920	

Sjoquist Architects, Inc 2800 University Avenuc SE. Suite 100 Minneapelis, Minnessa 55414 612:379-0233 Fax 612:379-9263 http://www.ajoquist.com

I hereby certify that the plan specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the lays of the state of

MINNESOTA

Signature

Architect / Registration

2020. 08. 13 Date

PMS

riaions

1952 Project Number

AMERICAN POLYWATER CORPORATION

CONDITIONAL USE PERMIT APPLICATION

11222 60TH ST NORTH STILLWATER, MN

1 201 11 01

SITE PLAN -EAST BUILDING

AS101

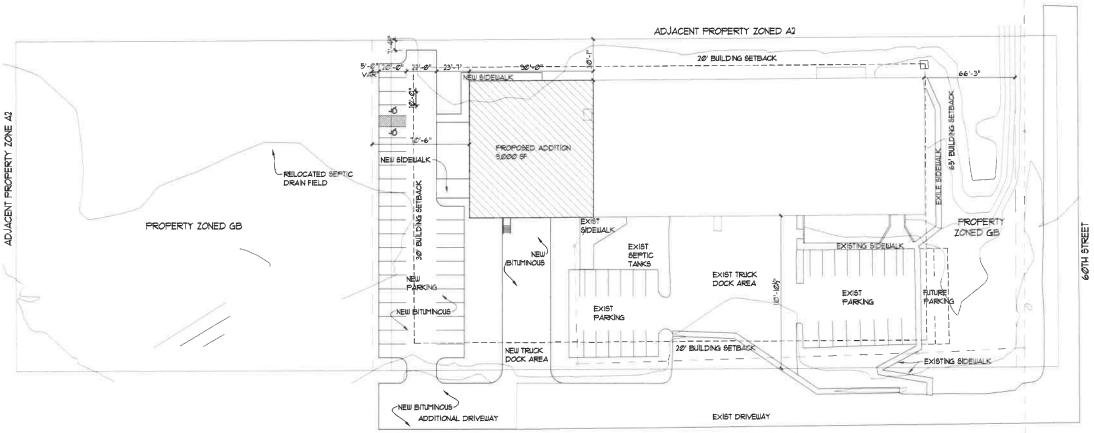
PARKING EXISTING BUILDING PROPOSED ADDITION STALLS AREA / STALLS MAIN MEZZ TOTAL AREA/ STALL STALL 24,030 SF 12,150 GROSS AREA 3000 SF 350 SF OFFICE AREA 200 3368 SF 2222 SF 5590 200 MFG / WAREHOUSE AREA 2000 5632 SF 928 SF 6560 2000 SPACES REQUIRED 3Ø SPACES REQUIRED 30 SPACES PROVIDED SPACES PROVIDED 32

HARD SURFACE: 50/6464 SF
EXIST HARD SURFACE: 50/6464 SF
EXIST BUILDING AREA: 24/000 SF
EXIST PAVING-PARKING AREA: 23,38824 SF
EXIST SIDEWALK AREA: 2,7164 SF
ADDITIONAL HARD SURFACE: 2153843 SF

ADDITIONAL HARD SURFACE: 21,538,43 SF ADDITIONAL BUILDING AREA: 3,000 SF ADDITIONAL PAVING PARKING AREA: 11,675,16 SF ADDITIONAL SIDEWALK AREA: 863,27 SF

TOTAL HARD SURFACE: 11,103.01 SF SITE AREA: 126,249.61 SF

RATIO : 56.73%



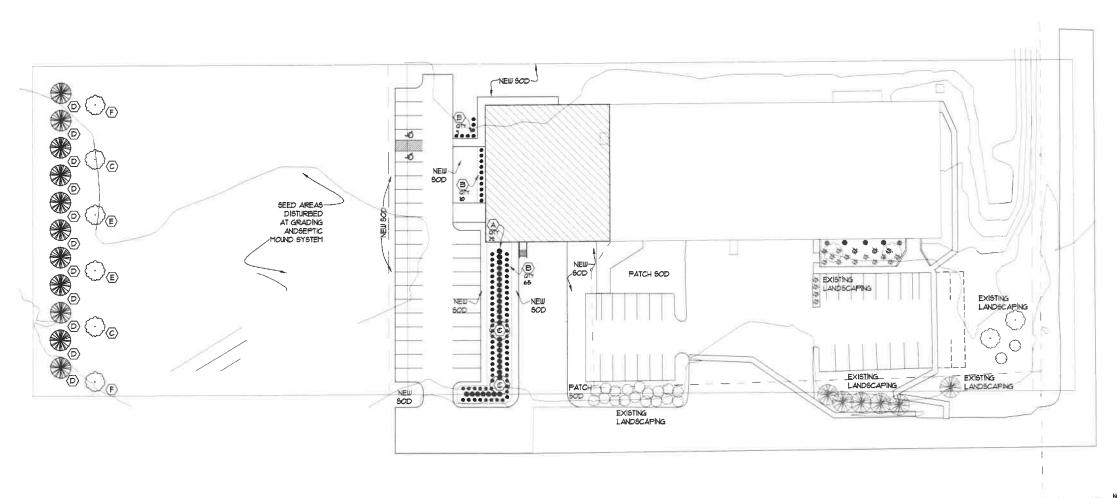
ADJACENT PROPERTY ZONE GB

AI SITE PLAN - EAST BUILDING

		PLANT SCHED	uLE			
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	METHOD	REMARK
(A)	CHINESE BILVER GRASS	MISCANTHUS SINENSIS	29	4 3	CONTAINER	1
B	KARL FOERSTER	CALAMAGROSTIS ACUTIFOLIA	82	+ 3	CONTAINER	2
(C)	AUTUMN BLAZE MAPLE	ACER X FREEMANII VETTERGRED'	4	4" MIN	BALL 4 BURLAP	3
(D)	SCOTCH PINE	PINUS SYLVESTRIS	11	8'	BALL 4 BURLAP	- 4
Œ	RIVER BIRCH (CLUMP)	BETULA NIGRA (CLUMP)	2	2º MIN	BALL 4 BURLAP	3
€	RED OAK	QUERCUS RUBA	2	4" MN	BALL 4 BURLAP	3

#### REMARKS:

- I PLANT 4' OC 2 PLANT 4' OC
- 3 FLANT 40' OC
- 4 PLANT 20" OC



Sjoquist Architects, Inc 2800 University Avenue SE, Snite 100 Minicipalis, Minicipal 55414 612.579.9253 Fax 612.379.9263 http://www.sjoquist.com

I hereby cartify that this plan, specification, or report was prepared by me or under in direct supervision and that I am a duly Licensed Architect under the laye of the state of

