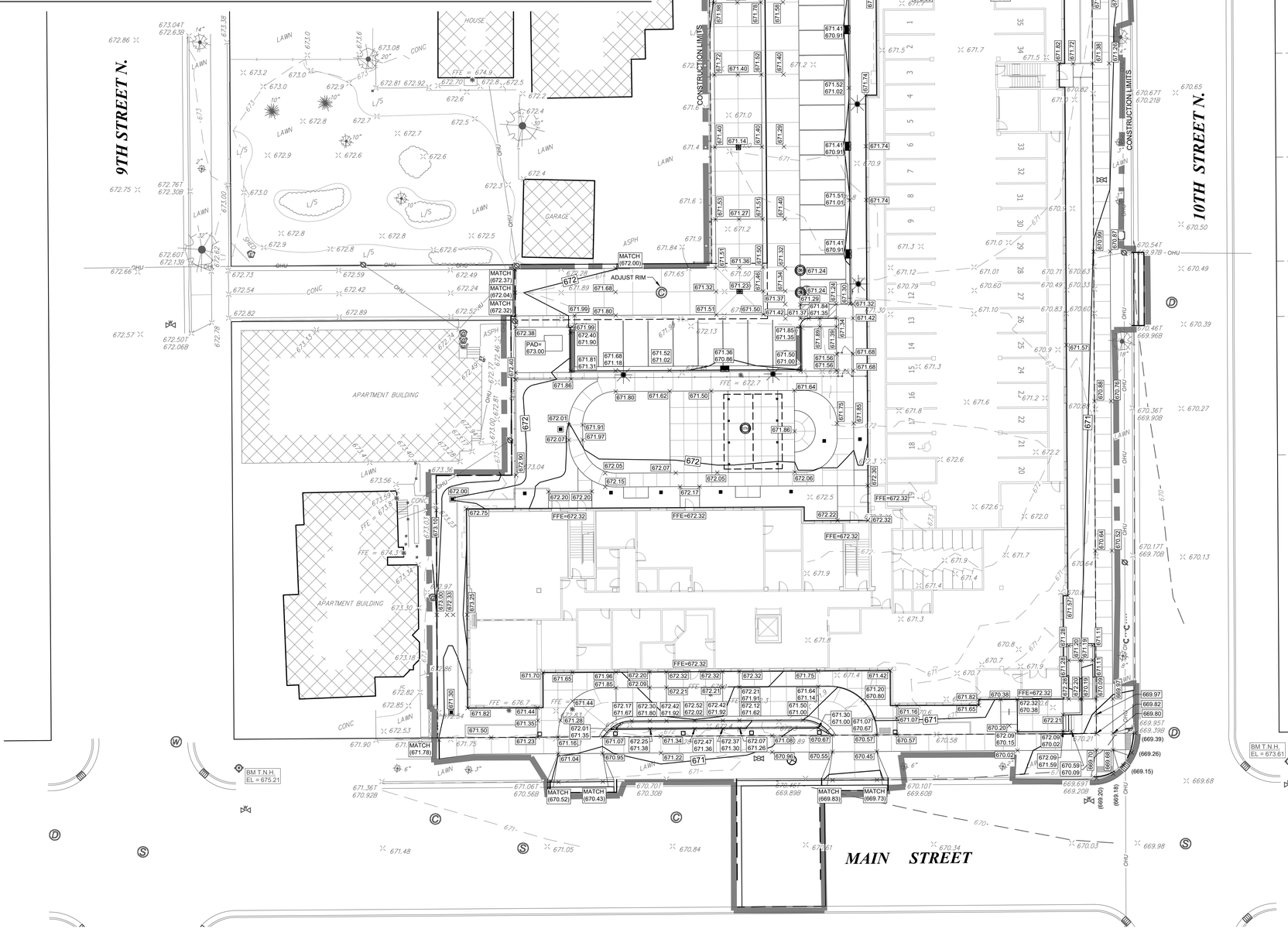
HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
SITE PLAN

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C100

10 0 10 20
PLAN SCALE: 1"=20'



COURTYARD DETAIL SCALE: 1" = 10'



GRADING NOTES

-CONTOURS SHOWN ARE FOR FINISHED SURFACES, ANY ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.

-ALL DISTURBED AREAS THAT ARE UNPAVED ARE TO BE LANDSCAPED OR HAVE LAWN ESTABLISHED AS INDICATED ON THE EROSION CONTROL AND LANDSCAPE PLANS.

-ALL LANDSCAPED OR LAWN AREAS SHALL HAVE A MINIMUM OF 6" OF TOPSOIL.

-SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. HOWEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF SPOT ELEVATIONS DO NOT APPEAR TO AGREE WITH THE CONTOURS AND SLOPES LABELED. SPOT ELEVATIONS AND SPECIFIC PROFILE INFORMATION SHALL BE USED FOR ESTABLISHING THE ELEVATION OF CURBS, DRIVEWAYS, AND OTHER UTILITIES.

-ALL FINISHED GRADING SHALL PROVIDE FOR A SMOOTH TRANSITION TO UNGRADED AREAS.

-ALL PVC STORM SEWER PIPING SHALL BE MINIMUM SDR 35

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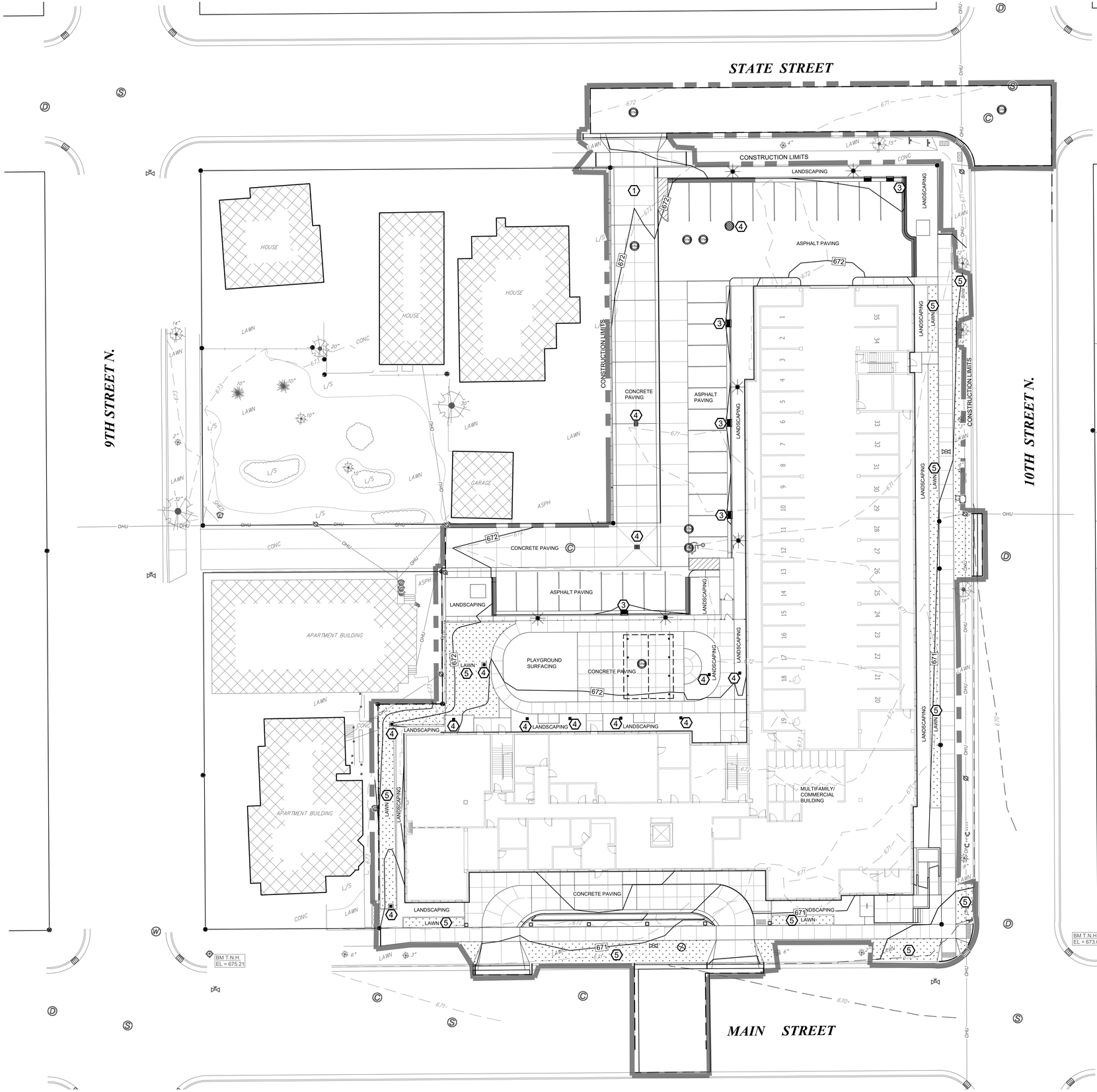
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
GRADING PLAN

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C200

PLAN SCALE: 1"=20'



STORM WATER CONSTRUCTION POLLUTION PREVENTION NOTES

SITE CLEARING SHALL APPLY TO ALL AREAS INSIDE LIMITS AS SHOWN ON THE PLANS. REMOVE ALL TREES COMPLETELY AS DIRECTED BY THE OWNER. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED INSIDE THE LIMITS OR PLACED IMMEDIATELY ON SLOPES BEING RESTORED.

SEDIMENT CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION.

ALL DISTURBED AREAS SCHEDULED FOR PERMANENT COVER SHALL HAVE TOPSOIL APPLIED, AND BE SEEDED AND MULCHED AS SPECIFIED WITHIN 7 DAYS OF FINAL DISTURBANCE.

MAINTENANCE OF ALL INSTALLED EROSION AND SEDIMENT CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REMOVED WHEN NO LONGER NECESSARY.

