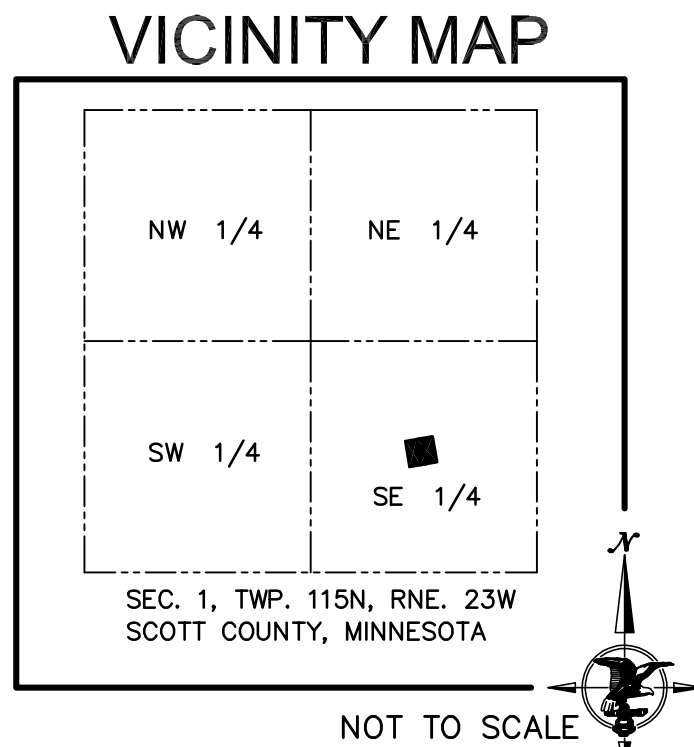
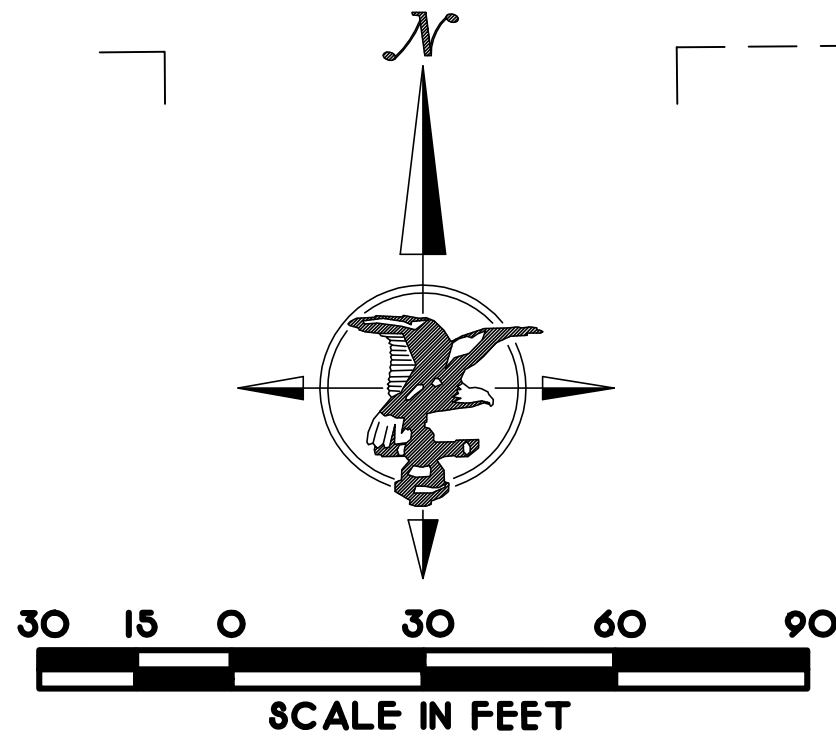
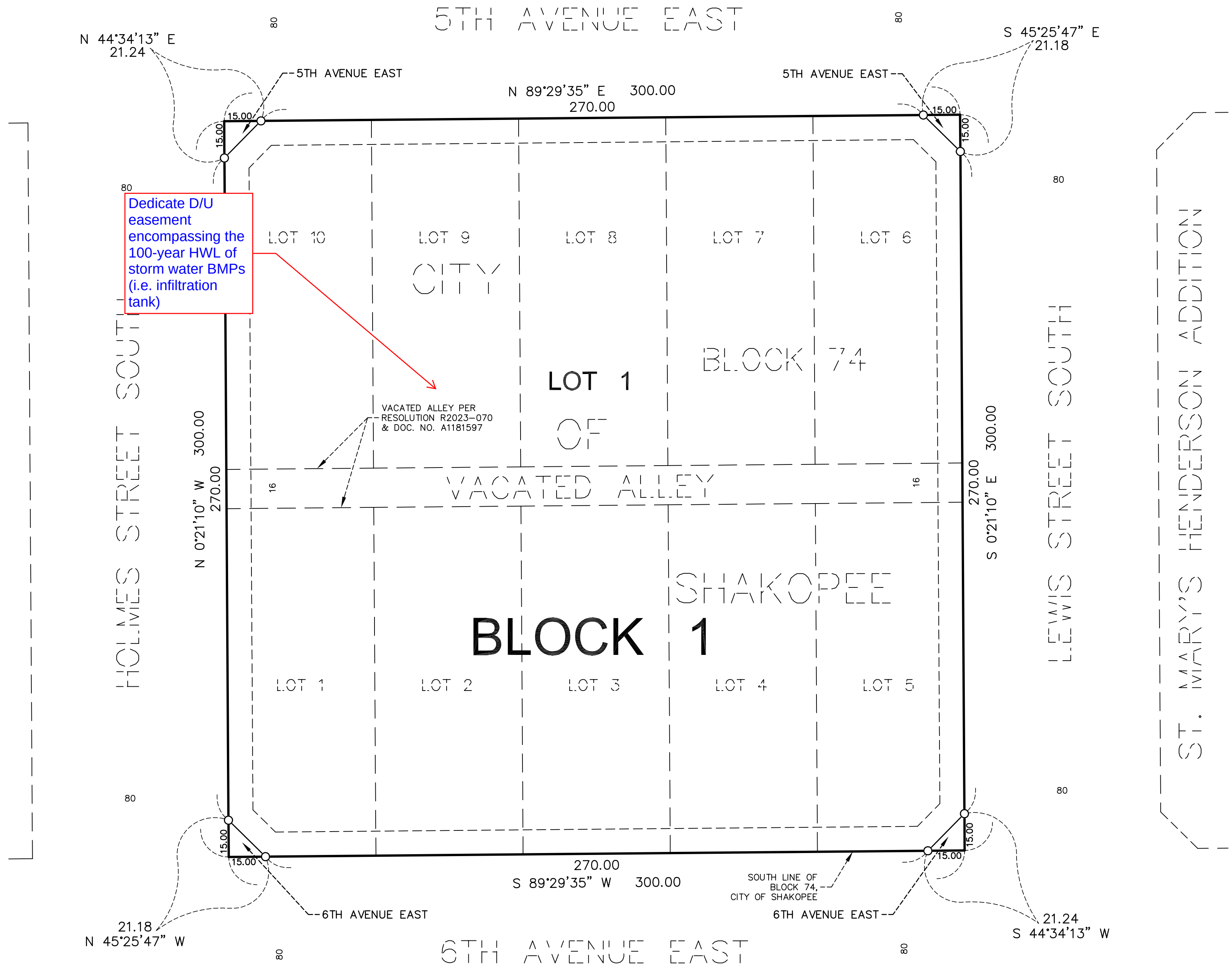


# CDA SHAKOPEE ADDITION



DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:

NOT TO SCALE

BEING 10 FEET IN WIDTH, ADJOINING RIGHT OF WAY LINES, UNLESS OTHERWISE INDICATED.

○ DENOTES SET IRON MONUMENT EVIDENCED BY 1/2" BY 14" IRON PIPE MARKED R.L.S. 23677

● DENOTES FOUND IRON MONUMENT

THE SOUTH LINE OF BLOCK 74, CITY OF SHAKOPEE, IS ASSUMED TO HAVE A BEARING OF S 89°29'35" W.

KNOW ALL PERSONS BY THESE PRESENTS: That The Scott County Community Development Agency, a public body politic and corporate of the State of Minnesota, owner of the following described property situated in the County of Scott, State of Minnesota, to wit:

Lots 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, and vacated alley, all in Block 74, CITY OF SHAKOPEE, Scott County, Minnesota.

Has caused the same to be surveyed and platted as CDA SHAKOPEE ADDITION and does hereby dedicate to the public, for public use forever, the public ways and easements as shown on this plat for drainage and utility purposes only.

In witness whereof said Scott County Community Development Agency, a public body politic and corporate of the State of Minnesota, has caused these presents to be signed by its proper officer this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Scott County Community Development Agency

\_\_\_\_ Its \_\_\_\_\_

STATE OF MINNESOTA  
COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_, of Scott County Community Development Agency, a public body politic and corporate of the State of Minnesota.

\_\_\_\_ signature \_\_\_\_\_ notary printed name

Notary Public, \_\_\_\_\_ County, Minnesota

My Commission Expires \_\_\_\_\_

I, Thomas E. Hodorff, do hereby certify that this plat was prepared by me or under my direct supervision; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plat is a correct representation of the boundary survey; that all mathematical data and labels are correctly designated on this plat; that all monuments depicted on this plat have been, or will be correctly set within one year; that all water boundaries and wet lands, as defined in Minnesota Statutes, Section 505.01, Subd. 3, as of the date of this certificate are shown and labeled on this plat; and all public ways are shown and labeled on this plat.

\_\_\_\_ Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
Thomas E. Hodorff  
Licensed Land Surveyor  
Minnesota License No. 23677

STATE OF MINNESOTA  
COUNTY OF \_\_\_\_\_

The foregoing Surveyor's Certificate was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by Thomas E. Hodorff, a Licensed Land Surveyor.

\_\_\_\_ signature \_\_\_\_\_ notary printed name

Notary Public, \_\_\_\_\_ County, Minnesota

My Commission Expires \_\_\_\_\_

CITY COUNCIL OF SHAKOPEE, MINNESOTA  
We do hereby certify that on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, the City Council of the City of Shakopee, Minnesota, approved this plat and is in compliance with the provisions of Minnesota Statutes, Section 505.03, Subd. 2.

\_\_\_\_ Attested: \_\_\_\_\_  
Mayor Clerk

CITY ATTORNEY, SHAKOPEE, MINNESOTA  
I hereby certify that I have examined this plat of CDA SHAKOPEE ADDITION and do hereby recommend this plat for approval as to form this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_  
City Attorney, City of Shakopee, Minnesota

SCOTT COUNTY SURVEYOR:  
Pursuant to Minnesota Statutes, Chapter 389.09, Subd. 1, as amended, this plat has been reviewed and approved this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

By: \_\_\_\_\_  
Scott County Surveyor

SCOTT COUNTY AUDITOR/TREASURER:  
I hereby certify that the current and delinquent taxes on the lands described within are paid and the transfer is entered this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
Scott County Auditor Scott County Treasurer

Signed by: \_\_\_\_\_, Deputy \_\_\_\_\_

SCOTT COUNTY RECORDER:  
I hereby certify that this plat was recorded in the office of the County Recorder for record on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, at \_\_\_\_ o'clock, \_\_\_\_M. as Document No. \_\_\_\_\_

\_\_\_\_  
Scott County Recorder

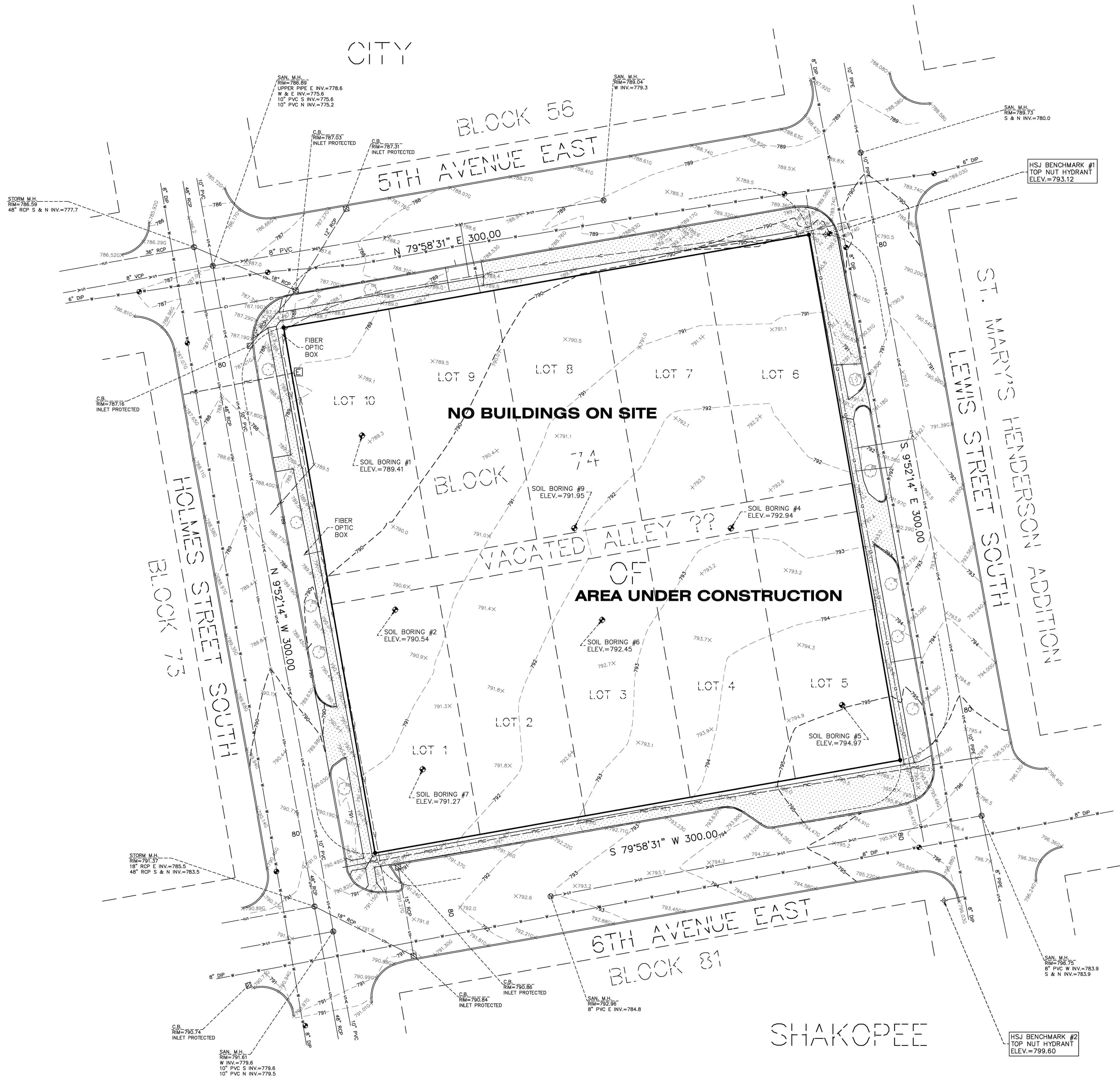
**HARRY S. JOHNSON**  
LAND SURVEYORS



Submit a turning movement diagram that shows accessibility for fire, garbage and delivery trucks throughout the proposed development.

Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

Include title sheet with sheet index



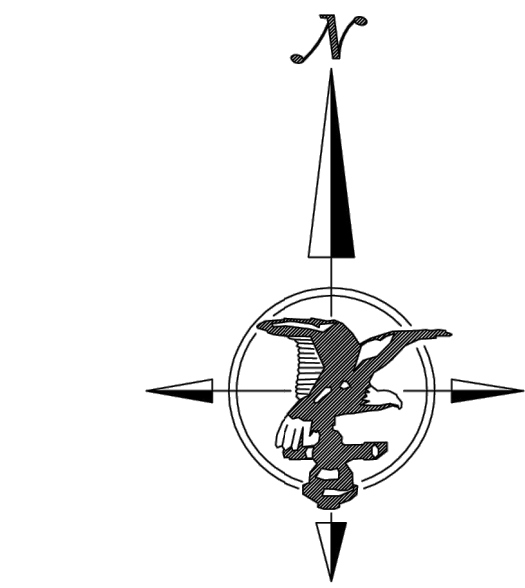
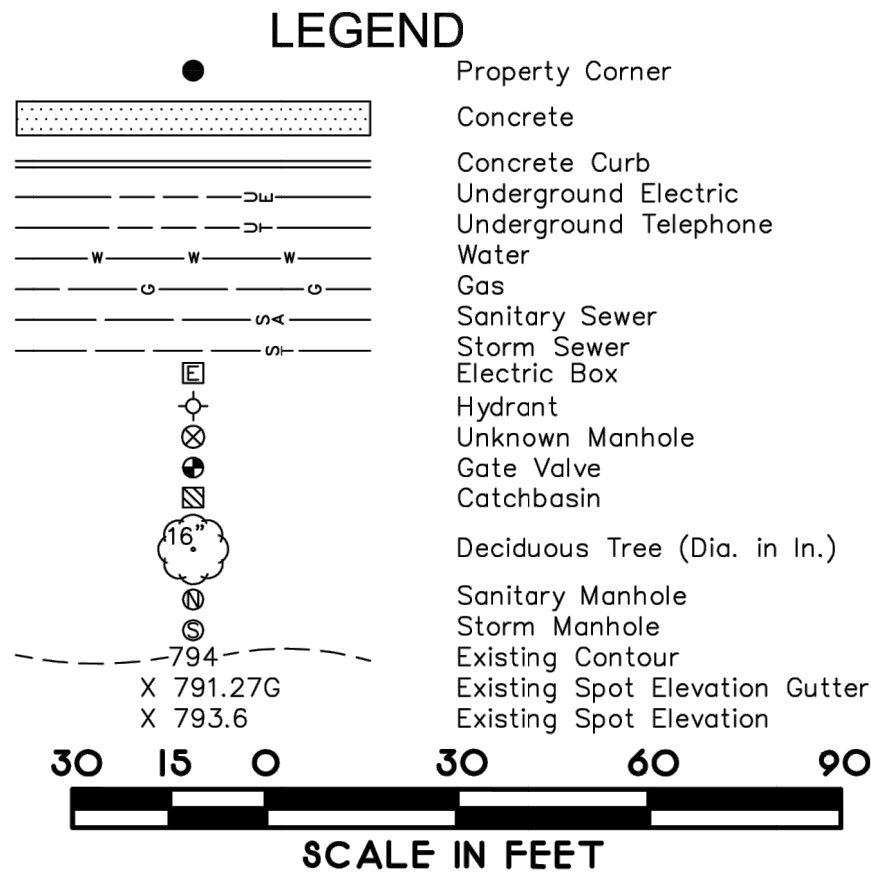
PROPERTY DESCRIPTION  
Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, all in Block 74,  
CITY OF SHAKOPEE, Scott County, Minnesota.

Note: Above legal description taken from Commitment  
issued by Scott County Abstract & Title Co., Inc., as  
agent for Chicago Title Insurance Company, with an  
effective date of March 31, 2023, File Number I-35553.

NOTES CORRESPONDING TO EASEMENTS:  
There are NO survey matters regarding the Schedule B items listed in Scott County Abstract  
& Title Co., Inc Title Commitment No. I-35553, dated March 31, 2023, that can be  
graphically depicted on the survey.

STATEMENT OF POSSIBLE ENCROACHMENTS:  
There are no visible above ground encroachments over or across any property lines of  
subject property.