MINNESOTA

2020, 08, 13 Dale

1952 Project Number

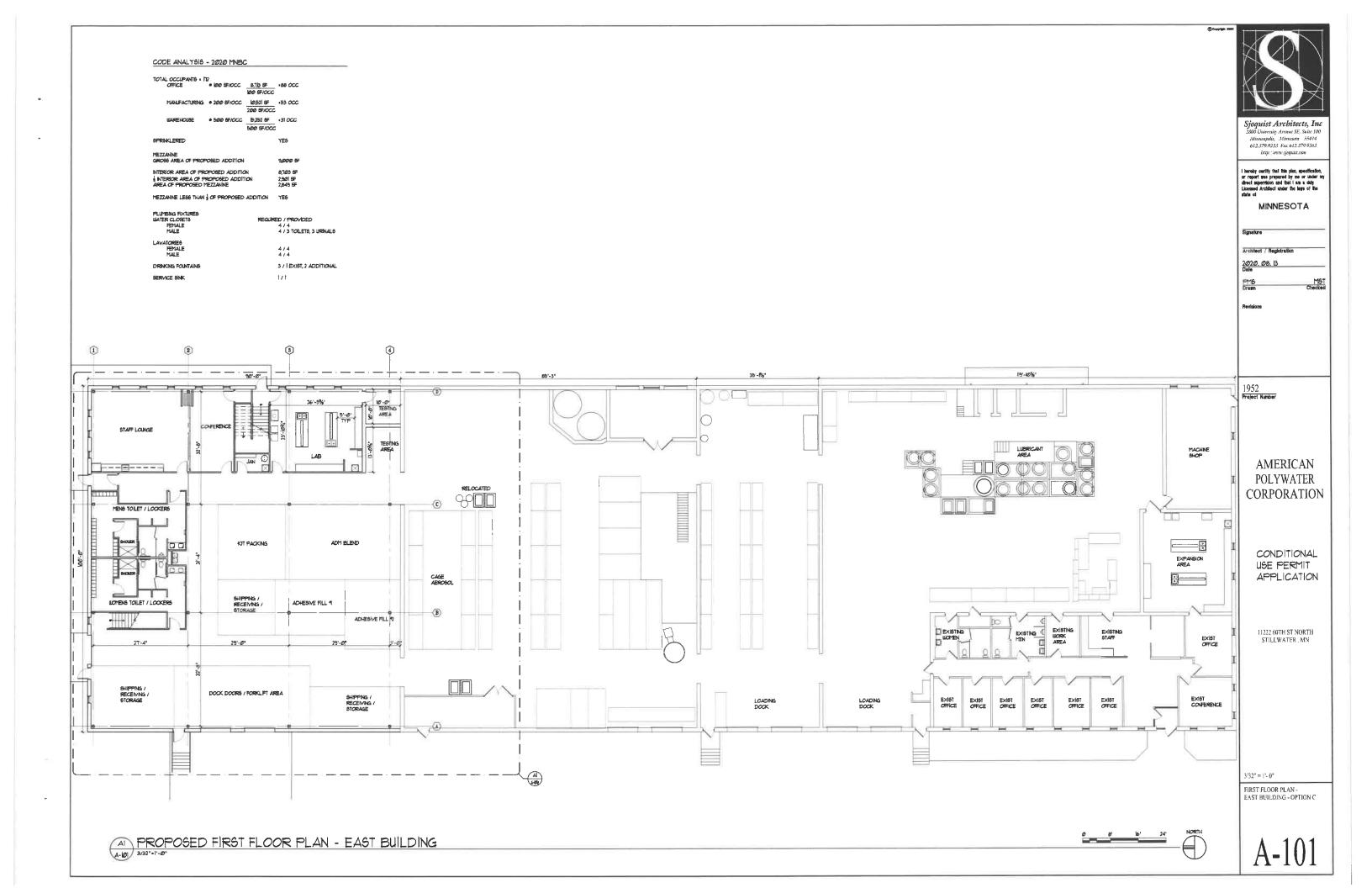
AMERICAN POLYWATER CORPORATION

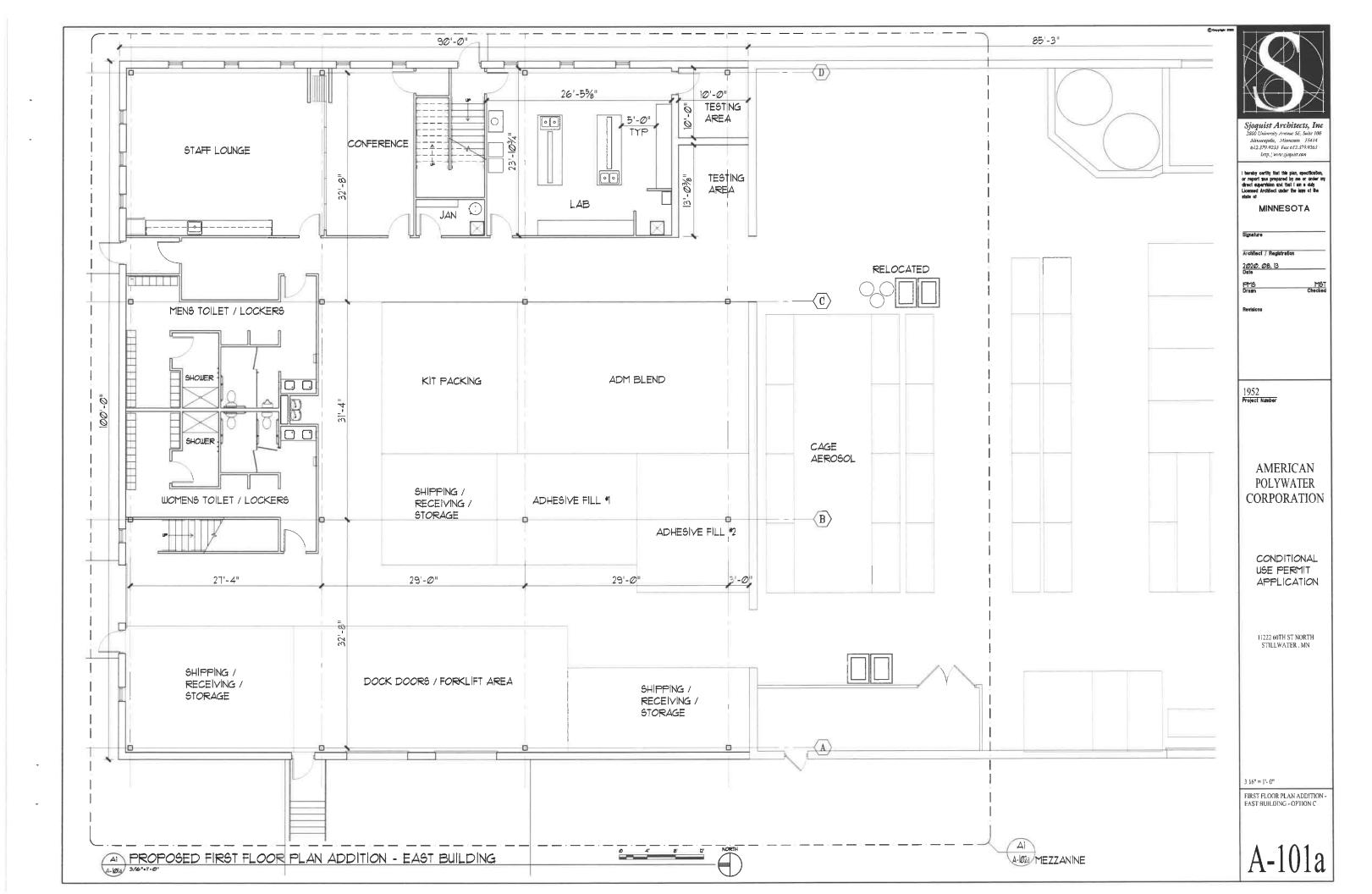
> CONDITIONAL USE PERMIT **APPLICATION**

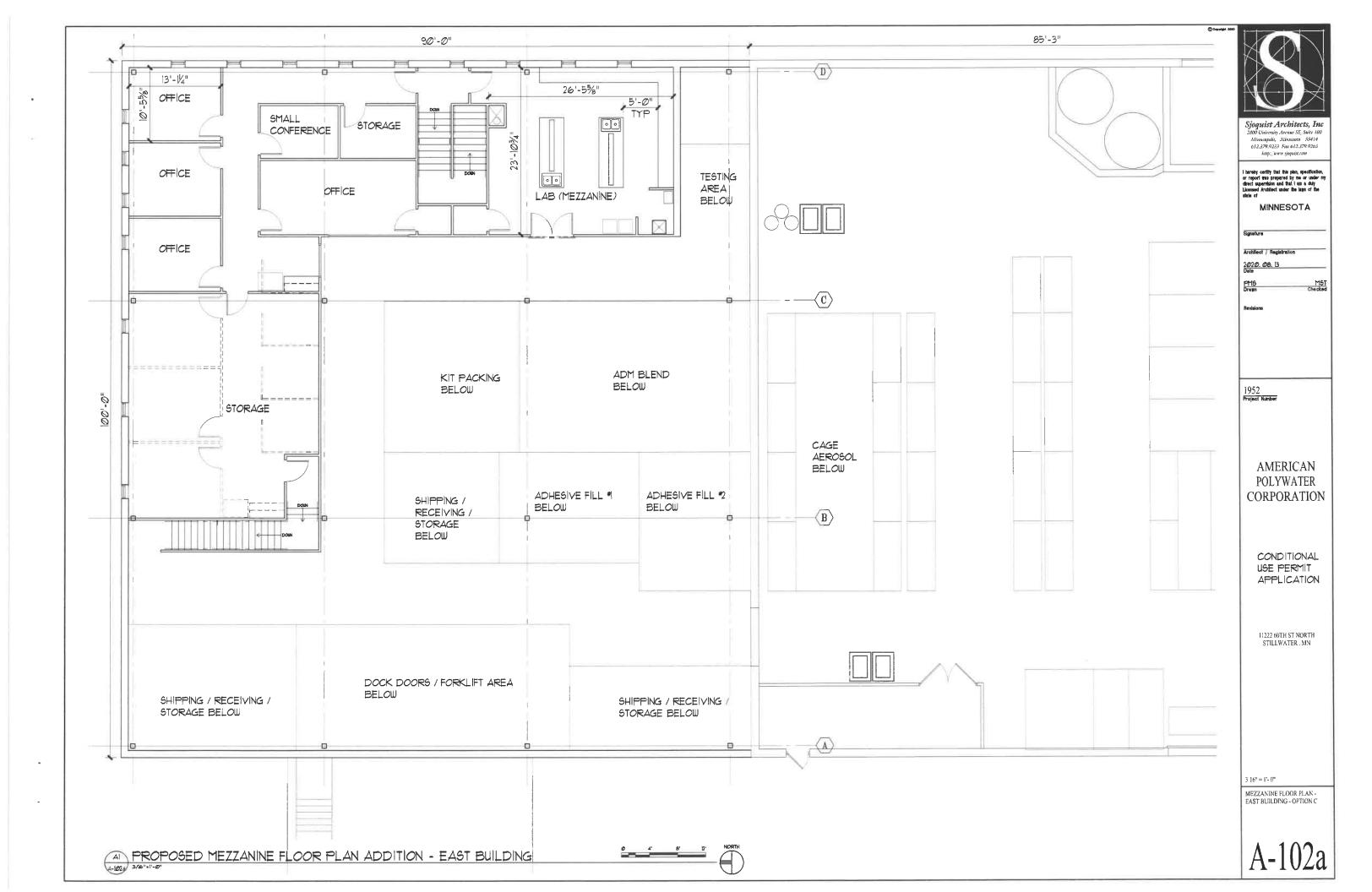
11222 60TH ST NORTH STILLWATER, MN

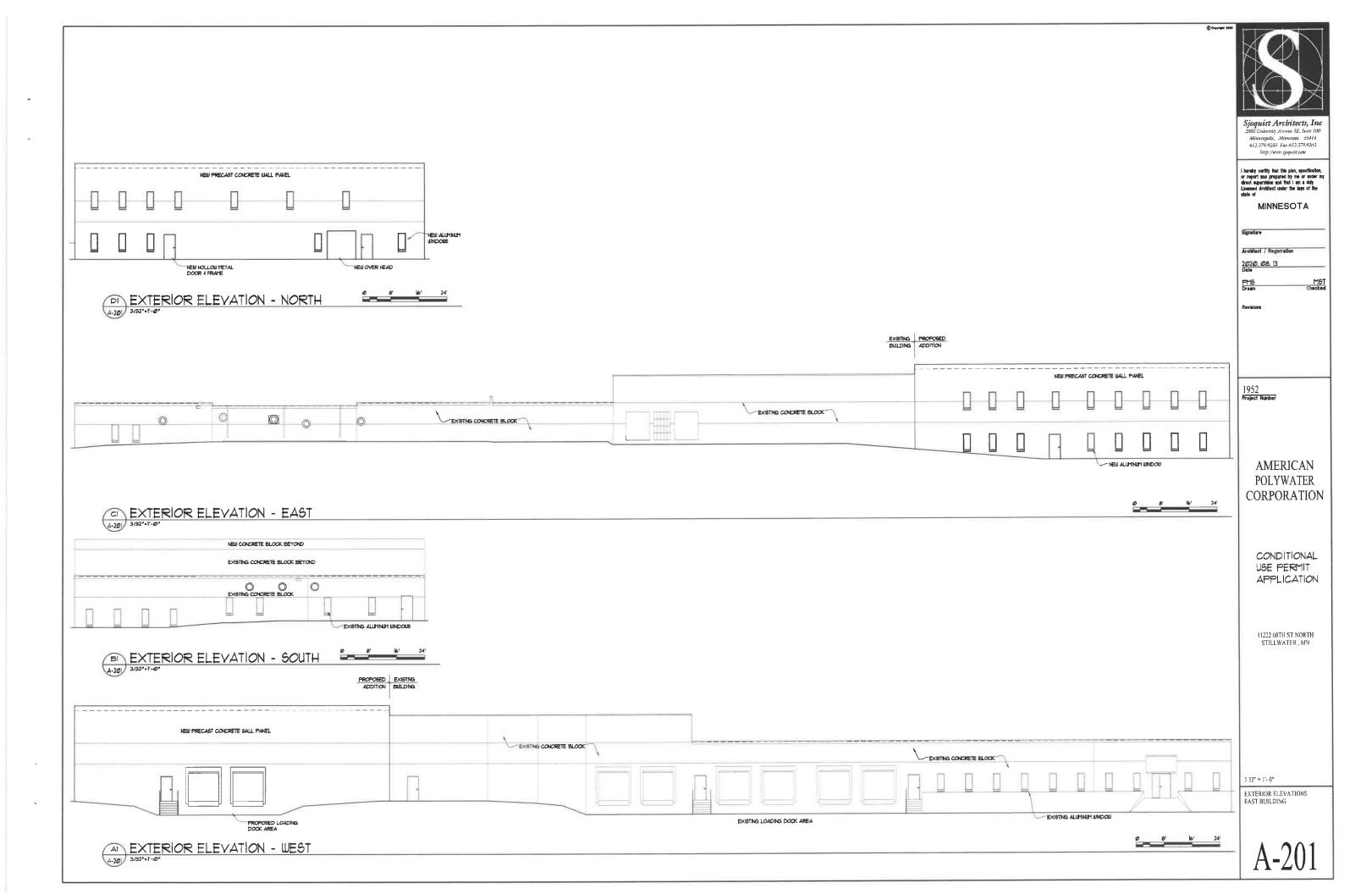
LANDSCAPE PLAN FENCE DETAILS

PROPOSED LANDSCAPE PLAN









It is mandatory that the Contractor be knowledgable of the applicable MNDOT specification sections during construction No additional compensation will be paid to the Contractor for additional work due to unfamiliarity with the applicable specification sections.

Contractor shall refer to the geolechnical report for additional requirements and recommendations

#### PROTECTION

- The Contractor shall maintain all benchmarks, monuments and other reference points. If any are disturbed or destroyed, they shall be replaced at the Contractor's expense.
- 2). The Contractor shall contact the Engineer immediately if any unknown functioning underground utilities are assovered during the course of the project, which may infertere with construction. The Contractor shall wait for instructions before proceeding.
- 3] The Contractor shall be responsible for any damage to functioning underground or overhead utilify lines. Damaged utilifies shall be repaired immediately and service restored at no additional cost to the Owner.
- 4) The Contractor shall pravide barricades, sharing and other safety measures required by OShA.
- 5) The Contractor shall pratect all adjacent existing facilities from damage, including, but not limited to due to excavations, erosion, etc. The Contractor shall be responsible to the repair of such damages.

#### PROJECT CONDITIONS

- 1) The Confractor shall became familiar with the project site, and compare actual conditions in the field with those shown on the project drowings. The Contractor shall contact the Engineer immediately if any inconsistencies are found between the existing conditions and the project drowing.
- No extra compensation will be allowed due to unusual conditions which could have reasonably been determined ar anticipated by examination of the project site and project drawings.