MINIMUM MAINTENANCE SHALL CONSIST OF, BUT NOT LIMITED TO:

- INSPECTING ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL.
- FINISHED AREAS THAT HAVE BEEN DAMAGED OR ERODED SHALL BE RESTORED WITHIN THREE DAYS OF THE DAMAGE.
- UNFINISHED AREAS THAT HAVE BEEN DAMAGED OR ERODED SHALL HAVE THE PREVIOUS MEASURE REAPPLIED WITHIN SEVEN DAYS.
- VEHICLE TRACKING CONTROL APRON SHALL BE REMOVED AND REPLACED WHEN VOIDS BECOME FILLED WITH SEDIMENT OR IF SURFACE OPENINGS BECOME PLUGGED SO THAT THE APRON DOES NOT FUNCTION.
- SILT FENCES SHALL BE MAINTAINED IN A FUNCTIONING MANNER. FENCES SHALL NOT BE ALLOWED TO SAG, FALL DOWN, OR BECOME FILLED WITH SILT ON THE BACK SIDE. IF SILT BUILDS UP BEHIND A SILT FENCE, IT SHALL BE REMOVED IMMEDIATELY. UNDER NO CIRCUMSTANCES SHALL SILT DEPOSITS BE ALLOWED TO REACH MORE THAN $\frac{1}{3}$ THE HEIGHT OF THE FENCE.

SILT FENCE SHALL BE PLACED DOWN SLOPE OF ALL SOIL STOCK PILES DURING CONSTRUCTION IF LEFT MORE THAN SEVEN DAYS. STOCK PILES SHALL BE SEEDED AND MULCHED IF LEFT FOR MORE THAN 14 DAYS.

ADDITIONAL EROSION CONTROL FACILITIES MAY BE REQUIRED DUE TO UNFORESEEN SITE CIRCUMSTANCES OR SITE OPERATIONS.

SEDIMENT CONTROL STRUCTURES BELOW LAWN AREAS MAY BE REMOVED ONCE LAWN AND FINAL LANDSCAPING IS IN PLACE. SEDIMENT CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. SEDIMENT CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE.

SEDIMENT DEPOSITED IN ROADS OR RIGHT OF WAY DITCHES ADJACENT TO THIS SITE AS A RESULT OF THIS WORK SHALL BE REMOVED. VEGETATION SHALL BE ESTABLISHED WHEN SEDIMENT REMOVAL DESTROYS THE EXISTING VEGETATION. THE ESTABLISHMENT OF VEGETATION SHALL BE IN THE SAME MANNER AS SPECIFIED FOR SEEDING SPECIFIED ELSEWHERE ON THIS PLAN.

NOTES

1. PROVIDE VEHICLE TRACKING CONTROL APRON AT LOCATION WHERE ENTERING AND EXITING THE SITE. SEE DETAIL (A C001)
2. SEE DETAIL (B C001) FOR SILT FENCE INSTALLATION
3. SEE DETAIL (C C001) FOR INLET PROTECTION (WITH CURB BOX)
4. SEE DETAIL (E C001) FOR INLET PROTECTION (WITHOUT CURB BOX)
5. ALL DISTURBED LAWN AREAS SHALL BE SODDED.
6. PROVIDE CONCRETE WASHOUT AREA PER DETAIL (D C001). UNDER NO CIRCUMSTANCES SHALL CONCRETE WASHOUT BE ALLOWED IN ANY OTHER LOCATION ON THE SITE.

REVISIONS	BY

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PREPARED FOR:
GERRARD CORP.

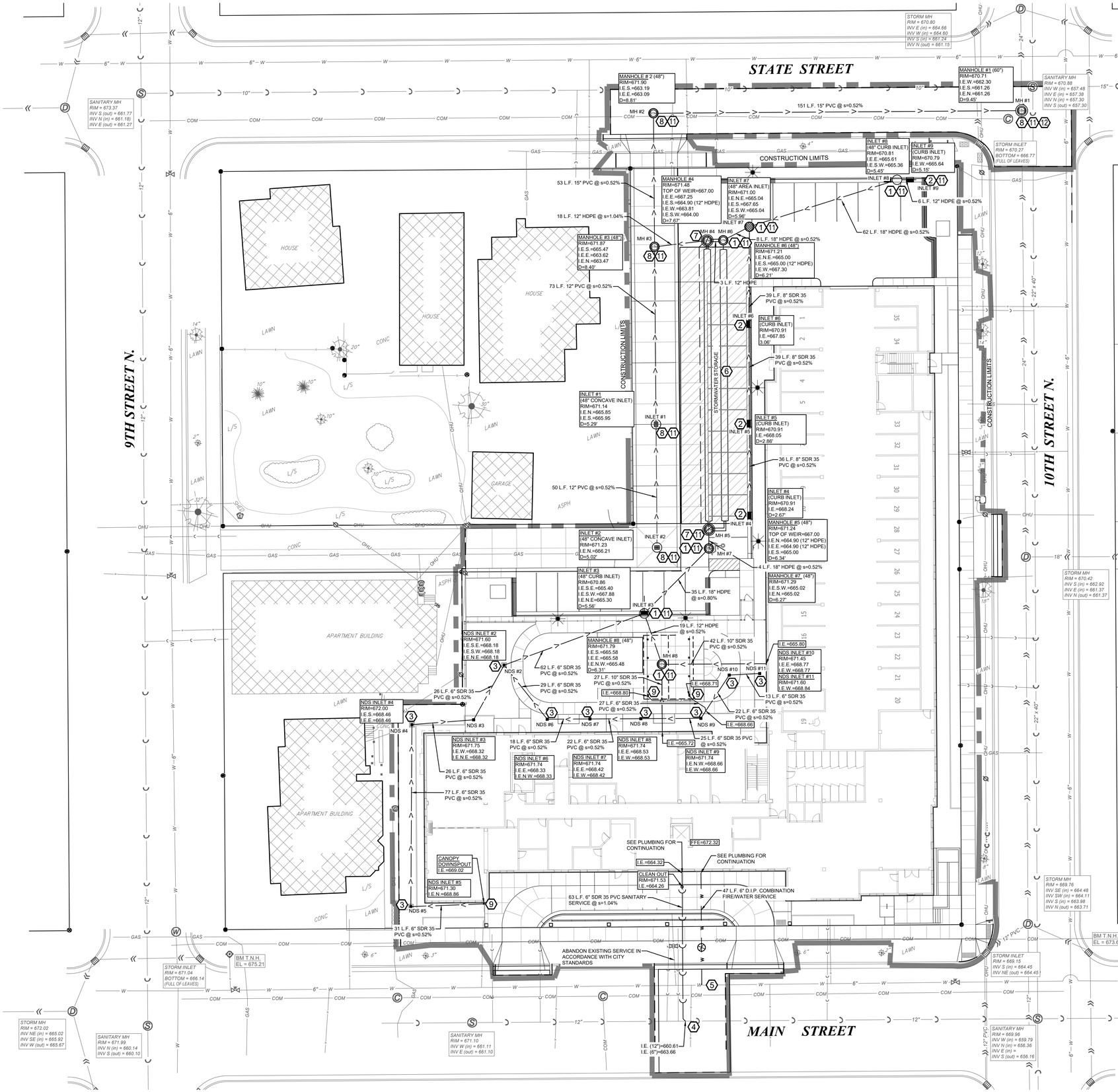
HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
EROSION CONTROL PLAN

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C300

N

10 0 10 20

PLAN SCALE: 1"=20'



UTILITY NOTES

ALL WATER & SEWER (STORM & SANITARY) CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR SEWER & WATER IN THE STATE OF WISCONSIN," ALONG WITH THE CITY OF LA CROSSE STANDARD SPECIFICATIONS, AS APPROPRIATE.

ALL WATER & SANITARY LATERALS SHALL HAVE A MINIMUM DEPTH 6' BELOW FINISHED FLOOR ELEVATIONS. THE CONTRACTOR IS TO COORDINATE ACTIVITIES & CONFIRM LOCATION & ELEVATION OF SERVICES WITH THE ENGINEER.

USE C.L.D.I.P. FOR ALL WATER MAIN.

ALL WATER MAINS SHALL HAVE A MINIMUM OF 7.5' OF COVER.

SUITABLE ON-SITE GRANULAR MATERIAL SHALL BE USED FOR TRENCH BACKFILL TO PROPOSED ELEVATIONS. BACKFILL SHALL BE COMPACTED AS SPECIFIED.

ALL EXISTING INVERTS & LOCATIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. ALL DISCREPANCIES FROM INFORMATION SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL IDENTIFY & MARK THE EXACT LOCATIONS OF ALL UNDERGROUND CONNECTIONS TO WATER AND SEWER MAINS, BENDS, CURB BOXES, CLEAN OUTS, ETC. ON THE AS-BUILT PLANS. COPIES OF THESE DOCUMENTS SHALL BE DELIVERED TO THE ENGINEER FOR RECORD.

LOCATION REQUIREMENT: NON-METALLIC SEWER/MAINS AND SERVICES MUST BE PROVIDED WITH TRACE WIRE OR OTHER METHODS IN ORDER TO BE LOCATED.

SHOP DRAWINGS FOR UTILITIES ARE REQUIRED.

ALL MANHOLES SHALL BE BUILT WITH ECCENTRIC CONES.

NOTES

1. SEE DETAIL G/C501 FOR MANHOLE/INLET FOR STORM SEWER
2. SEE DETAIL H/C501 FOR STORM SEWER INLET 3' X 2'
3. SEE DETAIL F/C501 FOR NDS INLET
4. SEE DETAIL K/C501 FOR RISER FOR LATERAL CONNECTION TO MAIN. LATERAL CONNECTION TO LINER ITSELF, NOT THE HOST PIPE.
5. CUT IN SLEEVE AND TEE. CONFORM TO CITY OF LA CROSSE SPECIFICATIONS
6. SEE SHEETS C502A-C502E FOR ADS StormTech SYSTEM
7. SEE DETAIL I/C501 FOR ENTRANCE AND DISCHARGE WEIR MANHOLE
8. SEE CITY OF LA CROSSE STORM SEWER DETAILS ON SHEET C503
9. SEE DETAIL J/C501 FOR DOWNSPOUT CONNECTION
10. NOT IN USE
11. ALL CONNECTIONS TO MANHOLES OR INLETS SHALL INCLUDE RUBBER BOOTS. MORTAR CONNECTIONS ARE NOT ALLOWED.
12. EXISTING PIPE SHALL BE CUT AND REMOVED TO ALLOW FOR MANHOLE BOOTS ON ALL CONNECTIONS. ESSENTIALLY, A CITY OF LA CROSSE TYPE W MANHOLE.