- GENERAL NOTES:
- The bearing system used is assumed.
  - Utility Notes:
    - The location of the underground utilities shown hereon, if any, are approximate only and can not be completely and reliably depicted. PURSUANT TO MSA 216D CONTACT GOPHER STATE ONE CALL AT (612) 454-0002 PRIOR TO ANY EXCAVATION. Gopher State One Call locate requests from surveyors for design may be ignored or result in an incomplete or untimely response. Note to the client and any other user of this survey: Source information from available plans and field markings (public or private) are combined with observed evidence to help develop a view of both above and below ground utilities. Without excavation, the location of any shown underground feature is approximate. Further verification may be required.
    - Other underground utilities of which we are unaware may exist. Note: Verify all utilities critical to construction or design.
  - Subject property is identified as being in "Zone X, Other Area" on Flood Insurance Rate Map No. 27139C0017E, effective date February 12, 2021.
  - Site Area = 90,000 square feet = 2.066 acres (Area includes alley).
  - This survey was made on the ground.
  - No current title work was furnished for the preparation of this survey. In preparing this survey I have relied upon the supporting documents and the Commitment for Title Insurance issued by Scott County Abstract & Title Co., Inc. as agent for Chicago Title Insurance Company having an effective date of March 31, 2023 and bearing File Number I-35553. (Note: Current property description does NOT include or mention the east-west alley through Block 74, CITY OF SHAKOPEE)
  - There is visible above ground evidence of earth moving work, building construction or building additions within recent months.
  - Elevation datum is based on NAVD 88 data.  
HSJ Benchmark #1 is located Top Nut Hydrant (AS SHOWN ON SURVEY)  
Elevation = 793.12
  - Water line pipe sizes vary between City As-Built maps, verify with City prior to any calculations or construction. (Sizes shown are not verified)



SCALE: 1 INCH = 30 FEET

| REVISIONS |  |
|-----------|--|
| Date:     |  |
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|           |  |
|           |  |

I 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

*Thomas E. Hodorff*  
Thomas E. Hodorff, L.S.  
Minnesota Reg. No. 23677

Date: October 26, 2023

BOUNDARY,  
LOCATION &  
TOPOGRAPHICAL SURVEY

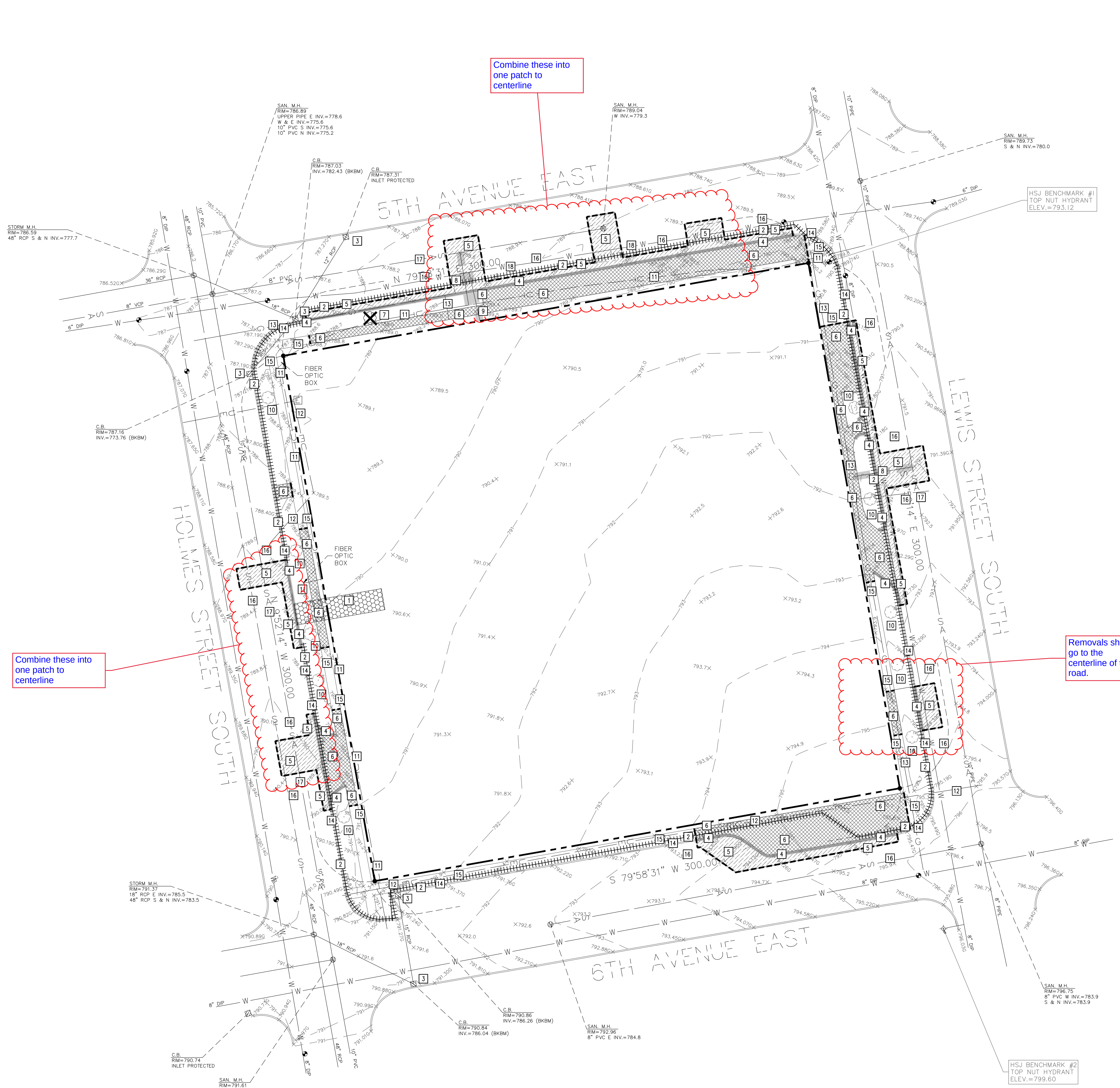
For:  
  
SCOTT COUNTY CDA

SITE:  
  
132 5TH AVENUE EAST &  
505 HOLMES STREET SOUTH

SHAKOPEE, MINNESOTA  
SCOTT COUNTY

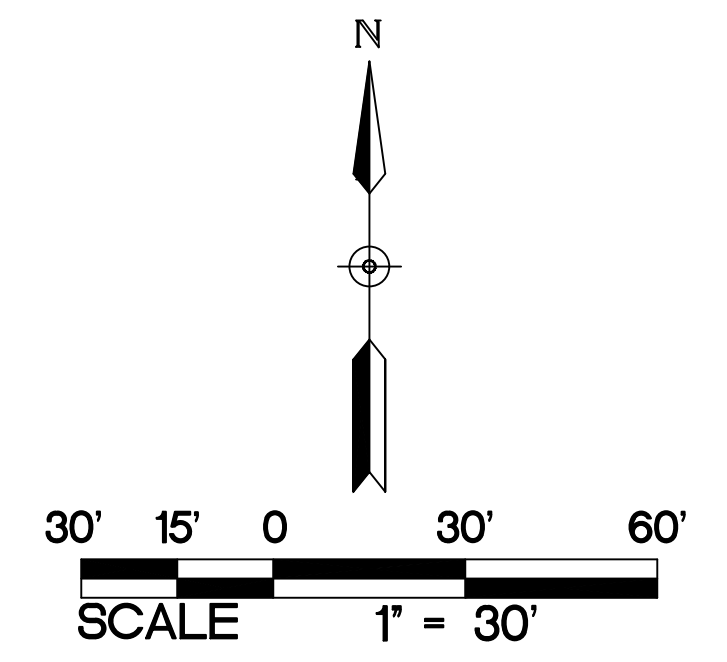
HARRY S. JOHNSON CO., INC.  
LAND SURVEYORS  
9063 Lyndale Avenue South  
Bloomington, MN. 55437  
Tele. 952-884-5341 Fax 952-884-5344  
www.hsjsurveyors.com

|                      |                         |
|----------------------|-------------------------|
| Book<br>667          | File No.<br>2023-210-01 |
| Page<br>8            |                         |
| CAD Technician<br>CT | 2023210.01              |
| Sheet No.            | 1 OF 1                  |



| PROPOSED PLAN SYMBOLS |        |
|-----------------------|--------|
| CONSTRUCTION LIMITS   | ---    |
| SEDIMENT CONTROL LOG  |        |
| PROPERTY LINE         | ---    |
| SAWCUT LINE (APPROX.) | ---    |
| CONSTRUCTION ENTRANCE | XXXXXX |
| BITUMINOUS REMOVAL    | XXXXXX |
| CONCRETE REMOVAL      | XXXXXX |
| CURB REMOVAL          | XXXXXX |
| PIPE REMOVAL          | XXXXXX |
| TREE REMOVAL          | X      |

| ABBREVIATIONS |                          |
|---------------|--------------------------|
| BDG           | Building                 |
| BM            | Benchmark                |
| BS            | Bottom of Step           |
| BW            | Bottom of Wall           |
| CB            | Catch Basin              |
| CONC          | Concrete                 |
| ELEV          | Elevation                |
| EX            | Existing                 |
| FFE           | Finished Floor Elevation |
| HWL           | High Water Level         |
| INV           | Invert                   |
| LFE           | Lower Floor Elevation    |
| MAX           | Maximum                  |
| MH            | Manhole                  |
| MIN           | Minimum                  |
| PVC           | Polyvinyl Chloride       |
| RCP           | Reinforced Concrete Pipe |
| STRM          | Storm Sewer Structure    |
| TC            | Top of Curb              |
| TS            | Top of Step              |
| TW            | Top of Wall              |
| W.O.          | Washout                  |



NOTE: CONSTRUCTION LIMITS ARE ANTICIPATED TO BE PROPERTY LINE UNLESS OTHERWISE SHOWN.

NOTE: STORM SEWER INLETS NOT SHOWN ON PLAN MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INSTALL INLET SEDIMENT PROTECTION PER DETAIL 3/C500 ON ALL STORM INLETS THAT MAY RECEIVE RUNOFF.

NOTE: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES. CONTACT CIVIL ENGINEER IF EXISTING UTILITIES TO REMAIN WILL BE IMPACTED BY PROPOSED WORK.

#### KEYED NOTES

1. INSTALL ROCK CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/C500.
2. INSTALL BIO LOG. REFER TO DETAIL 2/C500.
3. INSTALL INLET SEDIMENT PROTECTION. REFER TO DETAIL 3/C500.
4. REMOVE CURB AND GUTTER TO THE APPROXIMATE EXTENTS SHOWN. SAWCUT AND REMOVE AT NEAREST JOINT.
5. SAWCUT AND REMOVE BITUMINOUS PAVEMENT AS NECESSARY FOR UTILITY INSTALLATION.
6. REMOVE CONCRETE PAVEMENT IN ITS ENTIRETY TO THE APPROXIMATE EXTENTS SHOWN.
7. REMOVE TREE IN ITS ENTIRETY INCLUDING STUMP.
8. REMOVE SANITARY SEWER IN ITS ENTIRETY TO THE EXTENTS SHOWN. CONTRACTOR SHALL CAP SANITARY SEWER AT THE MAIN LINE PER CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
9. REMOVE WATER SERVICE LINE AND VALVES IN THEIR ENTIRETY TO THE EXTENTS SHOWN. CONTRACTOR SHALL CAP WATER LINE AT THE MAIN LINE PER CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
10. EXISTING TREE TO REMAIN. PROTECT AT ALL TIMES.
11. EXISTING UNDERGROUND FIBER LINE AND FIBER BOX TO REMAIN. PROTECT AT ALL TIMES.
12. EXISTING UNDERGROUND ELECTRICAL LINE AND VAULT TO REMAIN. PROTECT AT ALL TIMES.
13. EXISTING GAS LINE TO REMAIN. PROTECT AT ALL TIMES.
14. EXISTING CONCRETE CURB TO REMAIN. PROTECT AT ALL TIMES.
15. EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
16. EXISTING BITUMINOUS PAVEMENT TO REMAIN. PROTECT AT ALL TIMES.
17. EXISTING SANITARY SEWER TO REMAIN. PROTECT AT ALL TIMES.
18. EXISTING WATERMAIN TO REMAIN. PROTECT AT ALL TIMES.

Use MnDOT Standard Plates for erosion control BMPs

Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

SPU: Per SPU Water Policy Manual and Standards (assumed 6" service - cap at main)

SPU: 42 inches cover required during construction and with final grade

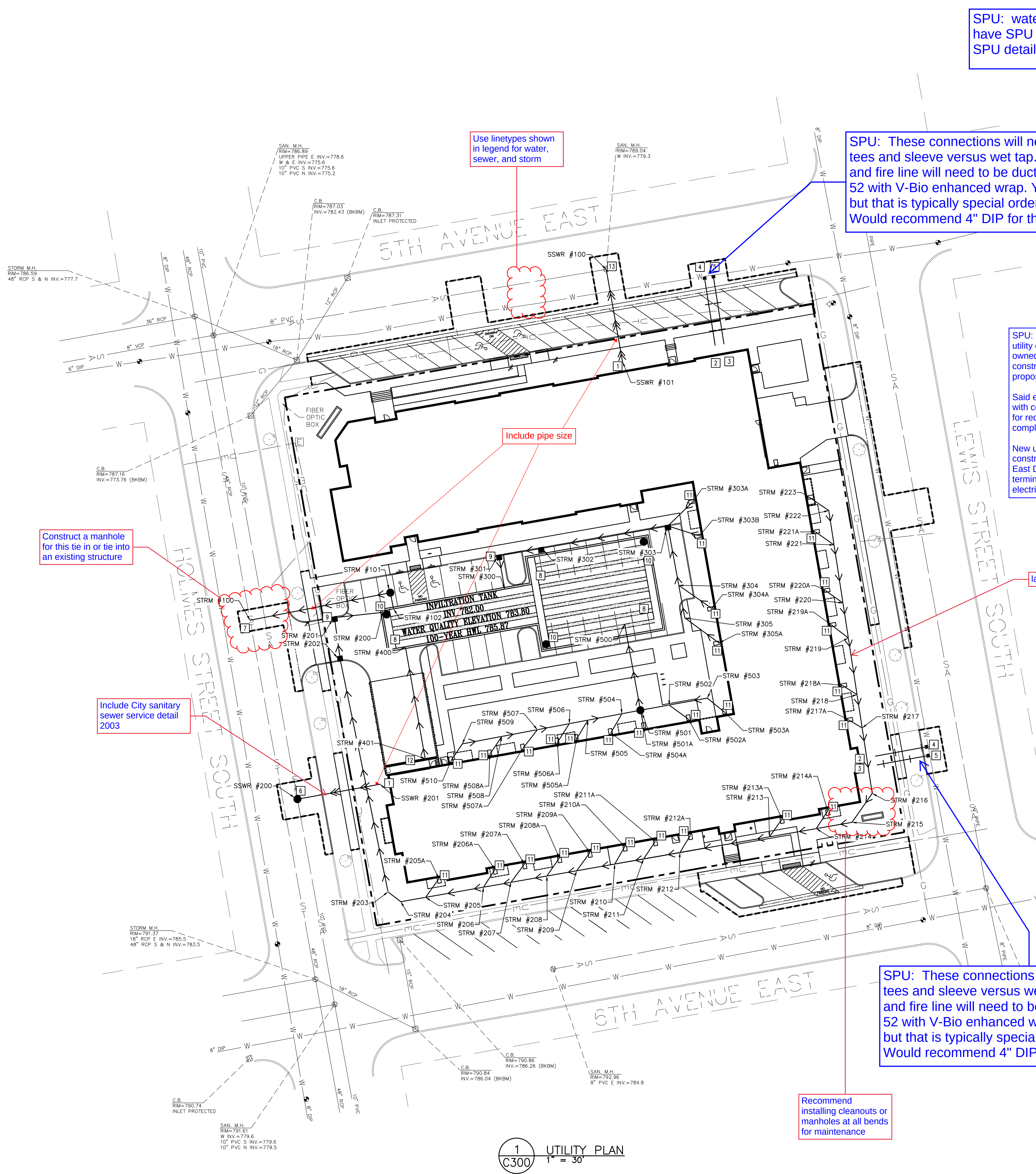
#### DEMOLITION AND REMOVAL NOTES:

1. CONTRACTOR SHALL FOLLOW ALL CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
2. PRIOR TO START OF ANY CONSTRUCTION ACTIVITY, ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY OF SHAKOPEE. PERIMETER SEDIMENT PROTECTION SHALL BE INSTALLED ALONG THE CONTOUR.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION MARK 48 HOURS BEFORE CONSTRUCTION STARTS. THE ENGINEER, ARCHITECT, OR OWNER DOES NOT GUARANTEE THAT ALL THE UTILITIES ARE MAPPED, OR, IF MAPPED, ARE SHOWN CORRECTLY. CONTACT Gopher State One Call at 888-454-0002 FOR FIELD LOCATING EXISTING UTILITIES. CONTACT UTILITY OWNER IF DAMAGE OCCURS DUE TO CONSTRUCTION.
4. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CLEARLY IDENTIFY IN THE FIELD THE WETLAND PERIMETERS THAT ARE NOT TO BE IMPACTED SO THAT NO ENCROACHMENT OCCURS. AFTER THE PERIMETERS ARE CLEARLY MARKED IN THE FIELD, THE CONTRACTOR SHALL CONTACT LOWER MINNESOTA RIVER WATERSHED DISTRICT TO CONFIRM AND APPROVE NO ENCROACHMENT LIMITS.
5. THERE MAY BE MISCELLANEOUS ITEMS TO BE REMOVED THAT ARE NOT IDENTIFIED ON THESE PLANS. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW THE DOCUMENTS TO OBTAIN A CLEAR UNDERSTANDING OF THE INTENDED SCOPE OF WORK.
6. ANY UTILITIES NOT INDICATED FOR REMOVAL OR ABANDONMENT ARE TO BE PROTECTED AT ALL TIMES.
7. EXISTING CONCRETE PAVEMENT AND CURB AND GUTTER SHOWN TO BE REMOVED WITHIN THE SCOPE OF THE PROJECT SHALL BE REMOVED FROM THE SAW CUT LINES TO THE NEAREST JOINT.
8. THE BACKGROUND INFORMATION WAS PREPARED BY HARRY S. JOHNSON CO., INC. LAND SURVEYORS, (952) 884-5341.
9. ALL WORK IN THE PUBLIC RIGHT OF WAY IS TO BE COORDINATED WITH THE CITY OF SHAKOPEE. ROADWAY REPAIRS, BOULEVARD REPAIRS, AND TRAFFIC CONTROL ARE TO BE PER CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.

#### GENERAL NOTES:

1. CONCRETE CURB AND GUTTER REMOVAL, PAVEMENT REMOVAL, AND UTILITY REMOVAL LIMITS ARE TO BE COORDINATED WITH THE CITY OF SHAKOPEE AND UTILITY OWNER.
2. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN WHILE WORKING WITHIN THE RIGHT-OF-WAY. THE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO STREET ENCROACHMENT.
3. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND REVIEW ALL CONSTRUCTION DOCUMENTS AND GEOTECHNICAL REPORTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ITEMS THAT SHOULD HAVE BEEN ANTICIPATED BY PERFORMING THE ABOVE.
4. THE CONSTRUCTION ENTRANCE INDICATED ON THE PLAN IS SHOWN IN AN APPROXIMATE LOCATION. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO COORDINATE WITH THE CITY OF SHAKOPEE FOR THE EXACT CONSTRUCTION ENTRANCE LOCATION.