# PLAN GRADES

- Bevalions shown on the project drawings are finished grade elevations, unless noted otherwise. Blevalians not specifically indicated shall be determined by interpolation of uniform slope between spot elevations and/or contours, or between such points and existing elevations. Adequate slope shall be constructed to provide positive drainage away from situatures.
- 2) If inconsistencies exist on the plans between contours and spot elevations, the spot elevations shall govern

- 1) Adequate imported and/or stockpilled salvageable topsoli shall be utilized for this project.
- 2) Topsoil shall be free of clay lumps, roots, brush, large stones, and debris, and shall have a minimum organic
- 3) Remove topsoil to lis enfire depth from areas, which are to be disturbed by new construction work. Existing lown areas, which are not in the proposed construction area(s) shall temain in place. The Contractor shall field verify topsoil depths between any soil borings, and remove to greater depths than indicated in the soils report if such conditions are encountered. Solvaged topsoil shall be modificined in stockples.
- Stockpiled topsoil shall only be used for finish grading of new town areas. Excess topsoil shall be removed from the site by the Contractor.
- 5) Protect all existing lawn areas, plantings, and other landscaping to remain in place. Any damaged areas shall be replaced at the Contractor's expense.

#### UNFORESEEN OBSTACLES

- 1) The Engineer shall be contacted immediately It any unforeseen major obstacles are encountered during excavalian, such as abandaned wells, abandaned or functioning utilities, subsurface streams or rock, etc., which would add significant expense to the Confraction.

#### DEWATERING

- Surface arainage shall be provided during construction in a manner so as not to create a nuisance to odjacent areas.
- 2) All excavations shall be free of water during construction within the excavations. Dewatering shall be accomplished by pumping or trenching, and shall be conducted regardless of the cause, source, or nature of
- 31 Berms, cofferdams, or piling shall be provided as necessary to protect excavations.
- Excavations shall be sloped to drain, and necessary pumps, hases and other equipment shall be provided to keep excavation free of water.
- 5) All temporary equipment used for dewatering shall be removed from the site when no longer necessary

## PILLING AND GRADING

- 1) Rough grading of all areas within the construction limits, including adjacent transition areas shall be reasonably smooth and compacted. The rough graded subgrade surface generally that not be more than a inches observe below the established subgrade elevations. All disches, swales, and gutters shall be graded to critical andequately. The subgrade shall be evenly stoped to provide drainage away from building walls in all directions at a minimum shape of 1%. The Contractor shall provide rounded transitions at the part before the banks and other treats in
- 2) Fill and backfill materials shall be inorganic soils free of roots, rocks, boulders, and debris.
- 4) Imported compacted fill material shall have a maximum of 12 percent passing the #200 sleve, by weight. The proposed fill material shall be tested by an independent testing lab for sullability as compacted fit for this project. The Contractor shall pay for the festing services and provide a copy of the fest results to the Engineer.
- 5) The Confractor shall fill and grade as necessary to bring surface to required elevations, and provide all materials necessary, whether abtained an arroff the project site.
- s) The Contractor shall place compacted material in uniform horizontal lifts not exceeding 8" in depth for clay soils, and 12" in depth for sandy soils, and compact as required to achieve specified density.
- 7) Compaction shall be abtained with the use of vibrolary rollers or rammers. During compaction, fill material shall contain maisture content, as necessary, for the required compaction as indicated by an independent testing laboration. The motisture state uniform throughout each fill, if the material is to any, water shall be added with approved equipment and methods, which will not wait out fine material. If the material is to a well, it shall be arised by harrowing, disking, blading, or other approved methods recommended by the independent lesting laboratory.
- 6) Areas designated for pavement in excavaled (cut) areas shall be scarified to a depth of 1 faot. The Confractor shall bring the subgrade material to optimum mobilure content of indicated by the independent festing indiparted, and compact the subgrade to the specified density lated below for soils underned happevents.
- 9) The Contractor shall not place fill material when either the fill material, or the material on which it is to be placed, is frazen. Any soft or yielding areas appearing in the fill resulting from frast, toin, or any other reason wholsoever shall be scalified, removed, recompacted and/ar otherwise rectified to the satistaction of the Engineer before any new fill is placed.

### COMPACTION TESTS

- 1) Utility Trench Backfilt: The Contractor's independent soils technician and approved testing jaboratory sperform in-place density and moistue tests at random depits in trench backfill at 100 tool Intervols, or traction thereof. Compaction of tenches shall be a minimum of 95% of the maximum dry density (as determined by the independent testing laboratory) in lown areas, and at depths greater than 3 feet below areas designated to provement. Compaction of trenches at depths within 3 feet of paved surfound to the contraction of the maximum dry density.
- 3) Areas exhibiting a failed compaction test shall be re-compacted and re-m tested to the satisfaction of the Engineer prior to acceptance of the project.
- 4) Copies of all compaction testing and test roll observation reports shall be provided to the Enginee

#### SUBGRADE PREPARATION

- a) Heavy-duty bituminous pavement: 12" below finish grade.
- b) Light-duly bituminous pavement: 11" below finish grade
- c) Concrete pavement/apron: 12" below finish grade. d) Concrete sidewalk: 8" below finish grade.
- f) Planting areas: See Landscaping Plans/Details
- 2) The tolerance for areas to be paved shall not exceed 0.15 feet above or below plan subgrade.
- 3) The Contractor shall protect newly graded areas from etosion. Settlement or washing that occurs prior to acceptance of the Wark shall be repaired and grades re-established.

#### DISPOSAL OF EXCESS WASTE MATERIALS

). The Contractor shall remove excess excavated material, aebris, and waste materials, from the Owner's property and legally dispose of it in accordance with all governing cades.

#### SPREADING TOPSOIL AND FINISH GRADING

- 1) Scarify subgrade to depth of 3" prior to placing topsail. Spread topsail evenly over complete subgrade as follows:
- a) Lawn Areas on Private Property: Spread 4" lightly compacted layer of topsoil.
- b) Lawn Areas in Public Right-of-way: Per City requirements
- Finish grade occurately within 0.15 feet of finish grades shown on the project drawings, less the thickness of any sad where it is to be installed. Slope all grades away from buildings to provide positive drainage.
- 3) Prepare lossoil suitable to receive seed and/or soci. Grading of areas designated for topsol shall be reasonab smooth and even, and in accordance with MNDOT Spec. 2105.36 and 2574.384. All debris and stones exceed "I'n diameter shall be removed from the soil surface of these areas prior to seeding. Areas compacted by vehi or strange of materials shall be plawed, disked and horrowed to match texture of other finish graded areas.
- 4) Grass seed shall be in accordance with MnDOT Spec. 3876, seed mix No. 25-131, applied at the role of 220 pounds per acte or as indicated on the landscape plans. Mulch shall be applied and discontained to all seed areast and shall meet the requirements of MnOT Spec. 3882, Type 3 or as otherwise indicated by the Engineer.

#### UTILITY NOTES

#### STANDARD SPECIFICATIONS

- ) The following standard specifications shall apply to this project:
- a) Minnesofa Flumbing Code MN Rules Chapter 471 4 (MN Dept. of Labor and Inaustry-MNDLI) b) uniform Flumbing Code, latest edition (IUPC) What ly our need to know about oilly settlede connections in the 2015 Minnesofa Flumbing Code" d) CN Progresses Association of Minnesofa (CEAM) Standard Specifications d) American Society for Testing Marterdis (ASTM) 1) American Notional Standards institute (ARSS) g) American Notional Standards institute (ARSS) g) American Notional Standards institute (ARSS) g) American Notional Standards (ASTM)

- epartment of Transportation "Standard Specifications for Construction" (MN/DOT)
- 2) The Contractor shall comply with all local ordinances and codes
- 3] Certifications of all utility materials, as well as shop drawings, shall be submitted to the Engineer for review

#### HIGH DENSITY POLYETHYLENE PIPE HDPE; AND FITTINGS - STORM

- HDPE pipe and filtings shall meet the requirements of ASTMF23C6, and Section 2621, 2A6 of the CEAM Standard Specifications
- 2) Pipe joints shall meet the requirements Section 2621,3A3 of the CEAM Standard Specifications
- 3) Minimum wall thickness shall be 0.035 inches for 12 and 15 inch alameter pipe, and shall be 0.05 inches for 16 and 24 inch alameter pipe.

#### POLYVINYL CHLORIDE PVC PIPE AND FITTINGS - STORM

- PVC storm sewer pipe and liftings within 10-I<sup>1</sup> of a building and/or water pipe crossing, or when specified
  on the plans, shall commit of Schedule 40 PVC, and meet the requirements of ASIM D1785, ASIM D2865, and
  ASIM-F794 and Section 2621 (23.5 of the CEAM Standard Specifications
- 3) All pipe and filtings shall be SDR 35 for depths of up to 20 (seet, and SDR 26 for depths exceeding 20).
- 4) Pipe joints shall meet the requirements of Section 2621,3A3 of the CEAM Standard Specifications REINFORCED CONCRETE SEWER PIPE | RC# | AND HITTER AND HITTER
- 1) RCP pipe and fittings shall meet the requirements of ASTM C76, and Section 2621,2A3 of the CEAM Standard Specifications.
- 2) Pipe joints shall meet the requirements of Section 2621.3A3 of the CEAM Standard Specifications
- 3) The ASTM strength class of pipe shall be Class III unless otherwise shown on the Plans.
- 4) The pipe shall be drawn together by some approved method of jacking or winching. This pressure must be maintained until with and backfill is placed to keep the joint from opening.

## END SECTIONS - STORM

- ) End sections shall be provided at all pipe inlets and outlets.
- 2) The end sections shall consist of material matching the material of the pipe, which it is being connected to. Materials and joints shall be as per the specifications described above for the opplicable pipe material.
- 3) The last 3 joints of RCP shall be fied, and the end section shall be provided with an approved trash guard.

#### MANHOLES AND CATCH BASINS - STORM

- ) Unless atherwise noted, manhale and catch basin structures shall consist of precast concrete, and meet the requirements of Sections 2621,2C and 2621,3C of the CEAM Standard Specifications
- 2) Catch basins shall be provided with the following castings: of Along curbline: 27" Structure: Neenah R-3075-L, 48" (ar larger) Structure: Neenah R-3067-L
- b) Isolated (in payed area): Neenah R-2553
- c] isolated (in vegetated area): Neenah R-2560-EA w/ type "C" grate
- 3) Manhales shall be provided with the following castings: al Starm: Neenah R-1733 tettered "STORM" center pick hale

#### INSTALLATION

- 1) Unless atherwise noted, installation of all water and sewer pipe, fittings, and appurtenances shall be as per the CEAM Standard Specifications. TESTING REQUIREMENTS
- 1) Water and sewer pipe, fittings, and appurtances shall be inspected and tested as per Sections 2611.3E-2611.3H and 2621,3F-2621.3H of the CEAM Standard Specifications.
- 2) In the event of discrepancies between the testing requirements of the MN Plumbing Code and the CEAM Standard Specifications, the most stringent will govern.

#### STANDARDS

inscrifications for Highway Construction, most recent edition

#### GRANULAR BASE COURSE

- 1) Compacted thickness of finished base course: 8'
- 2) Process material for aggregate base shall meet the requirements of MNDOT Spec. 3138, Class 5...
- 3) The subgrade shall be fested and observed to the satisfaction of the Engineer prior to placement of aggregate base material. Install base material as required to accommodate new plan grades.
- 4) Wet base material to approximate optimum moisture content either prior to delivery to job site or as soon as practical after being placed on subgliade.
- 5) Place in layers not exceeding 4" thickness (loose)
- 6) Compact with pneumatic or vibrating steel drum rollers.
- 7) After base course has been graded and compacted, thoroughly wet and slush roll with roller until all aggregates are thoroughly embedded.
- B) Allow base course to cure for a minimum of 72 hours prior to bituminous course application.

