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Willow R. Hum William R. Huston

Lic. No. 44984 Date: 07.14.2022

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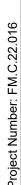
 FOUND MONUMENT (AS NOTED)
 SET 5/8" CAPPED REBAR "WINNICKI MN 57628" ♦ COMPUTED POINT TEMPORARY BENCHMARK Ø POWER POLE ELECTRIC MANHOLE 🔆 LIGHT POLE GUY WIRE ANCHOR
 ELECTRIC METER E ELECTRIC CABINET AC UNIT FIBER OPTIC VAULT TELEPHONE PEDESTAL 🕱 FIRE HYDRANT 🕅 WATER VALVE GAS VALVESEWER MANHOLECO CLEAN OUT --- SIGN BOLLARD MAILBOX FLARED END SECTION ▼ UTILITY VAULT OFO FIBER OPTIC MARKER OGP GATE POST GRATED INLET TBM#1 FOUND 2" ALUMINUM ROD STAMPED "CORY 1993 2009" PUBLISHED NORTHING: 1022848.85 PUBLISHED EASTING: 2008290.99 ELEVATION: 905.44'

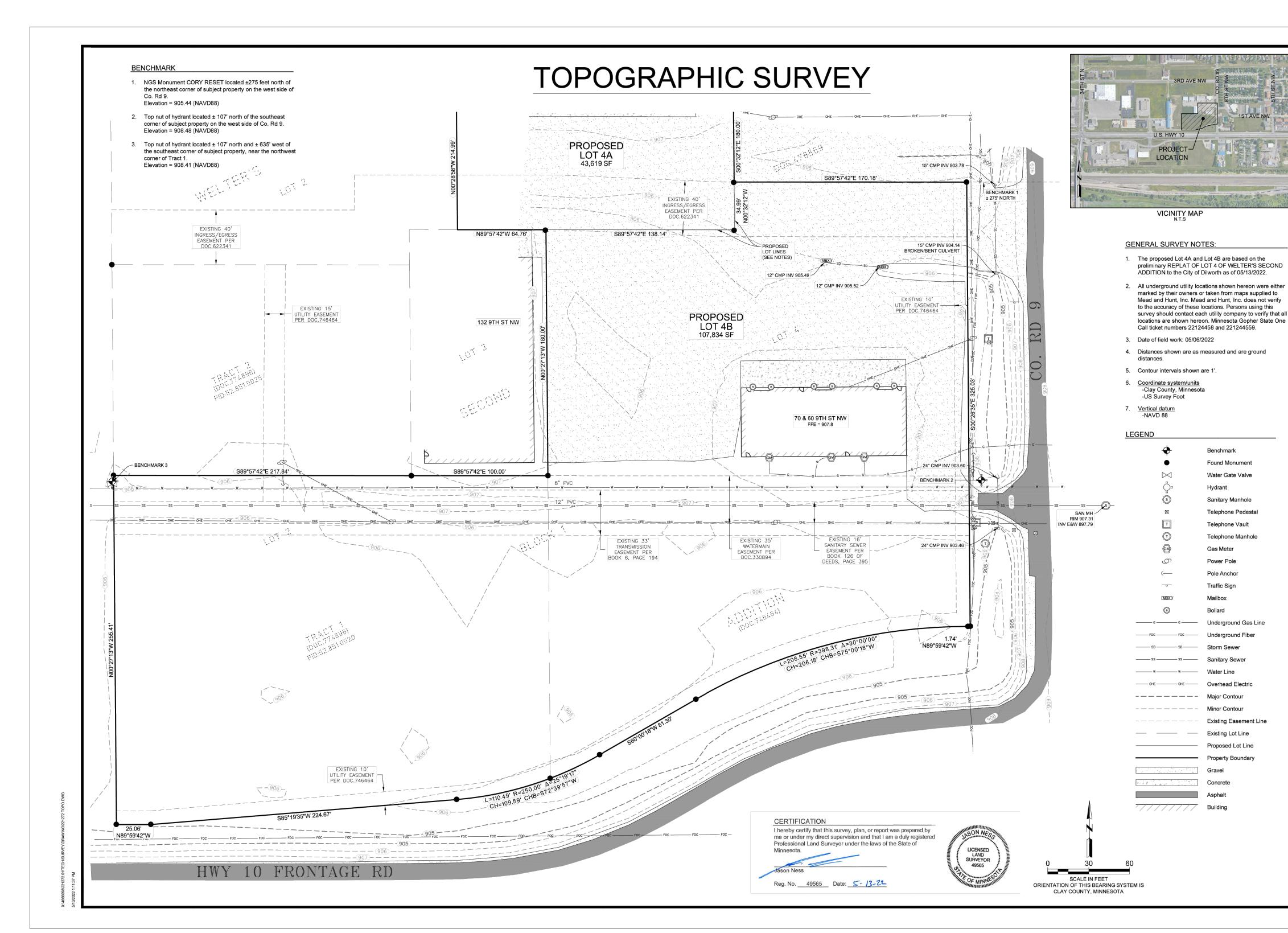
TBM#2 SET MAG NAIL ELEVATION: 906.50'