1 SELECTIVE SITE DEMOLITION AND EROSION CONTROL PLAN  
C100 1" = 30'



SPU: watermain plans need to have SPU signature block (see SPU detail WAT-16)

SPU: These connections will need to be cut in tees and sleeve versus wet tap. Both service and fire line will need to be ductile iron pipe class 52 with V-Bio enhanced wrap. You can use 3", but that is typically special order and expensive. Would recommend 4" DIP for the domestic.

SPU: Separate, 10 foot wide electric utility easement is required for any SPU owned electric that is currently or will be constructed in the future outside of the proposed DIU easement.

Said easement shall be provided to SPU with certified drawings and descriptions for recording prior to building project completion.

New underground electric shall be constructed from the SE corner, in the East DIU, in the North DIU, and shall terminate at the existing underground electric on the NW corner.

label as Private storm

Insulation required if sewer is shallower than 7.5 ft. (City detail 2007)  
Contractor to obtain a sewer/water permit through the City prior to connection to trunk

SPU: These connections will need to be cut in tees and sleeve versus wet tap. Both service and fire line will need to be ductile iron pipe class 52 with V-Bio enhanced wrap. You can use 3", but that is typically special order and expensive. Would recommend 4" DIP for the domestic.

Recommend installing cleanouts or manholes at all bends for maintenance

| PROPOSED PLAN SYMBOLS | ABBREVIATIONS                  |
|-----------------------|--------------------------------|
| CONSTRUCTION LIMITS   | BDG Building                   |
| PROPERTY LINE         | BM Benchmark                   |
| SAWCUT LINE (APPROX.) | CB Catch Basin                 |
| SANITARY SEWER        | CONC Concrete                  |
| WATER PIPE            | DIP Ductile Iron Pipe          |
| STORM SEWER           | ELEV Elevation                 |
| RETAINING WALL        | EX Existing                    |
| GATE VALVE            | FFE Finished Floor Elevation   |
| CATCH BASIN           | HDPE High Density Polyethylene |
| MANHOLE               | INV Invert                     |
|                       | MAX Maximum                    |
|                       | MH Manhole                     |
|                       | MIN Minimum                    |
|                       | PIV Post Indicator Valve       |
|                       | PVC Polyvinyl Chloride         |
|                       | RCP Reinforced Concrete Pipe   |
|                       | RD Roof Drain                  |

\*NOTE: CONSTRUCTION LIMITS ARE ANTICIPATED TO BE PROPERTY LINE UNLESS OTHERWISE SHOWN.

NOTE: REFER TO C301 FOR STORM SEWER TABLES.

UTILITY NOTES FOR WORK IN PUBLIC RIGHT-OF-WAY:

- FOLLOW ALL CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
- PRIOR TO CONSTRUCTION, CONTRACTORS ARE TO COORDINATE ALL WORK WITHIN RIGHT-OF-WAY AND OBTAIN ALL APPLICABLE PERMITS.

KEYED NOTES

KEYED NOTES ARE DENOTED BY [KEY] ON PLAN.

- LOCATION OF PROPOSED SANITARY SEWER SERVICE. REFER TO SANITARY SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. **COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.**
- STUB 6-INCH FIRE PROTECTION LINE TO WITHIN 5-FOOT OF THE PROPOSED BUILDING. TOP OF WATER SERVICE SHALL BE 7.5 FEET BELOW FINISHED GRADE AT THE PROPOSED CONNECTION POINT. **COORDINATE EXACT LOCATION WITH MECHANICAL AND STRUCTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.**
- STUB 3-INCH DOMESTIC WATERLINE TO WITHIN 5-FOOT OF THE PROPOSED BUILDING. TOP OF WATER SERVICE SHALL BE 7.5 FEET BELOW FINISHED GRADE AT THE PROPOSED CONNECTION POINT. **COORDINATE EXACT LOCATION WITH MECHANICAL AND STRUCTURAL PLANS PRIOR TO THE START OF CONSTRUCTION.**
- INSTALL 6-INCH **WET TAP**. REFER TO DETAIL 7/C500.
- INSTALL 3-INCH **WET TAP**. REFER TO DETAIL 7/C500.
- CONTRACTOR SHALL INSTALL MANHOLE IN LINE WITH EXISTING 12-INCH RCP PIPE. APPROXIMATE INVERT OF EXISTING PIPE IS 778.30. PRIOR TO INSTALLATION OF MANHOLE, CONTRACTOR SHALL CONTACT CIVIL ENGINEER WITH EXACT INVERT ELEVATION.
- CONTRACTOR SHALL CONNECT TO EXISTING 48-INCH RCP PIPE WITH 12-INCH SADDLE TEE. REFER TO STORM SEWER TABLE FOR PROPOSED PIPE INVERT. APPROXIMATE INVERT OF EXISTING PIPE IS 780.36. PRIOR TO INSTALLATION OF TEE, CONTRACTOR SHALL CONTACT CIVIL ENGINEER WITH EXACT INVERT ELEVATION.
- INSTALL INFILTRATION SYSTEM PER DETAIL 8/C501. INFILTRATION SYSTEM SHALL HAVE AN INFILTRATION VOLUME OF 8,872 CUBIC FEET, A TOTAL VOLUME OF 20,326 CUBIC FEET, AND MEET THE RATE CONTROL REQUIREMENTS INDICATED ON SHEET C500. SYSTEM FOOTPRINT IS BASED ON CMP PIPE DESIGN. ANY ALTERNATE DESIGNS MUST BE APPROVED BY CIVIL ENGINEER PRIOR TO CONSTRUCTION.
- INSTALL SUMP CATCH BASIN WITH SNOUT, ENVIROHOOD, OR APPROVED EQUAL. REFER TO DETAIL 7/C501.
- INSTALL ACCESS RISER PER MANUFACTURER'S SPECIFICATIONS.
- LOCATION OF PROPOSED ROOF DRAIN LEAD. REFER TO STORM SEWER TABLE FOR INVERT ELEVATIONS AND PIPE SIZES. REFER TO DETAIL 12/C501. **COORDINATE EXACT LOCATION AND INVERT ELEVATION WITH MECHANICAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.**
- INSTALL TRENCH DRAIN. REFER TO DETAIL 13/C501.
- CORE DRILL EXISTING MANHOLE FOR PROPOSED PIPE CONNECTION. PROVIDE WATERTIGHT SEAL WITH FLEXIBLE COMPRESSION JOINT. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.

UTILITY NOTES:

- CONTRACTOR SHALL FOLLOW ALL CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
- COORDINATE SERVICE CONNECTION LOCATIONS AT THE BUILDING WITH THE MECHANICAL CONTRACTOR PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UNCOORDINATED WORK.
- COORDINATE UTILITY INSTALLATION WITH STRUCTURAL PRIOR TO START OF CONSTRUCTION. UTILITIES SHALL NOT BE INSTALLED WITHIN THE ZONE OF INFLUENCE OF ANY STRUCTURAL ELEMENT. **NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR UNCOORDINATED WORK.**
- ALL SEWER SERVICE CONNECTIONS WITH LESS THAN 5 FEET OF COVER OVER THE TOP OF PIPE SHALL BE INSULATED. INSULATION SHALL BE INSTALLED FROM THE CONNECTION OF THE SERVICE AT THE BUILDING TO THE POINT WHICH THE SERVICE ATTAINS 5 FEET OF COVER. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM ARCHITECT OR ENGINEER PRIOR TO INSTALLATION OF INSULATION.
- PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED TO BE REMOVED.**
- ALL SEWER AND WATER CROSSINGS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 1.5 FEET AND HORIZONTAL SEPARATION OF 10 FEET. FOLLOW ALL HEALTH DEPARTMENT AND CITY OF SHAKOPEE STANDARDS.
- ALL WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 52, **UNLESS NOTED OTHERWISE.**
- ALL WATER MAIN SHALL HAVE A MINIMUM DEPTH OF COVER OF 7.5 FEET OVER TOP OF WATER MAIN.
- PROVIDE THRUST BLOCKING ON ALL WATER MAIN PER CITY OF SHAKOPEE. PROVIDE MECHANICAL JOINT RESTRAINTS ON ALL BENDS, VALVES, TEES, PLUGS, AND HYDRANT LEADS.
- SANITARY SEWER PIPING SHALL BE SDR 35 PVC UNLESS NOTED OTHERWISE.
- STORM SEWER PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP), UNLESS NOTED OTHERWISE. ALL 12-INCH THROUGH 18-INCH RCP STORM SEWER PIPE SHALL BE CLASS 5. RCP PIPE LARGER THAN 18-INCH SHALL BE CLASS 3 UNLESS NOTED OTHERWISE. ALL STORM SEWER PIPE THAT IS EXTENDED TO THE BUILDING FOR ROOF DRAIN SERVICES SHALL BE ASTM D1785 OR ASTM D2665 SCHEDULE 40 PVC.
- CONTRACTORS SHALL COORDINATE ALL WORK WITH GAS, ELECTRIC, TELEVISION, AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
- ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10-FOET OF THE BUILDING OR WATER SERVICE LINE SHALL BE TESTED IN ACCORDANCE WITH MN PLUMBING CODE. PIPING MATERIAL SHALL BE SCHEDULE 40 PVC.
- ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GAS TIGHT OR WATER TIGHT IN ACCORDANCE TO MN PLUMBING CODE. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATER TIGHT CONNECTIONS TO MANHOLES, CATCH BASINS, AND OTHER STRUCTURES. RESILIENT WATER-STOP GROUTING RINGS ARE AN ACCEPTABLE ALTERNATIVE. CEMENT MORTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.

SPU: 6" DIP and 6" gate valve.. no wet tap.

SPU: 4" DIP and 4" gate valve.. no wet tap.

SPU: and watermain install per SPU Water Policy Manual

Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

SPU: with V-Bio Enhanced Wrap

SPU: per SPU details/water policy manual

SPU: Owner will need to pay Water Capacity Charge Fee, sign Terms & Conditions for water & electric service, underground distribution agreement for electric and establish service account with SPU.

SCOTT COUNTY CDA OFFICE  
& SENIOR HOUSING  
5th Ave East & Holmes St. South  
Shakopee, MN 55379

URBANWORKS

CONSULTANT

**BKBM**  
ENGINEERS  
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BKM 020 No. 24167-50

PRELIMINARY  
NOT FOR CONSTRUCTION

LAND USE APPLICATION  
03.28.2024

REVISIONS

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 Professional Engineer under the laws of the state of Minnesota.

|            |                |
|------------|----------------|
| SIGNED     | KEITH A. MATTE |
| DATE       | 03.28.2024     |
| LICENSE #  | 46674          |
| DATE       | 03.28.2024     |
| PROJECT #  | 24167.5        |
| PHASE      | SD             |
| DRAWN BY   | WH             |
| CHECKED BY | STD            |

UTILITY PLAN

C300

Install storm manhole  
per City detail

| STORM SEWER TABLE |                              |                     |               |                                         |                                                                                |  |
|-------------------|------------------------------|---------------------|---------------|-----------------------------------------|--------------------------------------------------------------------------------|--|
| STRUCTURE ID      | STRUCTURE DIMENSION (INCHES) | NEENAH CASTING TYPE | RIM ELEVATION | INVERT ELEVATION(S)                     | PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE                         |  |
| STRM #100         | ADDLE TEE                    | NA                  |               | E = 780.36                              | 80 L.F. OF 12" RCP @ 4.11%, STRM #101                                          |  |
| STRM #101         | 48" MH                       | R-1733              | 791.28        | W = 783.65<br>E = 783.71<br>S = 783.71  | 9 L.F. OF 12" RCP @ 1.00%, STRM #102                                           |  |
| STRM #102         | UNDERGROUND TANK CONNECTION  | NA                  |               | N = 783.80                              | -----                                                                          |  |
| STRM #200         | UNDERGROUND TANK CONNECTION  | NA                  |               | W = 783.80                              | 27 L.F. OF 18" RCP @ 0.40%, STRM #201                                          |  |
| STRM #201         | 48" CB MH                    | R-3067              | 789.54        | E = 783.91<br>E = 783.91<br>S = 783.91  | 24 L.F. OF 15" RCP @ 0.40%, STRM #202                                          |  |
| STRM #202         | 48" CB MH                    | R-3067              | 789.87        | N = 784.01<br>S = 785.30                | 132 L.F. OF 12" PVC @ 0.50%, STRM #203                                         |  |
| STRM #203         | 12-INCH PVC 45 DEGREE BEND   | NA                  |               | N = 785.97<br>SE = 785.97               | 9 L.F. OF 12" PVC @ 0.50%, STRM #204                                           |  |
| STRM #204         | 12-INCH PVC 45-DEGREE BEND   | NA                  |               | NW = 786.01<br>E = 786.01               | 14 L.F. OF 12" PVC @ 0.50%, STRM #205                                          |  |
| STRM #205         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.08<br>E = 786.08<br>NE = 786.25 | 33 L.F. OF 12" PVC @ 0.50%, STRM #206<br>13 L.F. OF 8" PVC @ 0.50%, STRM #205A |  |
| STRM #205A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.31                             | -----                                                                          |  |
| STRM #206         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.25<br>E = 786.25<br>NE = 786.42 | 16 L.F. OF 12" PVC @ 0.50%, STRM #207<br>12 L.F. OF 8" PVC @ 0.50%, STRM #206A |  |
| STRM #206A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.48                             | -----                                                                          |  |
| STRM #207         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.32<br>E = 786.32<br>NE = 786.49 | 20 L.F. OF 12" PVC @ 0.50%, STRM #208<br>13 L.F. OF 8" PVC @ 0.50%, STRM #207A |  |
| STRM #207A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.55                             | -----                                                                          |  |
| STRM #208         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.43<br>E = 786.43<br>NE = 786.60 | 17 L.F. OF 12" PVC @ 0.50%, STRM #209<br>12 L.F. OF 8" PVC @ 0.50%, STRM #208A |  |
| STRM #208A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.66                             | -----                                                                          |  |
| STRM #209         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.51<br>E = 786.51<br>NE = 786.68 | 22 L.F. OF 12" PVC @ 0.50%, STRM #210<br>13 L.F. OF 8" PVC @ 0.50%, STRM #209A |  |
| STRM #209A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.74                             | -----                                                                          |  |
| STRM #210         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.62<br>E = 786.62<br>NE = 786.79 | 16 L.F. OF 12" PVC @ 0.50%, STRM #211<br>11 L.F. OF 8" PVC @ 0.50%, STRM #210A |  |
| STRM #210A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.85                             | -----                                                                          |  |

| STORM SEWER TABLE |                              |                     |               |                                         |                                                                                |  |
|-------------------|------------------------------|---------------------|---------------|-----------------------------------------|--------------------------------------------------------------------------------|--|
| STRUCTURE ID      | STRUCTURE DIMENSION (INCHES) | NEENAH CASTING TYPE | RIM ELEVATION | INVERT ELEVATION(S)                     | PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE                         |  |
| STRM #503A        | ROOF DRAIN CONNECTION        | NA                  |               | NW = 786.80                             | -----                                                                          |  |
| STRM #504         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | E = 785.98<br>W = 785.98<br>SW = 786.16 | 19 L.F. OF 12" PVC @ 1.00%, STRM #505<br>12 L.F. OF 8" PVC @ 1.00%, STRM #504A |  |
| STRM #504A        | ROOF DRAIN CONNECTION        | NA                  |               | NE = 786.28                             | -----                                                                          |  |
| STRM #505         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | E = 786.17<br>W = 786.17<br>SW = 786.34 | 11 L.F. OF 12" PVC @ 1.00%, STRM #506<br>12 L.F. OF 8" PVC @ 1.00%, STRM #505A |  |
| STRM #505A        | ROOF DRAIN CONNECTION        | NA                  |               | NE = 786.46                             | -----                                                                          |  |
| STRM #506         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | E = 786.28<br>W = 786.28<br>SW = 786.45 | 18 L.F. OF 12" PVC @ 1.00%, STRM #507<br>12 L.F. OF 8" PVC @ 1.00%, STRM #506A |  |
| STRM #506A        | ROOF DRAIN CONNECTION        | NA                  |               | NE = 786.57                             | -----                                                                          |  |
| STRM #507         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | E = 786.46<br>W = 786.46<br>SW = 786.63 | 20 L.F. OF 12" PVC @ 1.00%, STRM #508<br>13 L.F. OF 8" PVC @ 1.00%, STRM #507A |  |
| STRM #507A        | ROOF DRAIN CONNECTION        | NA                  |               | NE = 786.76                             | -----                                                                          |  |
| STRM #508         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | E = 786.66<br>W = 786.66<br>SW = 786.83 | 23 L.F. OF 12" PVC @ 1.00%, STRM #509<br>12 L.F. OF 8" PVC @ 1.00%, STRM #508A |  |
| STRM #508A        | SERVICE/TANK CONNECTION      | NA                  |               | NE = 786.95                             | -----                                                                          |  |
| STRM #509         | 12-INCH PVC 45 DEGREE BEND   | NA                  |               | E = 786.89<br>W = 786.89                | 11 L.F. OF 12" PVC @ 1.00%, STRM #510                                          |  |
| STRM #510         | ROOF DRAIN CONNECTION        | NA                  |               | NE = 787.00                             | -----                                                                          |  |

| STORM SEWER TABLE |                              |                     |               |                                         |                                                                                |  |
|-------------------|------------------------------|---------------------|---------------|-----------------------------------------|--------------------------------------------------------------------------------|--|
| STRUCTURE ID      | STRUCTURE DIMENSION (INCHES) | NEENAH CASTING TYPE | RIM ELEVATION | INVERT ELEVATION(S)                     | PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE                         |  |
| STRM #211         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.70<br>E = 786.70<br>NE = 786.87 | 21 L.F. OF 12" PVC @ 0.50%, STRM #212<br>12 L.F. OF 8" PVC @ 0.50%, STRM #211A |  |
| STRM #211A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 786.93                             | -----                                                                          |  |
| STRM #212         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 786.80<br>E = 786.80<br>NE = 786.97 | 51 L.F. OF 12" PVC @ 0.50%, STRM #213<br>11 L.F. OF 8" PVC @ 0.50%, STRM #212A |  |
| STRM #212A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 787.03                             | -----                                                                          |  |
| STRM #213         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 787.06<br>E = 787.06<br>NE = 787.23 | 27 L.F. OF 12" PVC @ 0.50%, STRM #214<br>12 L.F. OF 8" PVC @ 0.50%, STRM #213A |  |
| STRM #213A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 787.29                             | -----                                                                          |  |
| STRM #214         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | W = 787.19<br>E = 787.19<br>NE = 787.36 | 20 L.F. OF 12" PVC @ 0.50%, STRM #215<br>12 L.F. OF 8" PVC @ 0.50%, STRM #214A |  |
| STRM #214A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 787.42                             | -----                                                                          |  |
| STRM #215         | 12-INCH PVC 45 DEGREE BEND   | NA                  |               | W = 787.29<br>NE = 787.29               | 20 L.F. OF 12" PVC @ 0.50%, STRM #216                                          |  |
| STRM #216         | 12-INCH PVC 45 DEGREE BEND   | NA                  |               | SW = 787.39<br>N = 787.39               | 37 L.F. OF 12" PVC @ 0.50%, STRM #217                                          |  |
| STRM #217         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | S = 787.58<br>N = 787.58<br>NW = 787.75 | 19 L.F. OF 12" PVC @ 0.50%, STRM #218<br>9 L.F. OF 8" PVC @ 0.50%, STRM #217A  |  |
| STRM #217A        | ROOF DRAIN CONNECTION        | NA                  |               | SE = 787.80                             | -----                                                                          |  |
| STRM #218         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | S = 787.67<br>N = 787.67<br>NW = 787.84 | 32 L.F. OF 12" PVC @ 0.50%, STRM #219<br>10 L.F. OF 8" PVC @ 0.50%, STRM #218A |  |
| STRM #218A        | ROOF DRAIN CONNECTION        | NA                  |               | SE = 787.89                             | -----                                                                          |  |
| STRM #219         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | S = 787.83<br>N = 787.83<br>NW = 788.00 | 20 L.F. OF 12" PVC @ 0.50%, STRM #220<br>12 L.F. OF 8" PVC @ 0.50%, STRM #219A |  |
| STRM #219A        | ROOF DRAIN CONNECTION        | NA                  |               | SE = 788.06                             | -----                                                                          |  |
| STRM #220         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | S = 787.93<br>N = 787.93<br>NW = 788.10 | 33 L.F. OF 12" PVC @ 0.50%, STRM #221<br>12 L.F. OF 8" PVC @ 0.50%, STRM #220A |  |
| STRM #220A        | ROOF DRAIN CONNECTION        | NA                  |               | SE = 788.16                             | -----                                                                          |  |
| STRM #221         | 8-INCH X 12-INCH PVC WYE     | NA                  |               | S = 788.10<br>N = 788.10<br>NW = 788.27 | 20 L.F. OF 12" PVC @ 0.50%, STRM #222<br>13 L.F. OF 8" PVC @ 0.50%, STRM #221A |  |
| STRM #221A        | ROOF DRAIN CONNECTION        | NA                  |               | SE = 788.33                             | -----                                                                          |  |