REVISIONS	BY

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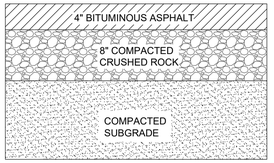
PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
UTILITY PLAN

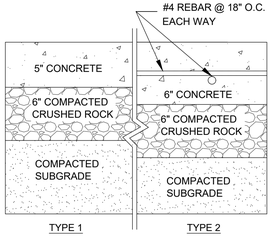
DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C400



PLACE PAVEMENT
USING ONE 2" SURFACE
LIFT OVER ONE 2"
BINDER LIFT.

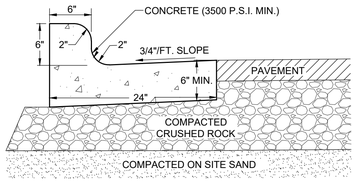
A C100 ASPHALT PAVEMENT SECTION DETAIL

NO SCALE



B C100 CONCRETE PAVEMENT SECTION DETAIL

NO SCALE

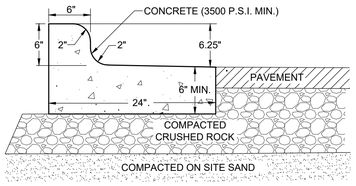


NOTE:
1. CONTROL JOINTS SHALL CONFORM WITH WISDOT 601.3.6

2. THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED FLAT OR PARALLEL TO THE SLOPE OF THE BASE COURSE PROVIDED A MINIMUM 6" GUTTER THICKNESS IS MAINTAINED

C C100 TYPICAL 24" CURB AND GUTTER SECTION

NO SCALE

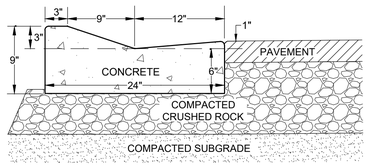


NOTE:
1. CONTROL JOINTS SHALL CONFORM WITH WISDOT 601.3.6

2. THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED FLAT OR PARALLEL TO THE SLOPE OF THE BASE COURSE PROVIDED A MINIMUM 6" GUTTER THICKNESS IS MAINTAINED

D C100 24" CURB AND GUTTER SECTION - REVERSE SLOPE

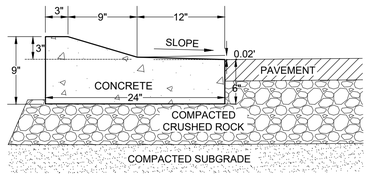
NO SCALE



NOTE:
ROCK UNDER CURB TO BE SAME DEPTH TO SUBGRADE AS ADJACENT PAVEMENT. HOWEVER, NOT LESS THAN 6".

E C100 TYPICAL 24" MOUNTABLE CURB & GUTTER

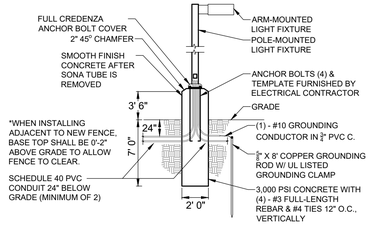
NO SCALE



NOTE:
ROCK UNDER CURB TO BE SAME DEPTH TO SUBGRADE AS ADJACENT PAVEMENT. HOWEVER, NOT LESS THAN 6".

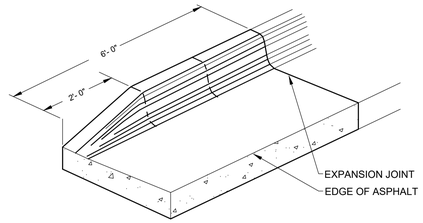
F C100 TYPICAL 24" MOUNTABLE CURB & GUTTER - REVERSE SLOPE

NO SCALE



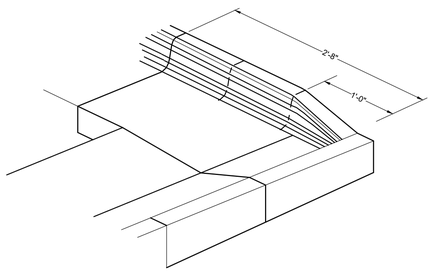
G C100 CONCRETE LIGHT BASE

NO SCALE



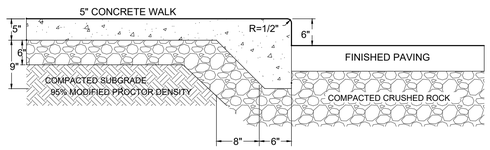
H C100 END SECTION CURB & GUTTER

NO SCALE



I C100 END SECTION CORNER MOUNTABLE CURB

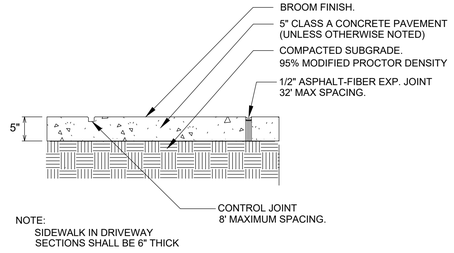
NO SCALE



NOTE:
ROCK UNDER CURB TO BE SAME DEPTH TO SUBGRADE AS ADJACENT PAVEMENT. HOWEVER, NOT LESS THAN 6".

J C100 INTEGRAL CURB/SIDEWALK SECTION

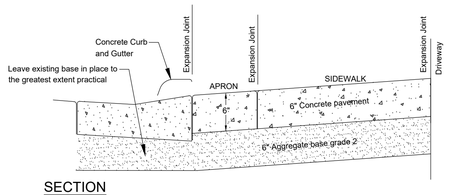
NO SCALE



NOTE:
SIDEWALK IN DRIVEWAY SECTIONS SHALL BE 6" THICK

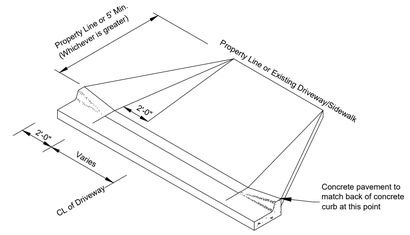
K C100 CONCRETE PAVING AND JOINTING

NO SCALE



SECTION

NOTE: SIDEWALK IN DRIVEWAY SECTIONS SHALL BE 6" THICK

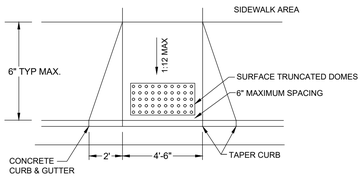


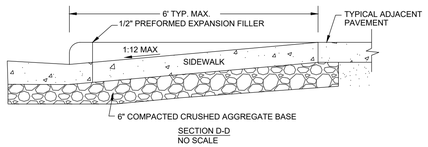
ISOMETRIC

NOTE: Control joints in concrete curb not to exceed 10' spacing through driveway section.

L C100 STANDARD CONCRETE APRON

NO SCALE



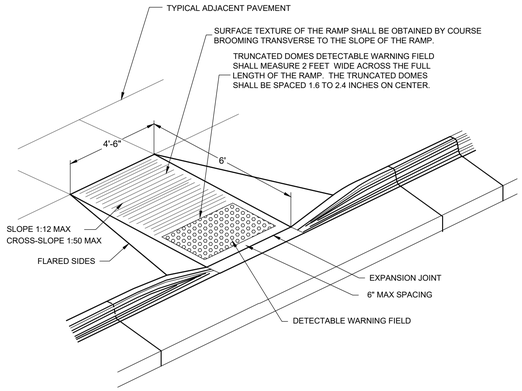


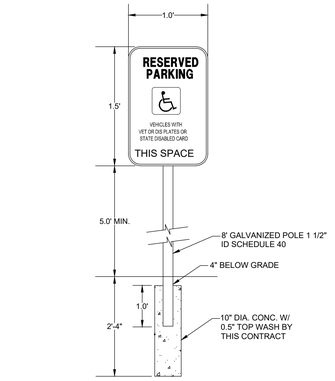
SECTION D-D
NO SCALE

NOTES:
- 2'x4' TRUCATED DOME PANELS SHALL BE CAST IRON
- THE SURFACE TEXTURE OF THE RAMP (EXCLUDING THE TRUNCATED DOME PANEL) SHALL BE A COARSE BROOMED FINISH, TRANSVERSE TO THE SLOPE OF THE RAMP.

M C100 SIDEWALK RAMP DETAIL

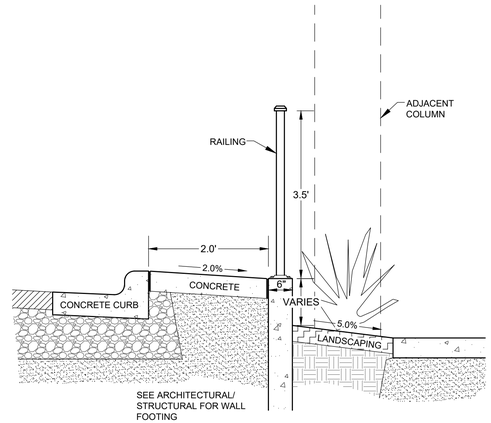
NO SCALE





N C100 DISABLED PARKING SIGN DETAIL

NO SCALE



O C100 CONCRETE WALL WITH RAILING

NO SCALE

REVISIONS	BY

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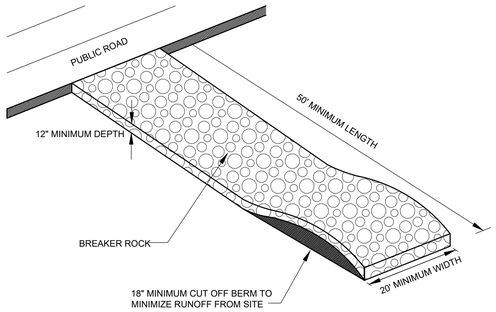
PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
DETAILS

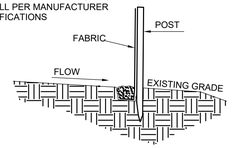
DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2024
SCALE	VARIES
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C500



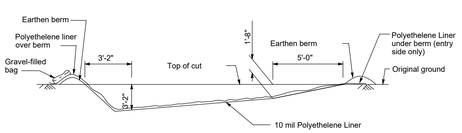
NOTES:
1. PLACE FILTER FABRIC (PROPEX 2002 OR EQUAL) UNDER BREAKER ROCK TO PREVENT MUD MIGRATION THROUGH ROCK.
2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS. FUGITIVE ROCK WILL BE REMOVED FROM ADJACENT ROADWAYS DAILY OR MORE FREQUENTLY AS NECESSARY.