Sheet 2 of 2





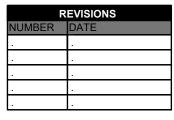




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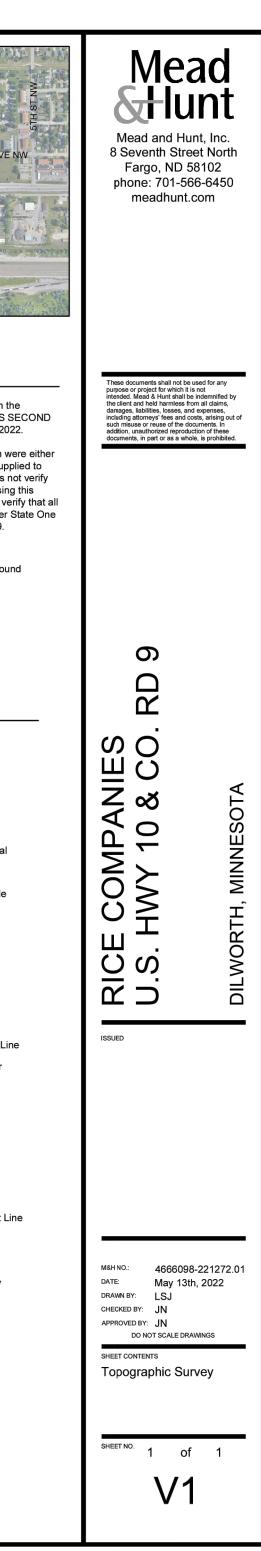