| STORM SEWER TABLE |                              |                     |               |                                                       |                                                                                                                        |  |
|-------------------|------------------------------|---------------------|---------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| STRUCTURE ID      | STRUCTURE DIMENSION (INCHES) | NEENAH CASTING TYPE | RIM ELEVATION | INVERT ELEVATION(S)                                   | PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE                                                                 |  |
| STRM #222         | 12-INCH PVC 45 DEGREE BEND   | NA                  |               | S = 788.19<br>NW = 788.19                             | 13 L.F. OF 12" PVC @ 0.50%, STRM #223                                                                                  |  |
| STRM #223         | ROOF DRAIN CONNECTION        | NA                  |               | SE = 788.26                                           | -----                                                                                                                  |  |
| STRM #300         | UNDERGROUND TANK CONNECTION  | NA                  |               | N = 784.00                                            | 19 L.F. OF 12" RCP @ 1.00%, STRM #301                                                                                  |  |
| STRM #301         | 48" CB MH                    | R-3067              | 790.69        | S = 784.19<br>E = 784.19                              | 24 L.F. OF 12" RCP @ 1.00%, STRM #302                                                                                  |  |
| STRM #302         | 48" CB MH                    | R-3067              | 790.60        | W = 784.43<br>E = 784.43                              | 72 L.F. OF 12" RCP @ 1.00%, STRM #303                                                                                  |  |
| STRM #303         | 48" CB MH                    | R-3067              | 790.92        | W = 785.15<br>NE = 785.40<br>S = 785.40<br>E = 785.40 | 20 L.F. OF 8" PVC @ 1.00%, STRM #303A<br>34 L.F. OF 8" PVC @ 1.00%, STRM #304<br>18 L.F. OF 8" PVC @ 1.00%, STRM #303B |  |
| STRM #303A        | ROOF DRAIN CONNECTION        | NA                  |               | SW = 785.60                                           | -----                                                                                                                  |  |
| STRM #303B        | ROOF DRAIN CONNECTION        | NA                  |               | W = 785.58                                            | -----                                                                                                                  |  |
| STRM #304         | 8-INCH X 8-INCH PVC WYE      | NA                  |               | N = 785.74<br>S = 785.74<br>SE = 785.74               | 19 L.F. OF 8" PVC @ 1.00%, STRM #305<br>23 L.F. OF 8" PVC @ 1.00%, STRM #304A                                          |  |
| STRM #304A        | ROOF DRAIN CONNECTION        | NA                  |               | NW = 785.97                                           | -----                                                                                                                  |  |
| STRM #305         | 8-INCH PVC 45-DEGREE BEND    | NA                  |               | N = 785.93<br>SE = 785.93                             | 24 L.F. OF 8" PVC @ 1.00%, STRM #305A                                                                                  |  |
| STRM #305A        | ROOF DRAIN CONNECTION        | NA                  |               | NW = 786.17                                           | -----                                                                                                                  |  |
| STRM #400         | UNDERGROUND TANK CONNECTION  | NA                  |               | S = 783.60                                            | 64 L.F. OF 10" PVC @ 0.98%, STRM #401                                                                                  |  |
| STRM #401         | TRENCH DRAIN CONNECTION      | NA                  |               | N = 784.23                                            | -----                                                                                                                  |  |
| STRM #500         | UNDERGROUND TANK CONNECTION  | NA                  |               | S = 785.38                                            | 49 L.F. OF 12" PVC @ 1.00%, STRM #501                                                                                  |  |
| STRM #501         | 48" MH                       | R-1733              | 795.64        | N = 785.87<br>E = 786.30<br>S = 786.30<br>W = 785.87  | 16 L.F. OF 8" PVC @ 1.00%, STRM #502<br>9 L.F. OF 8" PVC @ 1.00%, STRM #501A<br>11 L.F. OF 12" PVC @ 1.00%, STRM #504  |  |
| STRM #501A        | ROOF DRAIN CONNECTION        | NA                  |               | N = 786.39                                            | -----                                                                                                                  |  |
| STRM #502         | 8-INCH X 8-INCH PVC WYE      | NA                  |               | W = 786.46<br>E = 786.46<br>SE = 786.46               | 22 L.F. OF 8" PVC @ 1.00%, STRM #503<br>15 L.F. OF 8" PVC @ 50.20%, STRM #502A                                         |  |
| STRM #502A        | ROOF DRAIN CONNECTION        | NA                  |               | NW = 793.26                                           | -----                                                                                                                  |  |
| STRM #503         | 8-INCH PVC 45 DEGREE BEND    | NA                  |               | W = 786.68<br>SE = 786.68                             | 12 L.F. OF 8" PVC @ 1.00%, STRM #503A                                                                                  |  |

| SANITARY SEWER TABLE |                              |                     |               |                                        |                                                        |  |
|----------------------|------------------------------|---------------------|---------------|----------------------------------------|--------------------------------------------------------|--|
| STRUCTURE ID         | STRUCTURE DIMENSION (INCHES) | NEENAH CASTING TYPE | RIM ELEVATION | INVERT ELEVATION(S)                    | PIPE LENGTH, DIAMETER, SLOPE & NEXT UPSTREAM STRUCTURE |  |
| SSWR #100            | EX. MH                       | EX                  | 792.23        | W = 779.30<br>S = 780.00               | 53 L.F. OF 8" PVC @ 2.28%, SSWR #101                   |  |
| SSWR #101            | SERVICE CONNECTION           | NA                  |               | N = 781.20                             | ----- ?                                                |  |
| SSWR #200            | 48" MH                       | R-1733              | 779.79        | N = 778.30<br>S = 778.30<br>E = 778.60 | 47 L.F. OF 8" PVC @ 2.10%, SSWR #201                   |  |
| SSWR #201            | SERVICE CONNECTION           | NA                  |               | W = 779.59                             | ----- ?                                                |  |

URBANWORKS

CONSULTANT

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ENGINEERS  
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BKBM JDB No. 24167-50

PRELIMINARY  
NOT FOR  
CONSTRUCTION

LAND USE APPLICATION  
03.28.2024

REVISIONS

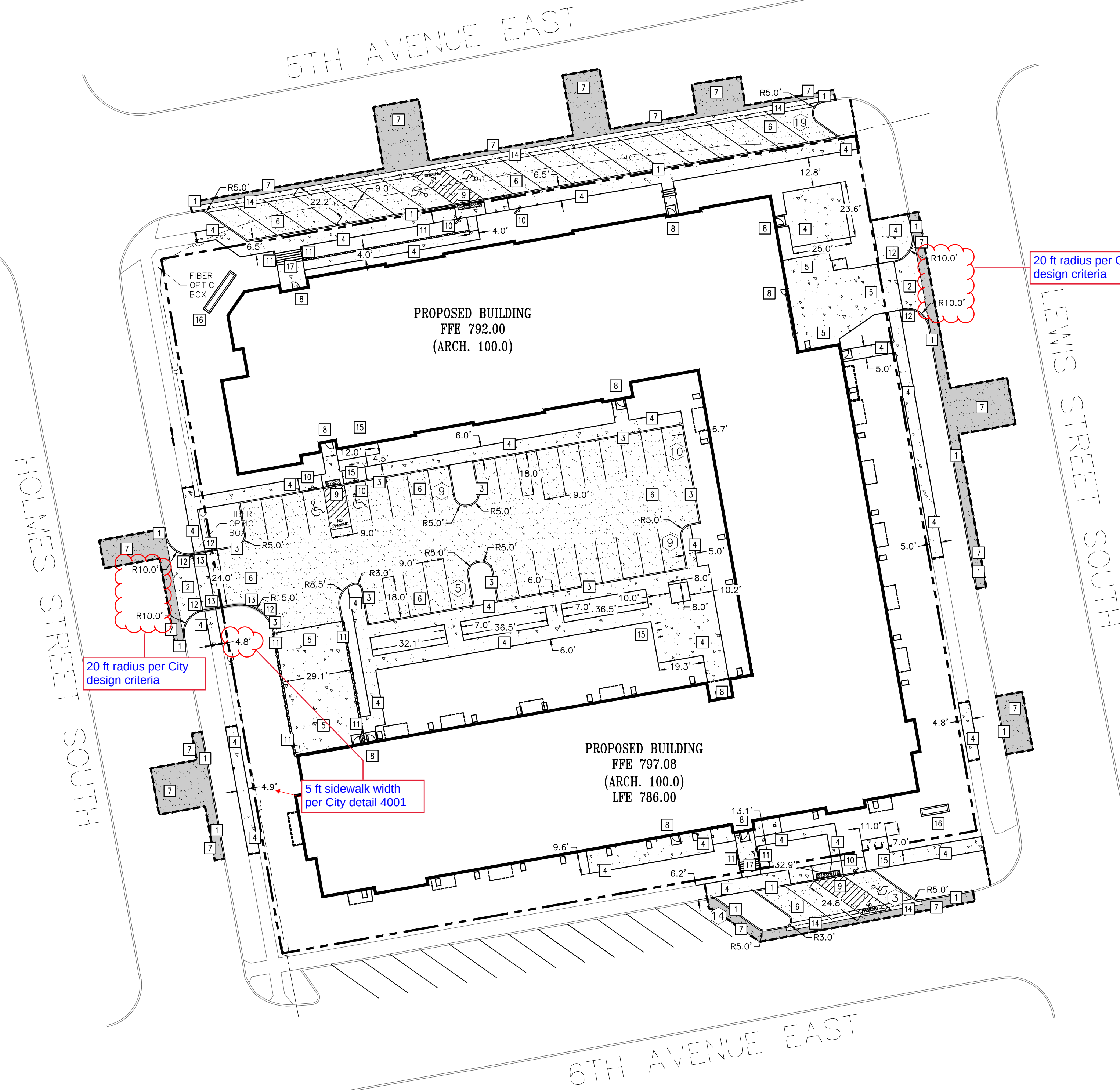
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

SIGNED KEITH A. MATTE  
DATE 03.28.2024  
LICENSE # 46674  
PROJECT # 24167.5  
DATE 03.28.2024  
PHASE SD  
DRAWN BY WH  
CHECKED BY STD

STORM SEWER  
TABLES

C301

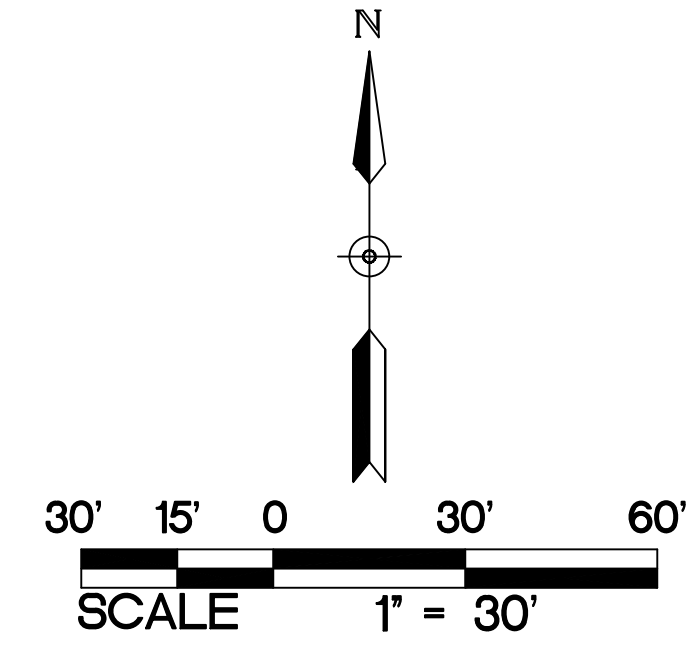
**CDA**  
SCOTT COUNTY  
SCOTT COUNTY CDA OFFICE  
& SENIOR HOUSING  
5th Ave East & Holmes St. South  
Shiloh, MN 55379



| PROPOSED PLAN SYMBOLS          |          |
|--------------------------------|----------|
| CONSTRUCTION LIMITS            | ---      |
| PROPERTY LINE                  | ---      |
| SAWCUT LINE (APPROX.)          | ---      |
| LIGHT DUTY BITUMINOUS PAVEMENT | [Symbol] |
| HEAVY DUTY BITUMINOUS PAVEMENT | [Symbol] |
| CONCRETE PAVEMENT/SIDEWALK     | [Symbol] |
| FLAT CURB AND GUTTER           | [Symbol] |
| PEDESTRIAN CURB RAMP           | [Symbol] |
| ACCESSIBLE PARKING SYMBOL      | [Symbol] |
| SIGN                           | [Symbol] |
| PARKING STALL COUNT            | [Symbol] |

| ABBREVIATIONS |                                                     |
|---------------|-----------------------------------------------------|
| BDG           | Building                                            |
| BM            | Benchmark                                           |
| CONC          | Concrete                                            |
| ELEV          | Elevation                                           |
| EX            | Existing                                            |
| FFE           | Finished Floor Elevation                            |
| LFE           | Lower Floor Elevation                               |
| MAX           | Maximum                                             |
| MIN           | Minimum                                             |
| R             | Radius                                              |
| TYP.          | Typical                                             |
| MN MUTCD      | Minnesota Manual on Uniform Traffic Control Devices |

\*NOTE: CONSTRUCTION LIMITS ARE ANTICIPATED TO BE PROPERTY LINE UNLESS OTHERWISE SHOWN.



- KEYED NOTES ARE DENOTED BY [NO] ON PLAN.
1. INSTALL B618 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C501.
  2. INSTALL CONCRETE DRIVE ENTRANCE. REFER TO DETAIL 1/C501.
  3. INSTALL B612 CONCRETE CURB AND GUTTER. REFER TO DETAIL 3/C501.
  4. INSTALL CONCRETE WALK. REFER TO DETAIL 2/C501.
  5. INSTALL CONCRETE PAVEMENT. REFER TO DETAIL 6/C501.
  6. INSTALL LIGHT-DUTY BITUMINOUS PAVEMENT. REFER TO DETAIL 4/C501.
  7. INSTALL HEAVY-DUTY BITUMINOUS PAVEMENT. INTENT IS TO MATCH EXISTING STREET PAVEMENT SECTION. FOR BIDDING PURPOSES, REFER TO DETAIL 5/C501.
  8. STOOP. REFER TO STRUCTURAL PLANS AND DETAILS.
  9. INSTALL PEDESTRIAN CURB RAMP. REFER TO DETAIL 9/C501 FOR TRUNCATED DOMES. REFER TO MN/DOT STANDARD PLAN 5-297.250 AND MN/DOT STANDARD PLATE 7038.
  10. INSTALL ACCESSIBLE PARKING SIGN. REFER TO DETAIL 10/C501.
  11. INSTALL RETAINING WALL. REFER TO RETAINING WALL NOTES ON C200.
  12. INSTALL NOSE DOWN CURB SECTION. REFER TO DETAIL 14/C501.
  13. INSTALL FLAT CURB. REFER TO DETAIL 15/C501.
  14. INSTALL CONCRETE VALLEY GUTTER. REFER TO DETAIL 11/C501.
  15. INSTALL BIKE RACK. REFER TO LANDSCAPING PLANS AND DETAILS.
  16. INSTALL MONUMENT SIGN. REFER TO LANDSCAPING PLANS AND DETAILS.
  17. INSTALL CONCRETE STAIRS. REFER TO DETAIL 2/C400.

- PAVING NOTES:
1. CONTRACTOR SHALL FOLLOW ALL CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS.
  2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
  3. ALL CURB AND GUTTER IS TO BE B612 CONCRETE CURB AND GUTTER UNLESS NOTED OTHERWISE.
  4. NO SIDEWALK IS TO HAVE MORE THAN A 2% CROSS SLOPE OR MORE THAN A 5% LONGITUDINAL SLOPE.
  5. CROSS SLOPE TO ADJACENT PAVED AREAS SHALL BE 1.5%.
  6. FOLLOW ALL CITY OF SHAKOPEE RULES, REGULATIONS, AND SPECIFICATIONS WHEN WORKING IN PUBLIC RIGHT OF WAY.
  7. STRIPE PARKING LOT AS SHOWN. ALL PARKING STALLS ARE TO BE 9 FEET WIDE BY 18 FEET LONG, UNLESS NOTED OTHERWISE.
  8. ACCESSIBLE AISLES SHALL BE STRIPED PER MN CODE (SECTION 802), WHERE "NO PARKING" SIGNAGE WOULD OBSTRUCT A CURB RAMP OR ACCESSIBLE ROUTE, "NO PARKING" SHALL BE PRINTED ON THE SURFACE OF THE ACCESS AISLE.
  9. THE CONTRACTOR IS TO CONTACT THE CITY OF SHAKOPEE FIRE MARSHALL FOR THE EXACT PLACEMENT OF FIRE LANES, YELLOW-PAINTED CURBING, AND NO PARKING AREAS FOR FIRE PROTECTION PURPOSES.
  10. REFER TO STRUCTURAL PLANS FOR STOOP DETAILS. ALL WALKS ARE TO BE CENTERED ON THE DOORS.
  11. INSTALL APPROPRIATE EXPANSION MATERIAL WHERE CONCRETE IS ADJACENT TO BUILDING FACE.
  12. ALL EXPANSION AND ISOLATION JOINTS SHALL BE SEALED PER SPECIFICATIONS.
  13. MATCH NEW PAVEMENT, CURB AND GUTTER, AND SIDEWALK INTO EXISTING. NO ABRUPT GRADE TRANSITIONS OR PONDING OF WATER WILL BE ALLOWED.
  14. SAWCUT EXISTING PAVEMENT, SIDEWALK, AND CURB AND GUTTER TO NEAREST JOINT. COORDINATE REMOVAL LIMITS WITH SITE DEMOLITION CONTRACTOR AND CONSTRUCTION MANAGER.
  15. INSTALL DRIVE ENTRANCE PER CITY OF SHAKOPEE STANDARDS AND SPECIFICATIONS. FOLLOW ALL CITY OF SHAKOPEE REQUIREMENTS FOR TRAFFIC CONTROL.
  16. REFER TO SPECIFICATIONS FOR GRADE VERIFICATION SURVEY REQUIREMENTS PRIOR TO PLACEMENT OF SUB-BASE MATERIAL, BASE MATERIAL, AND PAVEMENTS/SIDEWALKS.