#### BITUMINOUS BASE AND SURFACE COURSE

- Mix Designation Numbers for the bituminous mixtures on this project are per MNDO1 Spec. 2360
- 2) Pavement smoothness requirements will be waived for this project.
- 3] Density for the bituminous mixture on this project will be the ordinary compaction method (MNDO) 2360.6C).
- 5) Light-Dufy Pavement: Billuminous Bare course shall conform to MnDOT 2360, Type SPNWB3308 and shall be it inches thick after compaction. Billuminous Surface course shall conform to MnDOT 2360. Type SPWEA3408 and shall be I-inches thick after compaction. Place no asphoffic mixture when the atmospheric temperature is below 45 degrees and falling, nor should investment his princed under well conditions.
- 7) Mixing
- at Pavina mixture: Uniform mixture of course aggregate, fine aggregate, mineral filler and asotrattic material. b) Grading and mixing: Conform to applicable sections of the Minnesota Standard Specifications for Highway Construction, Section 2360.

#### CONSTRUCTION METHODS

- ) Properly clean base course and deliver hot mix asphaltic concrete in clean tight vehicles with covers if necessary
- 2) Lay to a smooth surface without segregation of material and attain compaction as early as possible.

  Commence railing while the moterial is hot, (minimum spread temperature 250 degrees F.) as soon as It will support the railler without undue displacement or horitine cracking and continue with a minimum of 49% of maximum has been attained, no further compression can be attained and all roller marks are eliminated.
- 3) The completed surface: Smooth, free of pockets that will retain water and shall not vary more than 1/16" per foot nor more than 1/4" under a 16' straight edge. Enlire surface must drain. No flat areas are permitted.
- 4) Perform all Wark in accordance with the applicable requirements of the Minnesoto Standard Specifications to Highway Construction.

#### PAINTED LINES

- 1) Special marking paint compound especially for striping bituminous paving in one coat.
- 2) Manufacturers: Pratt & Lambert, Inc.; Sherwin Williams Co. or DuPont Co.
- 3) Colors: Use white paint for concrete and asphalt.
- 4) All surfaces to be painted must be thoroughly clean and ary. 5) Lay out painted lines with chalk on povement in accordance with Project Drawings.
- 6) Accurately apply paint to the chalk marks, using striping machines, 4" wide stripes.
- 7) Apply point in strict accordance with the manufacturer's aixections. E) Protect all paint from damage by traffic until dry.

## 9) Apply handicap loge of handicap stall.

- FIELD QUALITY CONTROL I) Aggregate Base Testing:
- o) The granular base course shall be test rolled and observed by the Cantiactor's independent so is technician as per NNIOOT 2013.22 (Quality Compaction Method). Once the base course has been tested to the sofistaction of the Engineer, powerment may be placed.
- b) One mechanical analysis (ASTM D-422) per 500 cubic yards of base or fraction thereo

a) Test temperature at first truck.

b) Ordinary compaction (MNDOT 2368.6C)

#### CONCRETE PAVEMENT CURE & GUTTER AND LOCWALK

#### STANDARDS

- 11 ACI 318, ACI 315, CRSI, ACI 301, latest adoptions.
- 2) Minnesota Standard Specifications for Construction, most recent edition

#### GRANULAR BASE COURSE MATERIAL

- Compacted thickness of finished base: 8" Concrete Pavement/Aprans
  4" Concrete Sidewalk
- 2) Base material shall consist of MNDOT 3149.282 Select Granular Box

- 2) Fine: MnDO1 Spec. 3126.

1) Clean, fresh and potable, MnDOT Spec. 3906.

2) Provide entrainment of 4 - 7 percent by volume.

#### AIR ENTRAINING ADMIXTURES

1) ASTM C260.

PORTLAND CEMENT

11 ASTM C150, Type I plus an approved direntraining agent, or Type IA direntraining Portland cement.

## OTHER ADMIXTURES

- I I MnDOT Spec. 3113. 2) Calcium Chloride or materials containing chlorides or nitrates shall not be allowed.
- PROPORTIONING AND DESIGN OF MIXES
- a) Curb and gutter, slip-tormed concrete: MNDOT Spec. 2461. Mix Design 3F32 b) Sidewalk, aprons, incidental concrete, manual curb & gutter: MNDOT Spec. 2461. Mix Design 3F52
- c) Concrete payements: MNDOT Spec, 2301, Mix Design 3A41
- dj. Repair concrete, tast strength concrete: MNDOT Spec. 2301, Mix Design 3A41 HE

) Cancrete Classifications

- a) 3F32; -- 3" slump, 4500 psi, 5-8% air
- b] 3F52; 2 5" slump, 4500 psi, 5-8% oii
- c) 3A41; 2 5" slump, 4500 psi, 5-8% air d) Temperatures of all concrete during placement shall be 50-deg f to 90-deg F

## CONCRETE PLACEMENT

- Place concrete as soon as possible after mixing. Place before initial set has accurred, and in no event after
  if has contained its water content for more than one hour.
- 2) Avoid overworking concrete or allowing concrete to fall unrestricted for excessive vertical distances, and othe situations which can cause segregation of the aggregates.
- 3) Concrete pavements shall be placed in accordance with applicable parlions of MnDOT 2301.
- 5) Curb and gutter shall be placed in accordance with MnBOT 2331.
- PROTECTION
- 1) Provide adequate protection against rain, sleet and snow before and during placement and finishing of col
- Protect concrete from premature arying. Provide temporary covering as required. Keep concrete continuously moist for 7 days.

### 3) Treat concrete with membrane curing compound in accordance with MnDGT 2531.3G.

- COLD WEATHER CONCRETE
- 1) Do not place concisels when the atmospheric temperature is below 40 degrees F., or when the concrete is likely to be subjected to freezing temperatures within 24 haurs office if has been deposited unjess adequate temporary beating is survivided. 2) Maintain concrete temperature of 40 to 90 degrees F, for 3 days. Protect from freezing for the following 5 days
- 3) No trazen materials may be used in the concrete. Chemicals may not be used to prevent freezing unless approved by the Engineer.

4) Sidewalks shall be placed in accordance with MnDOT 2521.

#### 4) Perform all cold weather concreting in accord with ACI 306.

- HOT WEATHER CONCRETE
- 1) Do not place concrete when the atmospheric temperature is above 100 degrees E 2) Maintain concrete temperature of 40 to 90 degrees F, for 3 days. Protect from temperatures over 90 degrees for the following 5 days.
- 3) Thoroughly well dry porous surfaces before concreting.
- Water reducing admixtures with retarding properties are required for all concrete placed when the temperature exceeds 80 degrees F.

## 5) Perform all hot weather concreting in accord with AC(305. FINISHING

- QUALITY CONTROL
- 1) The Contractor shall hire an independent testing firm to provide the following tests: a) The independent festing fechnician shall perform rendom field testing of the fresh concrete including slump oil content, and temperature. (ASTM C143, C173, C23) and C138). One series of the aforementioned fest shall be performed on the first fact of concrete.
- b) The inappendent festing technician shall cast a set of four compression test cylinders for the first food of concrete as well as I set for every 100 cubic years, or haction thereof, of concrete thereother. Compression tests shall be performed or one test cylinder of 7 days and two test cylinders at 28 days. The fourth test cylinder shall be retained in the event of falling compression lests on the 28 day test cylinders.

# CIVIL SHEET INDEX

C-101.3..... C-102.....

C-100.1STANDARD NOTES & SPECIFICATIONS
C-100.2STANDARD DETAILS
C-101.1GRADING PLAN
C 101.0

....SWPPP - PLAN VIEV

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SCHULTZ ENGINEERING 18 South Riverside Avenue Suite 230 Sartell, MN 56377 Ph: (320) 339-0669 Fx: (866) 633-1830

I hereby certify that this plan, specification or report was prep by me or under my direct super

Engineer under the laws of the state

43129 LICENSE NO.

BRIAN J. SCHULTZ, PE

XX/XX/2020 DATE Revisions

Sjoquist Project Number

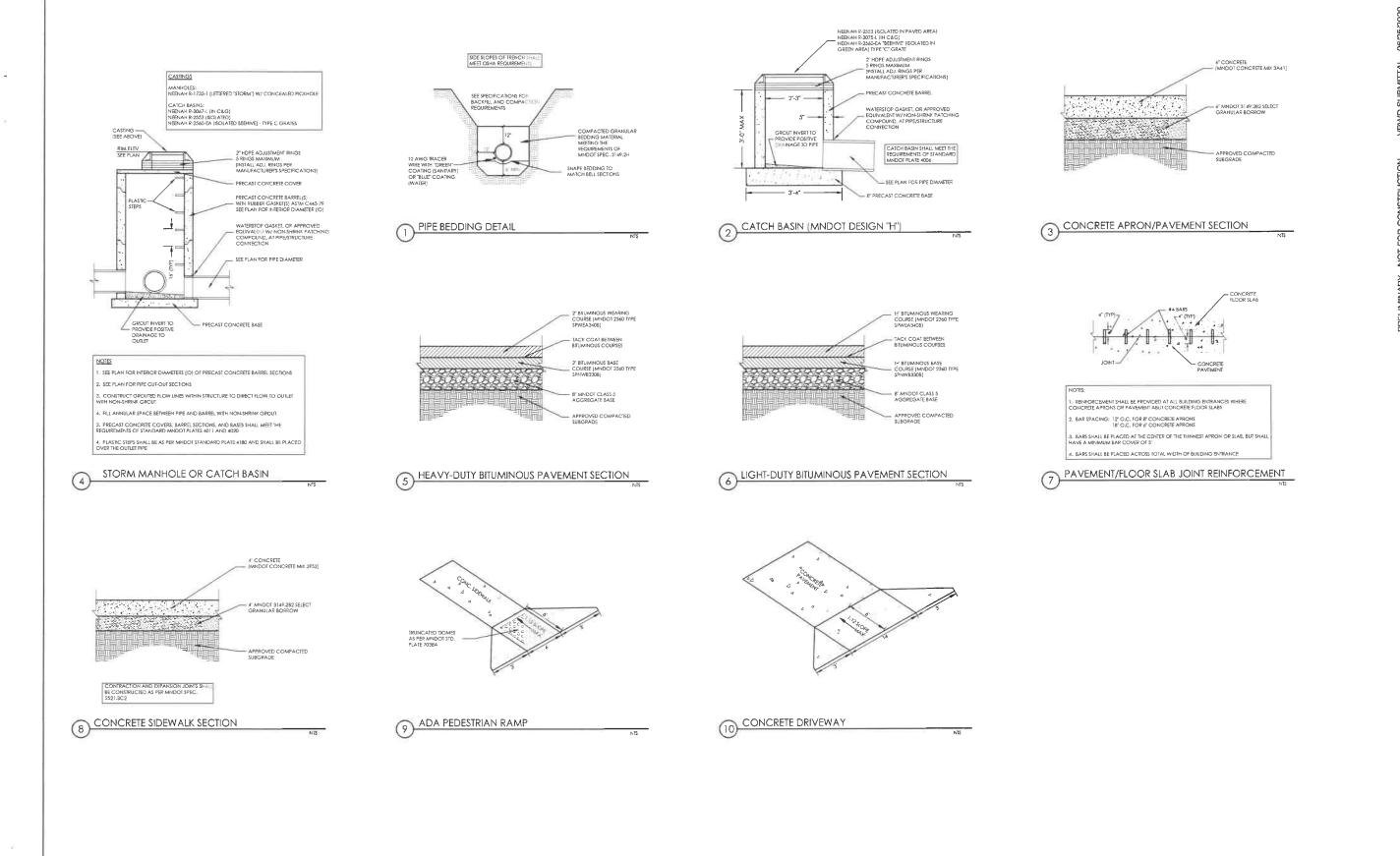
NEW BUILDING ADDITION **AMERICAN POLYWATER** CORPORATION

Schultz Eng. Project Number

11222 60TH STREET NORTH

STILLWATER. MINNESOTA

STANDARD NOTES & SPECIFICATIONS



8

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SCHULTZ ENGINEERING
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schultzeng@live.com

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I hereby certify that this plan,
specification or report was prepa
by me or under my direct supervi
and that I am a duly licensed
Engineer under the laws of the sto

BRIAN J. SCHULTZ, PE

BRIAN J. SCHULTZ, PE XX/XX/2020

/2020 43129 LICENSE

Revisions

1952 Sjoquist Project Number 20004 Schultz Eng. Project Number

NEW BUILDING ADDITION AMERICAN POLYWATER CORPORATION

11222 60TH STREET NORTH

STILLWATER, MINNESOTA

STANDARD DETAILS

C-100.2

Sjoquist Architects, Inc 2800 University Avenue SE, Suite 100 Minneapolis, Minnesota 55414 612:379.9233 Fax 612:379.9263 http://www.sjoquist.com

SCHULTZ ENGINEERING 8 SITE DESIGN 18 South Riverside Aven Suite 230 Sartell, MN 56377 Ph: (320) 339-0669 Fx: (866) 633-1830 schultzeng@live.com w.schultzengineeringdesi

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the state of Minnesota

BRIAN J. SCHULTZ, PE

XX/XX/2020 DATE UCENSE NO.