A C300 **VEHICLE TRACKING CONTROL**
NO SCALE

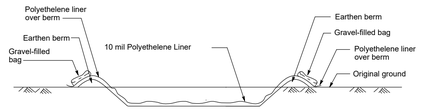
NOTE:
-REFER TO:
WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION & SEDIMENT CONTROL STANDARD SILT FENCE (1056)
-INSTALL PER MANUFACTURER SPECIFICATIONS



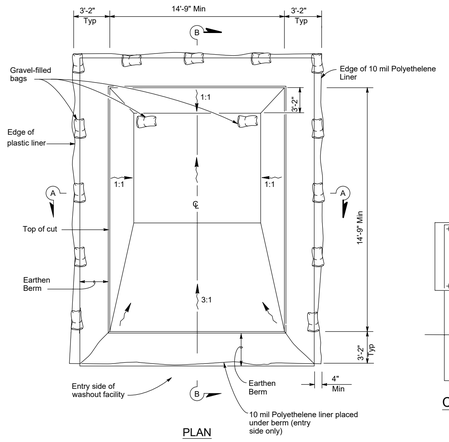
B C300 **TYPICAL SILT FENCE INSTALLATION**
NO SCALE



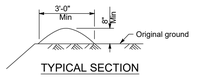
SECTION B-B



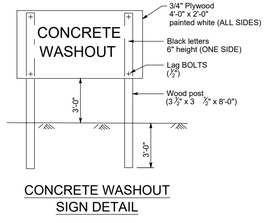
SECTION A-A



PLAN

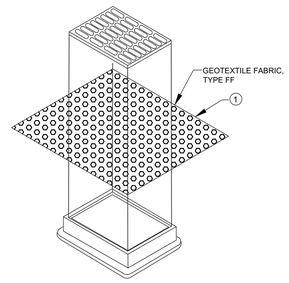


TYPICAL SECTION
EARTHEN BERM



CONCRETE WASHOUT SIGN DETAIL

C C300 **TEMPORARY CONCRETE WASHOUT FACILITY**
NO SCALE



GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WIS. D.O.T.'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

D C300 **INLET PROTECTION, TYPE B (WITHOUT CURB BOX)**
NO SCALE

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WIS. D.O.T.'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

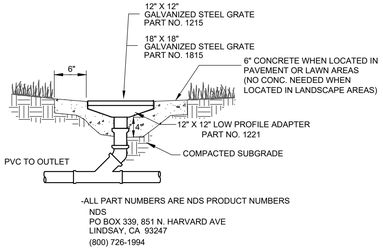
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

(2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX). AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

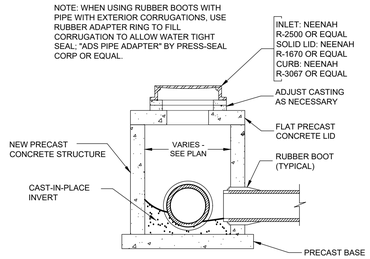
(3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

E C300 **INLET PROTECTION, TYPE C (WITH CURB BOX)**
NO SCALE

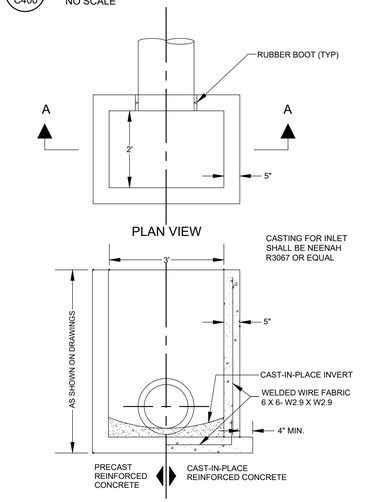


-ALL PART NUMBERS ARE NDS PRODUCT NUMBERS
NDS
PO BOX 339, 851 N. HARVARD AVE
LINDSAY, CA 93247
(800) 726-1994

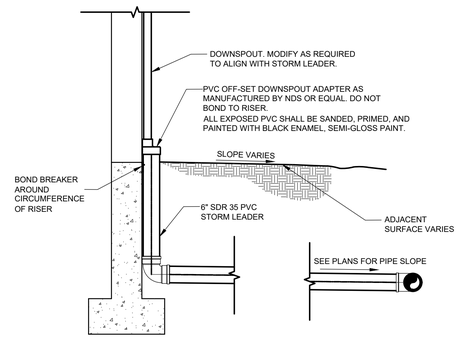
F C400 **NDS INLET**
NO SCALE



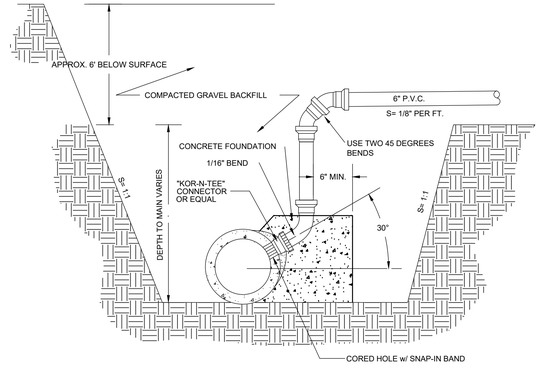
G C400 **MANHOLE/INLET FOR STORM SEWER**
NO SCALE



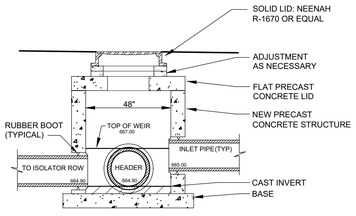
H C400 **STORM SEWER INLET 3' X 2'**
NO SCALE

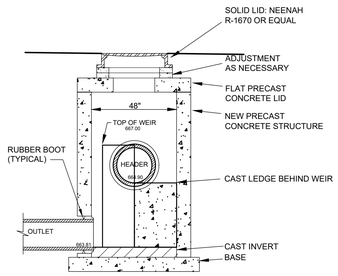


J C400 **DOWNSPOUT DETAIL**
No Scale



K C400 **RISER FOR SEWER LATERAL CONNECTION TO MAIN (12" OR LARGER)**
NO SCALE





I C400 **ENTRANCE WEIR MANHOLE (MH #7)** **DISCHARGE WEIR MANHOLE (MH #6)**
NO SCALE

REVISIONS	BY

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PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
DETAILS

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	VARIES
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C501

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	PETE MOREAU 763-392-8275 PETER.MOREAU@ADSPIPE.COM
ADS SALES REP:	BRENT YEAGER 608-212-7742 BRENT.YEAGER@ADSPIPE.COM
PROJECT NO:	S443393

Advanced Drainage Systems, Inc.

ADS SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR WEBSITE

HAVEN ON MAIN

LA CROSSE, WI

SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. 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.
6. 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.
7. 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 400 LBS/FT/%. 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.
8. 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 F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

1. STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. 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.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. 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

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & 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/SC-800/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. 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 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

REVISIONS	BY

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PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
STORMWATER CHAMBER SYSTEM

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	VARIES
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C502A

PROPOSED LAYOUT

32	STORMTECH SC-310 CHAMBERS
4	STORMTECH SC-310 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
4,567	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
3473	SYSTEM AREA (ft²)
293	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

674.15	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
668.15	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
667.65	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
667.65	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
667.65	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
667.15	TOP OF STONE
666.15	TOP OF SC-310 CHAMBER
664.90	12" ISOLATOR ROW PLUS CONNECTION INVERT
664.90	12" BOTTOM MANIFOLD/CONNECTION INVERT
664.82	BOTTOM OF SC-310 CHAMBER
664.07	UNDERDRAIN INVERT
664.07	BOTTOM OF STONE