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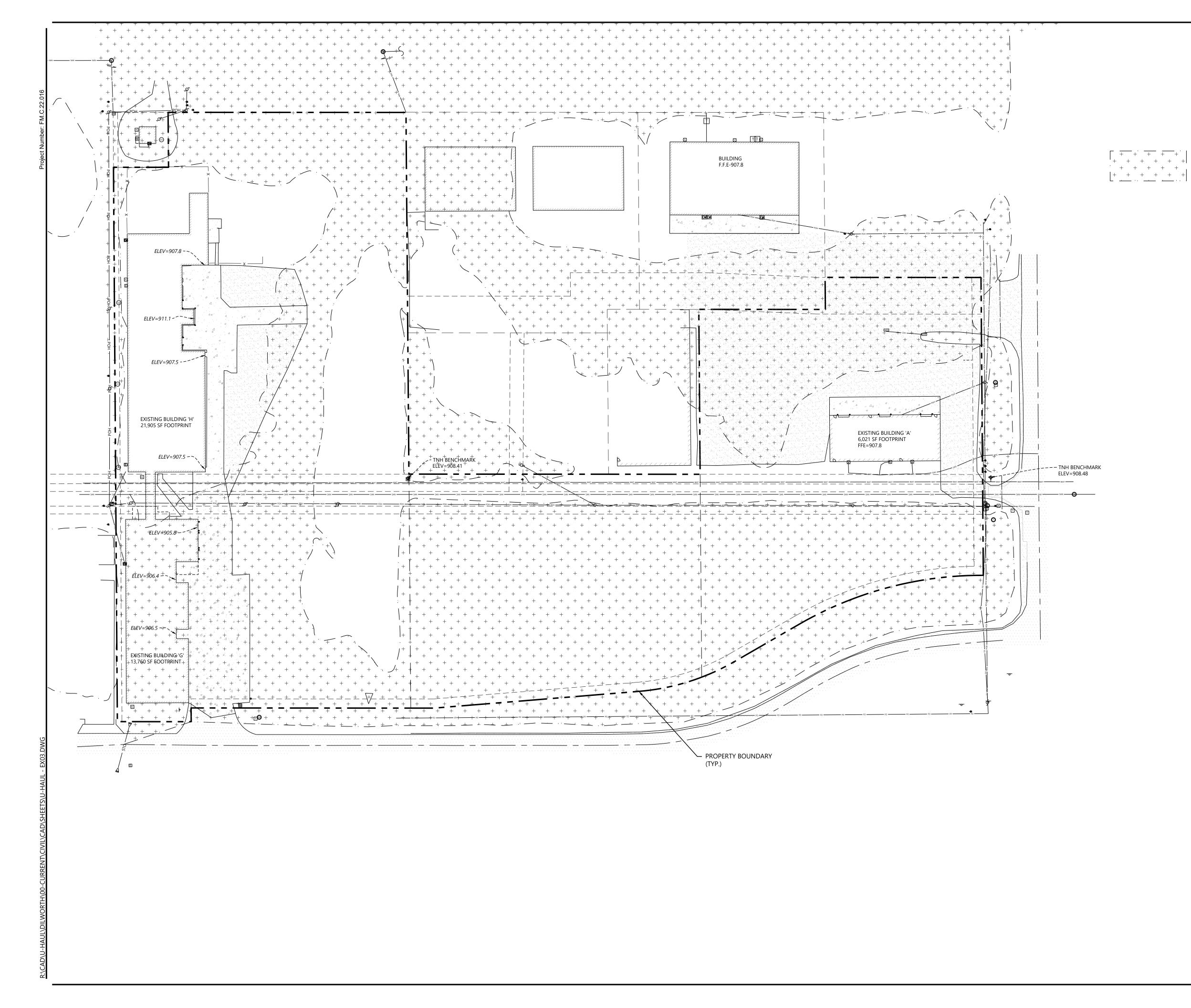
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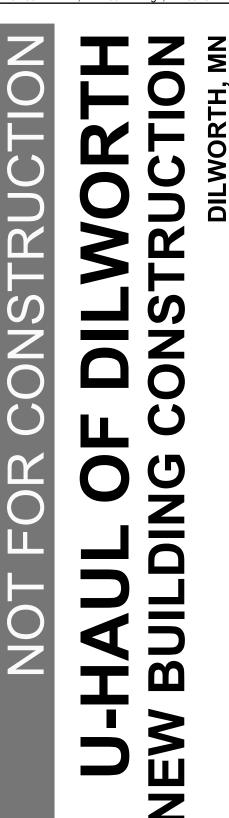