1952 Sjoquist Project Number

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NEW BUILDING ADDITION AMERICAN **POLYWATER CORPORATION** 

11222 60TH STREET NORTH

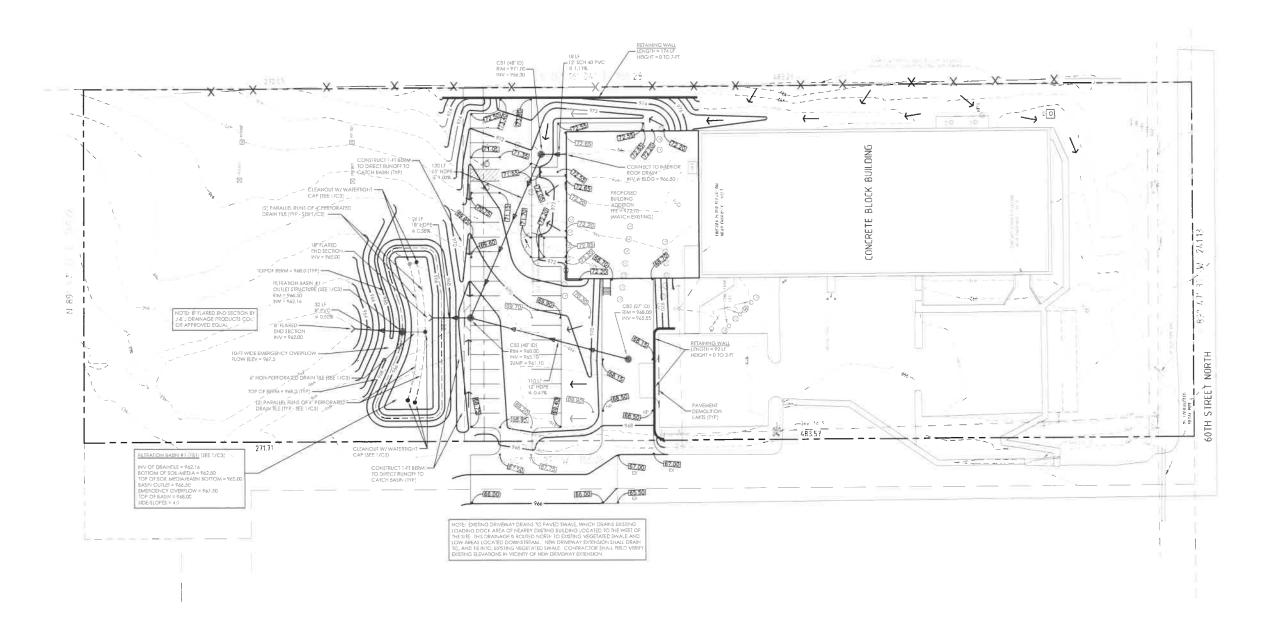
STILLWATER, MINNESOTA



NTS

GRADING PLAN

C-101.



### GENERAL GRADING NOTES:

- E. EXISTING TOPOGRAPHICAL INFORMATION WAS OBTAINED FROM A TOPOGRAPHIC SURVEY COMPLETED BY LANDMARK SURVEYING, INC. SCANDIA, MN. (651) 433-3421
- 3. BENCHMARK: CONTACT LANDMARK SURVEYING, INC.
- NOTIFY ENGINEER IMMEDIATELY IF ANY INCONSISTENCES ARE DISCOVERED BETWEEN ACTUAL SITE CONDITIONS AND WHAT IS SHOWN ON THE PLANS, WHICH ARE SIGNIFICANT ENOUGH TO ALTER THE INTENT OF THE DRAWINGS.
- 5. IF REQUIRED BY THE MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY, THE OWNER OR CONTRACTOR SHALL OBTAIN A PLUMBING PERMIT PRIOR TO THE INSTALLATION OF ANY STORM SEWER UTILITIES.
- 7. SEE SHEET C2 FOR STANDARD DETAILS.
- 9. TRASH GUARDS SHALL BE INSTALLED ON ALL STORM SEWER END SECTIONS.

- 1. CONTRACTOR SHALL PERFORM CALCULATIONS TO VERIFY EARTHWORK QUANTITIES.
  CONTRACTOR'S BID SHALL BE BASED ON EARTHWORK CALCULATIONS COMPLETED BY
  THE CONTRACTOR

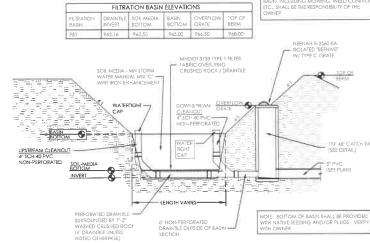
- 6. LINEAR FOOTAGE AND HEIGHTS OF ANY RETAINING WALLS SHOWN ON THIS PLAN ARE ESTIMATED, BASED ON THE TOPOGRAPHIC SURVEY BACKGROUND, AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.

IOTE: CADD FILES FOR ESTIMATING EARTHWORK: OUANTITIES ARE AVAILABLE OF CONTRACTORS OF REPERSINGS BIDS. IN ORDES TO RECEIVE THE CADD FILE OF CONTRACTOR WILL NEED TO SIGN A HOLD-LARM MESS AGREE THE YEAR SCHOOL SENSING THE STATE OF THE CADD THE WILL BE REASON THE WILL BE REASON THE WILL BE THE CADD THE WILL BE WILL BE THE MESS THE WILL BE REASON THE WILL BE THE CADD THE WILL BE THE CADD THE OF THE CADD THE STATE OF THE CADD THE WILL BE THE CADD THE WILL BE THE WILL

# FILTRATION BASIN NOTES:

- 81% TO 83% SAND (USDA SOIL TEXTURAL CLASSFICATION); 7% TO 10% FINES (SITTAND CLAY, WITH A MAXIMUM CLAY CONTENT OF 5%) 3% TO 5% ANDOT 3890 GRADE 2 COMPOST 5% TO 7% RON FULNOS

- 6. ONCE EXCAVATED TO FINAL GRADE FILTRATION BASIN AREAS SHALL BY INSPECTED TO ENSURE HIAT ING SEDIMENT FROM ONG ONIG CONSTRUCTION ACTIVITY S REACHING THE BASIN AREAS. ALL FILTRATION BASIN AREAS SHALL BE INSPECTED TO ENSURE THAT UNAUTHORIZED EQUIPMENT IS NOT BEING DRIVEN ACROSS THE BASIN AREAS, AS WELL.



FILTRATION BASIN

#### Project Description

This project will consist of the construction of a new addition to an existing commercial building, with an approximate it 9,000 st, as well as parking for and divieway areas, loading dock areas, and sidewalk. Sterm water management for fri-will consist of a littletion basis with ito an enhancement.

#### Disturbed Area & Impervious Surface Tabulation

Anticipated Disturbed Area	1.5 acres
Existing Impervious Area	0.05 acres
Proposed Impervious Area	0.72 acres
Nel Impervious Area Increase	0.67 acres

#### Permanent Site Drainage

water art sire to the horiti. Some starage has been included in the basin for rate control. The basin has been designed to the discharges to existing runoff rates from the 2, 10, and 100-year, 24-hour starm events, as well as the 100-year snowmelf events.

FILTRATION BASIN CALCULATIONS	Draw Down Time
Total proposed impervious surfacing = 31,300 SF (Includes both new and redeveloped impervious surfacing)	Assumed underlying soils: Poorly graded sands (SP-SM) (filter sail media)
	Assumed infiltration rate: 0.80 in/hr
Required water quality valume = 31,300 sf x 1.1-in = 2,870 cf	(based on MN storm water manual)
	Maximum time of infiltration = 48 bs. 0 min
Filtration Basin	
	Design time at infiltration = 18 in (1.5-ft); / 0.80 in/hr = 22 hrs, 30 min
Area of 965 contour (basin bottom) = 2,110 st	(assuming full system to basin autlet)
Area of 966.5 contour (basin outlet) = 3,810 sf	
Provided filtration volume (average end area method) $\{(2.110 \cdot \text{sf} + 3.810 \cdot \text{sf}) / 2\} \times 1.5 \cdot \text{ff} = 4.440 \cdot \text{cf}$	

#### Receiving Surface Waters

Surface Water	Type of Surface Water	Impaired Water?		USEPA Approved TMOL for Impaired Water?	Comments
Downstream Wetlands	Wetland	No	No		
				,	

#### SEDIMENT AND OTHER POLLUTANTS.

This SWPPP has been designed mainly to provide erasion and sediment control of naturally accurring soils at this site (let sands, loams, and clays). Although this SWPPP does address pollution prevention of other man-made materials, it is assumed that these mades and consist of depits from existing structures and pavements to be demolshed, or debits and chemicals (let fuels, new paints, etc.) resulfing from new construction.

There are no known solid wastes in nazarabus materias busind below grade of this site. If with wastes is hazard materias busind below grade of this site. If with wastes is hazard materias and discovered during construction, the SWPPP Coordinate (described below) will be responsible for notifying the Engineer. This SWPPP will then be revised to additionally be refused to an disposal of these additional pollutants.

## EROSION PREVENTION AND SEDIMENT CONTROL RESPONSIBILITIES

#### SWPPP Design Engineer and Qualifications

Design Engineer	Brian J. Schultz. PE		
Training Course	Design of SWPPP Recent		
Training Entity	University of Minnesota		
Instructor	John Chapman		
Dates of Training Course	March 3, 2020		
Total Training Hours	7.0		

"Design of SWPPP" is a recertification course offered to the University of Minnesota. The Engineer's certification for "Design of SWPPP" is current, and will expire May 31, 2023. Certification documentation is an file at the Engineer's office and a copy can be provided upon

#### SWPPP Coordinator and Qualifications

The Contractor shall proviae an individual who shall serve as the SWPPP Coordinator for this project. The SWPPP coordinator shall oversee the implementation of this SWPPP, as well as the necessary inspections (described below) of enable prevention and sediment control BAMP, The SWPPP Coordinator shall also excess the intallation, maintenance, and report as the SWPP Coordinator is that does not be expanded for the latest state observed up and the second of the latest state of the latest state of the project to the establishment of final stabilization. Juright this period, the SWPPP Coordinator, or had supplied, and find the latest state of the stat

I shall be the Contractor's responsibility to complete the toble below, which will identify the SWPPP Coordinator and that because qualifications. This person shall acknowledge that he folke has been assigned to serve as SWPPP Coordinator and will be overseeing the items listed in this section, by providing their signature in the space below. Please note that this SWPPP will not be considered complete if the table below is not little in.