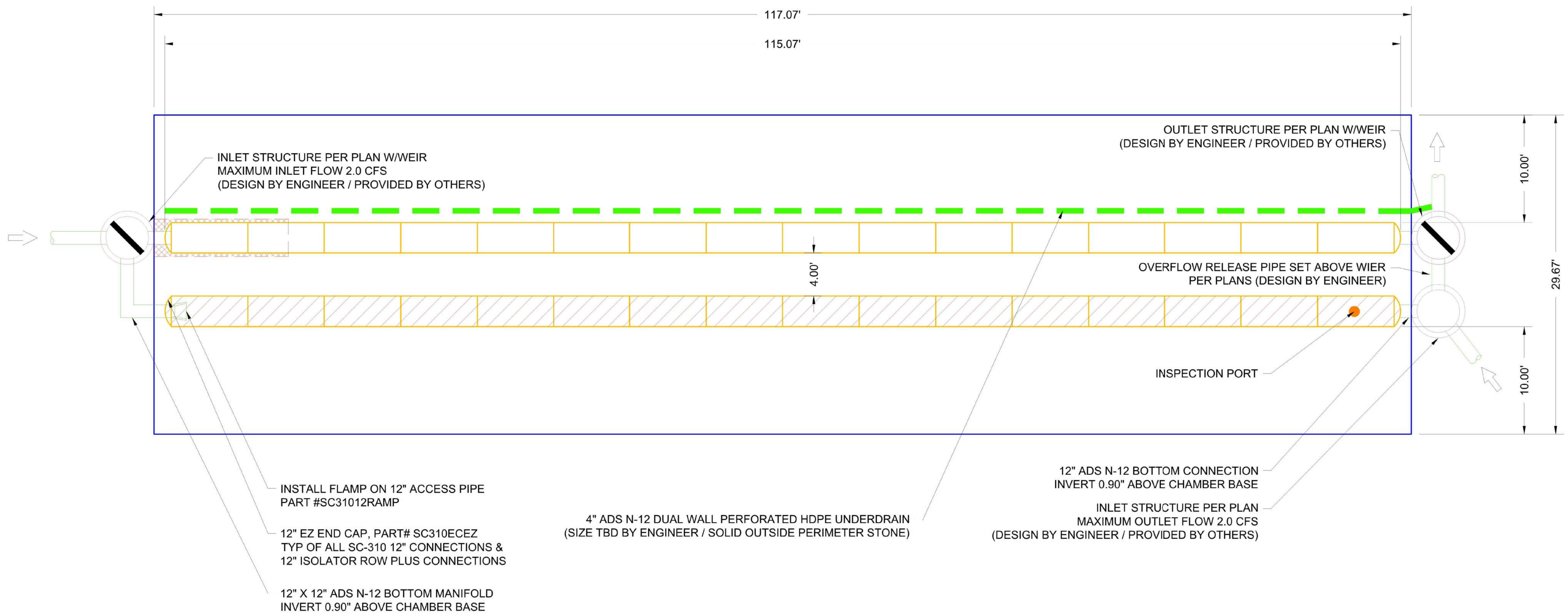
NOTES

- THE SITE DESIGN ENGINEER MUST CONSIDER THE EFFECTS OF POSSIBLE SATURATED SOILS ON NEARBY SYSTEMS, INCLUDING BUT NOT LIMITED TO, RETAINING WALLS, SLOPE CONSTRUCTION/STABILITY, OR BUILDINGS/STRUCTURES. NO FOUNDATION LOADS SHALL BE TRANSMITTED TO THE CHAMBERS.

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.5' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

THERMOPLASTIC LINER (SEE TECHNICAL NOTE 6.50 / PROVIDED BY OTHERS / DESIGN BY OTHERS)



HAVEN ON MAIN
LA CROSSE, WI
DATE: 11/20/24 DRAWN: ZYV
PROJECT #: S443393 CHECKED: XXX

DATE | DRWN | CHKD | DESCRIPTION

StormTech® Chamber System
1-800-821-6710 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

0 10' 20'

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD ("EOR") OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 2 OF 5

REVISIONS	BY

PARAGON ASSOCIATES
Environmental Design & Consulting
CIVIL ENGINEERING . LANDSCAPE ARCHITECTURE . SURVEYING
632 COPELAND AVENUE LA CROSSE, WI 54603
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PREPARED FOR:
GERRARD CORP.

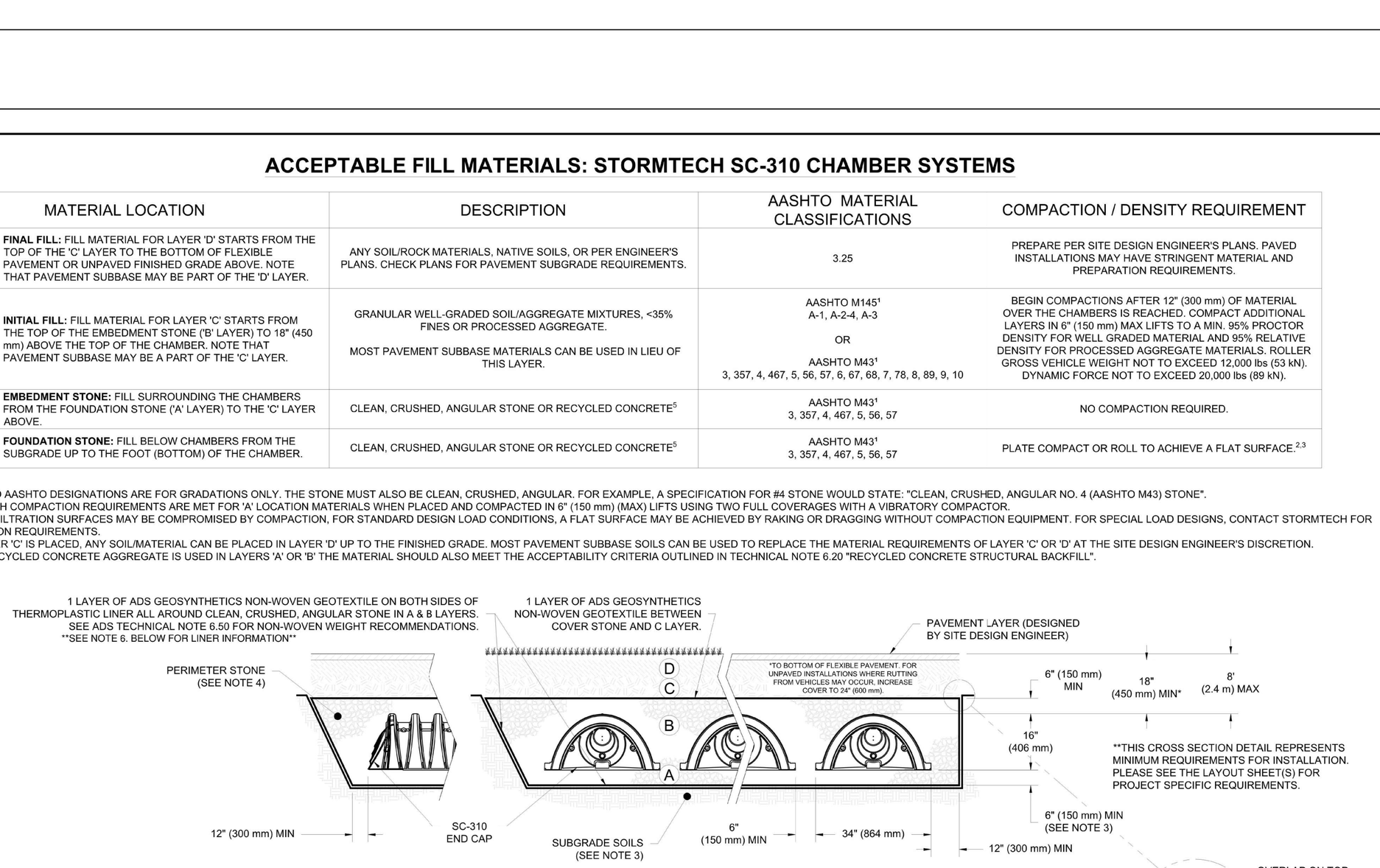
HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN
STORMWATER CHAMBER SYSTEM

DRAWN C.G.
PROJECT No 23-109
DATE 04/18/2025
SCALE VARIES
CAD FILE 23-109 Gerrard HOM 18.DWG
SHEET
C502B

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 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.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	3.25	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.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS 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.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	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.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. 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".
2. 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.
3. 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.
4. 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.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



THERMOPLASTIC LINER DETAIL
SEE NOTE 6. FOR LINER INFORMATION

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. 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 F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. 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.
6. WHERE THE PLAN REFERANCES "THERMOPLASTIC LINER" THE LINER SHALL BE WISCONSIN DNR STANDARD 1001.A, TABLE D, TYPE A.

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SHEET 3 OF 5

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DRAWN C.G.
PROJECT No 23-109
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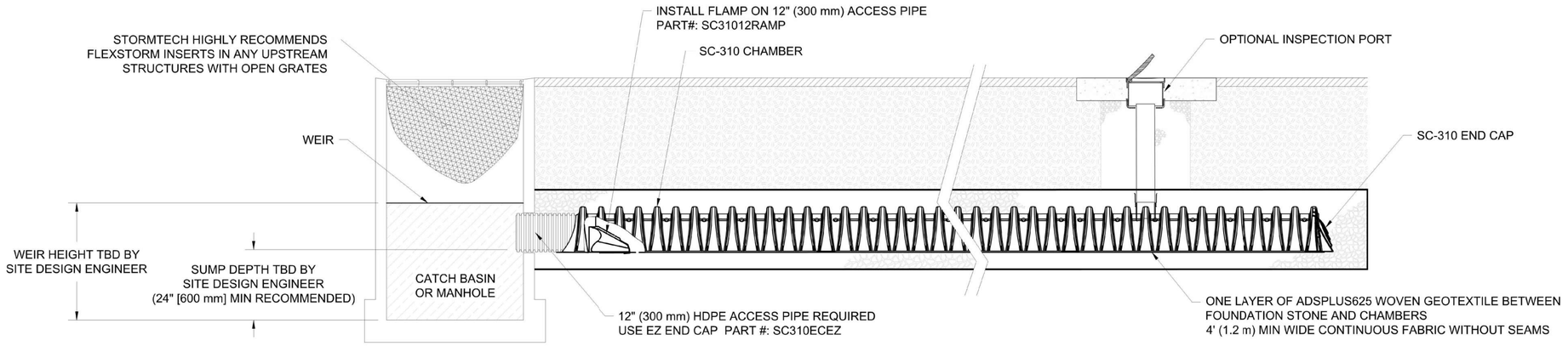
SCALE VARIES
CAD FILE 23-109 Gerrard HOM 18.DWG
SHEET

C502C



SC-310 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. 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. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

