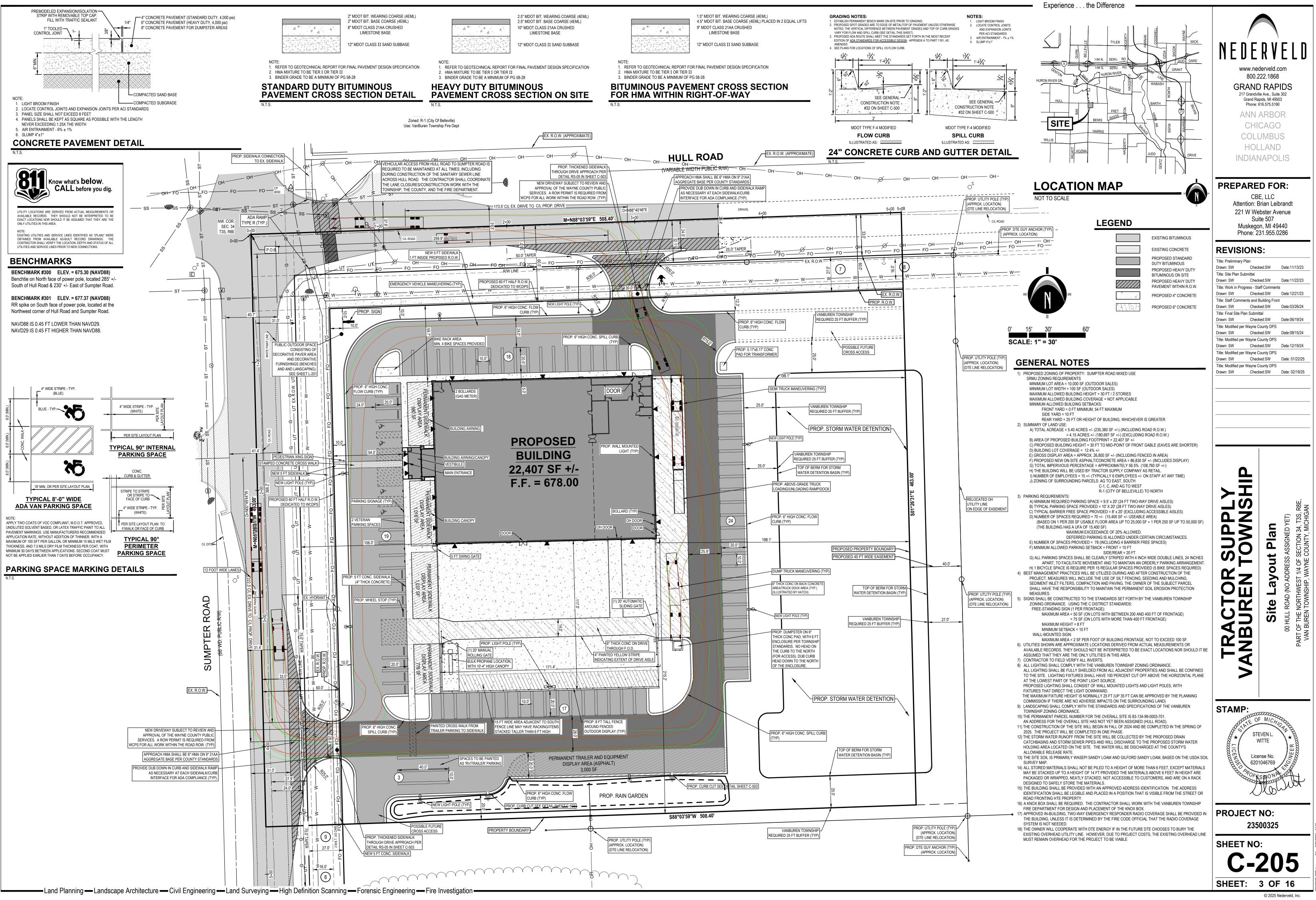
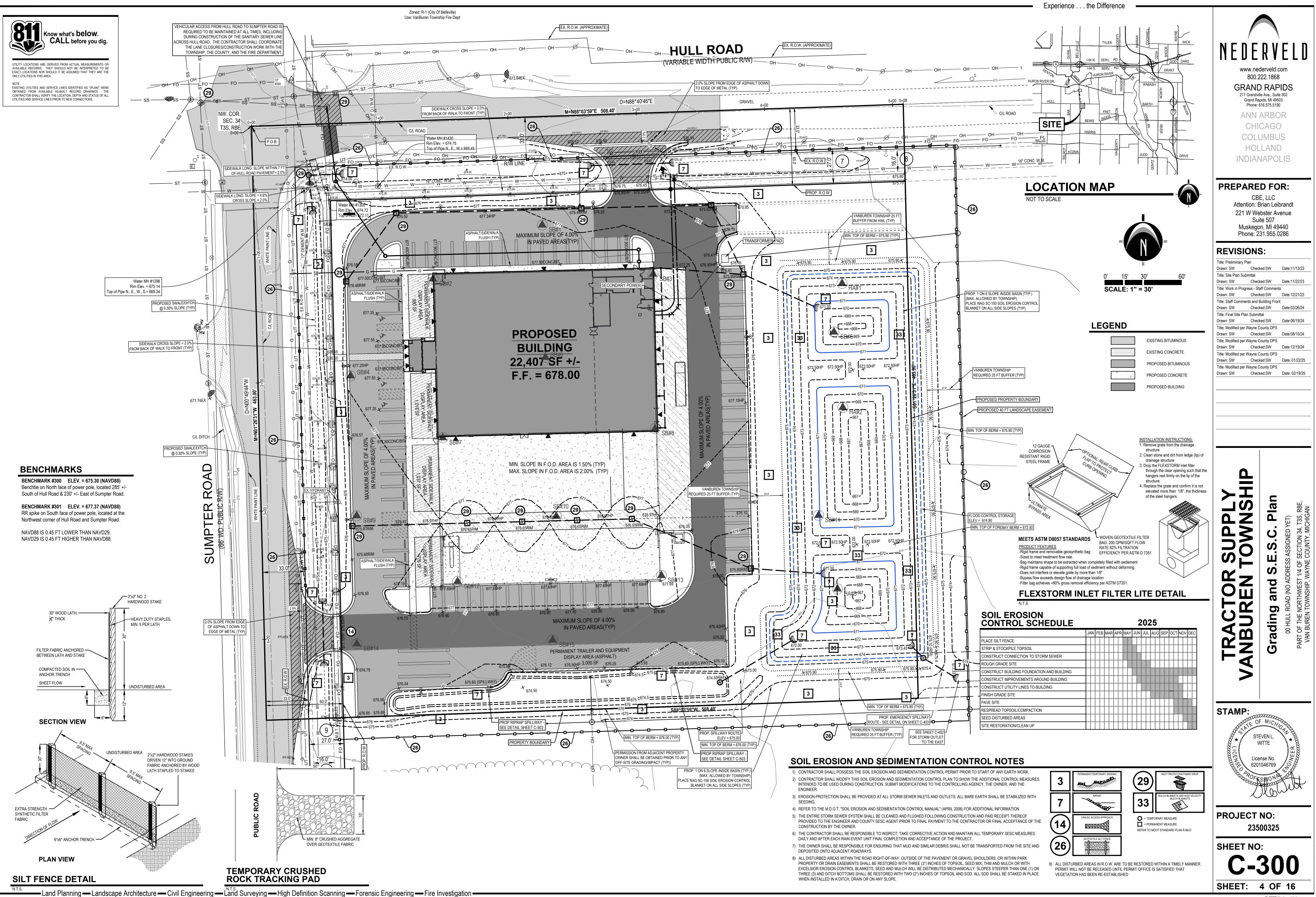
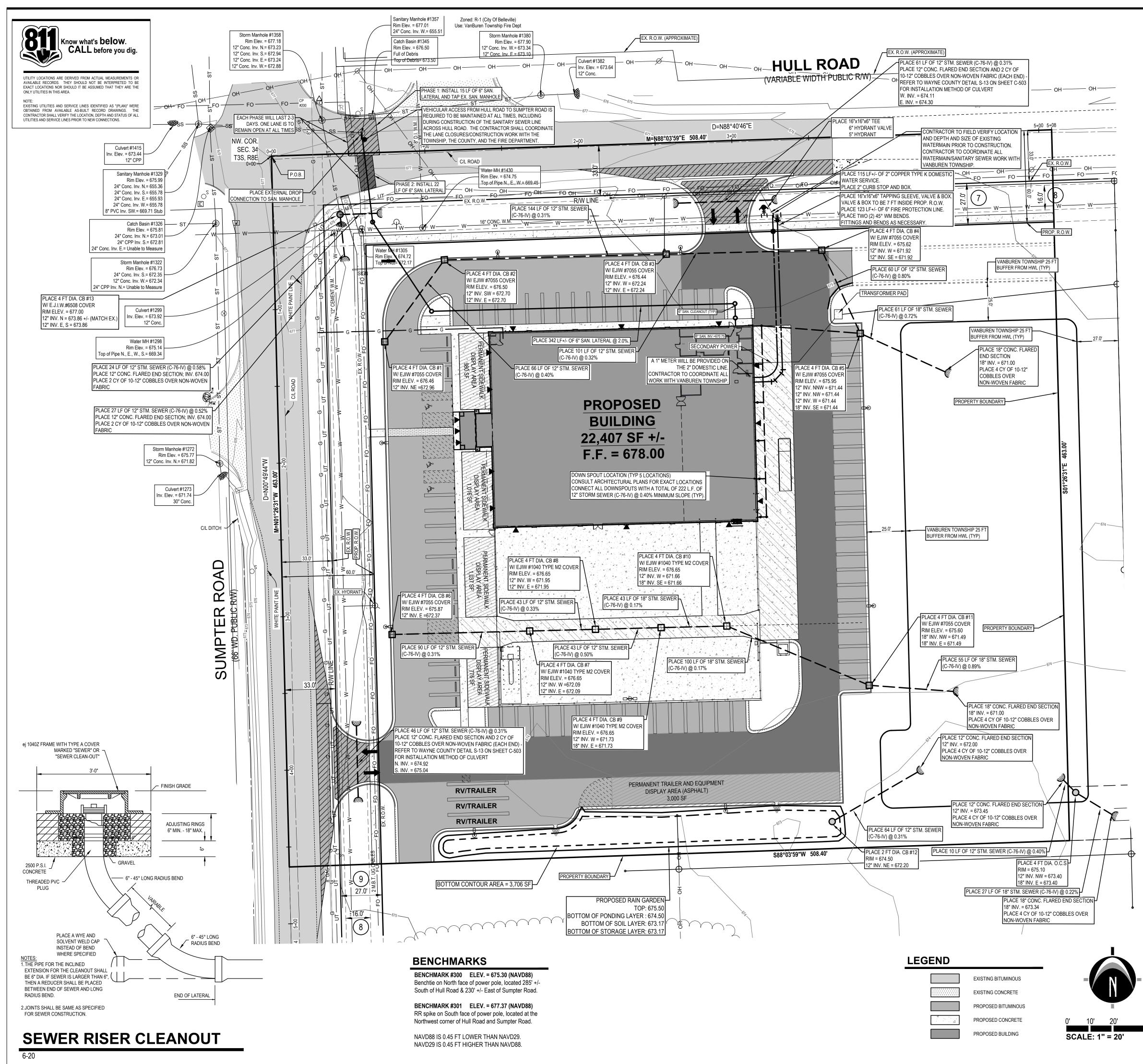


⁻ Land Planning - Landscape Architecture - Civil Engineering - Land Surveying - High Definition Scanning - Forensic Engineering - Fire Investigation

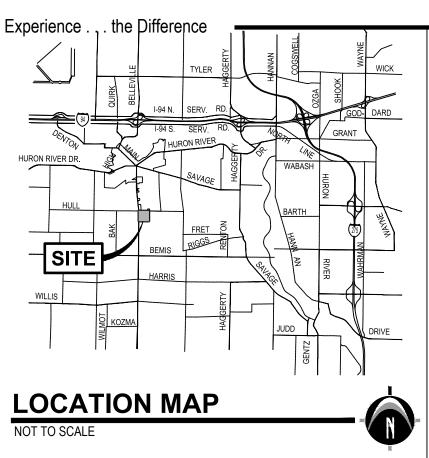




-Land Planning - Landscape Architecture - Civil Engineering - Land Surveying - High Definition Scanning - Forensic Engineering - Fire Investigation



-Land Planning -Landscape Architecture -Civil Engineering -Land Surveying -High Definition Scanning -Forensic Engineering -Fire Investigation -



CONSTRUCTION NOTES

STORM SEWER

- ALL CATCH BASINS SHOULD BE PROVIDED WITH A MINIMUM 4' SUMP PER TOWNSHIP SPECIFICATIONS.
 ALL STORM SEWER SHALL BE CONCRETE PIPE (CL-IV RCP) PER TOWNSHIP SPECIFICATIONS.
- ALL STORM SEWER STALL BE CONCRETE FIFE (CERVICE) FER TOWNSHIP SECONDATIONS.
 6" UNDERDRAIN SHALL BE PERFORATED PIPE WITH SOCK, MEETING THE REQUIREMENTS OF AASHTO M-252 AND THE GEOTEXTILE SHALL MEET AASHTO M-288 REQUIREMENTS
- ALL FLARED END SECTIONS SHALL BE CONCRETE.
 ALL CATCH BASINS AND MANHOLES SHALL BE CONCRETE, CONFORMING TO ASTM C-478 WITH BUTYL
- ALL CATCH BASING AND MANHOLES SHALL BE CONCRETE, CONFORMING TO ASTM C-478 WITH BUTYL RUBBER GASKETED JOINTS WITH BOOT TYPE PIPE CONNECTIONS CONFORMING TO ASTM C-923 FOR ALL
- PIPE CONNECTIONS 24" DIAMETER AND SMALLER.6. ALL CATCH BASINS ARE DRAWN AND WILL BE STAKED AT CENTER OF CASTING