\* Typically, the identity of the SWPPP Coordinator is unknown until the project is awarded. The SWPPP Coordinator may be dentified at the project's Preconstruction Conference

SWPPP Caordinator	
Company Name	(Printed Name)
Office Phone #	acknowledge that I will be serving as SWPPP
Cell Phone #	Coordinator for this project and will be
Training Course	responsible for overseeing the items identified in this section.
Training Entity	
Instructor	(Signature)
Dates of Training Course	
Total Training Hours	(Date)

The SWPPP Coordinator may assign other personnel to supervise or perform the duties listed above. However, in completing the culties listed above, at least one person shall be trained in erosion prevention and sediment control as related to that particular part of the SWPP.

The SWPPP Caordinator shall be responsible for ensuring that the Contractor properly disposes of the temporary erosion and sediments control measures within 30 days after site stabilization is achieved or after the temporary measures are no longer

#### Record Retention

- 2). Any other stormwater related permits required for the project
- 3). Recards of all inspection and maintenance conducted during construction
- All permanent operation and maintenance agreements that have been implemented, including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance

#### 5). All required calculations for design of the temporary and permanent Stormwater Management Sy

### BMP INSPECTIONS

#### Inspection Frequency

The SWPPP Coordinator shall inspect, or designate someone else who is qualified to inspect (see above). The construction site erosian prevention and sediment control BMPs per the following time trames:

- 1). Once every 7 days
- 2). Within 24 hours of a rain event (1/2" or greater over 24 hours;

Inspections shall be conducted per the time frames listed above with the following exceptions:

- . Where parts of the construction site have permanent cover, but work remains on other parts of the site, inspections of aleas with permanent cover may be reduced to once per month.
- 2). Where construction sites have permanent cover on all exposed sail areas and no construction activity is occurring anywhere on the site, the site must be inspected for a period of 12 months (inspections may be suspended quiring frazen ground conditions). Following the 12th month of permanent cover with no construction activity, inspections may be ferminated until construction activity is once again initiated or soomer if notified in writing by the MPCA.
- 3]. Where work has been suspended due to frazen ground conditions, the required inspections and maintenance schedule me begin within 24 hours after runoff occurs at the site or prior to resuming construction, whichever occurs first.

- Date and time of inspections
- 2). Name of person(s) conducting inspection
- 3). Findings of inspections, including recommendations for corrective actions
- 4). Corrective actions taken (including dates, times, and party completing maintenance activities)
- Date and amount of any rainful events greater than 1/2" in 24 hours
   The Contractor shall install and maintain a rain gauge at the construction site in order to verify rainfall amounts.
- 6). If any discharge is observed to be occurring during the inspection, a record of all points of the property from which Phere is a discharge must be made, and the discharge shall be described (i.e., colar, odor, liboding, settled, or suspended solds, foom all sheen, and other obvious infectors of pollutinal; and printagraphed.
- 7). Documentation of any changes to the SWPPP made during construction
  a). If the SWPPP coordinate observes that a BMP fails and regular basis and believes that it is ineffective, it shall be his/her responsibility to notify the Engineer of such deficiencies. The Engineer may then amend the SWPPP (see "Amending the SWPPP).

Note: Capies of all inspection recards shall be submitted to the Engineer

#### AMENDING THE SWPPP

During the construction of this project it may become necessary to amend this SWPPP. Should the responsibility of installing, inspecting and maintaining the crosson and sediment control devices and techniques described in this SWPPP be transferred from the current Contractor to another Contractor to another Contractor to another Contractor to the When I have been supported and control to the Owner, this SWPPP shall be update accordingly. The Owner will also be required to complete an "Permit Modification Form".

Preug if on determined, during construction, by the SWPPP Coordinata, Engineer, or Regulatory Officials that deficiencies in this SWPPP exist, or it significant changes are made to the design/scope at this protect that impact existor prevention and sediment control, the Engineer that be notified immediately. The Engineer will then review potential deficiencies and/or significant changes to project design/scope, and made necessary changes to the SWPPP.

After changes are made to the SWPPF, the Engineer will issue the necessary occumentation, reflecting the changes, to the owner and to the SWPPF Coordinator. The SWPPF Coordinator shall be responsible to make sure that this documentation is project to the change SWPPF Coordinator.

### EROSION PREVENTION AND SEDIMENT CONTROL BMPS

#### Standards and References

Materials and construction methods of all BMPs included in his SWPPP shall be as per the Minnesota Department of floorsportation (MNDOT) Standard Specifications for Construction, Intest edition. The Constructor and SWPPP Coordinator shall batism a current copy of MNDOTS standard Specifications for Construction and fromitinate themselves with the specification actions applicable to this SWPPP, as there are several BMPs that specifically reference these sections.

ine Contractor and SWPPP Coordinator shall be expected to be familiar with the applicable MNDOT specification sections during construction. No additional compensation will be paid to the Contractor for additional work due to unfamiliarily with here specification sections.

If shown on the plan, the Contractor shall delineate areas that are not to be disturbed on the site. This may be done with flags, stakes, signs, sit fence, etc., and shall be completed pilor to the start of any grading operations. Regardless of the delineation method the Contractor chooses to use, the Contractor must communicate to his/there personned and subcontractors that exerces are not to be disturbed and construction egylpment (including trucks and personal venicles) shall not be allowed in these areas are not to be disturbed and construction egylpment (including trucks and personal venicles) shall not be allowed in these areas.

## Temporals and Permanent Stabilization

All exposed sail creas (including stockpiles) shall be provided with temporary or permanent cover within 14 days of construction (entirely temporarily or permanent) ceasing in that portion of the site. Temporary or permanent distinage districts or swelse, which dails of little or to a surface water, and see within 200 fincel feel of the property fine or surface water shall be provided with temporary or permanent cover within 24 hours of construction. Placement of temporary or permanent cover shall be inhibited immediately upon suspension or competition of exceedabling operations.

## Temporary Cover:

iii). Discanchored mulch may be used in an area of the site (or the whole site) if the Contractor is halting grading operations for a period that is relatively short, but exceeds 14 days.

- b). The mulch shall be Type 3 per MNDOT \$pec. 3882
- d). Mulch shall be placed as per MNDOT 2575.3C.
- e). All mulch shall be disc anchored as per MNDOT 2575.3D. Prior to the placement and discanchoring of the mulch, the soils shall be loosened and the axea smooth-rough graded per MNDOT 2574.
- 1). Any areas that are exposed as a result of wind action after the initial mulch placement shall be covered with additional mulch to maintain 90% coverage.

- a). Temporary seeding with mulch may be used in areas of the site for the whole site) if the Contractor is halling grading operations for a period that is relatively long. Although mulch still needs to be applied as described above, once the temporary seeding/furf is established, the mulch will no longer need to be maintained. The temporary seeding/furf will require very little maintenance.
- b). Prior to the sawing of temporary seed, the soils shall be loosened and the area smooth-rough graded per MNDOT 2574.
- c). Confractor shall utilize Seed Mixes 21-111, 21-112, or 21-113 per MNDOT Spec. 3876 for temporary seeding.
- d). Temporary seeding shall be sown per MNDOT Spec. 2575.38.
- e). Once temporary seeding has been sown, mulch shall be placed over the area as described above

Upon completion of linkin grading and/or placement of lapsoil, infliation of the placement of permanent cover shall begin immediately over all exposed areas. This includes areas designated for impervious surfacing (its buildings, provements/gravel boses, sidewoks, etc.). When the construction schedule with not allow for the placement of the permanent impervious within a days of the completion of finish grading, temporary cover shall be provided in these areas, as described above, and permanent impervious surfacing can be constructed. Affected areas consisting of drainage disches or swales connected to within, 200 lineal feet of a property fine or surface water, shall be provided with permanent cover within 24 hours of connected.

- 1). Permanent Seeding with Mulch
- b). In addition to the plan included as part of this SWEPP, the Carticadar shall verify if a Londscaping Plan has been in the plans by the Architect. If a Londscape Architect has specified higher audity permanent cover (let sea, hydrose stc.), the Contractor shall provide this permonent cover in let of the permanent seeding specified in this SWEPP.
- c). Prior to the sowing of permanent seed, the soils shall be loosened and the area smooth-rough graded per MNDOI 2574
- at. Contractor shall utilize Seed Mix 25-131 per MNDOT Spec. 3876 for permanent serving.
- e). Permonent seeding shall be sown per MNDOT Spec. 2575.38.
- f). Once permanent seeding has been sown, mulch shall be placed over the area as described above (under Temporary Cover), unless noted otherwise.
- 21. Frosion Control Blanket
- a). Erasion control blanket shall be placed in areas as shown an the plan included in this SWPPP. These areas shall still be provided with permanent seeding, as described above, beneath the erasion control blanket.
- b). Bosion control blanket shall meet the requirements indicated in MNDOT Spec. 3885. See plan for category(s) of erostor control blanket
- c). Erasian control blanket shall be installed as per MNDOT Spec. 2575.3G2.
- d). Erosion control blanket specified in drainage ditches and swales cannected to, and within 200 lineal feet, of a properly line or surface water shall be installed within 24 hours of the completion of finish grading (including permanent seeding)
- 31. Riprap
- b). All riprap shall be underlain with Type 4 geotextile tablic. The tablic shall meet the requirements of MNDOT Spec. 3733 and shall be installed as per MNDOT Spec. 2511.382.
- c). Riprap materials shall meet the requirements of MNDOT Spec. 3601, and shall be Class 3, unless noted otherwise on the
- d). Riprap shall be considered "Random Riprap" and shall be placed as per MNDOT Spec. 2511.
- e). Although it is permitted for the riprop to be placed with machinery, it will be necessary for the Contractor to hand piac some at the riprop in order to provide a dense, well-keyed layer at stanes with the least practical quantity of void space.
- f). The minimum thickness of the riprop shall be 18 inches, unless otherwise noted on the plans.
- g). Riprap designated at the end of pipe outlets shall be placed within 24 hours of installation of the pipe autlet end section.
- h). Riprap specified in drainage ditches and swales connected to, and within 200 lineal feet, at a property line or surface water shall be installed within 24 hours of the completion of finish grading.

#### Sediment Control

- The following sediment control BMPs shall be implemented as part of this project 11. Silf Fence
- a). Silf fence shall be installed at the leaglions shown on the plan included in this SWPPP.
- b). Sill fence shall be machine sliced and materials shall meet the requirements of MNDOT Spec. 3886. c). Silt fence shall be installed as per MNDOT Spec. 2573.3B2.
- d). Still fence shall be installed prior to any upgradient grading operations, and shall remain in place and mainta adequately until upgradient areas achieve Final Stabilization (see bélow)
- e). SII fence shall be repaired or replaced if damaged during, or after, rain events, or if accumulated sediment on the upstream side of fine fence reaches 1/3 of the height of the fence. Repair or replacement of still fence shall be completed within 24 hours of discovery.
- f). Partiens of sill fence may be removed to accommodate short-term activities, such as vehicle passage. Short-term activities shall be completed as quickly as passible, and new sill fence installed immediately after competition of the short-term activities. It rainted is immenter to researched in the near full vehicle regardless of if the short term activities who been completed or not. The Contractor is adviced to schedule short term activities duling dy weather as much as practicable. No additional compensation will be paid due to additional of there associated with not-term activities.
- a). Temporary soll stockpiles shall be placed on the site in areas upgradient from still fence. Where the Contra-place temporary soil stockpiles outside designated sitt fenced areas, the stockpiles shall be surrounded by a
- 2). Catch Basin Protection
- b). "Road Drain top Slab" devices shall be installed at all catch basin locations immediately after placement of the cotch be structures. "Road Drain top Slab" devices shall remain in place and be adequately maintained until permanent surfacing contributed (its cut) on an guiter, powernents, and/or grovel surfacing, to a reast estignated for furf establishment." Road Drain for Sala' devices shall remain in place until Final Stabilization of all upgradient areas is established.
- c). Upon construction of the permanent surfacing, the "Road Drain Top Slob" devices shall be replaced with the WIMCO product specified on the plans. The WIMCO devices strail remain in place until Final Stabilization of all upgradient areas has been established.
- d). The contractor shall install one maintain the catch basin protection devices as per the manufacturer's instructions and specifications.
- 3). Culvert Intel Protection
- a). Culvert inlet protection sholl be provided of all culvert inlet locations immediately after construction of the culvert. See plan included in this SWPPF for culvert inlet locations.
- b) Cuiver inlet protection shall consist of geotexille fabric wrapped around, and completely cavering the inlet and sections.
   b) Expediatile fabric shall be the same fabric used in sit tence applications and meet the requirements of MNDOT Spec. 3886.
- c). The culvert inlet protection shall remain in place and adequately maintained until Final Stabilization of all upgradient areas has been established.
- d). Cuivert inlet protection shall be repaired or replaced if damaged during, or offer, rain events, or if accumulated sediment reaches 1/2 of the diameter of the cuivert place. Repair or replacement of cuivert intel protection shall be completed within 24 hours of discovery.