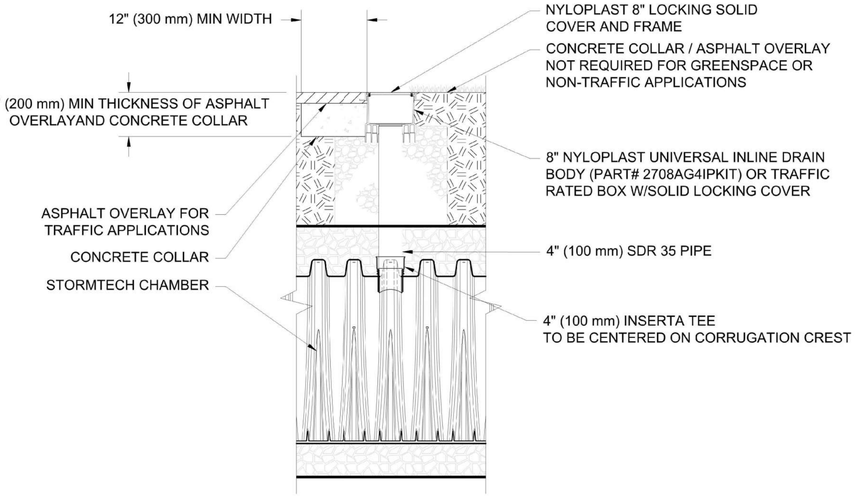
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. 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.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

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

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SCALE	VARIES
CAD FILE	23-109 Gerrard HOM 18.DWG
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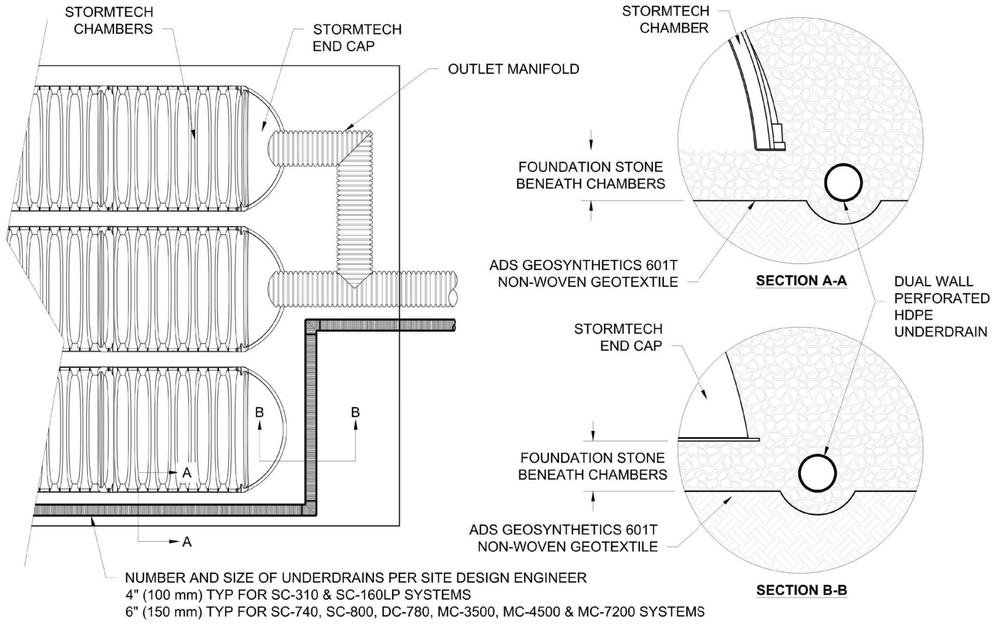
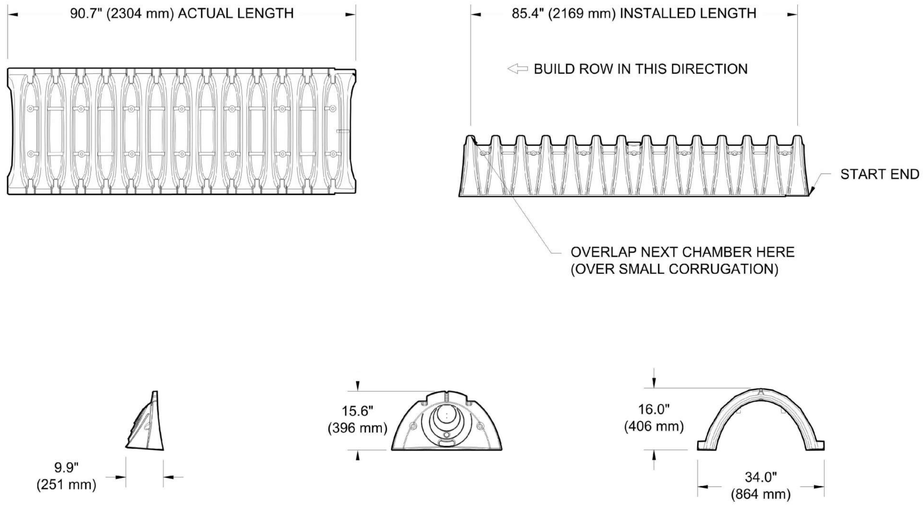
UNDERDRAIN DETAIL

NTS



SC-310 TECHNICAL SPECIFICATION

NTS

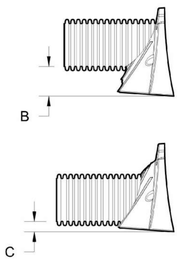


NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

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

PART #	STUB	B	C
SC310EPE06TPC	6" (150 mm)	5.8" (147 mm)	---
SC310EPE06BPC		---	0.5" (13 mm)
SC310EPE08TPC	8" (200 mm)	3.5" (89 mm)	---
SC310EPE08BPC		---	0.6" (15 mm)
SC310EPE10TPC	10" (250 mm)	1.4" (36 mm)	---
SC310EPE10BPC		---	0.7" (18 mm)
SC310ECEZ*	12" (300 mm)	---	0.9" (23 mm)



ALL STUBS, EXCEPT FOR THE SC310ECEZ 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 SC310ECEZ THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL; PRE-CORED END CAPS END WITH "PC"

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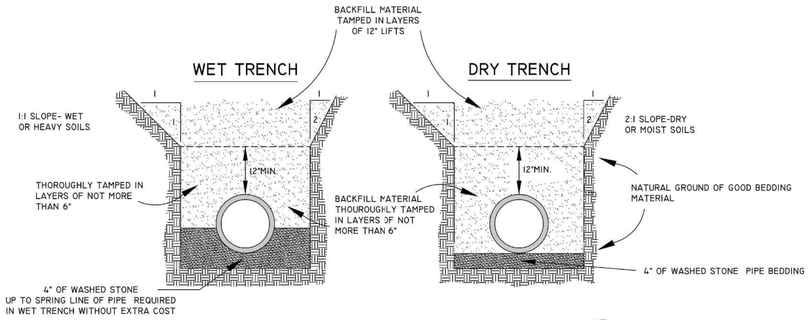
NOT TO SCALE

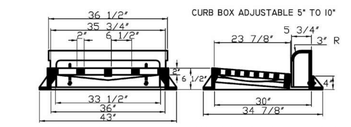


DETAILS OF SEWER TRENCHES

A
D-2

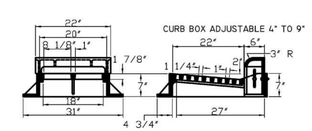
SEWER PIPE JOINT MATERIALS

CONCRETE PIPE-RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



DETAILS OF TYPE "A" CATCH BASIN CASTING
NEENAH R-3246-A OR EQUAL
MINIMUM WEIGHT 649 LBS. TOTAL

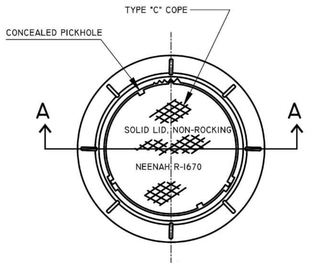
F
D-2

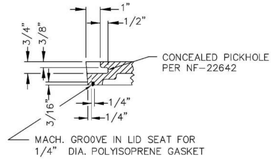


DETAILS OF TYPE "B" CATCH BASIN CASTING
NEENAH R-3234-BI OR EQUAL
MINIMUM WEIGHT 400 LBS. TOTAL

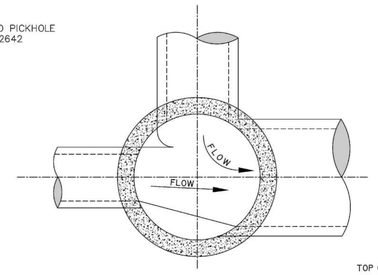
NOTE: " DUMP NO WASTE DRAINS TO RIVER"

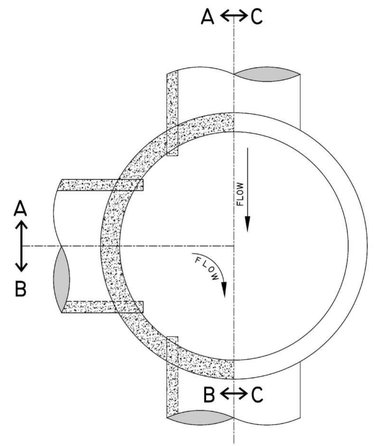
SHALL BE MOLDED IN ALL CASTINGS FACE



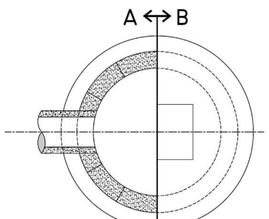


SELF-SEAL DETAIL

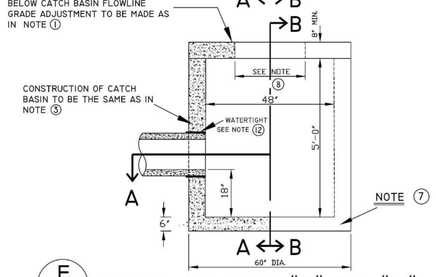




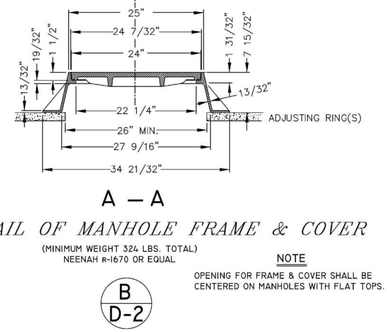
NOTE (8)
RECTANGULAR OPENING IN TOP
"B" TYPE CASTING - 27" X 22"
"A" TYPE CASTING - 36" X 30"



NOTE (9)
TOP OF CATCH BASIN TO BE 12" BELOW CATCH BASIN FLOWLINE GRADE ADJUSTMENT TO BE MADE AS IN NOTE (1)



E
D-2
DETAIL OF TYPE "A" OR "B" CATCH BASIN



DETAIL OF MANHOLE FRAME & COVER

(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL

NOTE
OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.