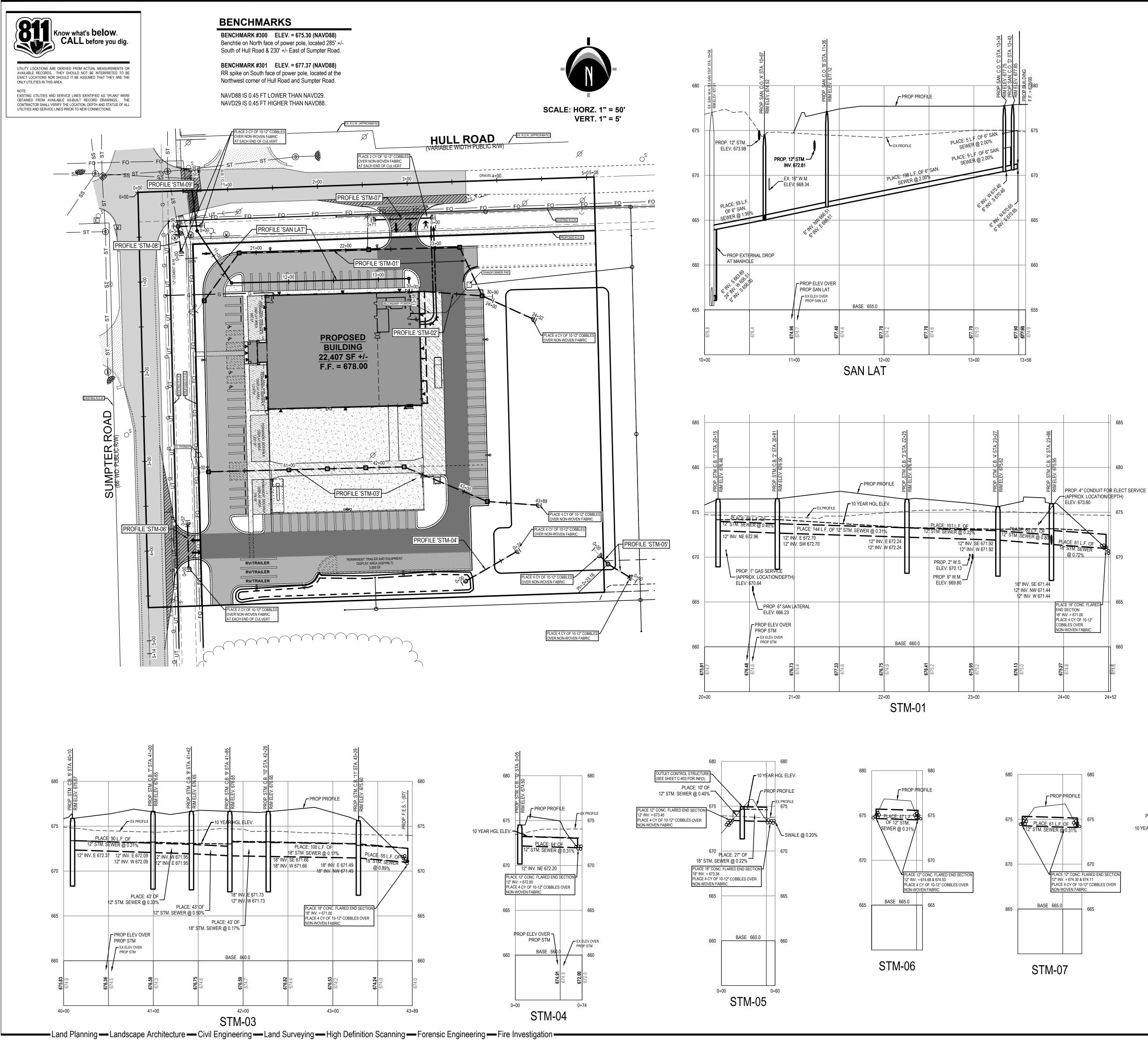
WATERMAIN AND SANITARY SEWER

- ALL WATERMAIN AND SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE TOWNSHIP STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING POST CONSTRUCTION VIDEO INSPECTION OF THE SANITARY SEWER SYSTEM.
- WATERMAIN AND WATER SERVICES SHALL FOLLOW THE STANDARDS OF VANBUREN TOWNSHIP.
 CONNECTIONS TO THE EXISTING WATERMAIN SHALL NOT OCCUR UNTIL ALL REQUIRED HYDROSTATIC AND BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED AND ACCEPTED BY THE TOWNSHIP ENGINEER
- SANITARY SEWERS SHALL FOLLOW THE STANDARDS OF VANBUREN TOWNSHIP.
 SAND BACKFILL IS REQUIRED FOR SANITARY SEWER TRENCH LOCATED UNDER OR WITHIN THREE FEET OF PAVEMENT
- THE REQUIRED BEDDING FOR SANITARY SEWER IS A MINIMUM 4" MDOT CLASS II SAND.
 AT ALL CONNECTIONS TO AN EXISTING SANITARY SEWER SYSTEM, A TEMPORARY BRICK BULKHEAD SHALL BE PLACED IN THE FIRST MANHOLE UPSTREAM OF THE CONNECTION TO THE EXISTING SEWER. THE BULKHEAD SHALL BE REMOVED AFTER SUCCESSFUL TESTING.

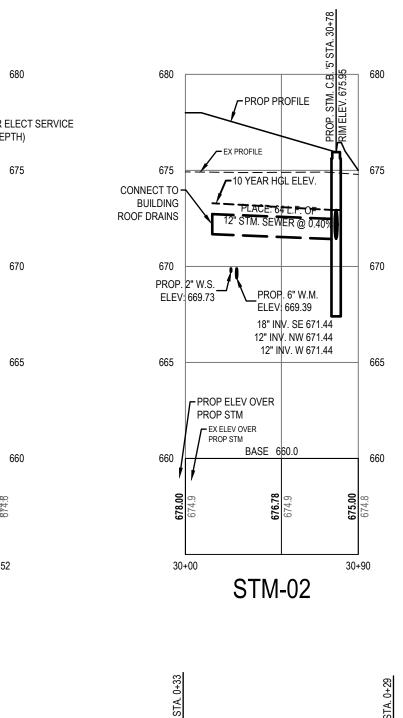
GENERAL

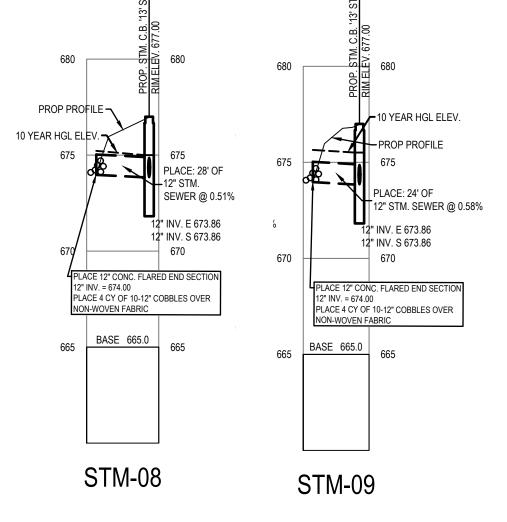
- ALL CONSTRUCTION AND MATERIAL SPECIFICATIONS INCLUDED FOR THIS PROJECT SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF VANBUREN TOWNSHIP.
 ALL PROPOSED UTILITIES WITHIN THE RIGHT-OF-WAY ARE TO BE PLACED UNDER WAYNE COUNTY JURISDICTION.
- SOIL BORINGS ARE BEING PERFORMED BY THE OWNER AND SHALL BE PROVIDED TO THE CONTRACTOR. VARIATION IN EXISTING SOIL CONDITIONS MAY IMPACT THE EARTHWORK QUANTITIES IF UNUSABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING WATER AND SEWAGE
- SYSTEM RESULTING FROM NON-CONFORMANCE WITH THE APPLICABLE STANDARDS OR THROUGH GENERAL NEGLIGENCE.
 ALL WORK, INCLUDING INSPECTIONS AND TESTING COST REQUIRED FOR REMOVAL, RELOCATION OR NEW CONSTRUCTION FOR PRIVATE OR PUBLIC UTILITIES, WILL BE DONE BY AND AT THE EXPENSE OF THE
- CONTRACTOR AND INCLUDED IN THE BID PRICE FOR THE VARIOUS WORK ITEMS UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS FROM THE TOWNSHIP AND COUNTY AND ANY OTHER AGENCY FOR ALL WORK DONE BY THE
- CONTRACTOR.
 ANY DEFECTS IN THE CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE TOWNSHIP OR OWNER WITHOUT ANY ADDITIONAL COST TO THE TOWNSHIP OR OWNER.
- 7. ALL LAWN AREAS REMOVED OR DISTURBED SHALL BE REPLACED WITH TOPSOIL AND SOD WHERE NEEDED AND SHALL BE RESEEDED AND MULCHED IF SATISFACTORY RE-ESTABLISHMENT OF LAWN DOES NOT OCCUR.
- ALL PUNCH LIST AND DEFICIENCY WORK SHALL BE COMPLETED WITHIN 1 MONTH OF THE END OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FROM THE WAYNE COUNTY ROAD COMMISSION BEFORE BEGINNING WORK WITHIN ANY PUBLIC STREET RIGHT-OF-WAY.
 THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES.
 THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC FIELD LAYOUT. DIMENSIONS SHOWN ARE FOR
- GRAPHIC PRESENTATION ONLY AND SHOULD NOT BE USED FOR LAYOUT. CONTACT THE ENGINEER IF ANY DISCREPANCIES BETWEEN THE PLAN AND ELECTRONIC DATA ARE DISCOVERED.
 12. THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTS, BARRICADES, FLAGMEN, ETC. AS REQUIRED TO PERFORM THE REQUIRED WORK. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE SUCH ADDITIONAL TRAFFIC CONTROL DEVICES LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION AS ARE REQUIRED ON THOSE STREETS WHICH ARE USED AS DETOURS, INCLUDING "ROAD CLOSED" SIGNS AND BARRICADES AT THE POINT WHERE THE ROAD IS CLOSED TO THROUGH TRAFFIC.
- THE CONTRACTOR SHALL PROTECT LOCATION OF ALL PROPERTY PINS AND BENCHMARKS.
 ALL WORK CONTEMPLATED SHALL AT ALL TIMES BE SUBJECT TO THE DIRECT INSPECTION OF THE TOWNSHIP, OWNER AND THEIR REPRESENTATIVES. THE TOWNSHIP AND OWNER RESERVES THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
- 15. PRICES BID PER FOOT FOR ALL PIPES IS COMPACTED IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL SIGNS, BARRICADES AND SAFETY FENCES TO DETER PEOPLE FROM ENTERING THE WORK AREA AND FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROLS SHALL BE COORDINATED WITH THE POLICE DEPARTMENT, THE COUNTY, AND THE TOWNSHIP.
 PRIOR TO ANY CONSTRUCTION OR GRADING, A PROTECTIVE BARRIER, FENCE, POST AND/OR SIGNS
- PRIOR TO ANY CONSTRUCTION OR GRADING, A PROTECTIVE BARRIER, FENCE, POST AND/OR SIGNS CLEARLY INDICATING LIMITS OF WORK/DISTURBANCE SHALL BE INSTALLED INDICATING NO TREE REMOVAL OR DISTURBANCES OUTSIDE LIMITS, THE COUNTY, TOWNSHIP, AND OWNER SHALL BE CONTACTED UPON DETERMINATION OF LIMITS IN THE FIELD.
 ALL ROAD SURFACES, EASEMENTS OR RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF
- THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE SATISFACTION OF THE COUNTY, TOWNSHIP, AND THE OWNER.
 19. NO PARKING OF CONTRACTOR OR CONTRACTOR EMPLOYEE'S VEHICLES ON ANY PUBLIC STREETS SHALL BE PERMITTED.
 20. ALL DISTURBED SIGNS, GUARDRAILS, MAIL BOXES, AND DRIVEWAYS SHALL BE REPAIRED OR REPLACED AS
- DIRECTED BY THE COUNTY, TOWNSHIP, AND THE OWNER.
 DUST CONTROL: THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL ORDINANCES OF THE TOWNSHIP, COUNTY, MDEQ OR ANY OTHER GOVERNING AUTHORITY.
- ALL SEWERS, MANHOLES, JUNCTION CHAMBERS AND INLET BASINS MUST BE CLEANED BEFORE ACCEPTANCE BY THE TOWNSHIP AND OWNER.
 IF MUD, SOIL OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AT THE END OF EACH WORK DAY OR
- AS REQUIRED DURING THE WORK DAY.
 24. ADJUST TO GRADE OR RECONSTRUCT TO GRADE WORK SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF ANY EXISTING CONCRETE BLOCKOUT PAVEMENT. DAMAGED PAVEMENT DOWELS OR OTHER SUCH LOAD TRANSFERS DEVICES SHALL BE REPLACED AS DIRECTED BY THE COUNTY AND THE
- ENGINEER.
 25. ALL EXISTING CASTINGS FOR STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED TO GRADE SHALL BE FIELD CHECKED AT THE TIME OF CONSTRUCTION AND MARKED SUITABLE FOR SALVAGE AND REUSE OR REPLACED.
- 26. COMPACTED PREMIUM BACKFILL (MDOT CLASS II SAND) WILL BE REQUIRED AT ALL FILL AREAS OR ANY STREETS WHERE REMOVAL AND REPLACEMENT OF PAVEMENT IS REQUIRED AND FOR ALL UNDERGROUND CONSTRUCTION UNDER ANY DRIVEWAY OR PAVEMENT INCLUDING THE 45 DEGREE ANGLE OF INFLUENCE FROM THE OUTSIDE EDGE OF PAVEMENT OR TOP OF CURB. COMPACTION TESTS SHALL BE REQUIRED EVERY 50 FEET UNDER PAVEMENT. PAVEMENT INCLUDES, BUT NOT LIMITED TO, ROADWAY SURFACES, SIDEWALKS, BIKE WAYS, DRIVEWAYS, SHOULDERS, BUILDINGS, ETC.
- NO BUILDING MATERIAL, EQUIPMENT, VEHICLES OR CHEMICALS SHALL BE STORED OR PLACED OUTSIDE LIMITS OF WORK/DISTURBANCE.
 STORMWATER POLLUTION PREVENTION ITEMS SHALL BE IN PLACE PRIOR TO COMMENCING CLEARING OPERATIONS FARTLINGORY OF ANY OTHER TYPE OF CONSTRUCTION ACTIVITY.
- OPERATIONS, EARTHWORK GRADING, OR ANY OTHER TYPE OF CONSTRUCTION ACTIVITY.
 29. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
 30. CONSTRUCTION NOISE SHALL BE KEPT TO A MINIMUM DURING NIGHTTIME HOURS AND MUST COMPLY
- WITH MUNICIPAL CODE REQUIREMENTS.
- 31. ALL TREES AND VEGETATION WITHIN THE GRADING LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.

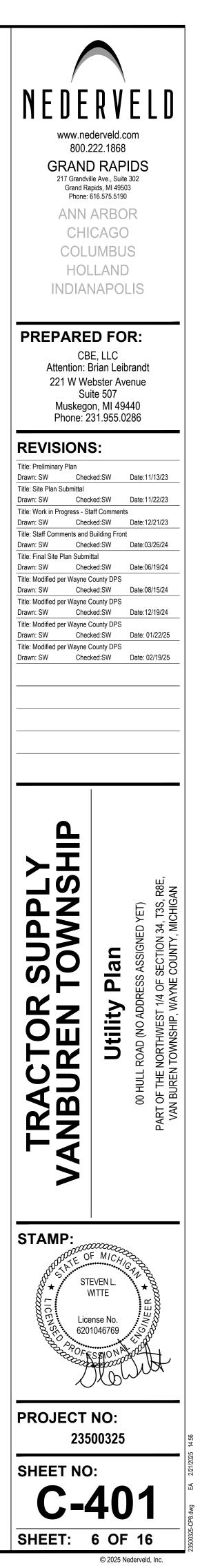
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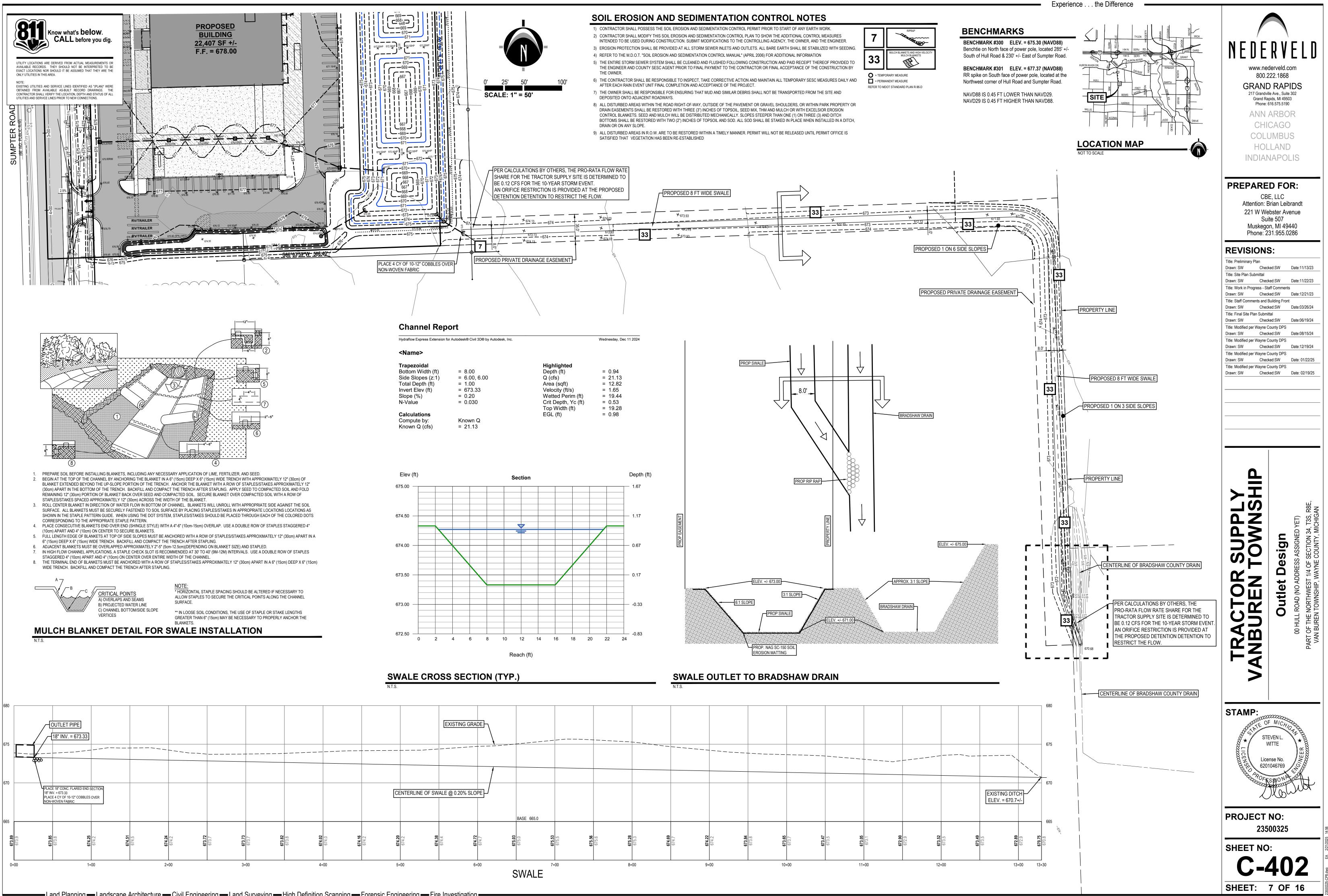