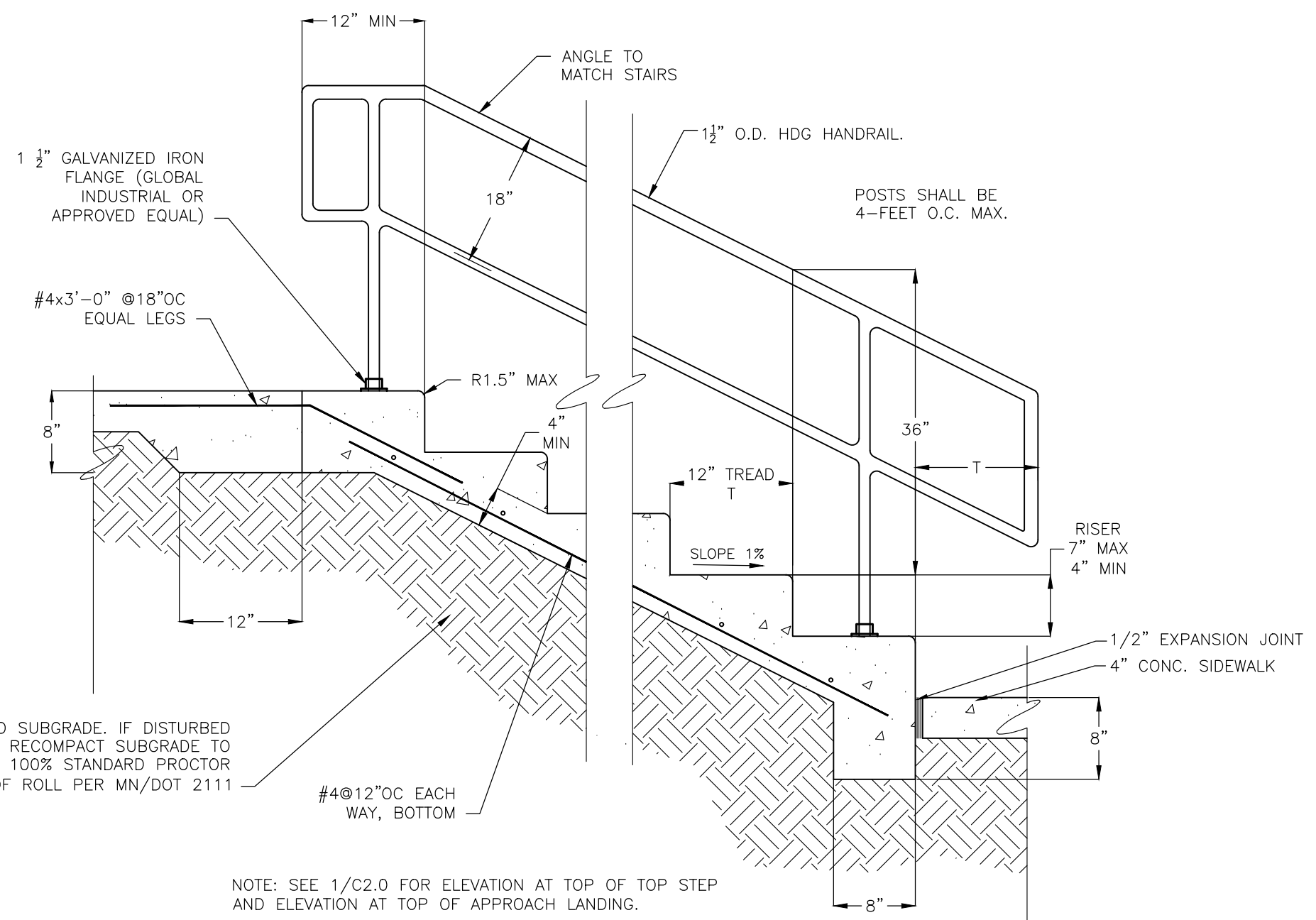
Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

Cross slope should be 1.5% per City Detail 4001

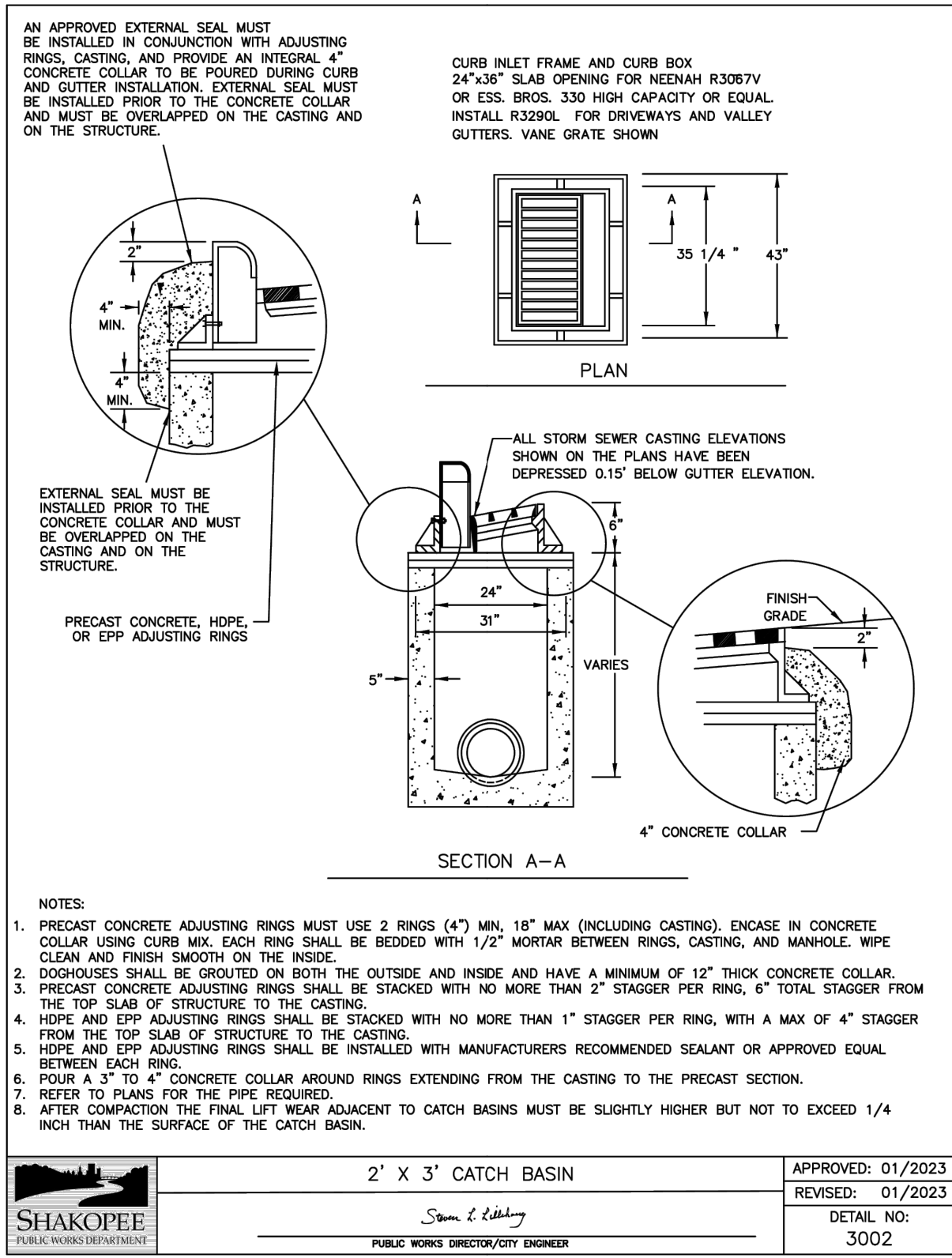
Contractor to obtain a right-of-way permit from City prior to working within City ROW

1 PAVING AND GEOMETRIC PLAN  
C400 1" = 30'

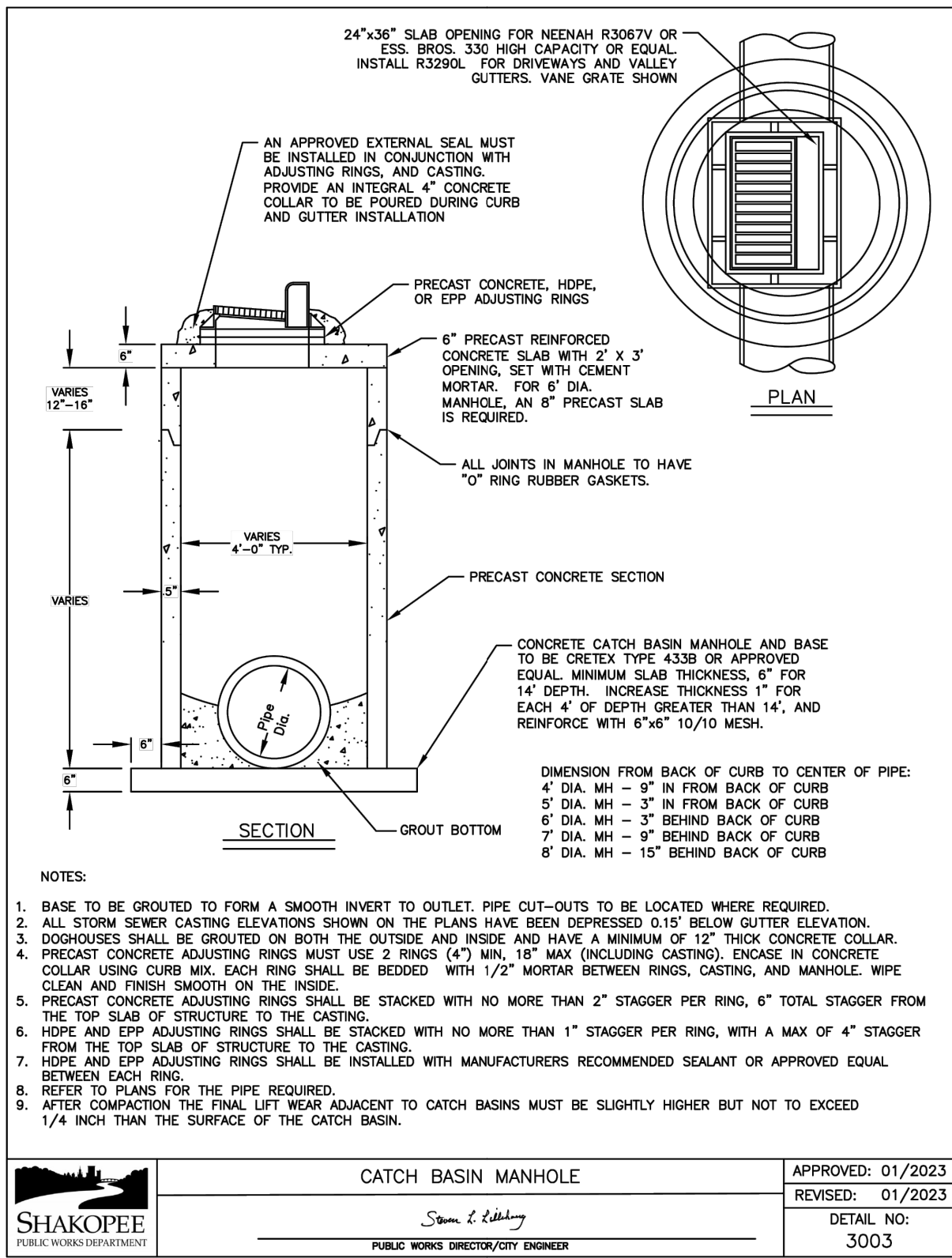
- NOTES:
1. ALL REBAR TO BE COVERED BY 2" CONCRETE.
  2. ALL REBAR TO BE EPOXY COATED.
  3. CONCRETE SURFACING TO BE MEDIUM BROOM FINISH PERPENDICULAR TO PEDESTRIAN CIRCULATION.
  4. HANDRAIL AND POSTS TO BE 1-1/2" O.D. SCHEDULE 40 HOT DIPRED GALVANIZED STEEL PIPE.
  5. SUBMIT SHOP DRAWING FOR HANDRAILS.
  6. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH.
  7. PAINT HANDRAIL WITH ONE COAT OF PRIMER AND TWO FINISH COATS-BLACK IN COLOR. PAINT THICKNESS SHALL BE 6 MILS.
  8. SET RAILING POSTS 6" FROM OUTSIDE EDGE OF STAIRS-BOTH SIDES.
  9. 36" RAILING HEIGHT SHALL BE TAKEN FROM STAIR NOSING TO TOP OF RAILING.
  10. LANDINGS SHALL ALSO HAVE RAILINGS.
  11. REFER TO GRADING PLAN FOR NUMBER OF STAIRS AND HEIGHT.
  12. MINIMUM CLEAR WIDTH BETWEEN RAILS OF 36".



2 CONCRETE STAIR AND RAILING  
C400 NOT TO SCALE



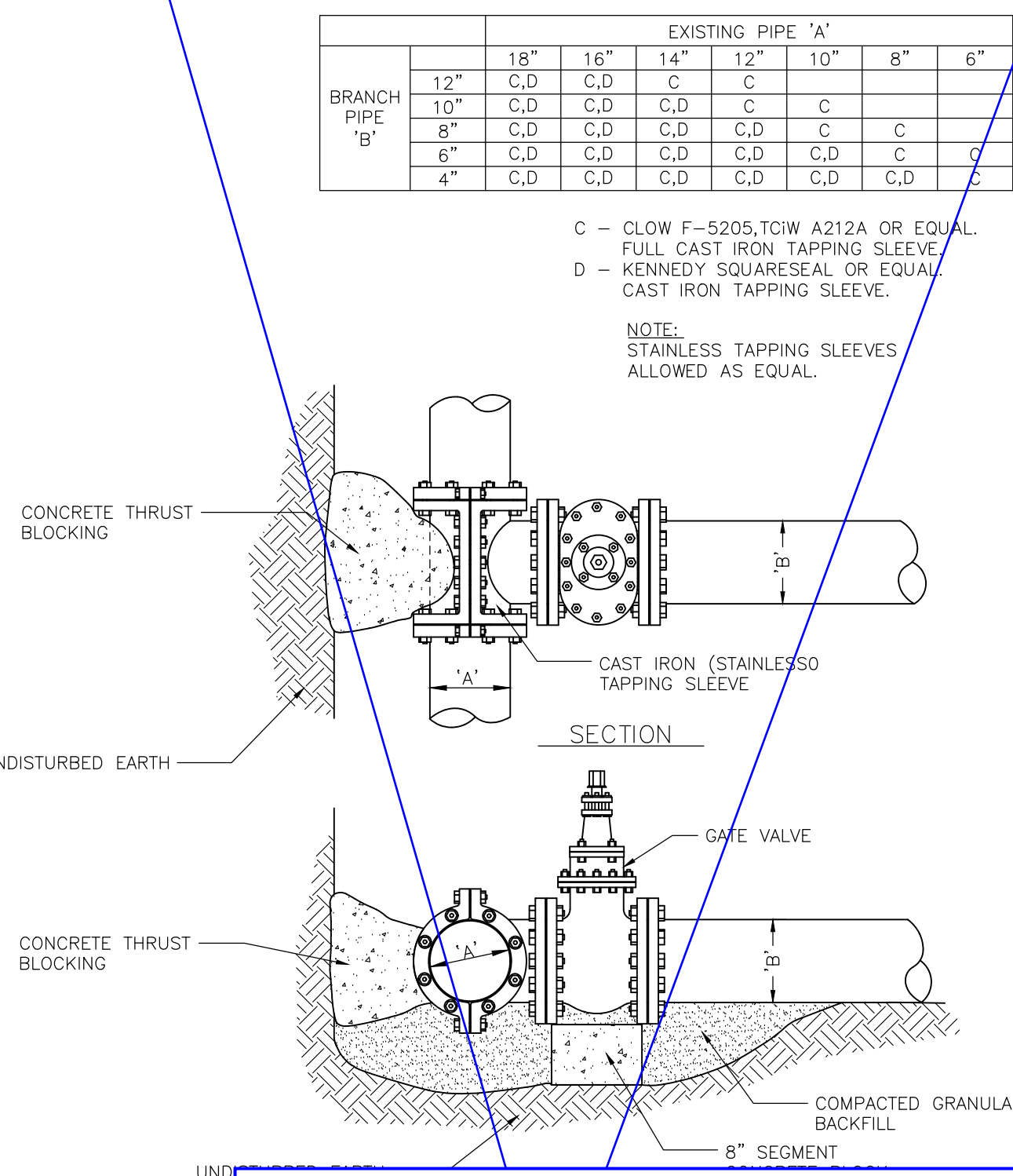
10  
C500  
24"x36" CATCH BASIN  
NOT TO SCALE



11  
C500  
CATCH BASIN MANHOLE  
NOT TO SCALE

Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

Typically three details per sheet

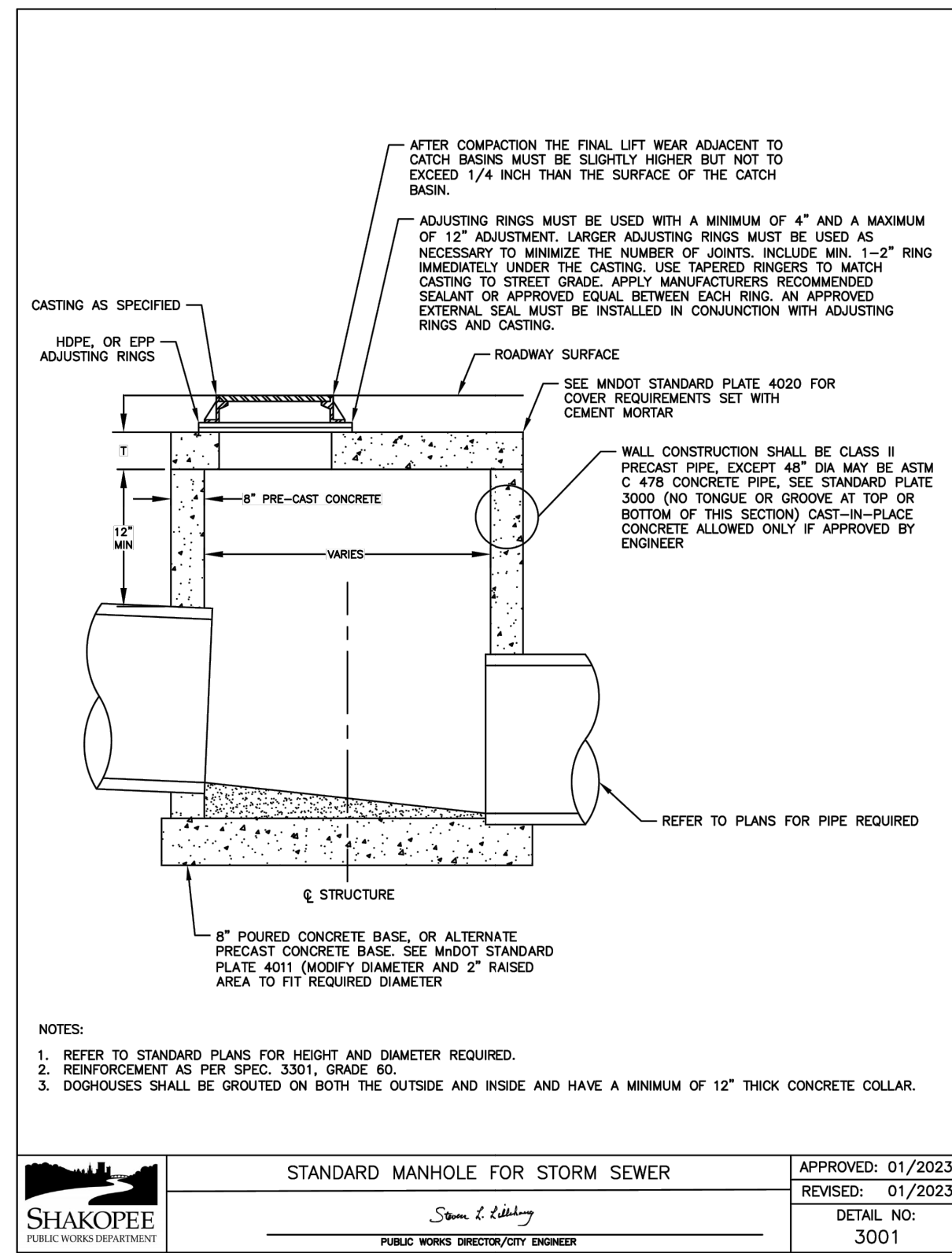


SPU: Use Shakopee Public Utilities standard detail plates for watermain related items