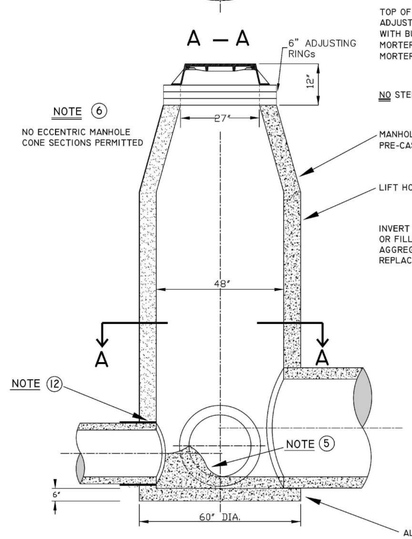
B
D-2

NOTE (12)

THE CONNECTION OF ALL PVC STORM WATER PIPE, SIZE 6" TO 30", TO PRECAST MANHOLES OR OTHER STRUCTURES SHALL EMPLOY A WATERTIGHT, FLEXIBLE PIPE-TO-MANHOLE CONNECTOR

THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STREGHTH OF 1600 PSI

THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE



NOTE (1)
TOP OF MANHOLE TO BE 12" BELOW FINISHED GRADE. ADJUSTMENT TO BE OF PRE-CAST CONCRETE RINGS WITH BUTYL GASKETS (ROPE) BETWEEN RINGS AND MORTER BETWEEN CASTING & TOP RING ONLY. (3/4" MORTER MAX.)

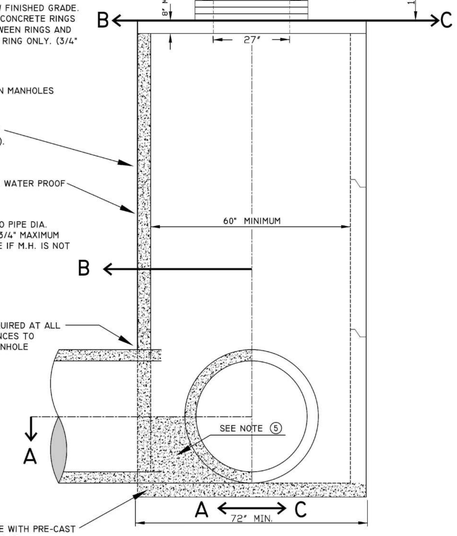
NOTE (2)
NO STEPS ARE TO BE INSTALLED IN MANHOLES

NOTE (3)
MANHOLE TO BE CONSTRUCTED OF PRE-CAST CONCRETE (ASTM C-478).

NOTE (4)
LIFT HOLES TO BE MANUFACTURED WATER PROOF

NOTE (5)
INVERT TO BE FACTORY MOLDED TO PIPE DIA. OR FILLED TO DIRECT FLOW WITH 3/4" MAXIMUM AGGREGATE, 3500 P.S.I. CONCRETE IF M.H. IS NOT REPLACED

NOTE (7)
ALL STRUCTURES TO BE MADE WITH PRE-CAST INTEGRAL FOOTING BASE. MIN. 6"



C
D-2
DETAILS OF STANDARD MANHOLE FOR 30" PIPE OR SMALLER

D
D-2
DETAILS OF STANDARD MANHOLE FOR 36" PIPE OR LARGER

STORM SEWER DETAILS

D-2

ENGINEERING DEPT.
City of LaCrosse, Wis.

FIELD BOOK NUMBER				BY	DATE
	SURVEYED				
	DRAWN	PRELIMINARY			
		FINAL			
	CHECKED				
	APPROVED				
PAGE	REVISIONS	M.D.F.	3/03	J.M.C.	6/2015
		J.M.C.	9/03	BFM	2/2019
		M.D.F.	4/06	J.M.C.	8/2019
SCALE: NONE		M.D.F.	12/10	J.M.C.	11/2023
		M.D.F.	4/13	J.M.C.	11/2024

(D-2) storm sewer_detail

REVISIONS	BY

PARAGON ASSOCIATES
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632 COPELAND AVENUE . LA CROSSE, WI 54603
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PREPARED FOR:
GERRARD CORP.

HAVEN ON MAIN
915 MAIN STREET
LA CROSSE, WISCONSIN

CITY STORM SEWER DETAILS

DRAWN	C.G.
PROJECT No	23-109
DATE	04/18/2025
SCALE	VARIES
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	C503

LANDSCAPE REQUIREMENTS:
REQUIRED PARKING LOT ISLANDS: 816 SF
PROPOSED PARKING LOT ISLANDS: 1,492 SF
REQUIRED LANDSCAPING, GREEN SPACE AND PLANTING ISLANDS: 5,927 SF
PROPOSED LANDSCAPING, GREEN SPACE AND PLANTING ISLANDS: 9,244 SF
REQUIRED BOULEVARD TREES: 17
PROPOSED BOULEVARD TREES: 17
REQUIRED TREES/SHRUBS (1 TREE, 8 SHRUBS/600 SF LANDSCAPING):
PROPOSED TREES/SHRUBS:

STATE STREET

9TH STREET N.

10TH STREET N.

MAIN STREET

CONSTRUCTION LIMITS

20' ALLEY

HOUSE

GARAGE

APARTMENT BUILDING

SEE SHEET L101

SEE SHEET L102

BM T.N.H. EL = 675.21

BM T.N.H. EL = 673.61

PLAN SCALE: 1"=20'

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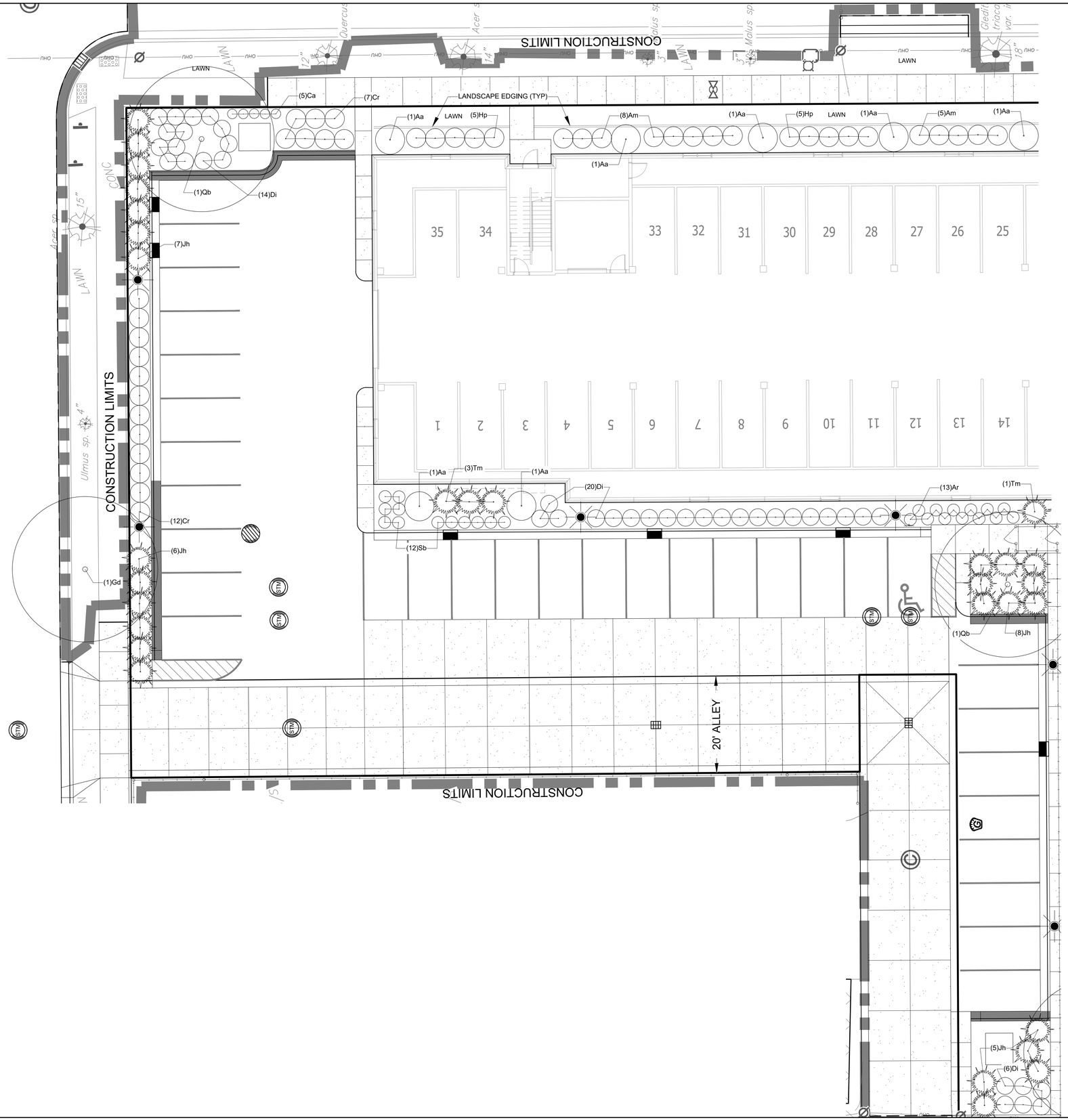
LANDSCAPE PLAN KEY

DRAWN	G.S.
PROJECT No	23-109
DATE	04/18/2025
SCALE	1"=20'
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	L100



PLAN NOTES:

1. VERIFY UTILITY LOCATION BEFORE BEGINNING ANY WORK.

2. PLANTING BEDS SHALL HAVE 6" TOPSOIL AND 4" OF SHREDDED HARDWOOD BARK MULCH. ALL TREES IN LAWN AREAS SHALL BE MULCHED WITH 4" SHREDDED HARDWOOD BARK MULCH RING. PROVIDE TUMBLED BELGIAN EDGING AROUND ALL LANDSCAPE BEDS AS PER PLANS.