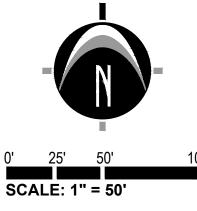


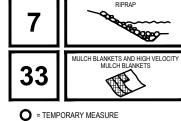


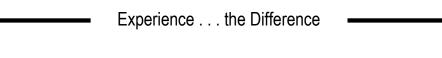


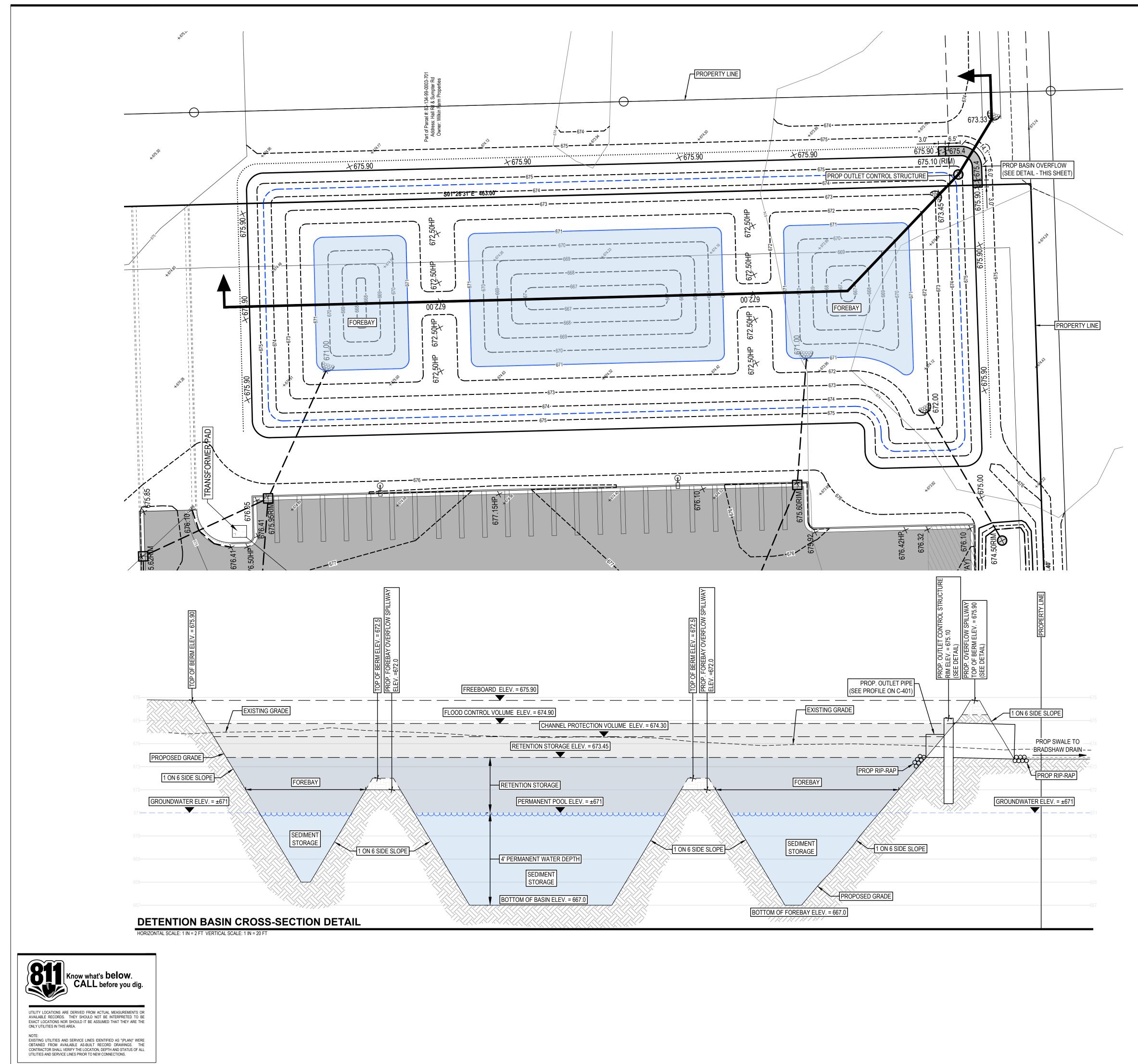


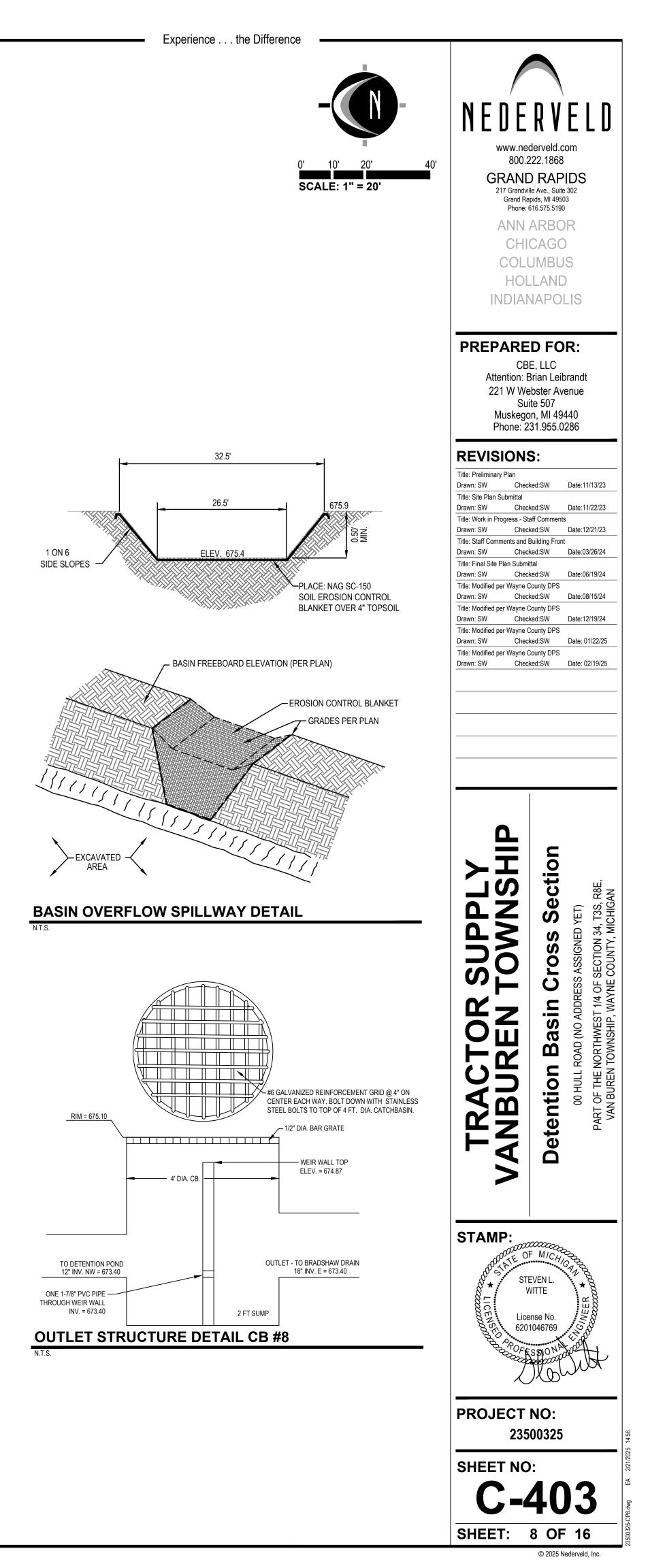


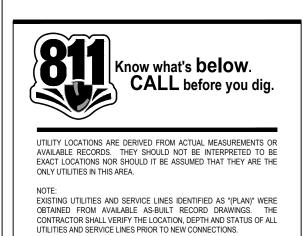












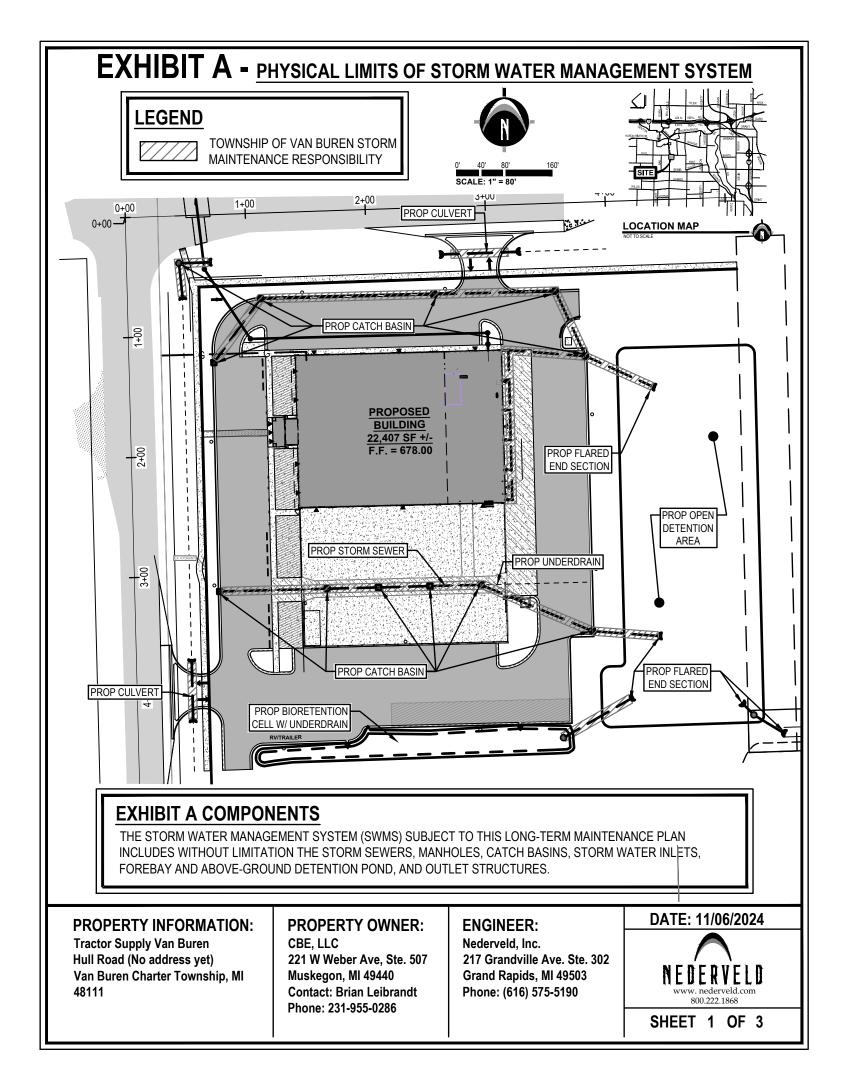


EXHIBIT A - PHYSICAL LIMITS OF STORM WATER MANAGEMENT SYSTEM

PROPERTY DESCRIPTION (TAX ID: XXXX) LAND IN THE TOWNSHIP OF VAN BUREN, WAYNE COUNTY, MI, DESCRIBED AS FOLLOWS:

A PARCEL OF LAND LOCATED IN AND BEING A PART OF THE NORTHWEST 1/4 OF SECTION 34, TOWN 3 SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN, AND BEING MORE PARTICULARLY DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF SECTION 34 AND PROCEEDING THENCE NORTH 88 DEGREES 40 MINUTES 46 SECONDS EAST, 1304.78 FEET (PREVIOUSLY RECORDED AS SOUTH 89 DEGREES 35 MINUTES 00 SECONDS EAST, 1304.68 FEET), ALONG THE NORTH LINE OF SAID SECTION 34 AND CENTERLINE OF HULL ROAD (33 FEET WIDE, 1/2 WIDTH); THENCE SOUTH 01 DEGREE 20 MINUTES 22 SECONDS EAST, 881.90 FEET (PREVIOUSLY RECORDED AS SOUTH 00 DEGREES 23 MINUTES 52 SECONDS WEST); THENCE NORTH 88 DEGREES 40 MINUTES 46 SECONDS EAST, 656.28 FEET (PREVIOUSLY RECORDED AS SOUTH 89 DEGREES 35 MINUTES 00 SECONDS EAST, 656.27 FEET); THENCE SOUTH 01 DEGREE 35 MINUTES 41 SECONDS EAST, 1762.35 FEET (PREVIOUSLY RECORDED AS SOUTH 00 DEGREES 08 MINUTES 33 SECONDS WEST 1782.16 FEET), TO A POINT ON THE EAST-WEST 1/4 LINE OF SAID SECTION 34; THENCE ALONG THE EAST-WEST 1/4 LINE OF SAID SECTION 34, SOUTH 88 DEGREES 48 MINUTES 43 SECONDS WEST, 664.44 FEET (PREVIOUSLY RECORDED AS NORTH 89 DEGREES 29 MINUTES 12 SECONDS WEST,

664.21 FEET); THENCE NORTH 01 DEGREE 20 MINUTES 09 SECONDS WEST, 1331.54 FEET (PREVIOUSLY RECORDED AS NORTH 00 DEGREES 23 MINUTES 52 SECONDS EAST, 1331.46 FEET); THENCE SOUTH 88 DEGREES 43 MINUTES 46 SECONDS WEST, 1316.50 FEET, (PREVIOUSLY RECORDED AS NORTH 89 DEGREES 32 MINUTES 04 SECONDS WEST 1316.55 FEET), ALONG THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 34; THENCE NORTH 00 DEGREES 49 MINUTES 44 SECONDS WEST, 1330.44 FEET, (PREVIOUSLY RECORDED AS NORTH 00 DEGREES 54 MINUTES 31 SECONDS EAST, 1330.38 ALONG THE WEST LINE OF SECTION 34 AND CENTERLINE OF SUMPTER ROAD (33 FEET WIDE, 1/2 WIDTH) TO THE

NORTHWEST CORNER OF SAID SECTION 34 AND POINT OF BEGINNING.