- c). Temporary rock entrance shall be constructed prior to the start of grading operations, and shall remain in place and be adequately maintained until Final Stabilization has been established.
- e). The Contractor has the option to place Type 4 geotestile fabric beneath the temporary rock entrance. The fabric may extend the life of the entrance as it will reduce rock 'sinking' that the underlying sols. If the Confractor chaoses to use fabric, it should meet the requirement of MMDOT Spec. 2, 3733 and shall be intailed as per 4MDOT Spec. 251 1382.
- f), if sediment tracking from the site is discovered an adjacent streets, the sediment shall be removed with a street tweeper or other approved method within 24 hours of discovery. This shall be done throughout construction of the project. This sedimentmy be returned and graded over expansed areas of the site, or allopsed of this site or site per MPCA requirements.
- The City may order street sweeping to be performed at the Contractor's or Owner's expense if City staff find that construction activities are resulting in sediment or debris being tracked onto City streets.
- a). Filter logs shall be installed at the locations shown on the plan included in this SWPPP. b). Filter logs shall consist of Type Wood Fiber biggols and meet the requirements of MNDOT Spec. 3897.
- c). Fitter lags shall be installed as per MNDCT Spec. 2573.3F. d). Fitter logs shall be installed immediately ofter placement of erosion control blanket.
- e). Filter loas shall remain in place for the life of the project, and shall be allowed to decrade naturally.

#### Dewatering

If dewatering of sandy subsoils is required for this project, the pump discharge shall be heated prior to discharge aff-site or into a surface water. Treatment of discharge shall be achieved with the use of a "Dandy Dewatering Bog" (or approved equivalent), as manufactured by Dandy Products, Inc., Dandy Products, Inc., can be contacted of 1877; 397;141, and their web page is www.dandyproducts.com. The "Dandy Dewatering Bog" shall be intalled, utilized, and maintained per the manufacturer's

Adequate erosion control shall be provided at the point of discharge if it is located in an area with exposed solis or established furf. This erosion control may consist of temporality placed rip rap, or other approved energy dissipation measures that the type of straion control measures shall be of the Controlator's discretion, depending on the location of the dewotering discharge and the unique site characteristics. The erosion control measures shall be effective and shall be maintained adequately such that no erosion occurs of

#### Pollution Prevention Management

- Building products that have the potential to leach pollutants shall be mointained under cover (e.g., plastic sheeting or temporary root) to prevent the discharge of pollutants or protected by a similarly effective means designed to minimize contact with starm water.
- 3). Hazardous materials, toxic waste, lincluding oil, diesel Luei, gasoline, hydroulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and addity shall be properly stored in secled containes to prevent solits, lead or other discharge. Restricted access stronge read shall be provided to prevent vandalism. Storege and disposal of hazardous waste or hazardous materials shall be in compliance with Minn. R. ch. 7045 including secondary containment as applicable.
- 4). Solid waste shall be stored, collected and disposed of properly in compliance with Minn. R. ch. 7035.
- 5). Portable toilets shall be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. ch. 7041.

The Contractorshall take steps to prevent the discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be looded or unfoaded including the use of drip parts or abstractors unless infeasible. The Contractors shall consult fueling in a contribute and result less infeasible. The Contractors half ensure adequate supplies are evalidate at all times to cident up discharged malerials and that are appropriate disposal meltina is available for recovered spilled materials. The Contract shall report and octors up spills immediately as required to by Minn. Stall § \$11.508, Lung or chears or where where possible or \$11.508, Lung or chear up of the contractors are shall be supplied to the contractors and the contractors where possible and the contractors are shall be supplied to the contractors where possible and the contractors are contractors and the contractors are contractors and the contractors are contractors. If the Contractor waites the exterior of vehicles or equipment on the project site, washing shall be limited to a defined area of the site. Ruralf from the working area shall be contained in a sediment bosin or other similarly effective controls and waste from the washing a octivity shall be properly disposed of. The Contractor shall properly use and store soops, deletgents, or solvents. No engine degreating shall be allowed on site.

The Conhoctor shall provide effective containment for all liquid and solid wastes generated by washout operations (concrete, stucce, paint, form release also, curing compounds and other construction materials) related to the construction actually. The liquid and said washout wastes shall not control. He ground, and the contradrement shall be designed to that if does not testify in trustal from the washout operations or area. Liquid and said wastes shall be disposed of properly and in compliance with NFCA rules. A sign must be invisible adopted in each washout facility that requires it is personnel to utilize the proper facilities for deposed of

# FINAL STABILIZATION

- All soil disturbing activities at the site have been completed and all soils are stabilized by a uniform perential vegetative cover with a density of 70 percent of its expected find growth density over the entire pervious surface area, or other equivalent means necessary to prevent self failure unactive conditions.
- 2). The permanent storm water management system is constructed, and is operating as designed. Temporary or permanent sedimentation basis that are to be used as permanent water quality management basis have been cleaned of any occumulated sediment. All sediment has been removed from conveyance systems and dilitate or at followled with permanent cover.
- 3). All temporary synthetic and structural erosion prevention and sediment control BMPs have been removed from the project site. BMPs designed to decompose on site may be left in place.

# ADDITIONAL COMMENTS

The Contractor is salely responsible for the cleanup of any wetlands, rivers, streams, lakes, reservoirs, other waters of the State (as defined by the MPCA's General Storm Water Permit), ground or roadway surfaces or other properly damaged by construction activity related to

Besides the NPDES permit (MPCA General Starm Water Permit), the Contractor and/or Owner shall also be responsible to obtain all other necessary local government permits related to storm water management, since ension and sediment control, if applicable (fee Watershall Bibliot, Clip, MPOCT, etc.)

This SWPPF is intended to provide a pion for addressing the erasion pievention and storm water management issues associated with project. It is to be used in confunction with the project plans, specifications, and the MPCA General Storm Water Permit. In addition, the SWPPP, the Owner, Conflictor, and SWPPP Coordinator shall be unificiate themselves with the address described with a MPCA General Storm Water Permit Istell and are responsible for compliance with the permit's terms, requirements, and conditions. Engineer can provide a capy of the permit upon mauset.

Sjoquist Architects, Inc 1800 University Avenue SE, Suite 10 Minneapolis, Minnesota 53414 612.379.9233 Fax 612.379.9263 http://www.sjoquist.com

SCHULTZ ENGINEERING

18 South Riverside Avenue Suite 230 Scatell, MN 56377 Ph: (320) 339-0669 Fx: (866) 633-1830 chultzeng@live.com

hereby certify that this plan, specification or report was prep by me or under my direct super

BRIAN J. SCHULTZ, PE

XX/XX/2020 DATE 43129 LICENSE NO.

Sjoquist Project Number Schultz Eng. Project Number

NEW BUILDING ADDITION **AMERICAN POLYWATER** CORPORATION

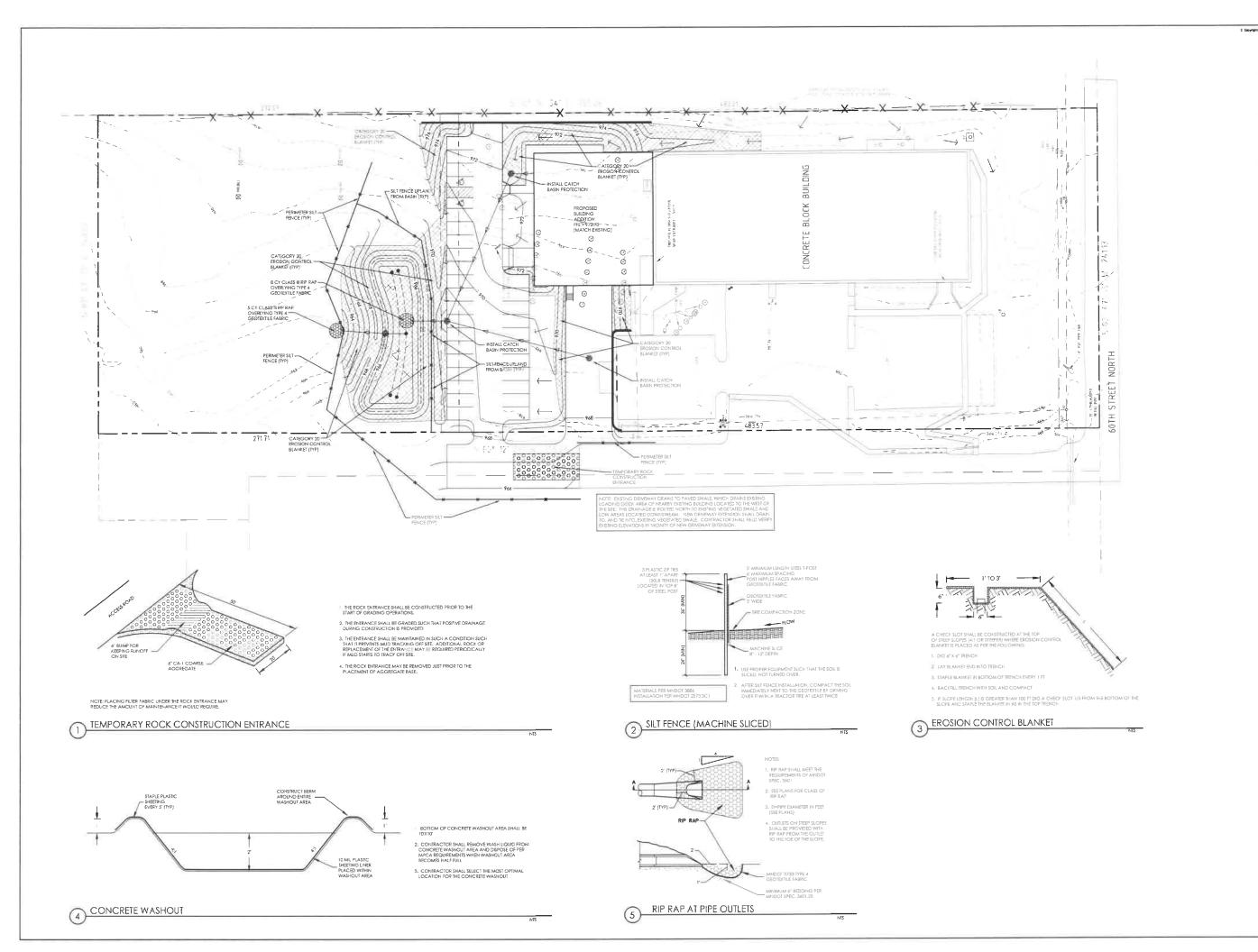
11222 60TH STREET NORTH

STILLWATER.

MINNESOTA

SW/PPP - NOTES

C-101.