3. NEW AND DISTURBED LAWN AREAS SHALL BE RESTORED WITH SOD. REFER TO PLAN.

4. MODIFICATIONS TO PLANT SPACING MAY BE ADJUSTED IN THE FIELD BY LANDSCAPE CONTRACTOR. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY PROPOSED CHANGES TO PLANT MATERIALS OR DESIGN.

5. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK.

6. THE LANDSCAPE ARCHITECT'S ESTIMATED QUANTITIES ARE SHOWN IN THE MATERIAL LIST-SCHEDULE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLAN AND SHALL RELY ON THE SCHEDULED QUANTITIES AT THEIR OWN RISK. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL PLANTINGS SHOWN ON THE DRAWINGS, WHETHER INCLUDED IN THE SCHEDULE OR NOT

7. SEE L102 FOR LANDSCAPE DETAILS.

PLANT MATERIAL LIST-SCHEDULE

KEY	BOTANICAL NAME COMMON NAME	SIZE	QUANTITY
Ac	Achillea `Moonshine' Moonshine Yarrow	2 quart	35
Al	Alchemilla mollis Lady's Mantle	2 quart	17
Aa	Amelanchier alnifolia 'Obelisk' Standing Ovation Serviceberry	5 gal	10
Ag	Amelanchier x grandiflora 'Autumn Brilliance' Autumn Brilliance Serviceberry	#5 container multi-stem	3
Am	Aronia melanocarpa `Morton' Iroquois Beauty Black Chokeberry	3 gal	18
Ar	Aronia melanocarpa `UCONNAM165' Low Scape Mound Black Chokeberry	3 gal	19
Bu	Buxus microphylla 'Wintergreen' Wintergreen Littleleaf Boxwood	3 gal	24
Ca	Calamagrostis x acutiflora 'Karl Foerster' Karl Foerster Feather Reed Grass	1 gal	32
Cr	Cornus racemosa 'Muszam' Muskingum Dogwood	3 gal	19
Di	Diervilla lonicera Dwarf Bush Honeysuckle	3 gal	40
Gb	Ginkgo biloba 'Autumn Gold' Autumn Gold Ginkgo	2 1/2" cal	2
Gd	Gymnocladus dioicus Kentucky Coffeetree	2 1/2" cal	1
Gt	Gleditsia triacanthos var. inermis `Harve' Northern Acclaim Honeylocust	2 1/2" cal	2
Hs	Hemerocallis `Stella d'Oro' Stella d'Oro Daylily	1 gal	16
Hm	Heuchera micrantha 'Palace Purple' Palace Purple Coral Bells	2 quart	68
Ho	Hosta 'August Moon' August Moon Hosta	1 gal	20
Hp	Hydrangea paniculata 'Bobo' Bobo Hydrangea	3 gal	23
Jh	Juniperus horizontalis `Hughes' Hughes Juniper	5 gal	26
Ma	Malus `Adirondack' Adirondack Crabapple	2" cal	2
Mp	Malus `Prairifire' Prairifire Crabapple	2" cal	1
Na	Narcissus 'Yellow River' or 'Dutch Master' Yellow River or Dutch Master Daffodil	bulb	100
Nf	Nepata x faassenii 'Walkers Low' Walkers Low Catmint	1 gal	19
Pt	Pachysandra terminalis 'Green Carpet' Green Carpet Pachysandra	2 quart	33
Qb	Quercus bicolor Swamp White Oak	2 1/2" cal	2
Ra	Ribes alpinum 'Green Mound' Green Mound Alpine Currant	3 gal	15
Sb	Spireaea betulifolia `Tor' Tor Birchleaf Spirea	3 gal	12
Sh	Sporobolus heterolepis Prairie Dropseed	1 gal	21
Sr	Syringa reticulata `Ivory Silk' Ivory Silk Japanese Tree Lilac	2" cal	2
Tm	Taxus x media `Tauntoni' Taunton Spreading Yew	5 gal	23

PLAN SCALE: 1"=10'

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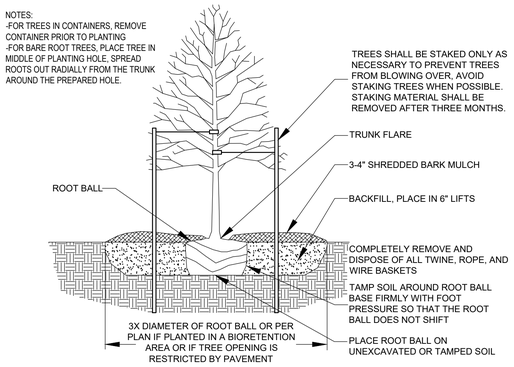
CAD FILE	23-109 Gerrard HOM 18.DWG
SHEET	L101

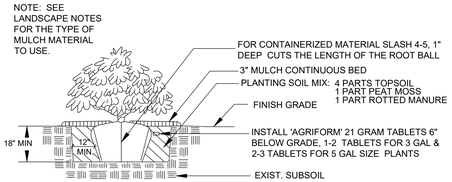
PLAN NOTES:

SEE L101 FOR PLAN NOTES AND PLANT MATERIAL LIST



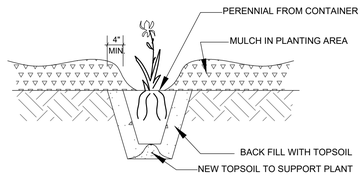
A L102 **TREE PLANTING DETAIL - ALL TREES**

NO SCALE



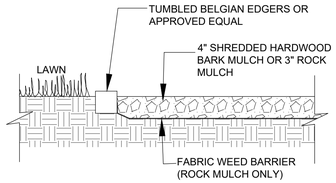
B L102 **SHRUB PLANTING DETAIL**

NO SCALE



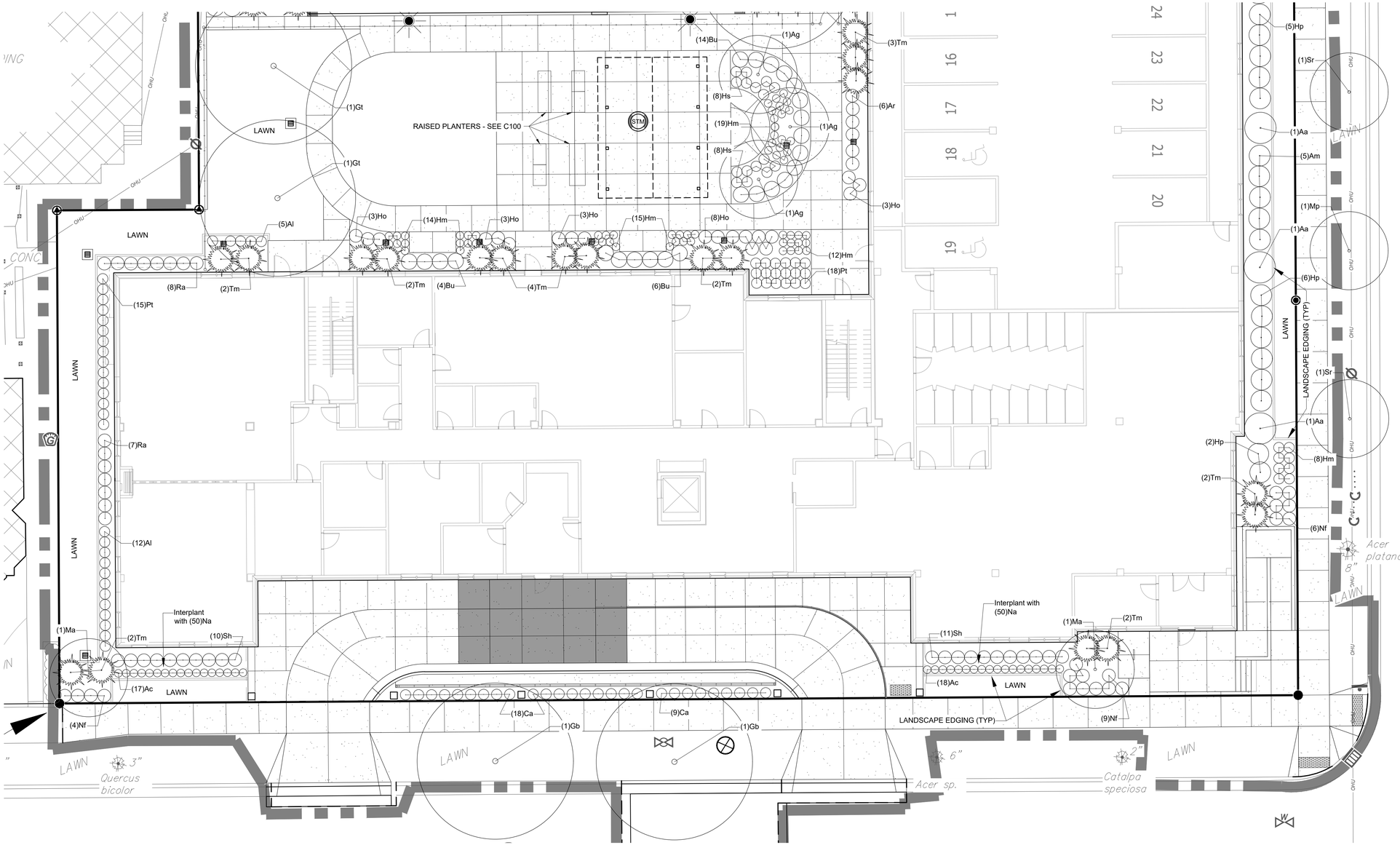
C L102 **POTTED PLANTS PLANTING DETAIL**

NO SCALE



D L102 **LANDSCAPE EDGING DETAIL**

NO SCALE



PLAN SCALE: 1"=10'

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