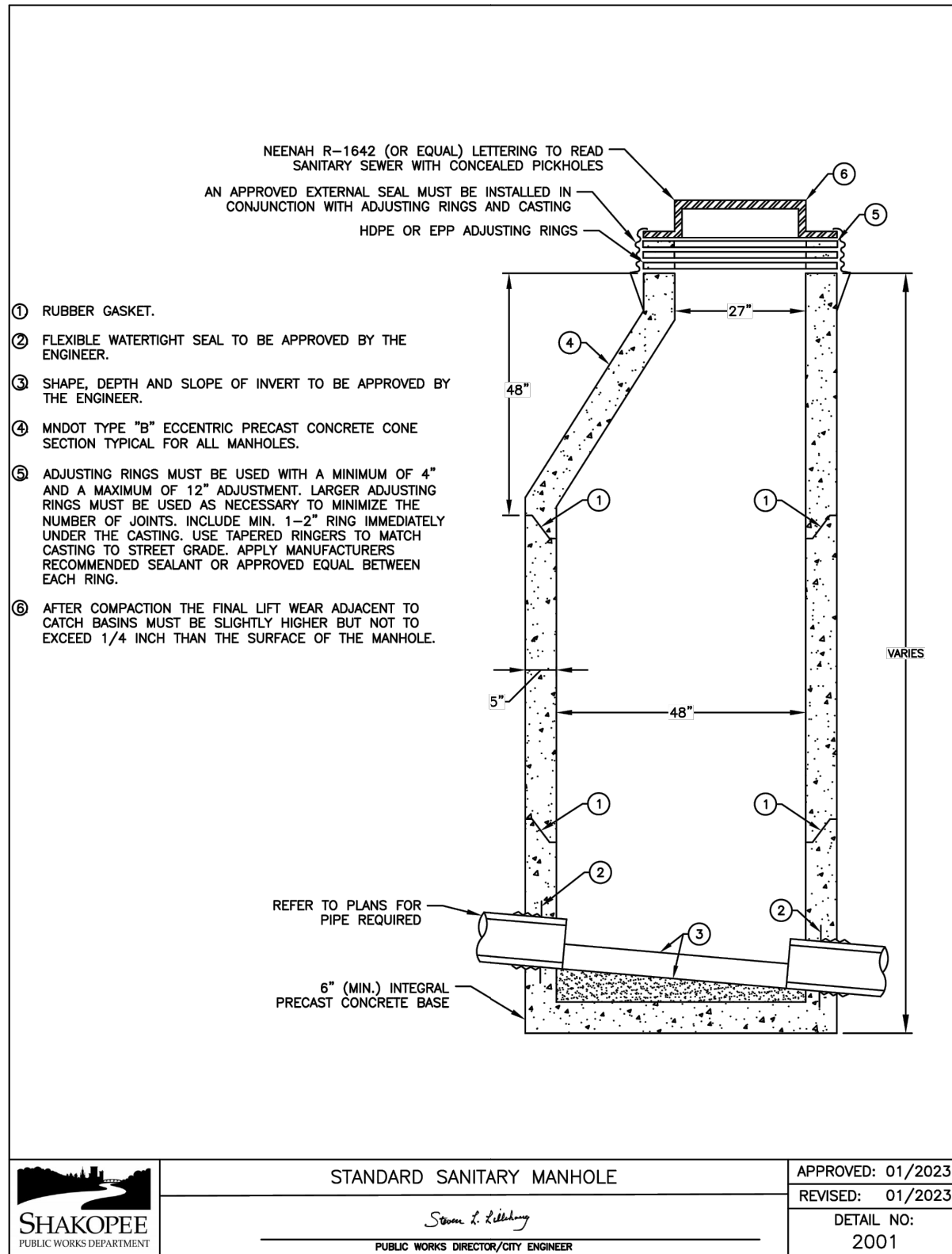
WAT-002 (Valve Box)  
WAT-007 (Thrust Block)  
WAT-011 (Water Meter for Commercial)  
WAT-028 (Risers)

WAT-015 (Irrigation) Preferred if irrigation comes out of building versus connection in street.

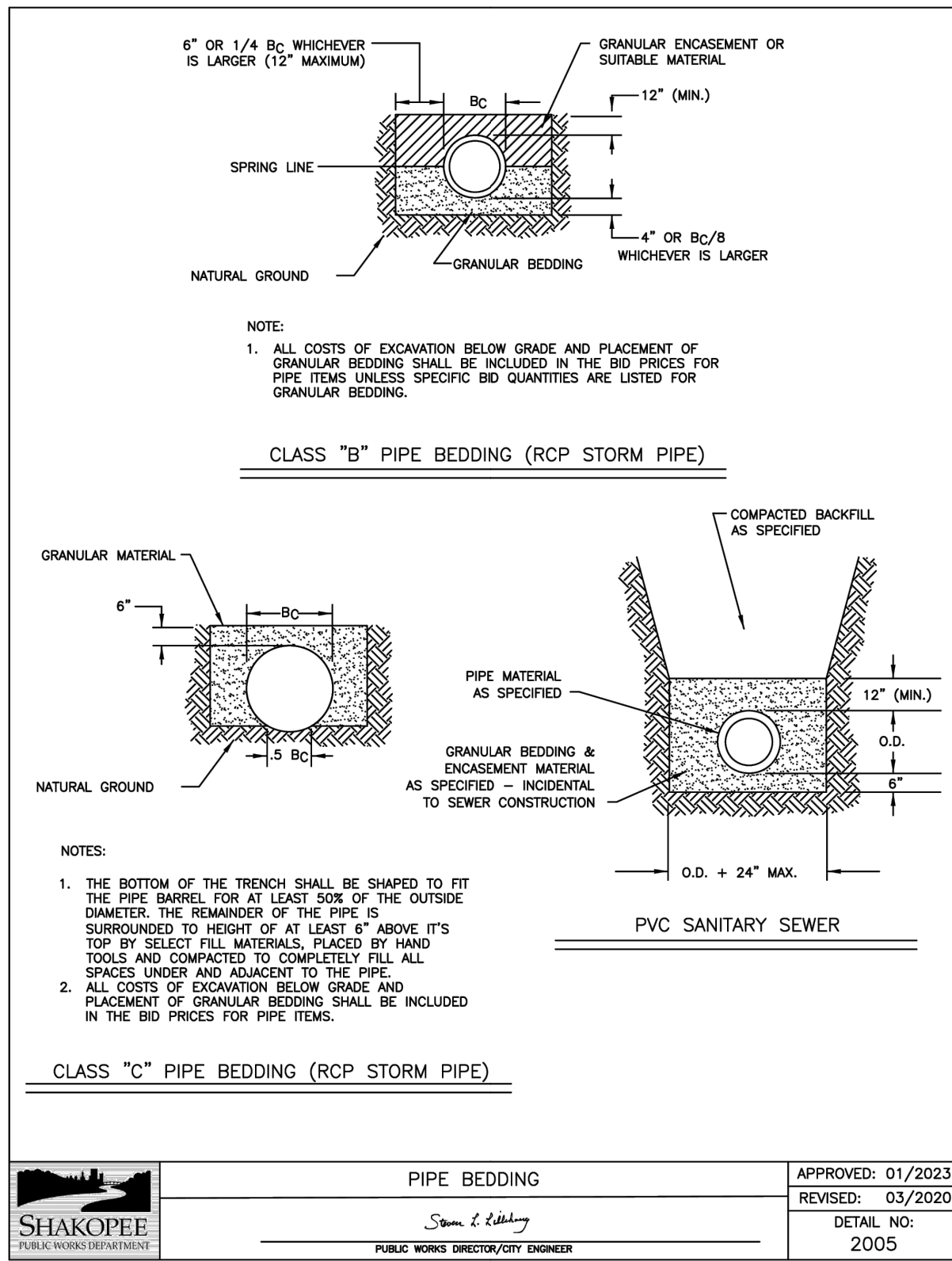
8  
C500  
GATE VALVE AND BOX INSTALLATION  
NOT TO SCALE



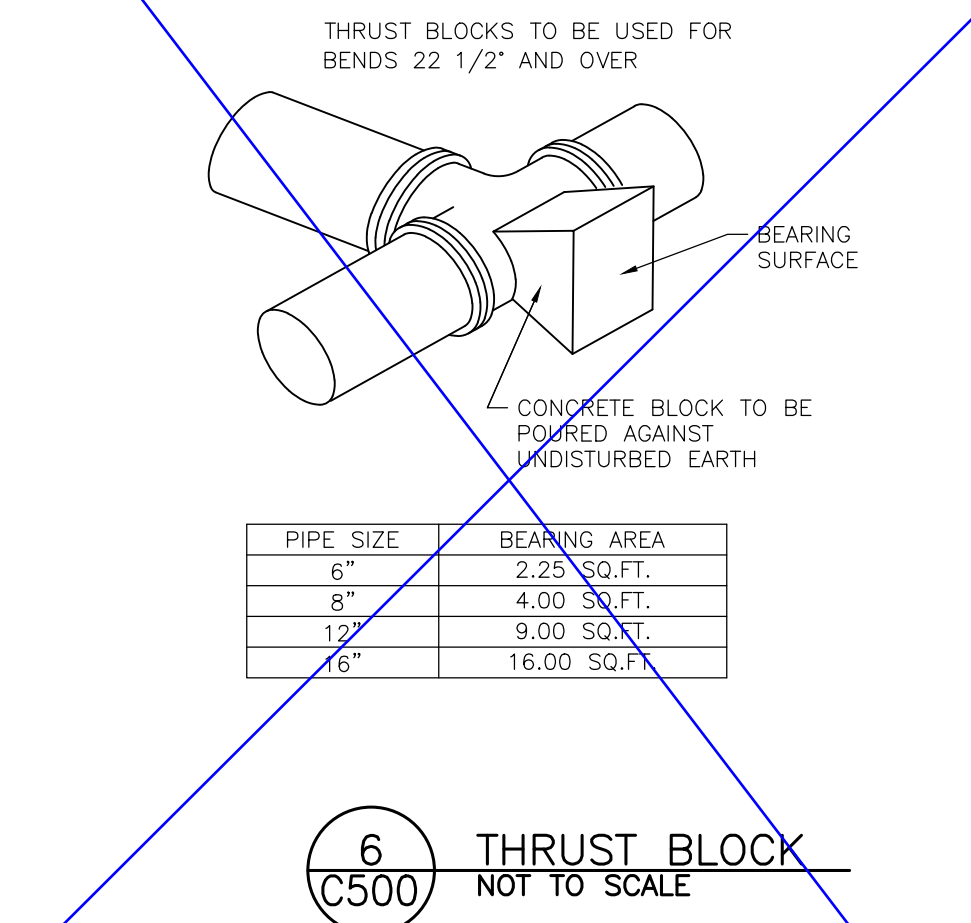
9  
C500  
STORM SEWER MANHOLE  
NOT TO SCALE



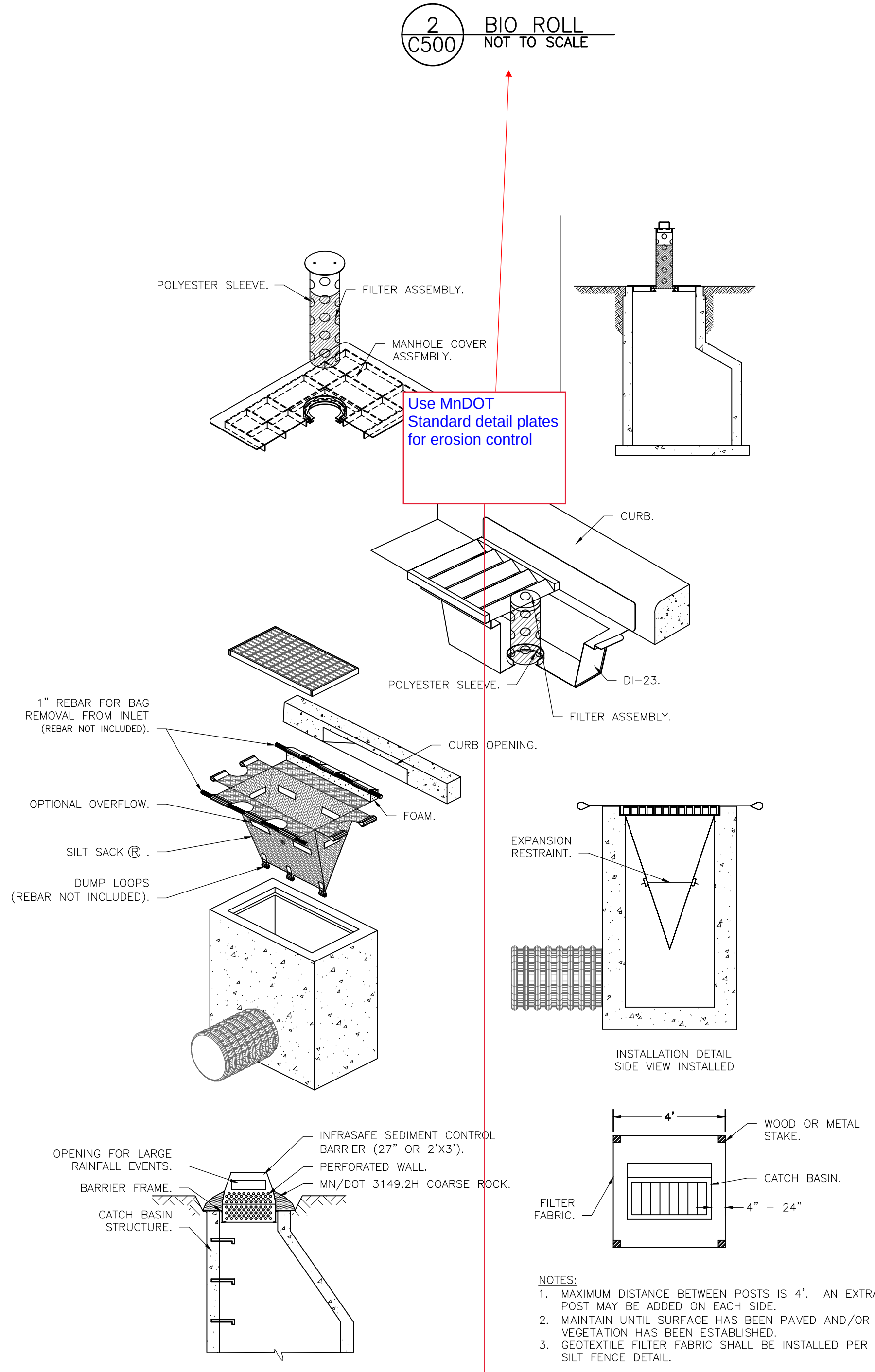
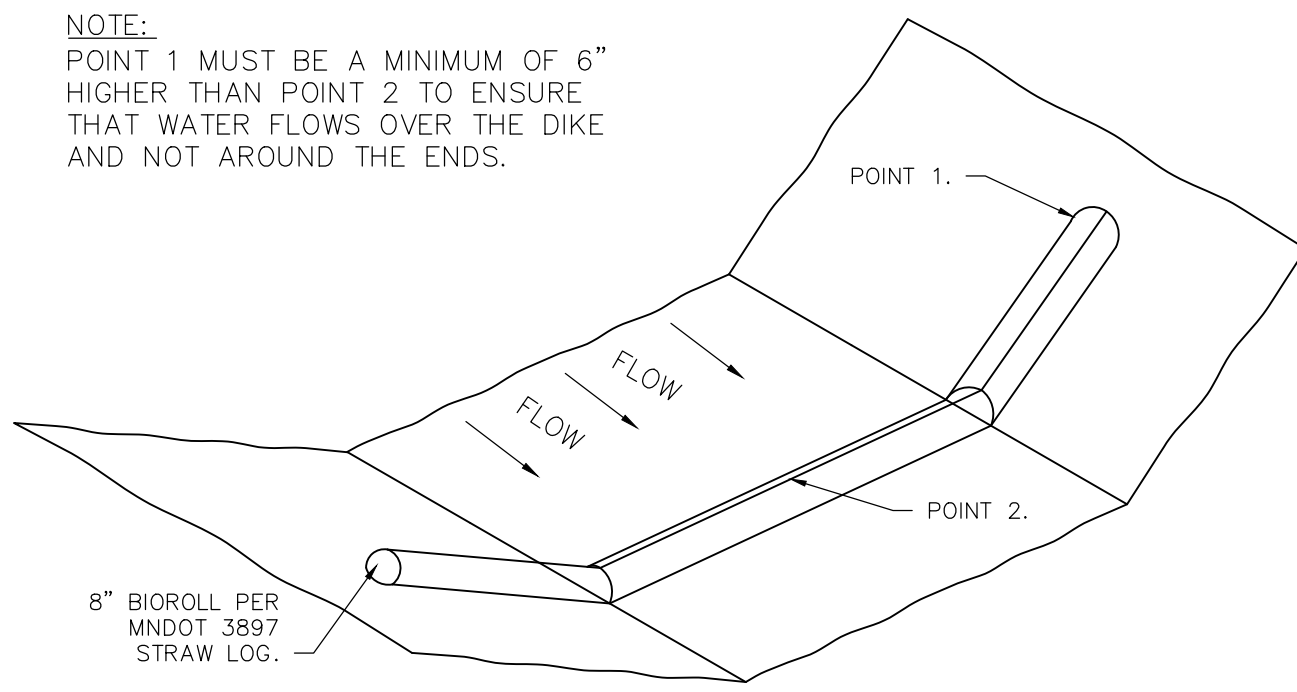
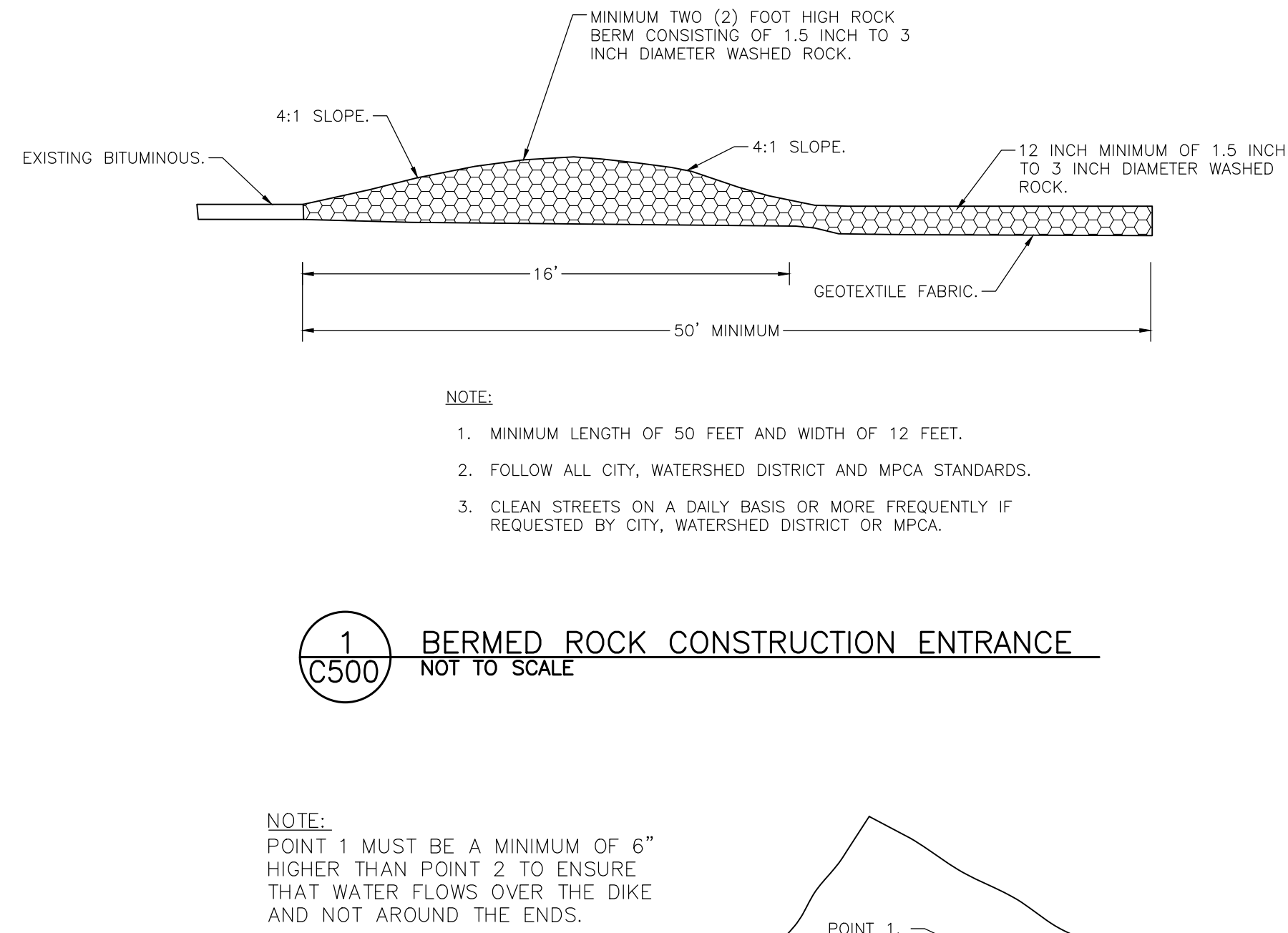
4  
C500  
SANITARY SEWER MANHOLE  
NOT TO SCALE