Sjoquist Architects, Inc 2800 University Avenue SE, Suite 100 Minneapolis, Minnesota 55414 612.379.9233 Fax 612.379.9263 http://www.sjoquist.com

SCHULTZ ENGINEERING & SITE DESIGN

XX/XX/2020 DATE

1952 Sjoquist Project Number

20004 Schultz Eng. Project Number

NEW BUILDING ADDITION **AMERICAN** POLYWATER CORPORATION

11222 60TH STREET NORTH

STILLWATER, MINNESOTA



SWPPP - PLAN VIEW

C-101.3

 SEE SHEET C1 FOR SPECIFICATIONS REGARDING THE CONSTRUCTION OF PAVEMENTS, AND CURB AND GUTTER.

Sjoquist Architects, Inc 2800 University Avenue SE, Suite 100 Minneapolis, Minnesota 55414 612:379:2235 Fax 612:379:9263 http://www.sjoquist.com

SCHULTZ ENGINEER
& SITE DESIGN
18 South Riverside Avenue
Suite 230
Sartell, MN 56377
Ph: (320) 339-0669
Fx: (866) 633-1830
schultzeng@live.com
www.schultzengineeringdesign.

I hereby certify that this plan, specification ar report was prepared by me or under my direct supervisio and that I am a duly licensed Engineer under the laws of the state of Minnesota

BRIAN J. SCHULTZ, PE

XX/XX/2020 DATE

LICENSE

Revisions

1952 Sjoquist Project Number 20004 Schultz Eng. Project Number

NEW BUILDING ADDITION AMERICAN POLYWATER CORPORATION

11222 60TH STREET NORTH

STILLWATER, MINNESOTA

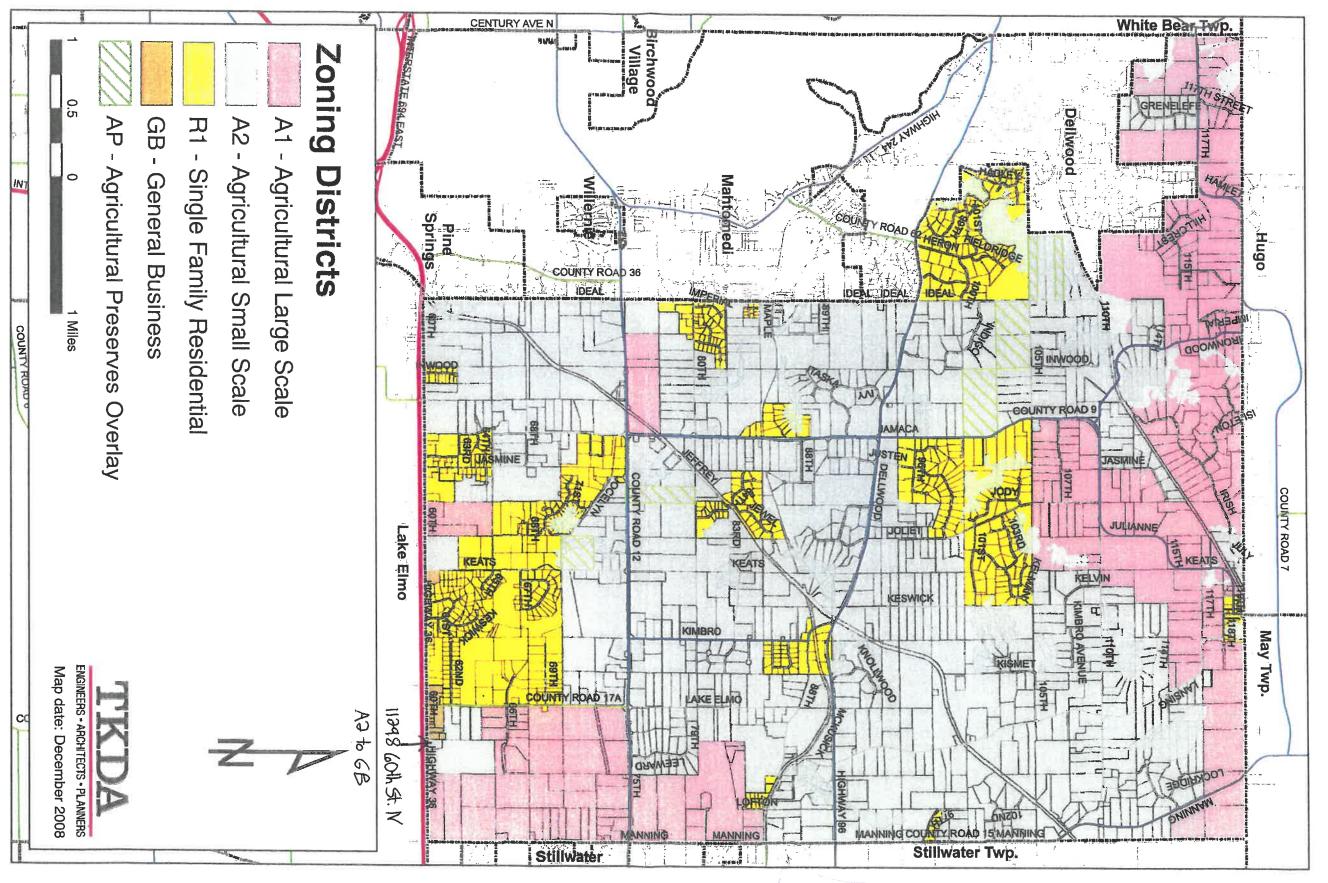


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PAVING PLAN

C-102

# City of Grant: Future Land Use and Zoning



# **MINOR SUBDIVISION**

~for~ DICK AND MAUREEN BENNETT (763)-245-9590

~of~ 9337 and 9411 Joliet Ave

# **EXISTING LEGAL DESCRIPTIONS:**

(Per Woshington County Tax Descriptions)

## 9337 JOLIET AVENUE (PID: 15-030-21-41-0004):

The South 300 feet of the North 950 feet of the West 726 feet of the Northeost Quarter of the Southeast Quarter of Section 15, Township 30, Ronge 21, Washington County, Minnesoto.

## 9411 JOLIET AVENUE (PID: 15-030-21-41-0002)

The North 550 feet of the Northeast Quarter of the Southeast Quarter of Section 15, Township 30, Range 21, Washington County, Minnesota.

#### UNASSIGNED ADDRESS (PID: 15-030-21-41-0005)

That part of the East half of the Southeast Quarter of Section 15, Township 30, Range 21, Washington County, Minnesota, lying northerly of State Highway No. 96.

EXCEPT

The North 660 feet thereof.

ALSO EXCEPT

The South 300 feet of the North 960 feet of the West

# **PROPOSED LEGAL DESCRIPTIONS:**

That part of the West 726 feet of the East Half of the Southeast Quarter of Section 15, Township 30, Range 21, Woshington County, Minnesota, lying south of the North 660 feet thereof and lying North of State Highway No. 96.

#### PARCEL B:

That part of the East half of the Southeast Quarter of Section 15, Township 30, Range 21, Washington County, Minnesota, lying North of State Highway No. 96.

That part of the West 726 feet of said East Half lying south of the North 650 feet of said East Half.

# **NOTES**

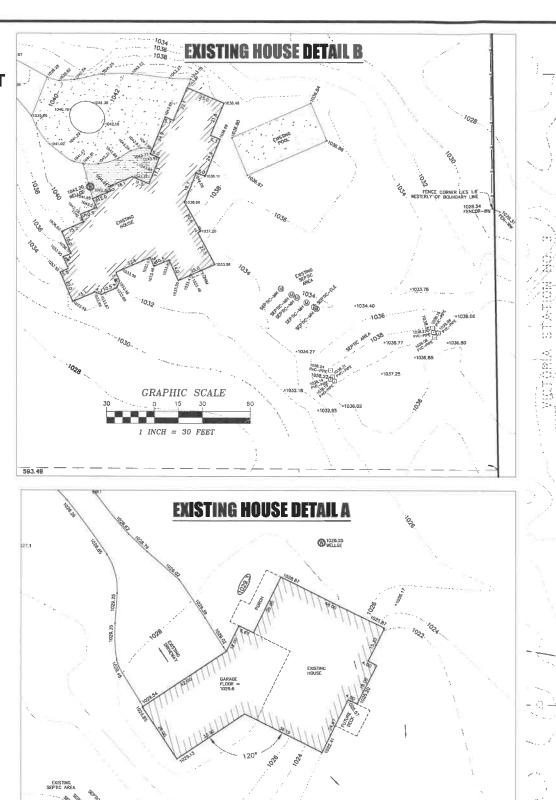
- Field survey was completed by E.G. Rud and Sons, Inc. on 4/24/18 and 07/01/20.
- Bearings shown are on Washington County datum.
- Curb shots are taken at the top and back of curb.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title
- Contours are shown through a combination of LiDAR mapping and field survey data.
- Parcel ID Numbers:

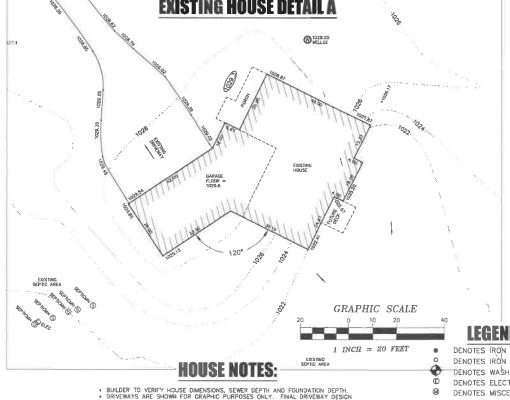
15-030-21-41-0002 (9411 Joliet Ave) 15-030-21-41-0004 (9337 Joliet Ave) 15-030-21-41-0005 (Unassigned Address)

E.G. RUD & SONS, INC.

BY 1977 Professional Land Surveyors 6776 Lake Drive NE, Suite 110

Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701





BUILDER TO VERIFY HOUSE DIMENSIONS, SEWER DEPTH AND FOUNDATION DEPTH.
 DRIVEWAYS ARE SHOWN FOR GRAPHIC PURPOSES ONLY. FINAL DRIVEWAY DESIGN AND LOCATION TO BE DETERMINED BY CONTRACTOR.
 FINISHED GRADE ADJACENT TO HOME SHALL BE 0.5 FEET BELOW TOP OF BLOCK EXCEPT AT DRIVEWAY AND PATIO.

DIAGONAL (GARAGE): 33.92 X 48.00 = 58.77 (8 FOOT POURED WALL WALKOUT) **PROPOSED ELEVATIONS:** 

8 X 1011.2

DENOTES IRON MONUMENT FOUND AS LABELED DENOTES IRON MONUMENT SET, MARKED RLS# 41578 DENOTES WASHINGTON COUNTY CAST IRON MONUMENT DENOTES ELECTRICAL MANHOLE DENOTES MISCELLANEOUS MANHOLE DENOTES POWER POLE DENOTES WELL DENOTES EXISTING CONTOURS DENOTES PROPOSED CONTOURS **NORTH** DENOTES BITUMINOUS SURFACE DENOTES CONCRETE SURFACE GRAPHIC SCALE DENOTES PAVER SURFACE DENOTES PROPOSED ELEVATION. DENOTES EXISTING ELEVATION. DENOTES DIRECTION OF DRAINAGE 1 INCH = 100FEET DENOTES WOOD HUB/METAL SPIKE AT 11 FOOT OFFSET. (UNLESS OTHERWISE NOTED)

HUTON'S WHITETAIL RIDGE

OZO IN EXISTING HIRE

(0)

hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

Date: 8/11/2020 License No. 41578

MNDOT NAME: KENDRICK MNDT AZ MK GSID STATION #: 33596 ELEVATION: 936.724 (NAVD88)

**BENCHMARK** 

EAST QUARTER CORNER O

OF SEC. 15-30 RNG, 21

EAST-WEST QUARTER LINE OF SEC. 15 TWF 30 RNG. 21

N89°47'16"W 1317.62

PROPOSED PARCEL B

BUILDABLE AREA

PROPOSED PARCEL A

DRAWN BY: CMB JOB NO: 18239HS DATE: 4/18/18 CHECK BY: JER SCANNED 2 8-11-20 CLIENT COMMENTS CMB

18239HS