LESS AND EXCEPT:

A PARCEL OF LAND LOCATED IN AND BEING A PART OF THE NORTHWEST 1/4 OF SECTION 34, TOWN 3 SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN, AND BEING MORE PARTICULARLY DESCRIBED AS: BEGINNING NORTH 89 DEGREES 35 MINUTES 00 SECONDS WEST, 1304.69 FEET AND SOUTH 00 DEGREES 23 MINUTES 52 SECONDS WEST, 881.90 FEET FROM THE NORTH 1/4 CORNER OF SAID SECTION 34; THENCE SOUTH 00 DEGREES 23 MINUTES 52 SECONDS WEST, 1781.02 FEET; THENCE SOUTH 89 DEGREES 29 MINUTES 12 SECONDS EAST, 664.21 FEET; THENCE NORTH 00 DEGREES 08 MINUTES 33 SECONDS EAST, 1782.16 FEET; THENCE NORTH 89 DEGREES 35 MINUTES 00 SECONDS WEST, 656.27 FEET TO THE POINT OF BEGINNING.

| | | | DATE: 11/06/2024 |
|---|--|---|--|
| PROPERTY INFORMATION: | PROPERTY OWNER: | ENGINEER: | |
| Tractor Supply Van Buren | CBE, LLC | Nederveld, Inc. | |
| Hull Road (No address yet) Van Buren Charter Township, MI 48111 | 221 W Weber Ave, Ste. 507 Muskegon, MI 49440 Contact: Brian Leibrandt Phone: 231-955-0286 | 217 Grandville Ave. Ste. 302 Grand Rapids, MI 49503 Phone: (616) 575-5190 | NEDERVELD www.nederveld.com 800.222.1868 |
| | Phone. 251-955-0200 | | SHEET 1 OF 3 |

A. Physical Limits of the Storm Water Management System The storm water management system (SWMS) subject to this long-term maintenance plan (Plan) is depicted on Exhibit A to the permit and includes without limitation the storm sewers, catch basins, referred to as "TS Van Buren SWMS".

B. Time Frame for Long-Term Maintenance Responsibility Tractor Supply is responsible for maintaining the TS Van Buren SWMS, including complying with applicable requirements of the local or Wayne County soil erosion and sedimentation control program until Wayne County releases the construction permit. Long-term maintenance responsibility for the TS Van Buren SWMS commences when defined by the maintenance permit issued by the County. Long-term maintenance continues in perpetuity.

C. Manner of Insuring Maintenance Responsibility The Township of Van Buren has assumed responsibility for long-term maintenance of the TS Van Buren SWMS. The resolution by which the Township of Van Buren has assumed maintenance responsibility is attached to the permit as Exhibit C. MCWS, through a maintenance agreement with the Township of Van Buren, has agreed to perform the maintenance activities required by this plan. The Township of Van Buren retains the right to enter the property and perform the necessary maintenance of the TS Van Buren SWMS if the Township of Van Buren fails to perform the required maintenance activities. To ensure that the TS Van Buren SWMS is maintained in perpetuity, the map of the physical limits of the storm water management system (Exhibit A), this plan (Exhibit B), the resolution attached as Exhibit C, and the maintenance agreement between the Township of Van Buren and the property owner(s) will be recorded with the Wayne County Register of Deeds. Upon recording, a copy of the recorded documents will be provided to the County.

D. Long-Term Maintenance Plan and Schedule

functions properly as designed.

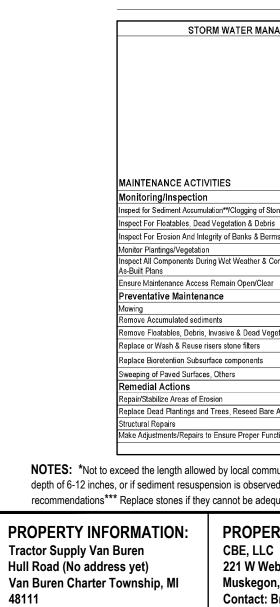


EXHIBIT B - STORM WATER MANAGEMENT SYSTEM LONG-TERM MAINTENANCE PLAN

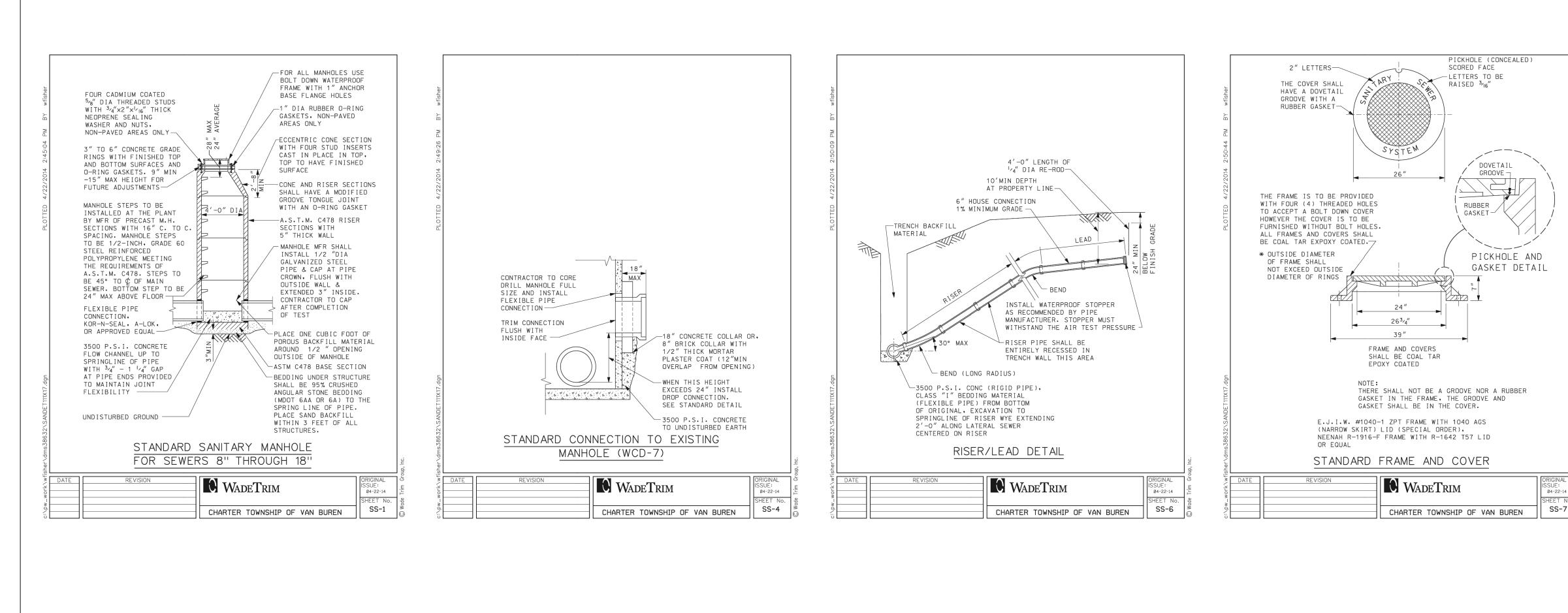
manholes, inlets, swales, buffer strip, spillways, mechanical and open forebays, underground and open detention basins, outlet control structure and outlet pipe that conveys flow from the detention basins to the Wayne County storm sewer system North of the Site. For the purposes of this plan, this storm water management system (SWMS) and all of its components as shown in Exhibit A is

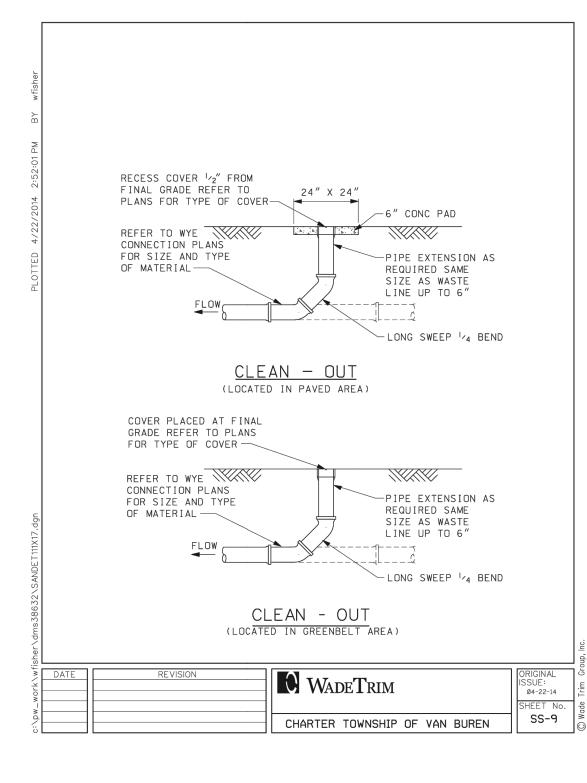
Table 1 identifies the maintenance activities to be performed, organized by category (monitoring/inspections, preventative maintenance and remedial actions). While performing maintenance, chemicals should not be applied to the forebay, detention basin, buffer strip, or watercourses. Table 1 also identifies site-specific work needed to ensure that the storm water management system