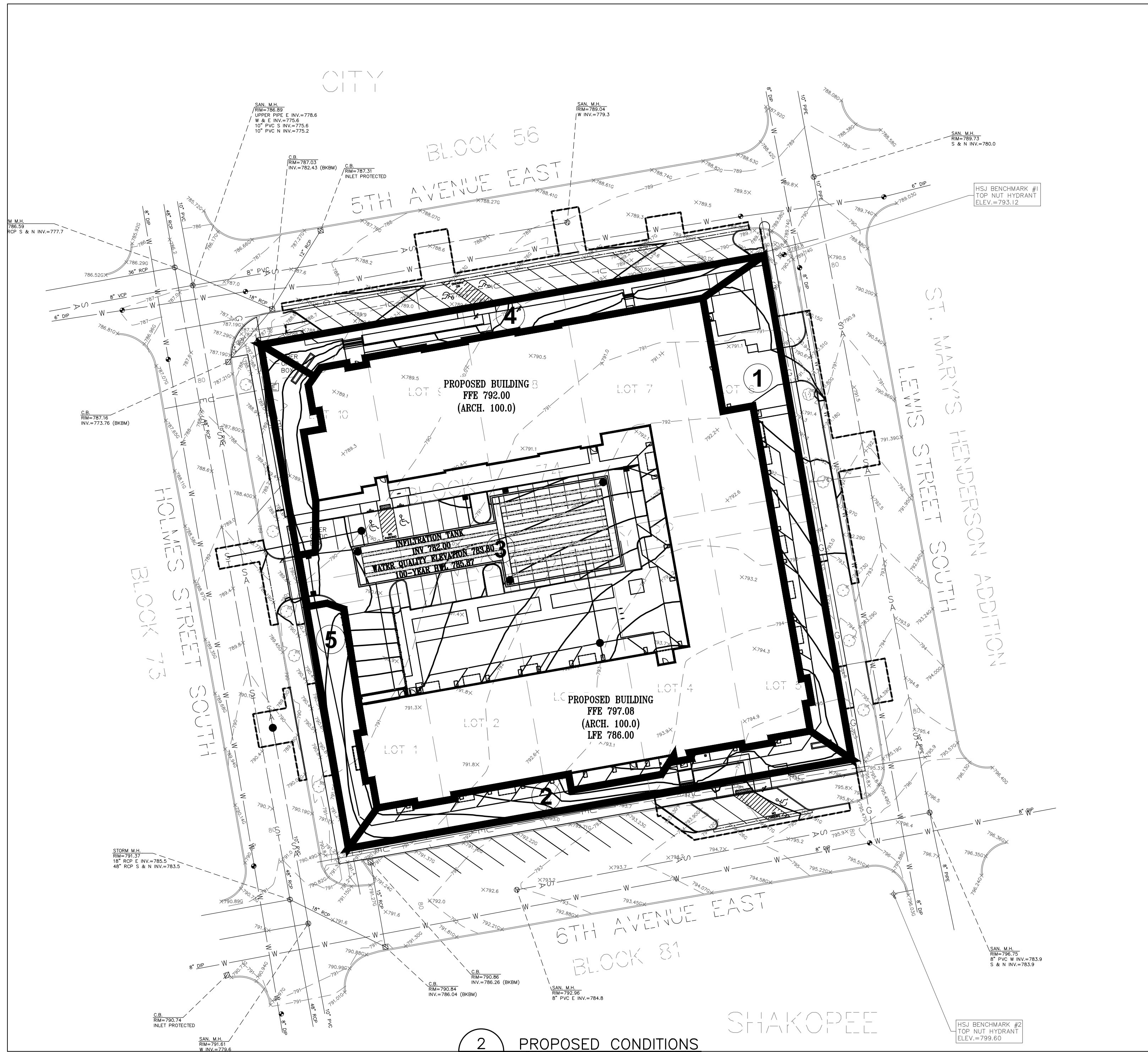
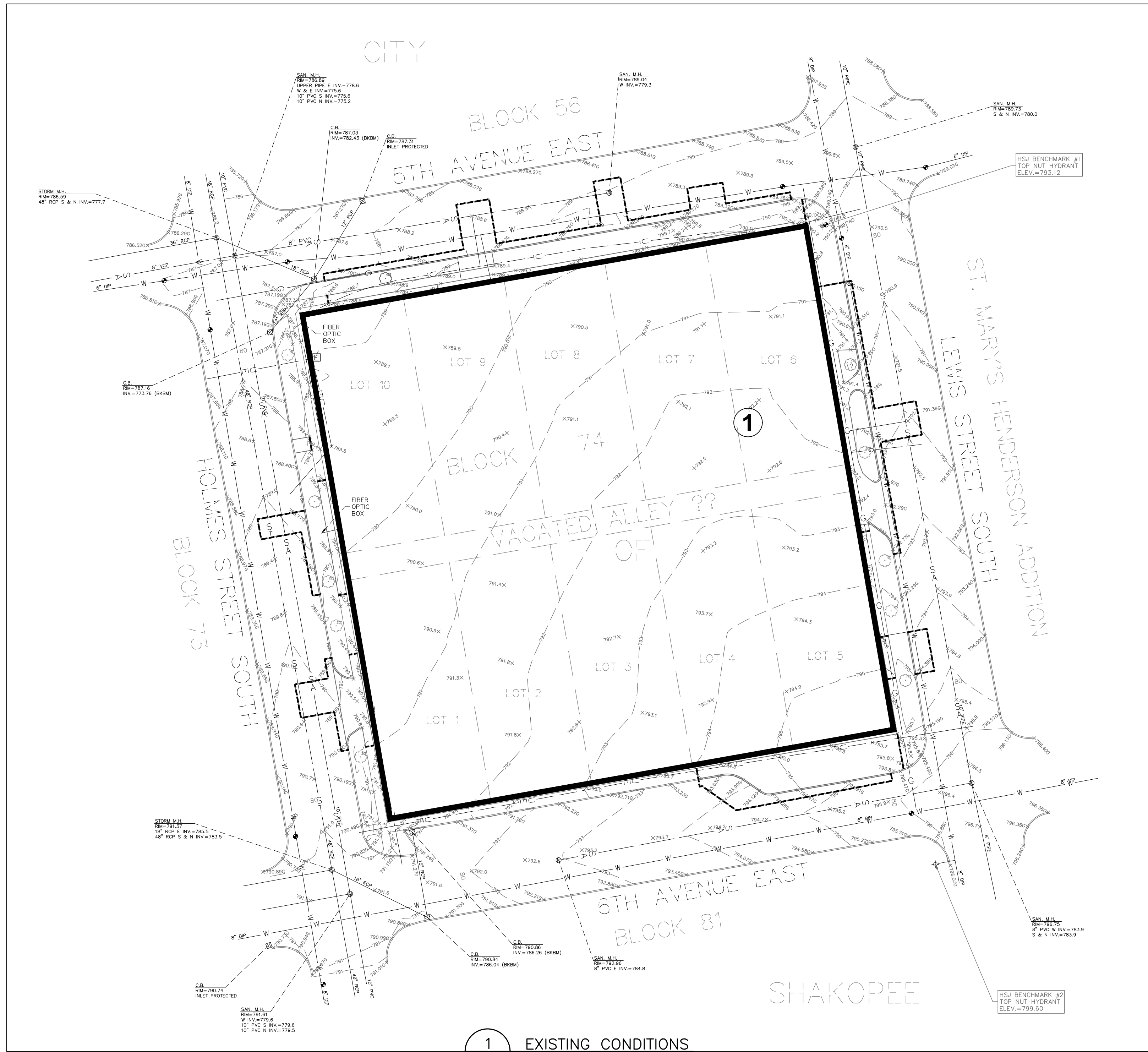
5  
C500  
PIPE BEDDING DETAIL  
NOT TO SCALE



6  
C500  
THRUST BLOCK  
NOT TO SCALE



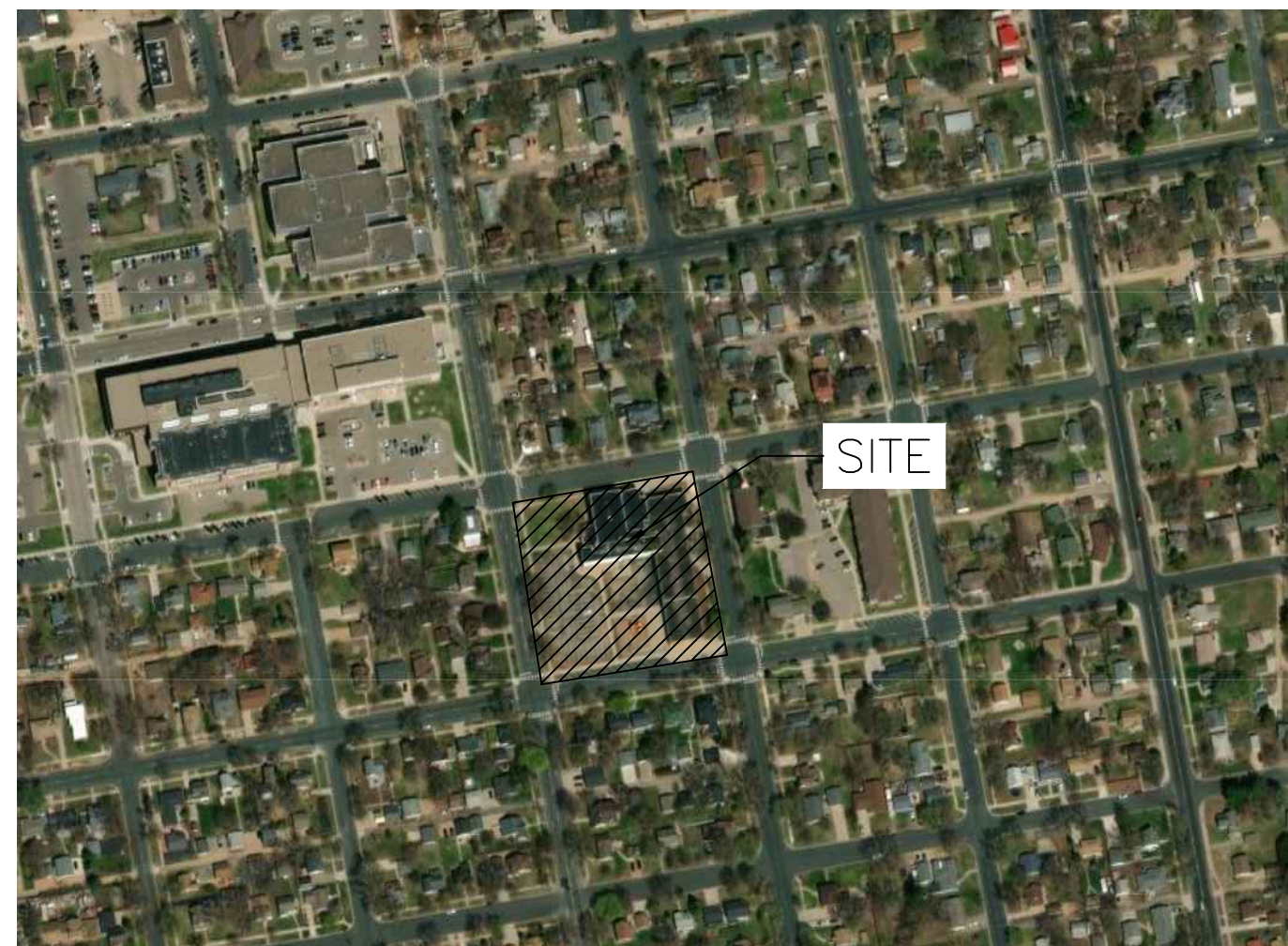




| EXISTING DRAINAGE AREAS |                         |                       |                    |                         |                 |                  |
|-------------------------|-------------------------|-----------------------|--------------------|-------------------------|-----------------|------------------|
| DRAINAGE AREA           | IMPERVIOUS AREA (ACRES) | PERVIOUS AREA (ACRES) | TOTAL AREA (ACRES) | Q OUT (GFS) STORM EVENT |                 |                  |
|                         |                         |                       |                    | 2-YEAR (2.86")          | 10-YEAR (4.25") | 100-YEAR (7.38") |
| 1                       | 0.00                    | 2.07                  | 2.07               | 0.84                    | 3.42            | 11.47            |
| TOTAL                   |                         | 2.07                  | 2.07               | 0.84                    | 3.42            | 11.47            |

| PROPOSED DRAINAGE AREAS |                         |                       |                    |                         |                 |                  |
|-------------------------|-------------------------|-----------------------|--------------------|-------------------------|-----------------|------------------|
| DRAINAGE AREA           | IMPERVIOUS AREA (ACRES) | PERVIOUS AREA (ACRES) | TOTAL AREA (ACRES) | Q OUT (GFS) STORM EVENT |                 |                  |
|                         |                         |                       |                    | 2-YEAR (2.86")          | 10-YEAR (4.25") | 100-YEAR (7.38") |
| 1                       | 0.05                    | 0.12                  | 0.17               | 0.24                    | 0.50            | 1.19             |
| 2                       | 0.01                    | 0.10                  | 0.11               | 0.08                    | 0.24            | 0.69             |
| 3                       | 1.37                    | 0.19                  | 1.56               | —                       | —               | —                |
| 4                       | 0.06                    | 0.06                  | 0.12               | 0.27                    | 0.47            | 0.97             |
| 5                       | 0.05                    | 0.06                  | 0.11               | 0.22                    | 0.40            | 0.88             |
| INFILTRATION TANK       | —                       | —                     | —                  | 0.00                    | 0.68            | 4.75             |
| TOTAL                   |                         | 0.53                  | 2.07               | 0.81                    | 2.29            | 8.48             |

| STORMWATER RUNOFF SUMMARY |                                 |                                  |                                   |
|---------------------------|---------------------------------|----------------------------------|-----------------------------------|
|                           | 2-YR STORM (2.86") RUNOFF (GFS) | 10-YR STORM (4.25") RUNOFF (GFS) | 100-YR STORM (7.38") RUNOFF (GFS) |
| EXISTING SITE             | 0.84                            | 3.42                             | 11.47                             |
| PROPOSED SITE             | 0.81                            | 2.29                             | 8.48                              |



VICINITY MAP  
SHAKOPEE, MINNESOTA

**SPECIAL AND IMPAIRED WATERS**  
THESE SPECIAL AND IMPAIRED WATERS ARE LOCATED WITHIN ONE MILE (ACRUAL RADIUS) OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE. DUE TO THE PROXIMITY OF THESE SPECIAL AND IMPAIRED WATERS, THE BMP'S DESCRIBED IN SECTION 23 OF THE NPDES PERMIT WILL APPLY TO ALL AREAS OF THE SITE.

| WATERBODY       |  | IMPAIRMENT(S)    |  |
|-----------------|--|------------------|--|
| MINNESOTA RIVER |  | NUTRIENTS; PCB'S |  |

| MINIMUM ESTIMATED QUANTITIES FOR EROSION CONTROL |                    |      |
|--------------------------------------------------|--------------------|------|
| ITEM DESCRIPTION                                 | ESTIMATED QUANTITY | UNIT |
| DRAINAGE STRUCT. INLET FILTER                    | 9                  | EACH |
| ROCK CONSTRUCTION ENTRANCE                       | 1                  | EACH |
| CONCRETE WASHOUT                                 | 1                  | EACH |

NOTE: QUANTITIES SHOWN ARE THE MINIMUM REQUIRED. ADDITIONAL QUANTITIES MAY BE NEEDED IF REQUIRED BY THE MPCA, WATERSHED DISTRICT, OR CITY. CONTRACTOR IS RESPONSIBLE FOR FINAL DETERMINATION OF QUANTITIES PRIOR TO CONSTRUCTION.

Notes and details need to be larger so that when printed on a 11x17 sheet it is legible

**NOTE:**  
THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT INCLUDES THE CIVIL ENGINEERING PLANS AND THE PROJECT MANUAL.

CONTRACTOR SHALL SUPPLY CONSTRUCTION PHASING NARRATIVE, ESTIMATED PRELIMINARY QUANTITIES OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S ANTICIPATED AT THE START OF THE PROJECT AND FOR THE LIFE OF THE PROJECT, AND LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS. CONTRACTOR IS TO REVIEW MINNESOTA POLLUTION CONTROL AGENCY'S INSTRUCTIONS FOR THE APPLICATION FOR MINNESOTA'S NPDES/SDS GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY PRIOR TO SUBMITTING APPLICATION.

**INSPECTIONS**  
EXPOSED SOIL AREAS: ONCE EVERY 7 DAYS AND WITHIN 24 HOURS FOLLOWING A 1/2 INCH OVER 24 HOURS RAIN EVENT.  
STABILIZED AREAS: ONCE EVERY 30 DAYS.  
FROZEN GROUND: AS SOON AS RUNOFF OCCURS OR PRIOR TO RESUMING CONSTRUCTION.  
RECORDS: A COPY OF THE GRADING, DRAINAGE EROSION CONTROL PLAN AND WATERSHED DATA & SWPPP PLANS AS WELL AS THE INSPECTIONS/MAINTENANCE LOGS ARE TO BE KEPT EITHER IN THE FIELD OFFICE, INSPECTOR'S VEHICLE, OR CONTRACTOR'S VEHICLE.