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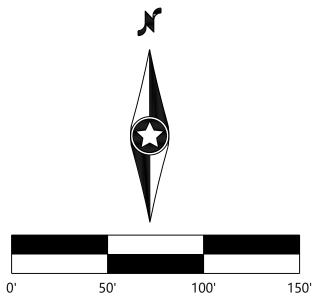
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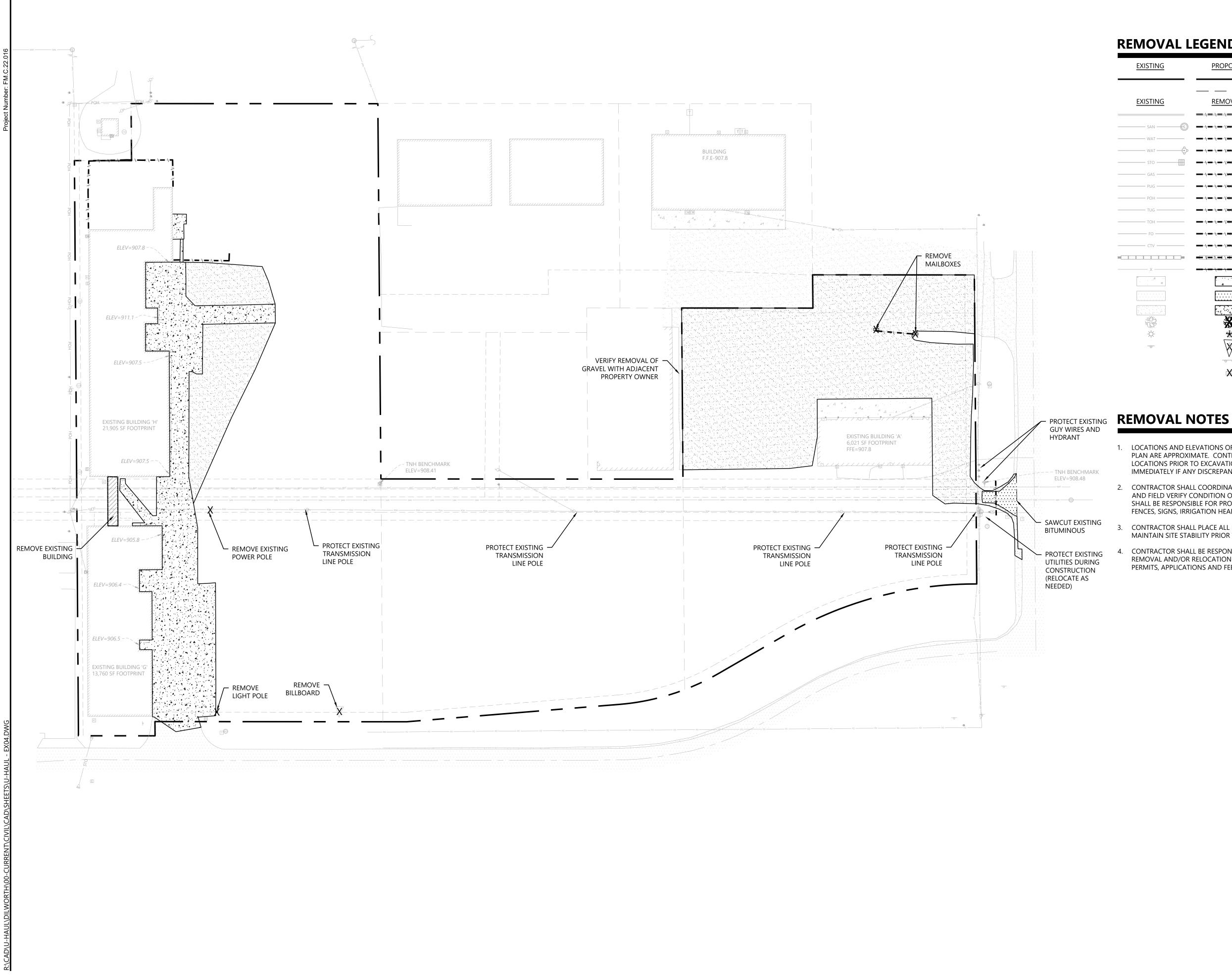
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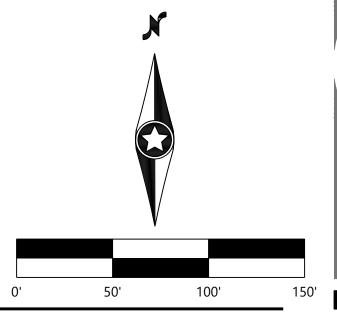
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1. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

2. CONTRACTOR SHALL COORDINATE LIMITS OF REMOVALS WITH PROPOSED IMPROVEMENTS AND FIELD VERIFY CONDITION OF EXISTING APPURTENANCES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OR REPLACING MISCELLANEOUS ITEMS (SUCH AS FENCES, SIGNS, IRRIGATION HEADS, ETC.) THAT MAY BE DAMAGED BY CONSTRUCTION.

3. CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AFFECTED BY SITE DEVELOPMENT. ALL PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.



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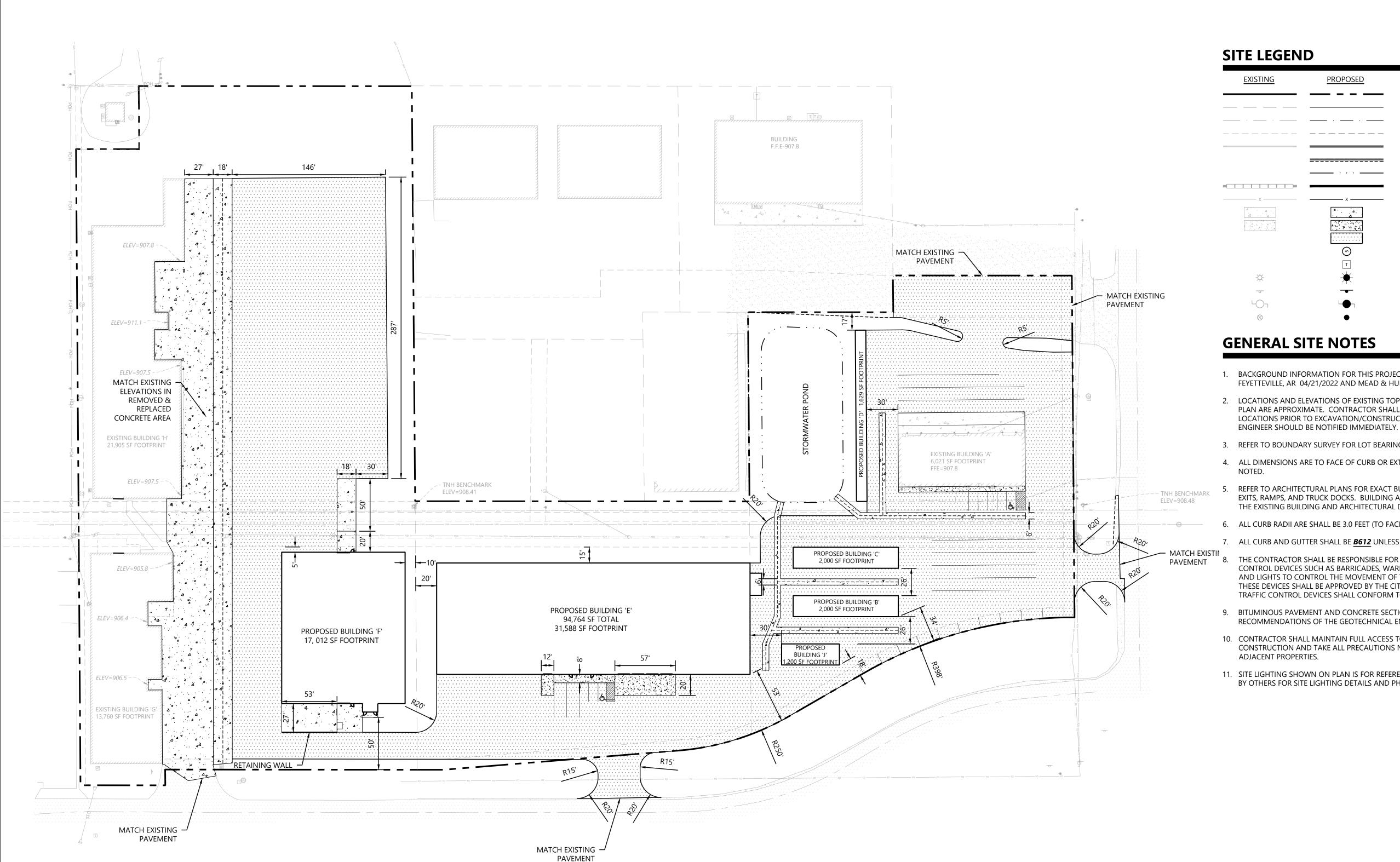


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PROPERTY LINE LOT LINE SETBACK LINE EASEMENT LINE CURB AND GUTTER TIP-OUT CURB AND GUTTER POND NORMAL WATER LEVEL **RETAINING WALL** FENCE CONCRETE PAVEMENT CONCRETE SIDEWALK **BITUMINOUS PAVEMENT** NUMBER OF PARKING STALLS TRANSFORMER SITE LIGHTING TRAFFIC SIGN POWER POLE BOLLARD / POST

1. BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY BLEW & ASSOCIATES, FEYETTEVILLE, AR 04/21/2022 AND MEAD & HUNT, FARGO, ND 05/13/2022.

2. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, THE

3. REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.

4. ALL DIMENSIONS ARE TO FACE OF CURB OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE

5. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, AND TRUCK DOCKS. BUILDING ADDITION LOCATIONS SHALL BE VERIFIED WITH THE EXISTING BUILDING AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

6. ALL CURB RADII ARE SHALL BE 3.0 FEET (TO FACE OF CURB) UNLESS OTHERWISE NOTED.

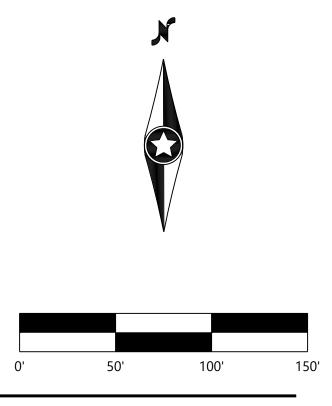
7. ALL CURB AND GUTTER SHALL BE **<u>B612</u>** UNLESS OTHERWISE NOTED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.

9. BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

10. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO

11. SITE LIGHTING SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING DETAILS AND PHOTOMETRICS.



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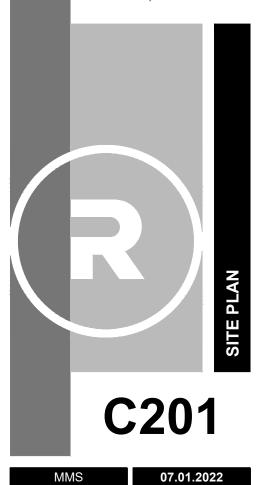
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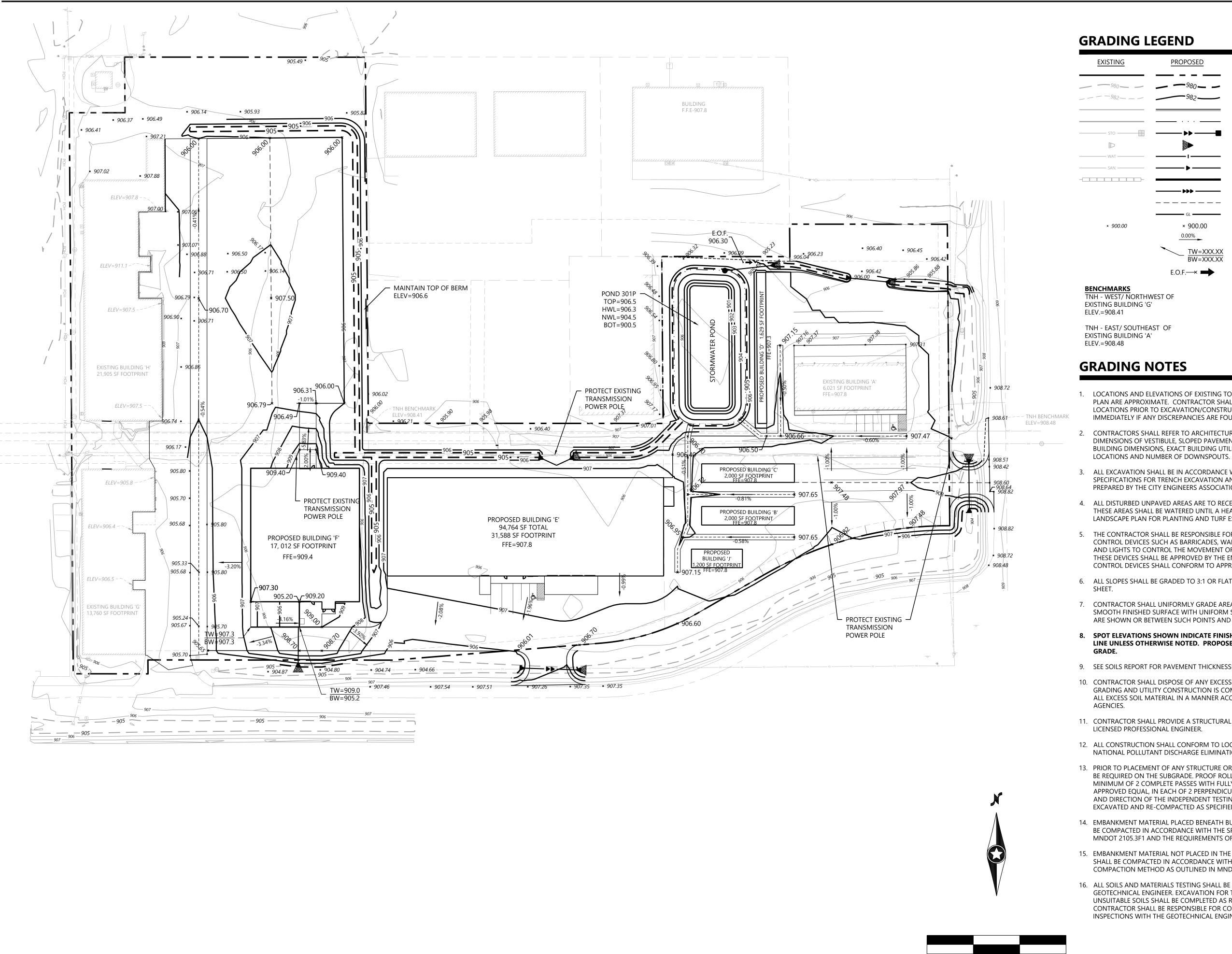