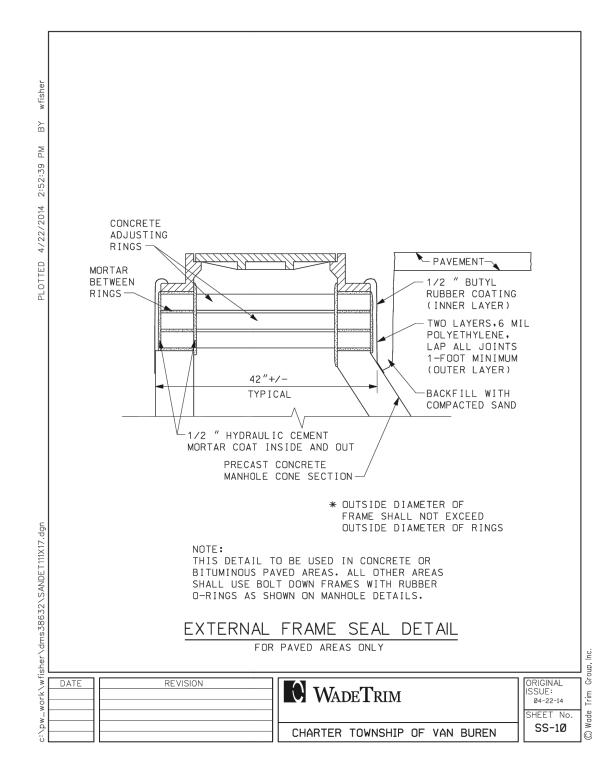
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|---|-------------------|---|----------------------------|-------------------------------------|--|------------------------------|---------------------|------------------------|--|------------|--|
| M WATER MANAGE | MEN | T SYSTEM | LO | NG-T | ERM | MAIN | ITEN | ANC | E SCHEDULE | | |
| TIES | SYSTEM COMPONENTS | Storm Coll action System (Intets, Catch Basins, Manholes, Swales, Sewers) | Mechanical & Open Forebays | Underground & Open Detention Basins | Outlet Control Structures & Outlet Pipes | Bioretentions, Buffer Strips | Spill ways, Ripraps | Pavement Areas, Others | FREQUENCY | | |
| | | | | | | | | | · · | | |
| tion**/Clogging of Stone Fil | ter | X | X | Х | X | V | | | Annually | | |
| Vegetation & Debris | | X X | X | X | X | X | х | | Annually & After Major Eve | | |
| rity of Banks & Berms | | ^ | X | X X | X | X X | ^ | | Annually & After Major Eve 2 Times per Year | nts | |
| g Wet Weather & Compa | re to | Х | X | X | х | X | Х | | Annually | | |
| Remain Open/Clear | | Х | Х | Х | Х | Х | Х | | Annually | | |
| ice | | | - | | | | | | | | |
| | | | Х | Х | | Х | | | As Needed, select areas or | nly* | |
| ints | | <u>X</u> | X | Х | X | | | | As Needed** | | |
| nvasive & Dead Vegetation | n | Х | X | X | X | Х | | | As Needed | 1444 | |
| ers stone filters | | | Х | Х | | | | | Every 3 years, or as neede | | |
| ace components | | | | | | Х | | | Every 5 years/If water pond | ls>6 hours | |
| Others | | | | | | | | Х | As Needed | | |
| sion | | Х | X | Х | | Х | Х | | As Needed | | |
| Trees, Reseed Bare Areas | 3 | | X | X | | X | ~ | | As Needed | | |
| | | Х | X | Х | Х | X | | | As Needed | | |
| Ensure Proper Functionin | ıg | Х | Х | Х | Х | Х | Х | | As Needed | | |
| nsion is observed. S cannot be adequate | imilar Iy cle | ly, clean N aned. | /lech | | al Fo El | rebay | ys an | d un | | ystems per | |
| CBE, LLC 221 W Weber Muskegon, M Contact: Bria Phone: 231-9 | l 494 n Le | 140 eibrandt |)7 | | 21 Gr | and | ranc Raj | lvill pids | c. e Ave. Ste. 302 s, MI 49503 575-5190 | SH | WEDERVELD www.nederveld.com 800.222.1868 |
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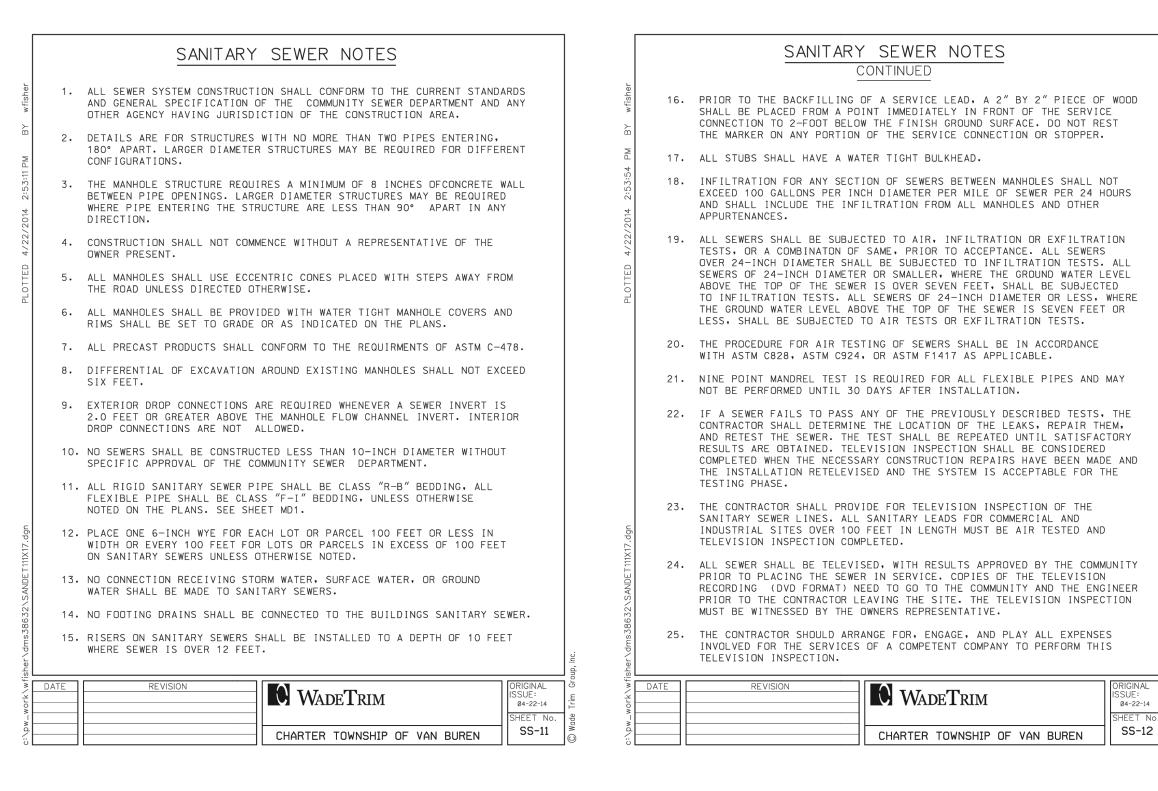
| GRANC 217 Grandvill Grand Ra Phone: 6 ANN A CHIO COLU HOL INDIAN PREPARE CBI Attention: E 221 W We Sui Muskego Phone: 23 REVISIONS Title: Preliminary Plan Drawn: SW Check Title: Site Plan Submittal Drawn: SW Check Title: Site Plan Submittal Drawn: SW Check Title: Staff Comments and E Drawn: SW Check Title: Final Site Plan Submit Drawn: SW Check Title: Final Site Plan Submit Drawn: SW Check Title: Modified per Wayne C Drawn: SW Check Title: Modified per Wayne C | derveld.c 22.1868 D RAP le Ave., Suite pids, MI 4950 516.575.5190 ARBO CAGC JMBU LAND LAND LAND D FO E , LLC Brian Leik bster Ave te 507 n, MI 494 31.955.0 E : ded:SW | om IDS 302 3 R S S IS R: prandt enue 440 286 Date:11 Date:11 Date:12 Date:00 Date:00 Date:00 Date:01 Date:01 Date:12 | 1/13/23 1/22/23 2/21/23 3/26/24 5/19/24 3/15/24 |
|---|---|--|--|
| TRACTOR SUPPLY VANBUREN TOWNSHIP | Storm Sewer Maintenance Exhibits | 00 HULL ROAD (NO ADDRESS ASSIGNED YET) | PART OF THE NORTHWEST 1/4 OF SECTION 34, T3S, R8E, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN |
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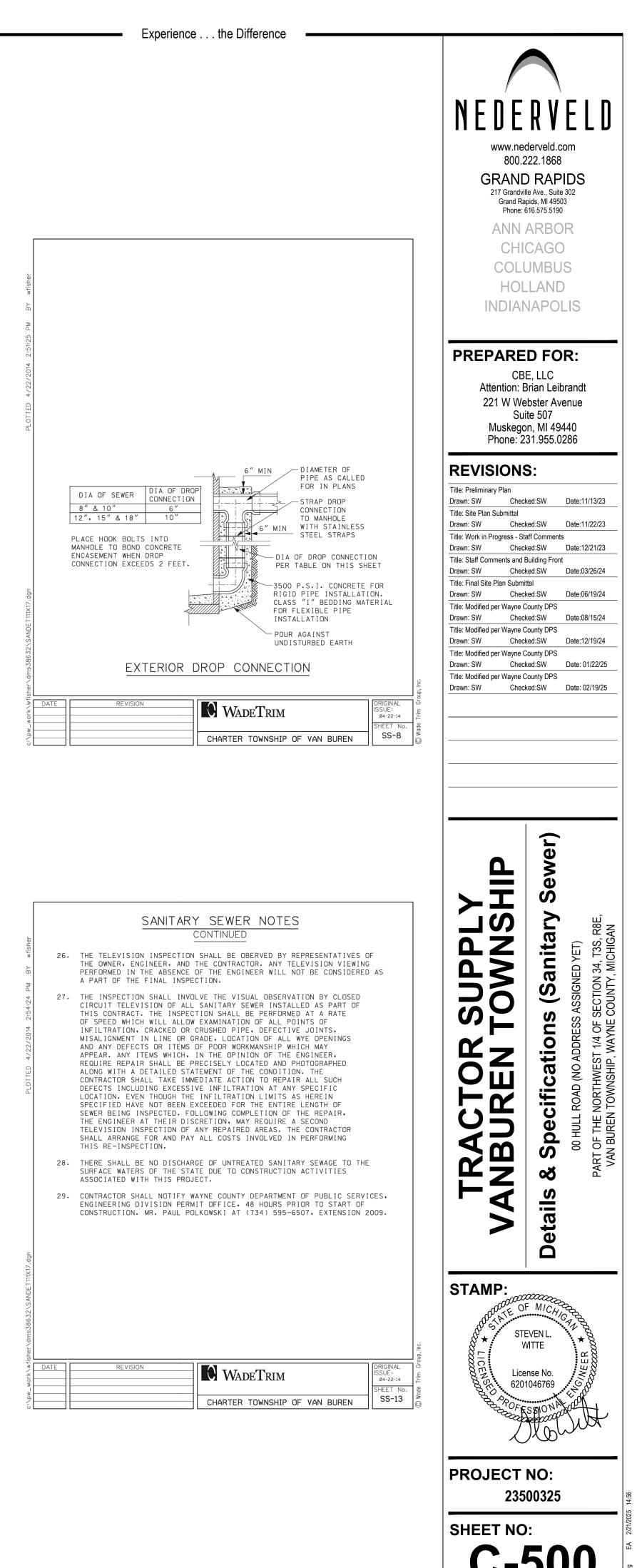
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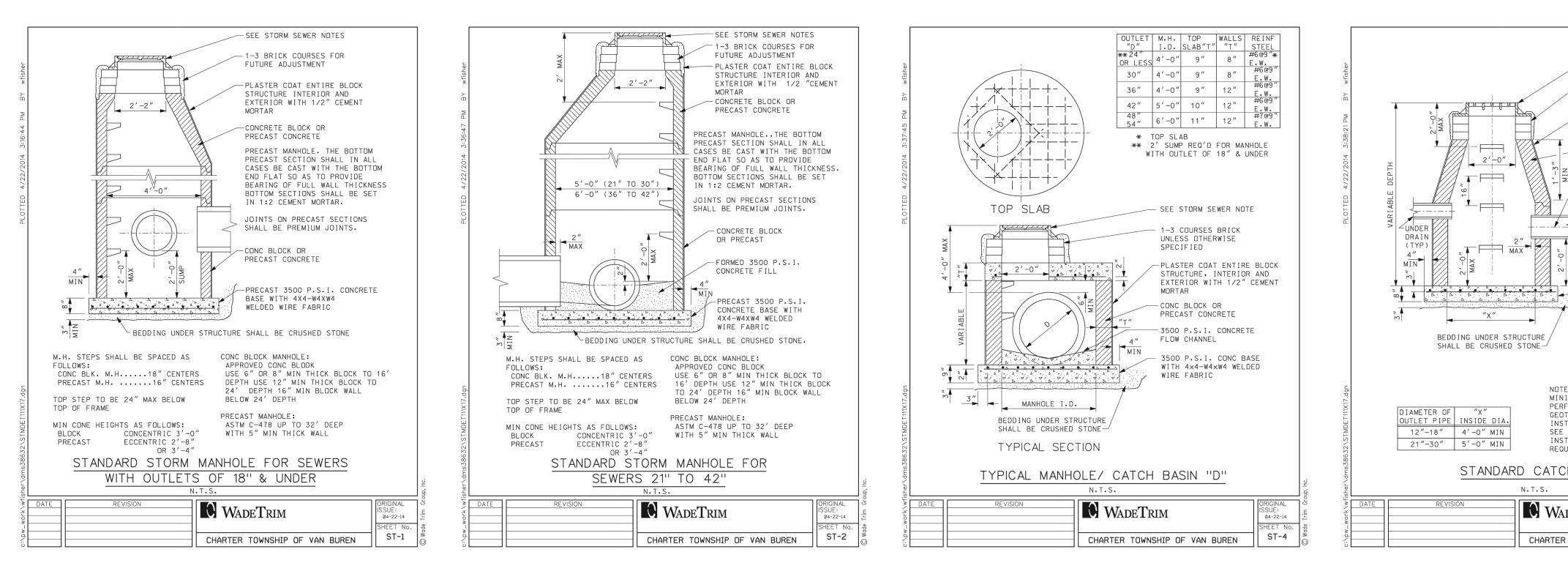
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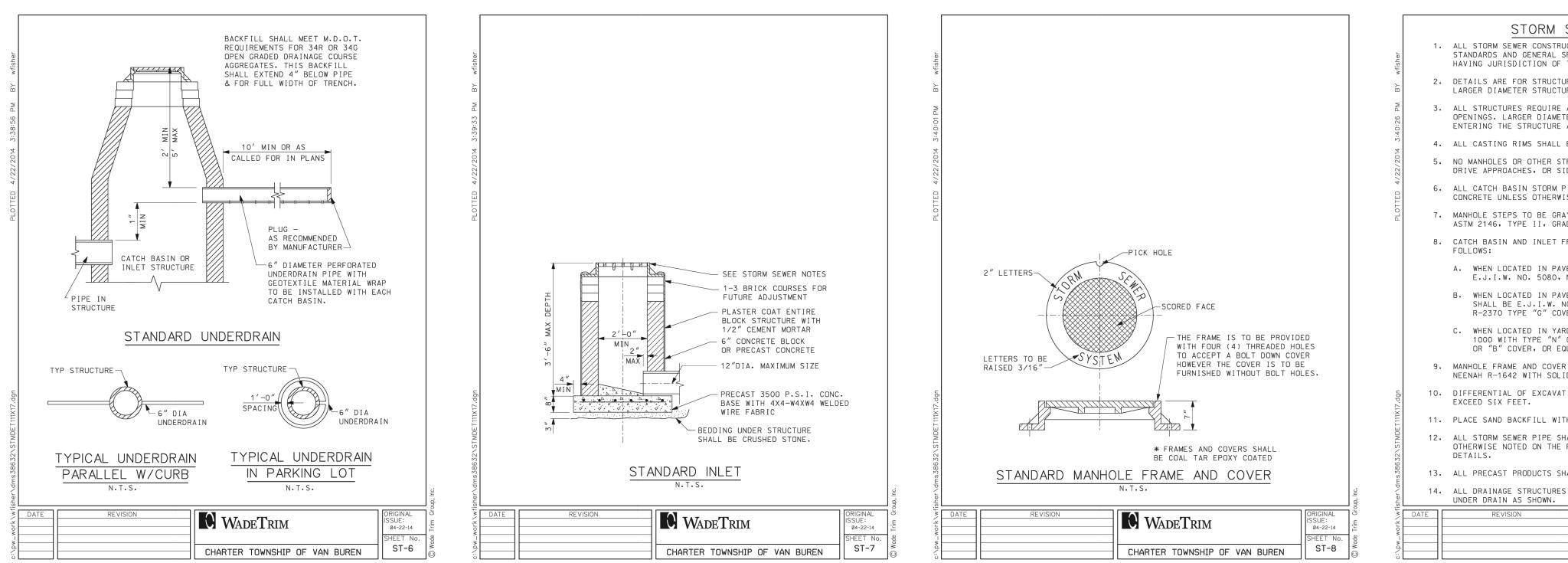
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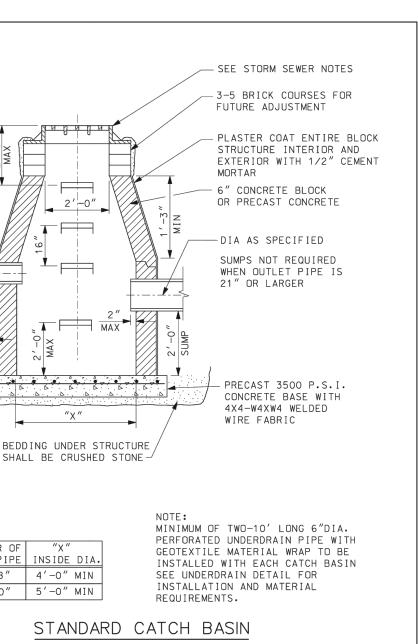
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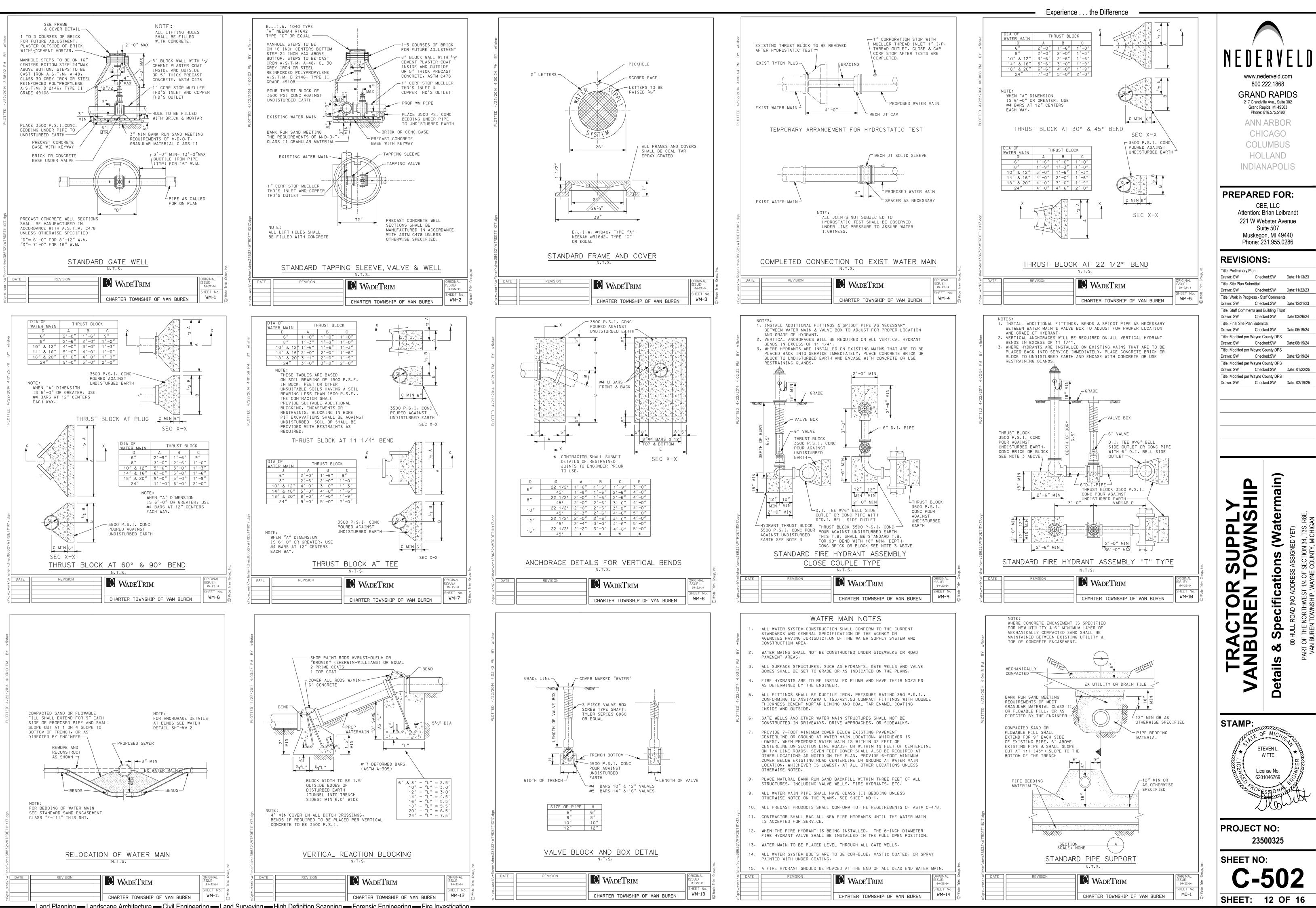