**FINAL STABILIZATION**  
STABILIZATION BY UNIFORM PERENNIAL VEGETATIVE COVER (70% DENSITY).  
DRAINAGE DITCHES STABILIZED.  
ALL TEMPORARY SYNTHETIC AND STRUCTURAL BMP'S REMOVED.  
CLEAN OUT SEDIMENT FROM CONVEYANCES AND SEDIMENTATION BASINS (RETURN TO DESIGN CAPACITY).

**GRADING & SOILS**  
BASED ON SOIL BORINGS(S) PROVIDED BY TERRACON SOILS TYPICALLY FOUND ON THIS PROJECT ARE: SM SC SP-SM CL  
REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

Concrete washouts not allowed on site

**PORTABLE TOILET NOTES:**  
1. PORTABLE TOILETS POSE AN ENVIRONMENTAL HAZARD WHEN PLACED IN THE VICINITY OF STORM DRAINS OR BODIES OF WATER. PORTABLE TOILET CLEANING ACTIVITIES CAN ALSO GENERATE POLLUTANTS THAT CAN DEGRADE WATER QUALITY.  
2. PORTABLE TOILET PLACEMENT:  
2.1. PLACE PORTABLE TOILETS ON FLAT STABLE GROUND WITH CLEAR ACCESS TO THE UNITS.  
2.2. LOCATE TOILETS A MINIMUM OF 20 FEET FROM ANY WATER BODY AND 10 FEET FROM ANY CURB AND GUTTER. IF UNFEASIBLE, AN EARTHEN BERM OR SAND BAG BERM SHALL BE PLACED AROUND THE UNIT FOR SPILL AND LEAK CONTAINMENT.  
2.3. AVOID PLACING TOILETS ON IMPERVIOUS SURFACES THAT WILL QUICKLY DRAIN TO STORM SEWERS.  
2.4. LOCATE TOILETS SO THAT EXPOSURE TO TRAFFIC AND MOVING EQUIPMENT IS MINIMIZED.  
2.5. SECURE TOILETS TO THE GROUND WITH STAKES OR CABLES.  
2.6. RINSE WATER FROM CLEANING ACTIVITIES SHALL NOT BE DISPOSED ON SITE.  
3. REGULARLY CHECK TOILETS FOR DAMAGE, LEAKS AND SPILLS AS PART OF THE WEEKLY STORMWATER SITE INSPECTION.  
4. OWNER IDENTIFICATION AND CONTACT INFORMATION SHALL BE DISPLAYED IN A PROMINENT LOCATION ON EACH UNIT.

**CONSTRUCTION ACTIVITY EROSION PREVENTION PRACTICES**  
CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS (INCLUDING STOCKPILES). STABILIZATION SHALL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

FOR PUBLIC WATER THAT THE DNR HAS PROMULGATED "NO WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200 FEET OF THE WATER'S EDGE, AND DRAIN TO THESE WATERS MUST COMPLETE THE STABILIZATION ACTIVITIES WITHIN 24 HOURS DURING THE RESTRICTION PERIOD.  
PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24-HOURS AFTER CONNECTION TO A SURFACE WATER.  
SEDIMENT CONTROL MEASURES MUST BE INSTALLED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADE/ LAND DISTURBING ACTIVITIES BEGIN.

**POLLUTION PREVENTION MANAGEMENT MEASURES**  
SOLID WASTE DISPOSED PROPERLY; COMPLY WITH MPCA REQUIREMENTS.  
HAZARDOUS WASTE STORED (SECONDARY CONTAINMENT, RESTRICTED ACCESS) AND DISPOSED IN COMPLIANCE WITH MPCA REQUIREMENTS.  
NO EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION ALLOWED ON-SITE.  
CONCRETE WASHOUT ON-SITE: ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY WITH AN IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THIS CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.  
THE CONCRETE WASHOUT AREA INDICATED ON THE PLANS IS SHOWN IN AN APPROXIMATE LOCATION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION IN ACCORDANCE WITH MPCA REQUIREMENTS.  
STORAGE HANDLING AND DISPOSAL OF CONSTRUCTION PRODUCTS, MATERIALS, AND WASTES:  
BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER.  
PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER.  
HAZARDOUS MATERIALS, TOXIC WASTE (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES.

**SEDIMENT AND EROSION CONTROL MAINTENANCE**  
PERIMETER SEDIMENT CONTROL PRACTICES: WHEN SEDIMENT REACHES 1/3 THE HEIGHT OF THE BMP, THE SEDIMENT MUST BE REMOVED WITHIN 24 HOURS. IF PERIMETER SEDIMENT CONTROL HAS BEEN DAMAGED OR IS NOT FUNCTIONING PROPERLY, IT MUST BE REPAIRED AND/OR REPLACED WITHIN 24 HOURS. PERIMETER BMP MEASURES MAY INCLUDE SILT FENCING.  
CONSTRUCTION SITE VEHICLE EXIT LOCATIONS: ALL TRACKED SEDIMENT ONTO PAVED SURFACES MUST BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR MORE FREQUENTLY IF REQUIRED BY CITY OR WATERSHED.  
CONSTRUCTION SITE DETERIORATION:  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DETERIORATION PERMITS. DISCHARGE FROM ALL DETERIORATION OPERATIONS SHALL BE DIRECTED TO ON-SITE DEPRESSIONS. NO DISCHARGE FROM DETERIORATION OPERATIONS SHALL BE DIRECTED OFF-SITE TOWARDS A WATER OF THE STATE.

**OTHER NOTES:**  
1. LONG TERM MAINTENANCE OF THE SITE WILL BE PERFORMED BY THE OWNER, SCOTT COUNTY CDA. INCLUDED MAINTENANCE FOR STORMWATER DEVICES SHALL BE:  
1.1. INSPECT SUMP CATCH BASINS ON A BIENNIAL BASIS, ONCE IN THE SPRING AND ONCE IN THE FALL.  
1.2. CLEAN SUMP CATCH BASINS OF SEDIMENT AND DEBRIS ANNUALLY OR WHEN SEDIMENTS FILL 1/3 OF THE STORAGE VOLUME.  
1.3. INSPECT INFILTRATION TANK FOR SEDIMENT AND DEBRIS ON A BIENNIAL BASIS. REMOVE SEDIMENT AND DEBRIS AS NEEDED.  
2. THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE ON FILE WITH BKBM AND ARE AVAILABLE UPON REQUEST.  
3. THIS SWPPP DOCUMENT MUST BE AMENDED AS NECESSARY DURING CONSTRUCTION IN ORDER TO KEEP IT CURRENT WITH THE POLLUTANT CONTROL MEASURES UTILIZED AS THE SITE. THE SITE MAP SHOWING LOCATIONS OF ALL STORM WATER CONTROL MEASURES MUST BE POSTED ON THE SITE AND UPDATED TO REFLECT THE PROGRESS OF CONSTRUCTION.

**HANDLING AND STORAGE OF HAZARDOUS MATERIALS:**  
IF THE CONTRACTOR INTENDS TO USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ON THE PROJECT SITE, THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:  
1. THE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORMWATER IS DIRECTED TO A SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.  
2. CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION, AND TO THE EXPECTED TURBIDITY, PH, AND FLOW RATE OF STORMWATER FLOWING INTO THE CHEMICAL TREATMENT SYSTEM OR AREA.  
3. CHEMICALS MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, AND WITH DESIGN SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR PROVIDER/SUPPLIER OF THE APPLICABLE CHEMICAL.

ON-SITE FUEL TANKS REQUIRE SECONDARY CONTAINMENT AS REQUIRED BY THE PERMIT. PORTABLE FUEL TRUCKS SHALL HAVE THEIR SPILL KITS AVAILABLE DURING FUELING. SPILLS GREATER THAN 5 GALLONS MUST BE REPORTED TO THE PROPER AUTHORITIES.  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DETERIORATION PERMITS. DISCHARGE FROM ALL DETERIORATION OPERATIONS SHALL BE DIRECTED TO ON-SITE DEPRESSIONS. NO DISCHARGE FROM DETERIORATION OPERATIONS SHALL BE DIRECTED OFF-SITE TOWARDS A WATER OF THE STATE.

**TEMPORARY SEDIMENT BASINS:**  
TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED PER APPENDIX A, SECTION C.1.8 OF THE MPCA GENERAL STORMWATER PERMIT.  
ENGINEER ANTICIPATES THAT, PRIOR TO EXCAVATION FOR INFILTRATION TANK, CONTRACTOR WILL USE PROPOSED INFILTRATION TANK AREA AS TEMPORARY SEDIMENT BASINS. CONTRACTOR SHALL EXCAVATE TEMPORARY BASINS PRIOR TO USE. SURFACE WATER SHALL BE REMOVED BY SKIMMER DEVICE SUCH AS FARCLOTH SKIMMER OR THIRSTY DUCK, OR USING A PUMP WITH A FILTER. ALTERNATIVE TEMPORARY SEDIMENT BASINS SHALL BE APPROVED BY ENGINEER PRIOR TO USE.

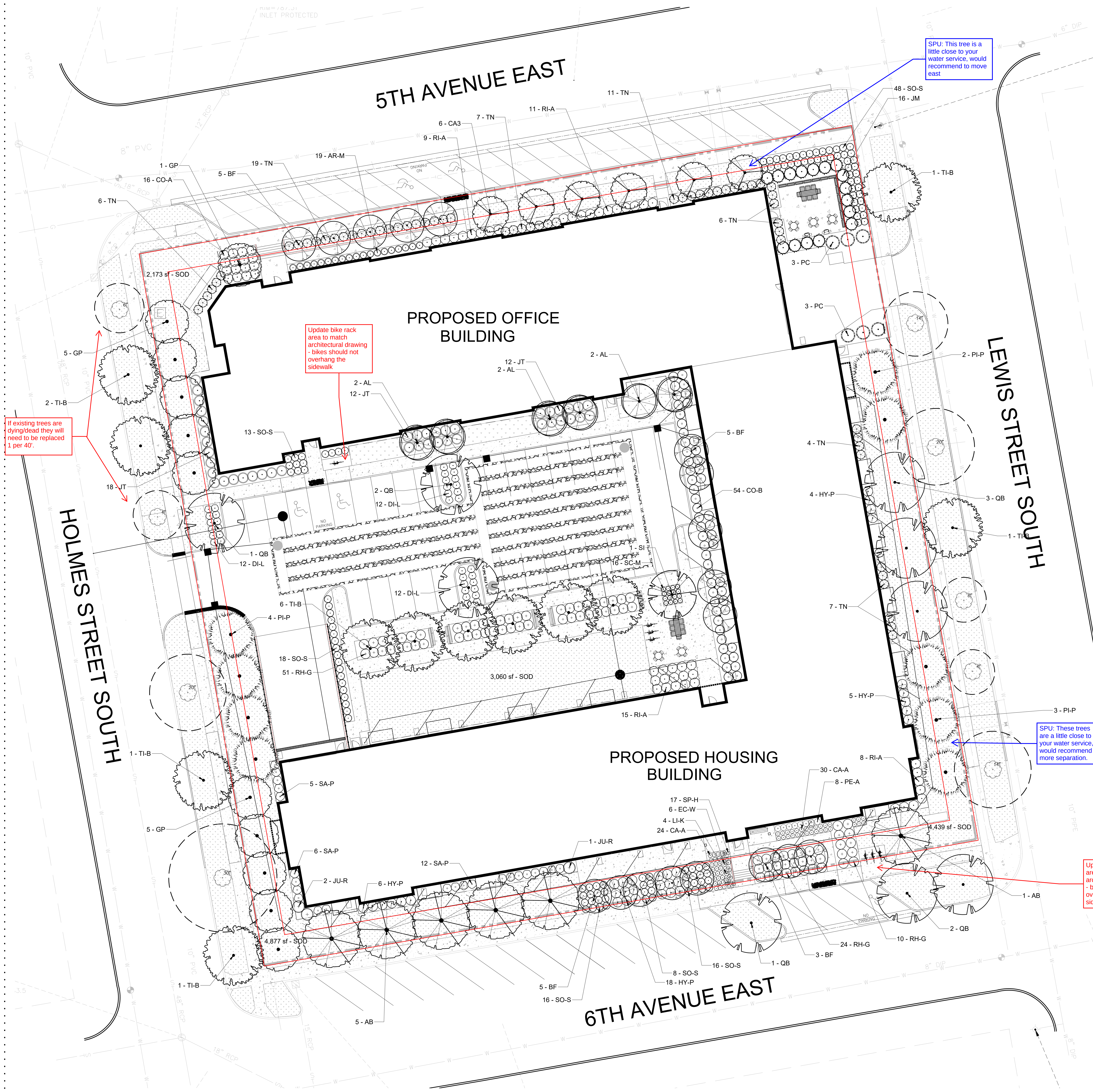
**SWPPP IMPLEMENTATION, INSTALLATION, INSPECTION, AND BMP MAINTENANCE** SHALL BE PERFORMED BY THE CONTRACTOR.  
NAME: \_\_\_\_\_  
CERTIFICATION #: \_\_\_\_\_  
DATE: \_\_\_\_\_

**NOTE:**  
AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S (INFILTRATION TANK, OUTLET STRUCTURES, SUMP CATCH BASINS, ETC...) SHALL BE SUBMITTED TO LOWER MINNESOTA RIVER WATERSHED DISTRICT PRIOR TO PROJECT CLOSEOUT. THE AS-BUILT SURVEY SHALL INCLUDE THE FOLLOWING INFORMATION: PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR, SWPPP DOCUMENTATION, INCLUDING INSPECTION REPORTS SHALL BE RETAINED FOR A PERIOD OF THREE (3) YEARS. DESIGN CALCULATIONS ARE ON FILE AT BKBM.

THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED.

**STOCKPILES:**  
ON-SITE STOCKPILES OF SOIL SHALL HAVE PERIMETER SEDIMENT CONTROL. STOCKPILES SHALL BE STABILIZED WITH BLANKETS, TAPPS, OR HYDRO MULCH IF LEFT ON-SITE FOR MORE THAN 7 DAYS.

**PROJECT NARRATIVE**  
EXISTING SITE DESCRIPTION -- THE EXISTING SITE IS APPROXIMATELY 2 ACRES IN SIZE AND IS MOSTLY UNDEVELOPED. STORMWATER RUNOFF GENERALLY SHEET FLOWS FROM SOUTHEAST TO NORTHWEST. THERE IS NO EXISTING STORMWATER MANAGEMENT ON SITE.  
PROPOSED SITE DESCRIPTION -- THE PROPOSED WORK WILL CONSIST OF A NEW RESIDENTIAL/COMMERCIAL BUILDING, BITUMINOUS PARKING LOT, CONCRETE SIDEWALKS, AND GREEN SPACE. THE PROPOSED WORK IS EXPECTED TO ADD APPROXIMATELY 1.54 ACRES OF NEW IMPERVIOUS AREA. THE MAJORITY OF THE STORMWATER RUNOFF WILL BE COLLECTED IN PROPOSED STORM SEWER AND PIPED TO AN INFILTRATION TANK SYSTEM UNDER THE NEW PARKING LOT. THE TANK WILL OUTLET INTO EXISTING STORM SEWER IN HOLMES STREET.



| PLANT SCHEDULE   |      |           |                                                                         |
|------------------|------|-----------|-------------------------------------------------------------------------|
| SYMBOL           | CODE | QTY       | BOTANICAL / COMMON NAME                                                 |
| DECIDUOUS TREES  |      |           |                                                                         |
|                  | AL   | 6         | ACER RUBRUM 'ARMSTRONG' / ARMSTRONG MAPLE                               |
|                  | AB   | 6         | ACER X FREEMANII 'BAILSTON' / MATADOR™ FREEMAN MAPLE                    |
|                  | BF   | 18        | BETULA PLATYPHYLLA 'FARGO' TM / DAKOTA PINNACLE WHITE BIRCH             |
|                  | GP   | 11        | GINKGO BILOBA 'PRINCETON SENTRY' / PRINCETON SENTRY MAIDENHAIR TREE     |
|                  | QB   | 9         | QUERCUS BICOLOR / SWAMP WHITE OAK                                       |
|                  | TI-B | 12        | TILIA AMERICANA 'BOULEVARD' / BOULEVARD LINDEN                          |
| EVERGREEN TREES  |      |           |                                                                         |
|                  | JM   | 16        | JUNIPERUS SCOPULORUM 'MEDORA' / MEDORA JUNIPER                          |
|                  | PC   | 6         | PICEA ABIES 'CUPRESSINA' / CUPRESSINA NORWAY SPRUCE                     |
|                  | PI-P | 9         | PINUS PONDEROSA / PONDEROSA PINE                                        |
| ORNAMENTAL TREES |      |           |                                                                         |
|                  | CA3  | 6         | CORNUS ALTERNIFOLIA / PAGODA DOGWOOD                                    |
|                  | SI   | 1         | SYRINGA RETICULATA 'IVORY SILK' / IVORY SILK JAPANESE TREE LILAC        |
| DECIDUOUS SHRUBS |      |           |                                                                         |
|                  | AR-M | 19        | ARONIA MELANOCARPA 'U'CONNAM165' / LOW SCAPE MOUND CHOKEBERRY           |
|                  | CO-B | 54        | CORNUS SERICEA 'BAILADELINE' TM / FIREDANCE DOGWOOD                     |
|                  | CO-A | 16        | CORNUS SERICEA 'ALLEMANS COMPACT' / DWARF RED TWIG DOGWOOD              |
|                  | DH-L | 36        | DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE                             |
|                  | HY-P | 33        | HYDRANGEA PANICULATA 'JANE' TM / LITTLE LIME PANICLE HYDRANGEA          |
|                  | RH-G | 85        | RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC                       |
|                  | RI-A | 43        | RIBES ALPINUM / ALPINE CURRANT                                          |
|                  | SA-P | 23        | SALIX PURPUREA 'CANYON BLUE' / ARCTIC BLUE PURPLE OSIER WILLOW          |
|                  | SO-S | 119       | SORBARIA SORBIFOLIA 'SEM' / SEM ASH LEAF SPIREA                         |
| EVERGREEN SHRUBS |      |           |                                                                         |
|                  | JT   | 42        | JUNIPERUS CHINENSIS 'MONLEP' / MINT JULEP® CHINESE JUNIPER              |
|                  | JU-R | 3         | JUNIPERUS SCOPULORUM 'SKYROCKET' / SKYROCKET JUNIPER                    |
|                  | TN   | 60        | TAXUS X MEDIA 'TAUNTON' / TAUNTON YEW                                   |
| GRASSES          |      |           |                                                                         |
|                  | CA-A | 54        | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS         |
|                  | SC-M | 16        | SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA' / BLUE HEAVEN LITTLE BLUESTEM       |
|                  | SP-H | 17        | SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED                               |
| PERENNIALS       |      |           |                                                                         |
|                  | EC-W | 6         | ECHINACEA PURPUREA 'WHITE SWAN' / WHITE SWAN CONEFLOWER                 |
|                  | LI-K | 4         | LIATRIS SPICATA 'KOBOLD' / KOBOLD BLAZING STAR                          |
|                  | PE-A | 8         | PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY' / BLUE JEAN BABY RUSSIAN SAGE |
| GROUND COVERS    |      |           |                                                                         |
|                  | SOD  | 24,165 SF | SOD                                                                     |