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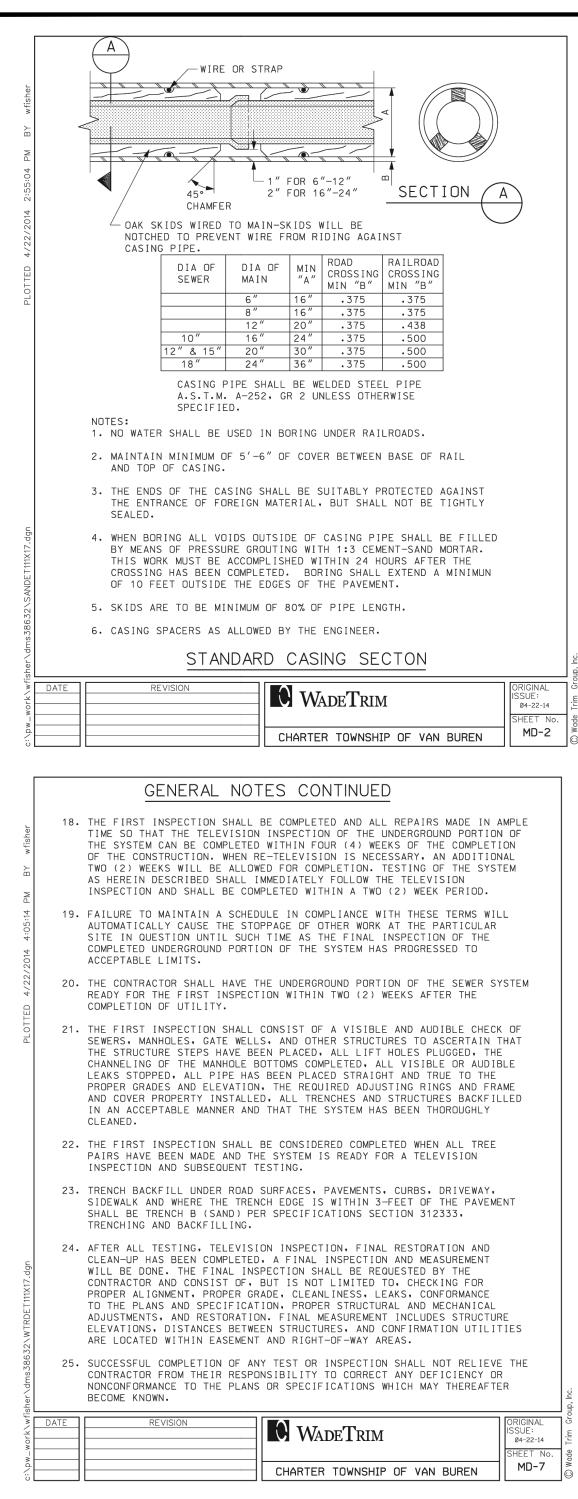
STORM SEWER NOTES

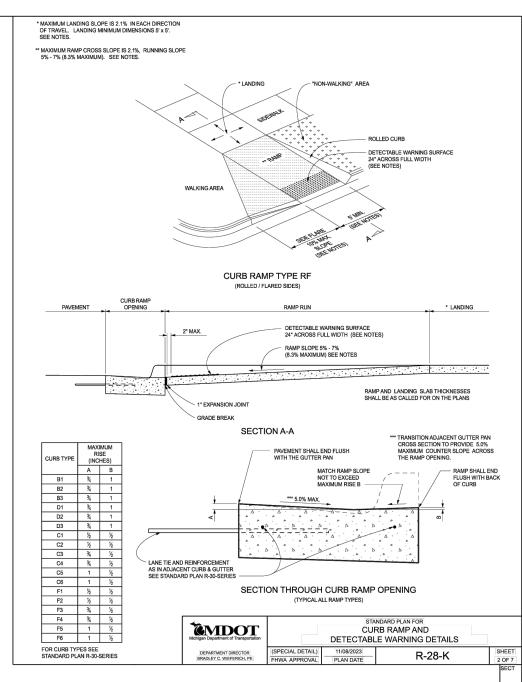
| UCTION SHALL CONFORM TO THE CURRENT SPECIFICATION OF THE AGENCY OR AGENCIES THE STORM SEWER AND CONSTRUCTION AREA. |
|--|
| URES WITH NO MORE THAN TWO PIPES, 180° APART. URES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS |
| A MINIMUM OF 8-INCHES OF WALL BETWEEN PIPE TER STRUCTURES MAY BE REQUIRED WHERE PIPE ARE LESS THAN 90° APART IN ANY DIRECTION. |
| BE SET TO GRADE OR AS SHOWN ON THE PLANS. |
| TRUCTURES MAY BE INSTALLED WITHIN DRIVEWAYS, IDEWALKS. |
| PIPE SHALL BE 12-INCH DIAMETER C76, CL-IV ISE NOTED. |
| AY IRON OR STEEL REINFORCED POLYPROPYLENE ADE 49108. |
| FRAME AND COVERS SHALL BE SPECIFIED AS |
| VEMENT GUTTER LINE, FRAME AND COVER SHALL BE NEENAH R-3448-C TYPE "A" (RECTANGULAR), OR EQUIV |
| VED AREAS OTHER THAN GUTTER LINE, FRAME NO. 1040 WITH TYPE "M1" COVER, NEENAH VER, OR EQUIV. |
| RD AREAS, FRAMES SHALL BE E.J.I.W. NO. OR "M" COVER, NEENAH R-2370 TYPE "D" QUIV. |
| R SHALL BE E.J.I.W. ND. 1040 OR ID COVER OR EQUAL. |
| TION AROUND EXISTING MANHOLES SHALL NOT |
| THIN THREE FEET OF ALL STRUCTURES. |
| HALL HAVE CLASS "R-B" BEDDING UNLESS PLANS. SEE SHEET MD1 FOR BEDDING |
| HALL CONFORM TO THE REQUIREMENTS OF ASTM C-478. |
| S LOCATED WITHIN PAVEMENT MUST HAVE |
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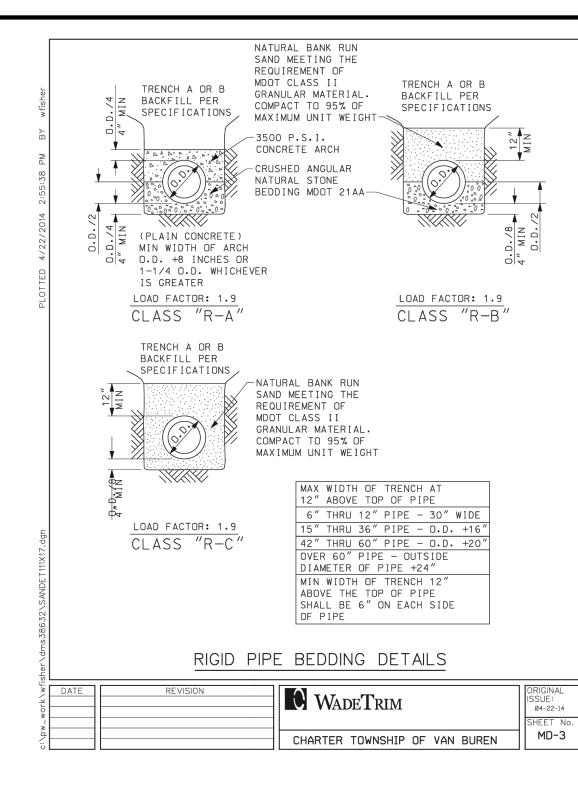
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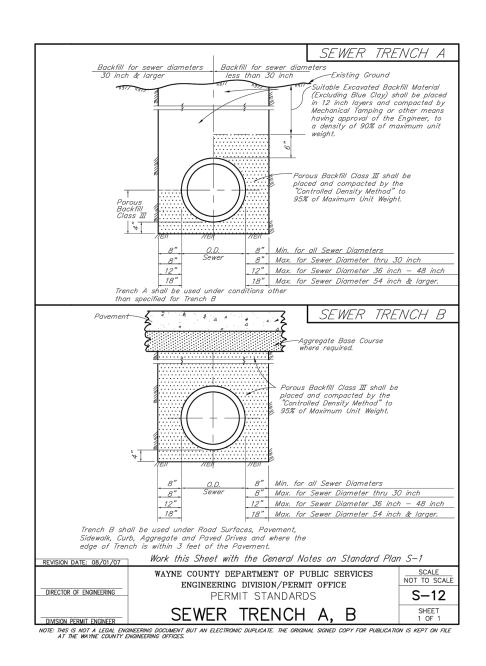


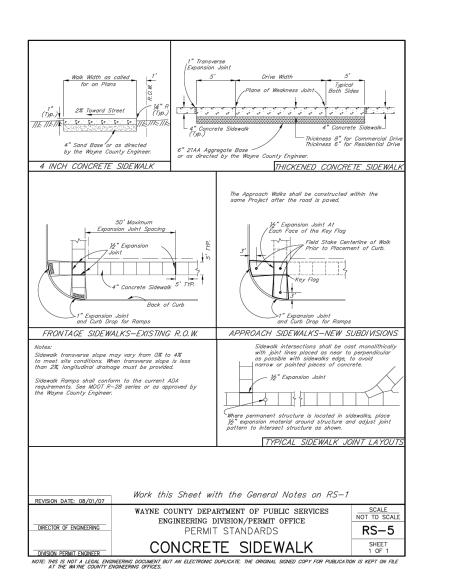
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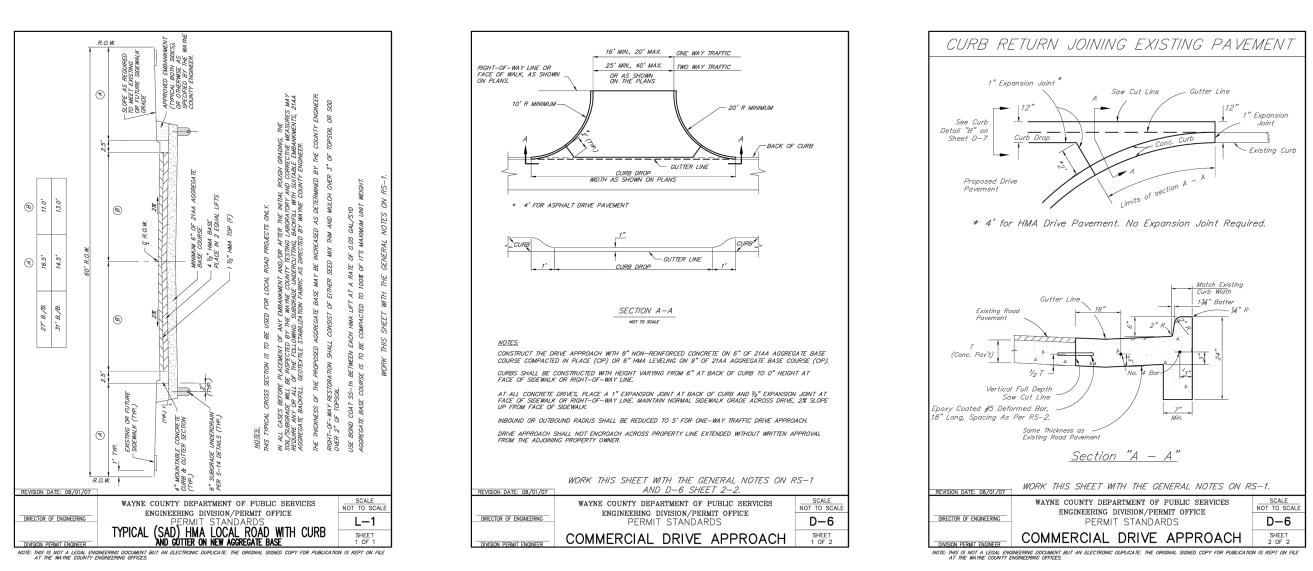


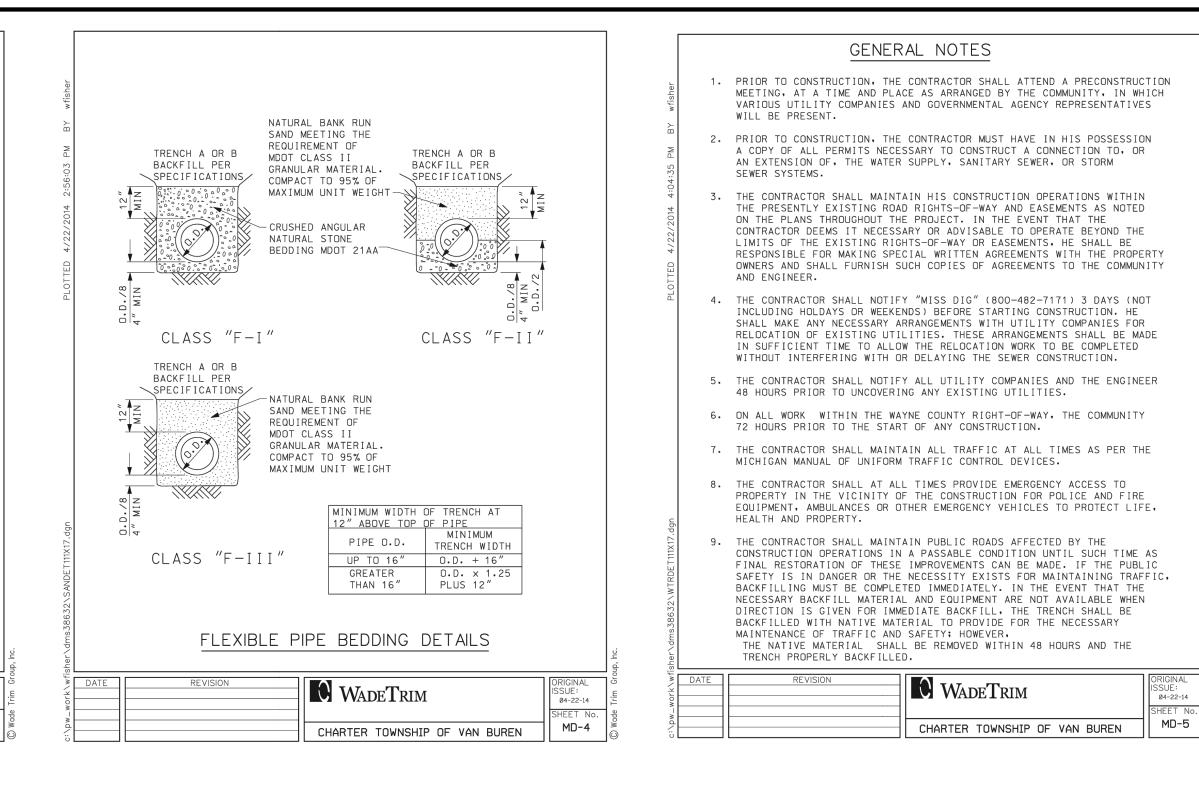


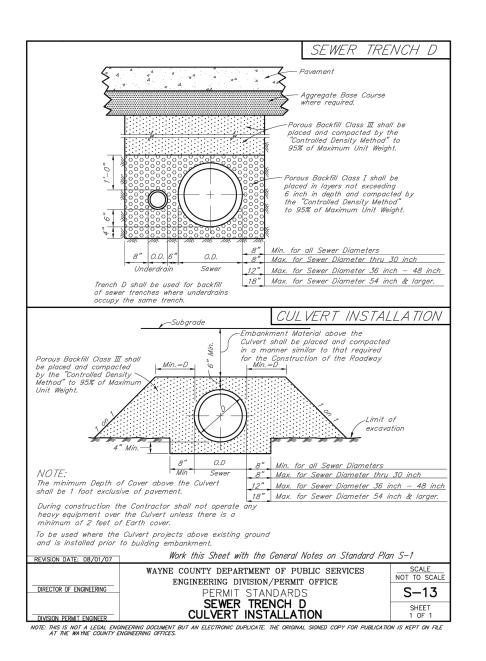


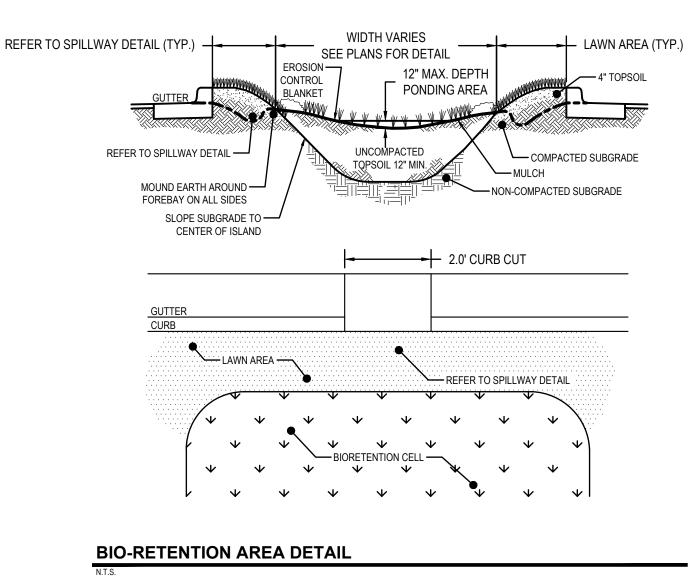


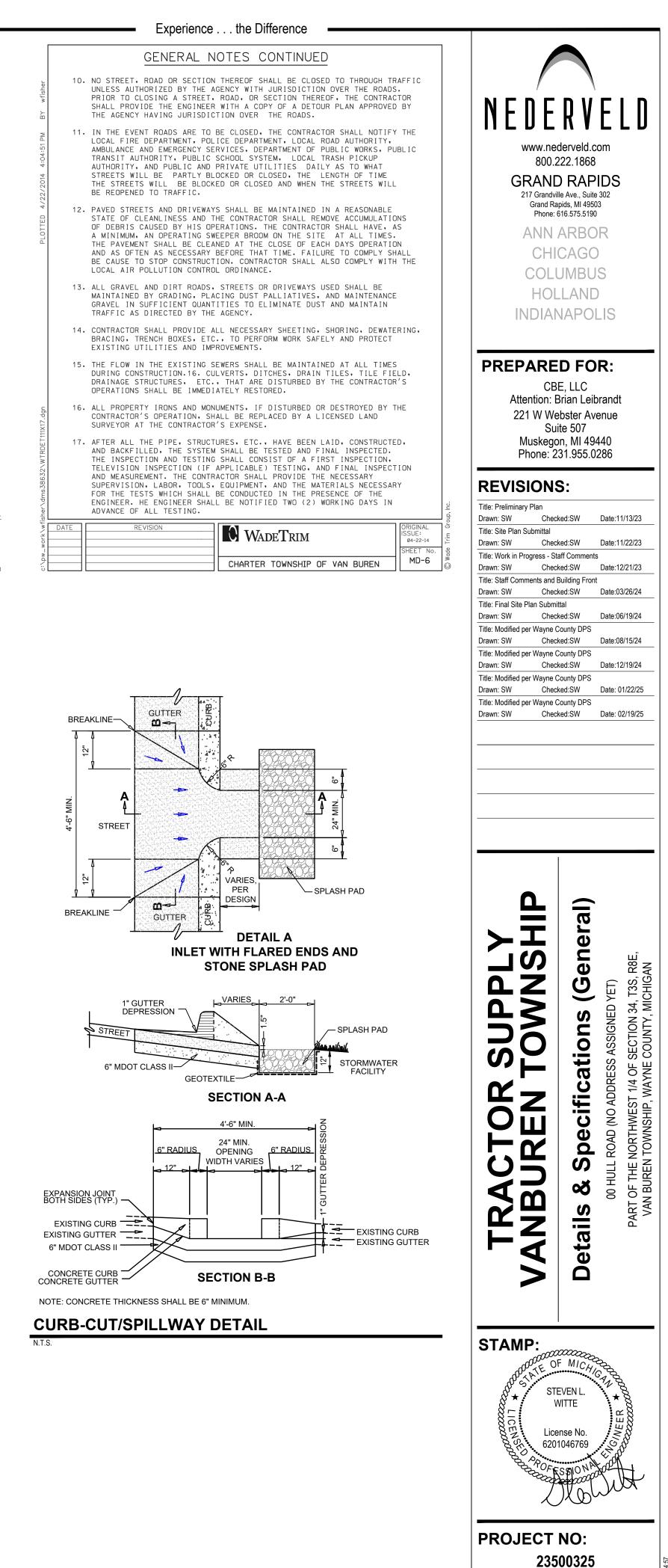






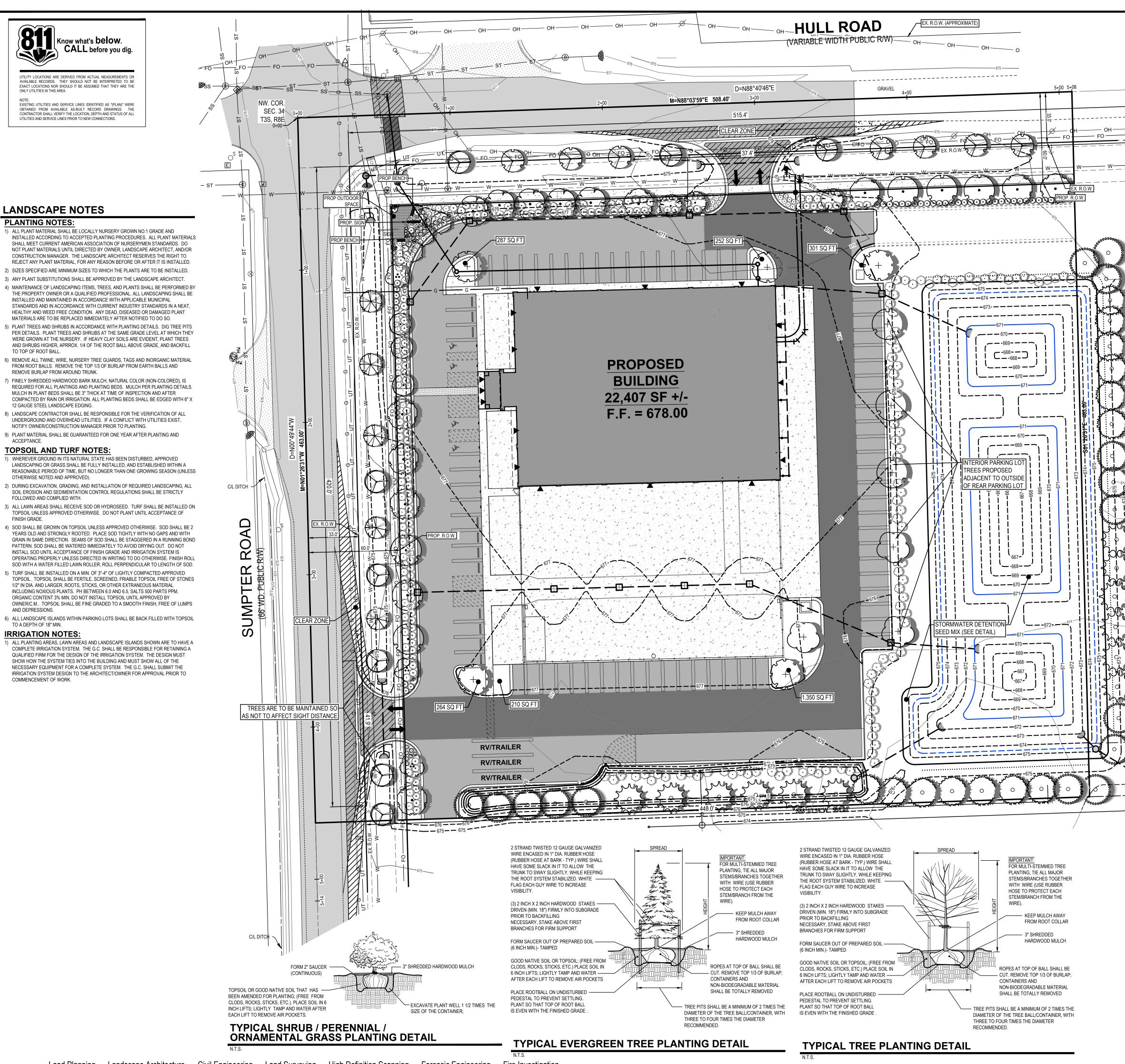






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SHEET: 13 OF 16



LANDSCAPE CALCULATIONS

REQUIRED LANDSCAPING: PROPOSED LANDSCAPING:

FRONTAGE LANDSCAPING: 1 DECIDUOUS OR EVERGREEN TREE PER 40 FT OF FRONTAGE • 1 ORNAMENTAL TREE PER 100 FT OF

FRONTAGE • 8 SHRUBS PER 40 FT OF FRONTAGE

420' - 40' (ACCESS DRIVE) = 380/100 = 3.8 HULL RD FRONTAGE: 515' - 40' (ACCESS DRIVE) = 475/40 = 11.8 515' - 40' (ACCESS DRIVE) = 475/100 = 4.75

FRONTAGE LANDSCAPING:

SUMPTER RD REQUIRED: 10 TREES, 4 ORNAMENTAL TREES, 76 SHRUBS PROPOSED: 10 TREES, 4 ORNAMENTAL TREES, 76 SHRUBS

SUMPTER RD FRONTAGE: 420' - 40' (ACCESS DRIVE) = 380/40= 9.5

- HULL RD
- REQUIRED: 12 TREES, 5 ORNAMENTAL TREES, 95 SHRUBS PROPOSED: 12 TREES, 5 ORNAMENTAL TREES, 95 SHRUBS PARKING LOT LANDSCAPING
- 5' WIDE LANDSCAPE YARD WITH 3' HEDGE INTERIOR LANDSCAPING SHALL ACCOUNT FOR
- 5% OF ALL PAVED PARKING AREAS. • 1 TREE FOR EVERY 300 SQ. FT. REQUIRED
- INTERIOR LANDSCAPING

PARKING LOT LANDSCAPING:

LOTS FRONTING A PUBLIC R.O.W. 65,271 SQ. FT. PAVED PARKING AREAS X 0.05 = 3,264 / 300 = 10.88 REQUIRED INTERIOR PARKING TREES: 11 PROPOSED INTERIOR PARKING TREES: 11

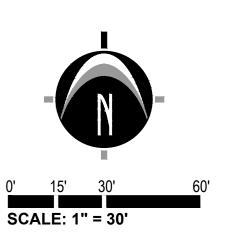
• AN EVERGREEN HEDGE IS PROVIDED ALONG ALL PARKING

PLANT SCHEDULE

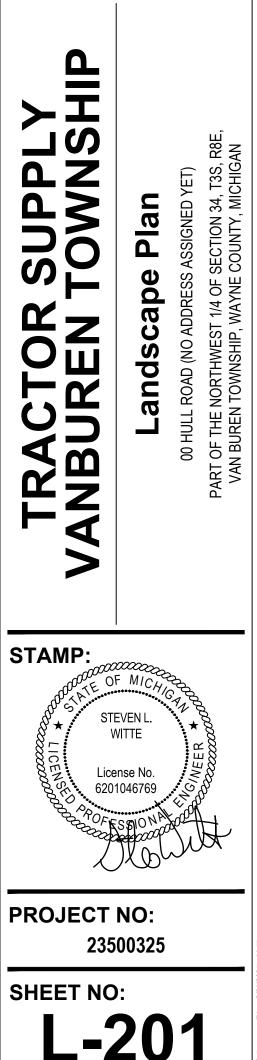
| SYMBOL | CODE | <u>QTY</u> | BOTANICAL NAME | COMMON NAME | SIZE |
|--|--------------|------------|---|--|--------------------|
| | Ac (B) | 12 | Abies concolor | White Fir | 8` hgt.min. |
| | Ag (F) | 3 | Amelanchier x grandiflora 'Autumn Brilliance' multi-stem | Autumn Brilliance Apple Serviceberry | 6` hgt. min. |
| | Ca (F) | 3 | Carpinus caroliniana | American Hornbeam | 2" cal. min. |
| | Cf (S) | 5 | Cornus florida | Flowering Dogwood | 2" cal. min. |
| | Co (F) | 6 | Celtis occidentalis | Common Hackberry | 3" cal. min. |
| | Cv (F) | 3 | Crataegus viridis 'Winter King' | Winter King Hawthorn | 2" cal. min. |
| | Ls (P) | 3 | Liquidambar styraciflua | Sweet Gum | 3" cal. min. |
| + | Lt (P) | 3 | Liriodendron tulipifera | Tulip Poplar | 3" cal. min. |
| | Ma (S) | 7 | Maackia amurensis | Amur Maackia | 2" cal. min. |
| \bigcirc | Mr (S) | 8 | Malus x 'JFS-KW5' | Royal Raindrops® Crabapple | 2" cal. min. |
| | Ns (F) | 5 | Nyssa sylvatica | Tupelo | 3" cal. min. |
| o o o o o o o o o o o o o o | Pb (B) | 13 | Picea glauca densata | Black Hills Spruce | 8` hgt.min. |
| 00000000000000000000000000000000000000 | Ps (B) | 15 | Pinus strobus | White Pine | 8` hgt.min. |
| | Qb (F) | 8 | Quercus bicolor | Swamp White Oak | 3" cal. min. |
| \odot | Tb (F) | 3 | Tilia americana 'Boulevard' | Boulevard American Linden | 3" cal. min. |
| | Zg (P) | 5 | Zelkova serrata 'Green Vase' | Green Vase Japanese Zelkova | 3" cal. min. |
| | Ap (F) | 39 | Aronia melanocarpa 'SMNAMPEM' | Low Scape Snowfire™ Black Chokeberry | 36"min. |
| 0 | Ар (F) Bs | 39 45 | Baptisia x 'Solar Flare' | Solar Flare Prairieblues™ False Indigo | 36°min. 2 gal. |
| Õ | Cb | 36 | Cornus sericea 'Baileyi' | Bayley's Red Twig Dogwood | 18" min. |
| $\tilde{\mathbf{\cdot}}$ | Cf | 13 | Cornus sericea 'Flaviramea' | Yellow Twig Dogwood | 18" min. |
| Ŏ | Cf (F) | 19 | Cornus stolonifera 'Farrow' | Arctic Fire® Red Twig Dogwood | 18" min. |
| \odot | Cr | 48 | Cornus racemosa 'Hurzam' | Huron Gray Dogwood | 18" min. |
| \odot | Dn (F) Ew | 20 8 | Deutzia gracilis 'Nikko' Echinacea purpurea 'PAS702917' | Nikko Deutzia PowWow® Wild Berry Coneflower | 18" min. 1 gal. |
| (+) | EW Jo (P) | 8 97 | Juniperus virginiana 'Grey Owl' | Grey Owl Eastern Redcedar | 1 gai. 18" min. |
| | | 6 | Liatris spicata 'Kobold' | Kobold Blazing Star | 1 gal. |
| | Ps Pt (F) | 31 39 | Panicum virgatum 'Shenandoah' Physocarpus opulifolius 'SMPOTW' | Shenandoah Switch Grass Tiny Wine® Ninebark | 2 gal. 18" min. |
| • | Rk | 39 9 | Rudbeckia fulgida 'Blovi' | Viette's Little Suzy Coneflower | 1 gal. |
| | Sb (F) | 13 | Syringa x 'SMSJBP7' | Bloomerang® Dark Purple Lilac | 36"min. |
| 0 | St | 10 | Sporobolus heterolepis 'Tara' | Tara Prairie Dropseed | 1 gal. |

LANDSCAPE CALCULATION LEGEND

(F) - FRONTAGE (P) - PARKING (B) - BUFFER (S) - STREET TREE



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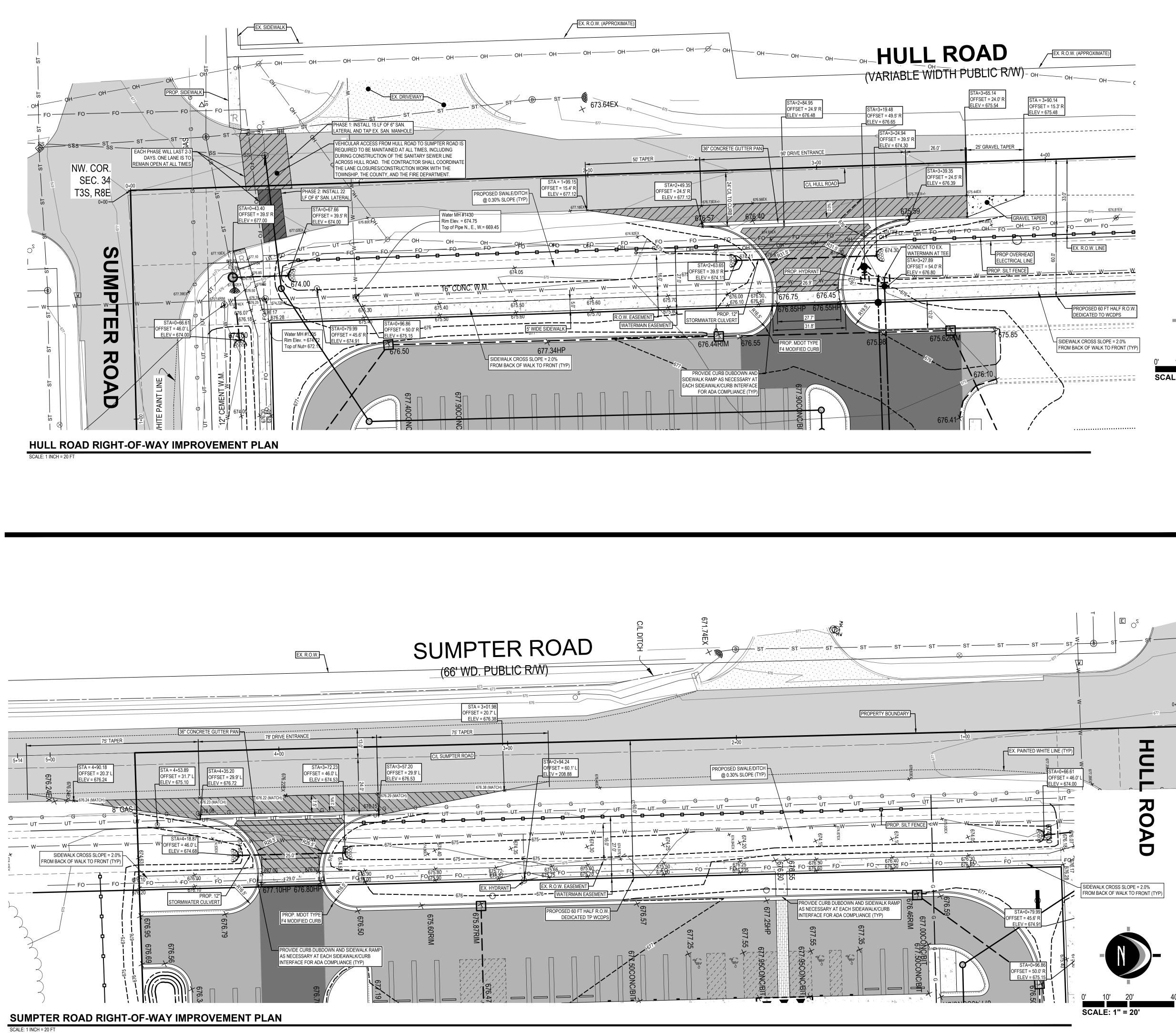


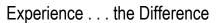
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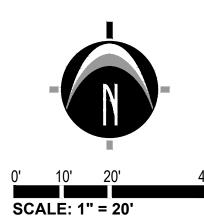




NOT TO SCALE



LEGEND



EXISTING BITUMINOUS EXISTING CONCRETE PROPOSED STANDARD DUTY BITUMINOUS PROPOSED HEAVY DUTY BITUMINOUS PROPOSED 4" CONCRETE PROPOSED 6" CONCRETE

Grand Rapids, MI 49503 Phone: 616.575.5190 ANN ARBOR CHICAGO COLUMBUS HOLLAND INDIANAPOLIS **PREPARED FOR:** CBE, LLC Attention: Brian Leibrandt 221 W Webster Avenue Suite 507 Muskegon, MI 49440 Phone: 231.955.0286 **REVISIONS:** Title: Preliminary Plan Drawn: SW Checked:SW Date:11/13/23 Title: Site Plan Submittal Drawn: SW Checked:SW Date:11/22/23 Title: Work in Progress - Staff Comments Drawn: SW Checked:SW Date:12/21/23 Title: Staff Comments and Building Front Drawn: SW Checked:SW Date:03/26/24 Title: Final Site Plan Submittal Drawn: SW Checked:SW Date:06/19/24 Title: Modified per Wayne County DPS Drawn: SW Checked:SW Date:08/15/24 Title: Modified per Wayne County DPS Drawn: SW Checked:SW Date:12/19/24 Title: Modified per Wayne County DPS Drawn: SW Checked:SW Date: 01/22/25

Title: Modified per Wayne County DPS

Drawn: SW Checked:SW Date: 02/19/25

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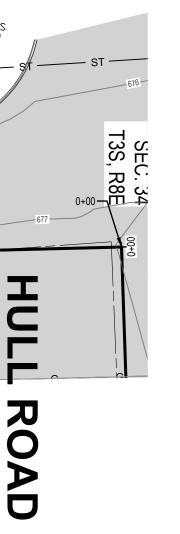
SUPPLY SUPPLY Pla Improvement 34, 0 R Ζ **Right-of-Way** ANBUR U TRA STAMP: STEVEN L WITTE License No 6201046769 **PROJECT NO:**

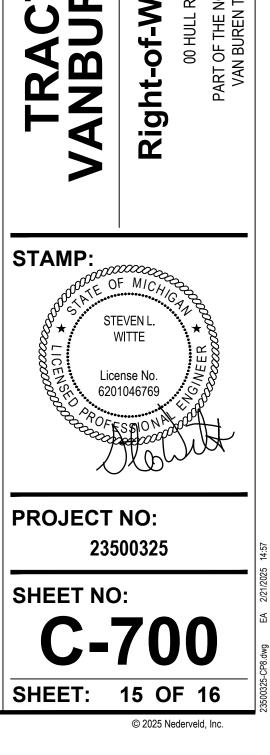


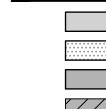
Know what's **below**.

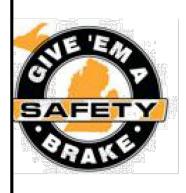
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

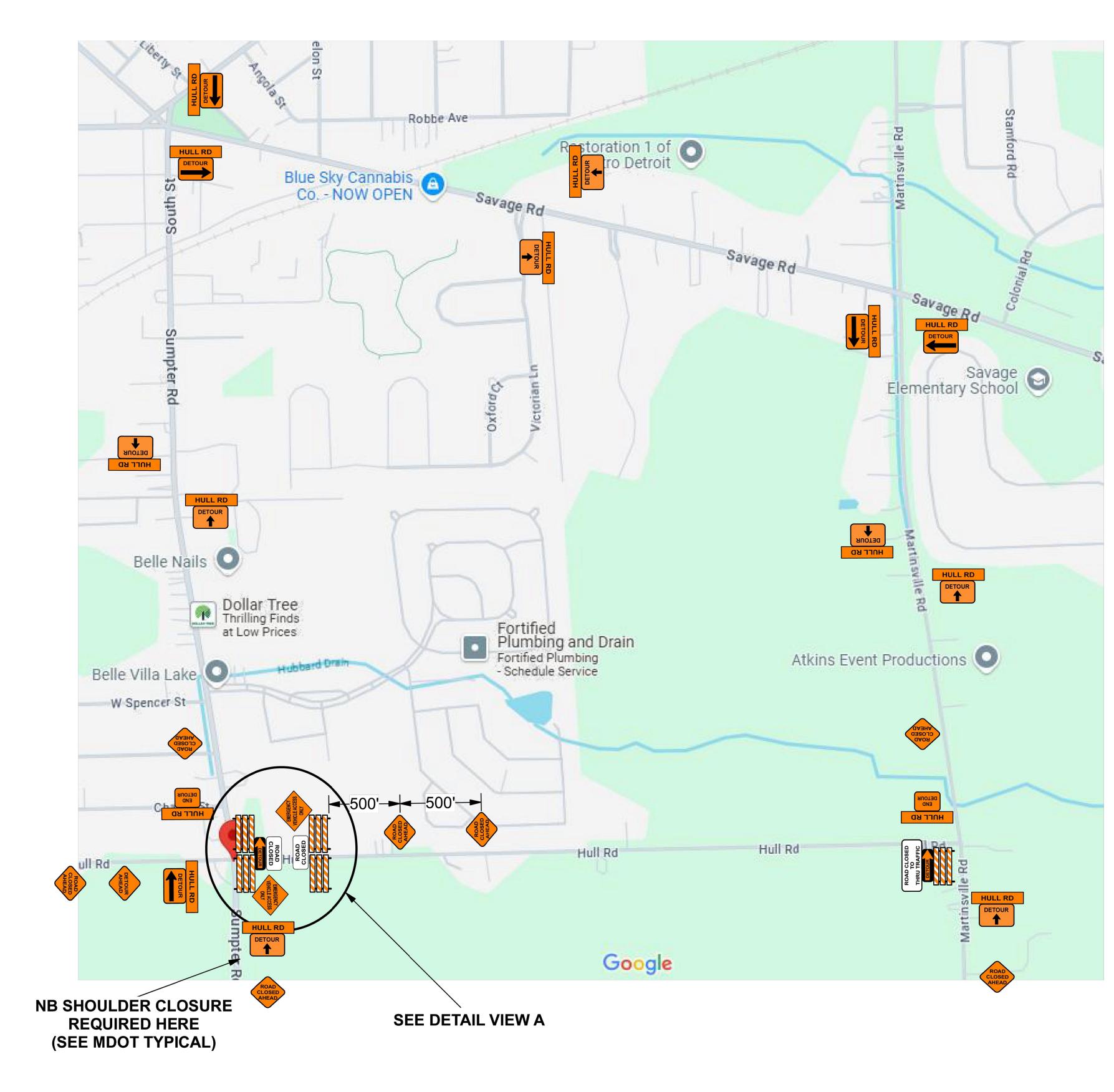
EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "(PLAN)" WERE OBTAINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.





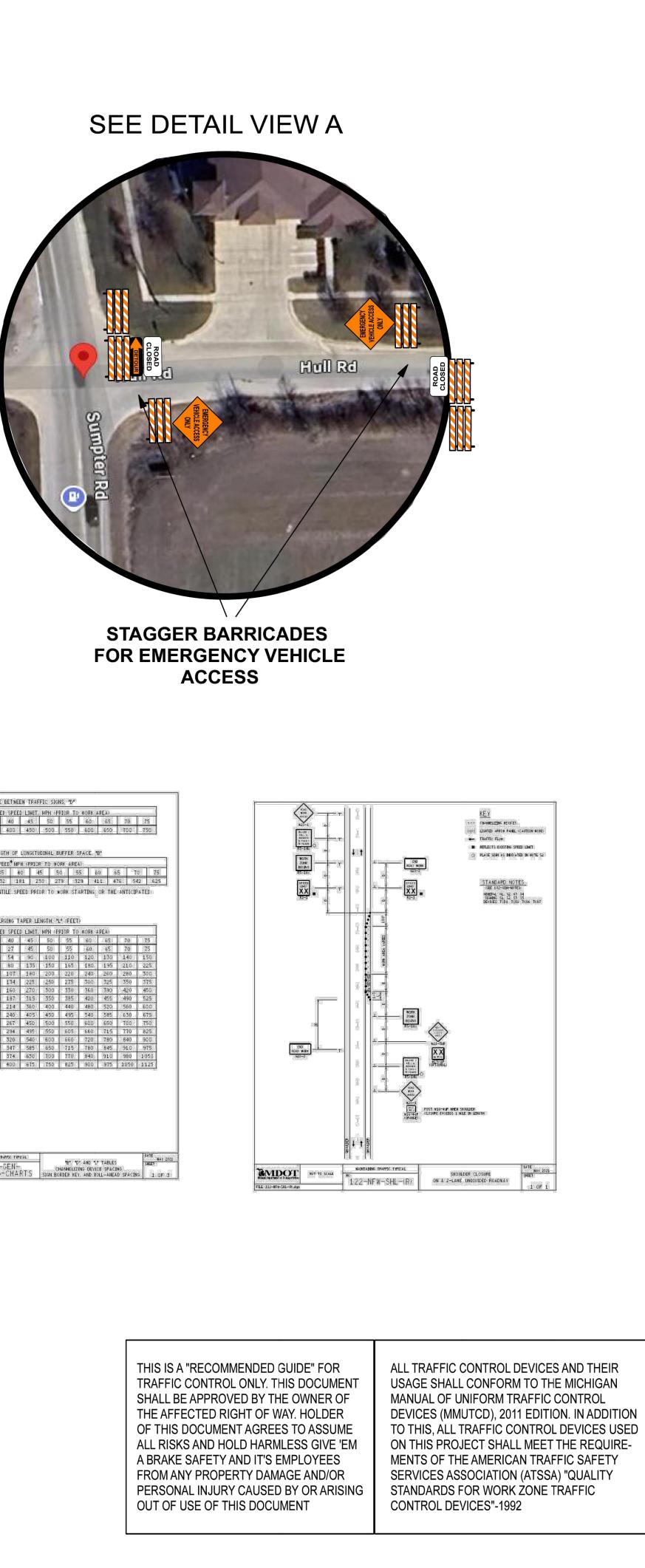






PROPOSED TRAFFIC CONTROL

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| OFFSE IFEET | 25 | 30 | 35 | 40 | 45 | MPH OP | 55 | 60 | 65 | 70 | 75 |
| 1 | 11 | 15 | 21 | 27 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |
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| 4 | 42 | 60 | 82 | 107 | _1800 | 200 | 220 | _240 | 260 | 280 | _300 |
| 5 | 53 | 75 | 103 | 134 | 225 | 250 | 275 | 300 | 325 | 350 | 375 |
| 6 | 63 | 90 | 123 | 160 | 270 | 300 | 330 | 360 | 390 | 420 | 450 |
| l Ro | 1 73 | 105 | 143 | 187 | 315 | 350 | 385 | 420 | 455 | 490 | 525 |
| . 8 | 0 84 | 120 | 164_ | 214 | 360 | 400 | 440 | 480 | 520 | 560 | 600 |
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| 10 | 105 | 150 | 205 | 267 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
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| 1.2 | 125 | 180 | 245 | 320 | 540 | 600 | 660 | 720 | 780 | 840 | 90(|
| 11 9395 | 136 | 195 210 | 266 | 347 | 585 | 650 | 715 | 780 | 845 | 910 | 975 |
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