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LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND

CONTRACTORS SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVEMENT, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT

ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.

ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SOD OR SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. SEE LANDSCAPE PLAN FOR PLANTING AND TURF ESTABLISHMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.

6. ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS

CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.

8. SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE

9. SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.

10. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXISTS AFTER THE SITE GRADING AND UTILITY CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING

11. CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A

12. ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.

13. PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A PROOF ROLL, AT MINIMUM, WILL BE REQUIRED ON THE SUBGRADE. PROOF ROLLING SHALL BE ACCOMPLISHED BY MAKING MINIMUM OF 2 COMPLETE PASSES WITH FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, IN EACH OF 2 PERPENDICULAR DIRECTIONS WHILE UNDER SUPERVISION AND DIRECTION OF THE INDEPENDENT TESTING LABORATORY. AREAS OF FAILURE SHALL BE EXCAVATED AND RE-COMPACTED AS SPECIFIED HEREIN.

14. EMBANKMENT MATERIAL PLACED BENEATH BUILDINGS AND STREET OR PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD AS OUTLINED IN MNDOT 2105.3F1 AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

15. EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREETS OR PARKING AREA, SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3F2.

16. ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.

100'

150'



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PROPERTY LINE

INDEX CONTOUR INTERVAL CONTOUR

CURB AND GUTTER

STORM SEWER

WATER MAIN SANITARY SEWER

RETAINING WALL

GRADING LIMITS SPOT ELEVATION

FLOW DIRECTION

EMERGENCY OVERFLOW

DRAIN TILE

RIDGE LINE

POND NORMAL WATER LEVEL

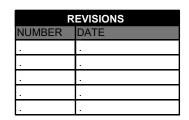
FLARED END SECTION (WITH RIPRAP)

TOP AND BOTTOM OF RETAINING WALL

Common Ground Alliance

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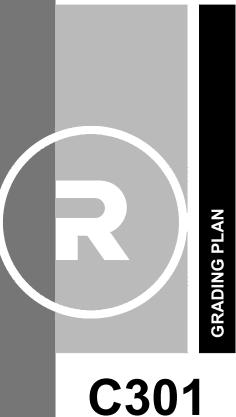
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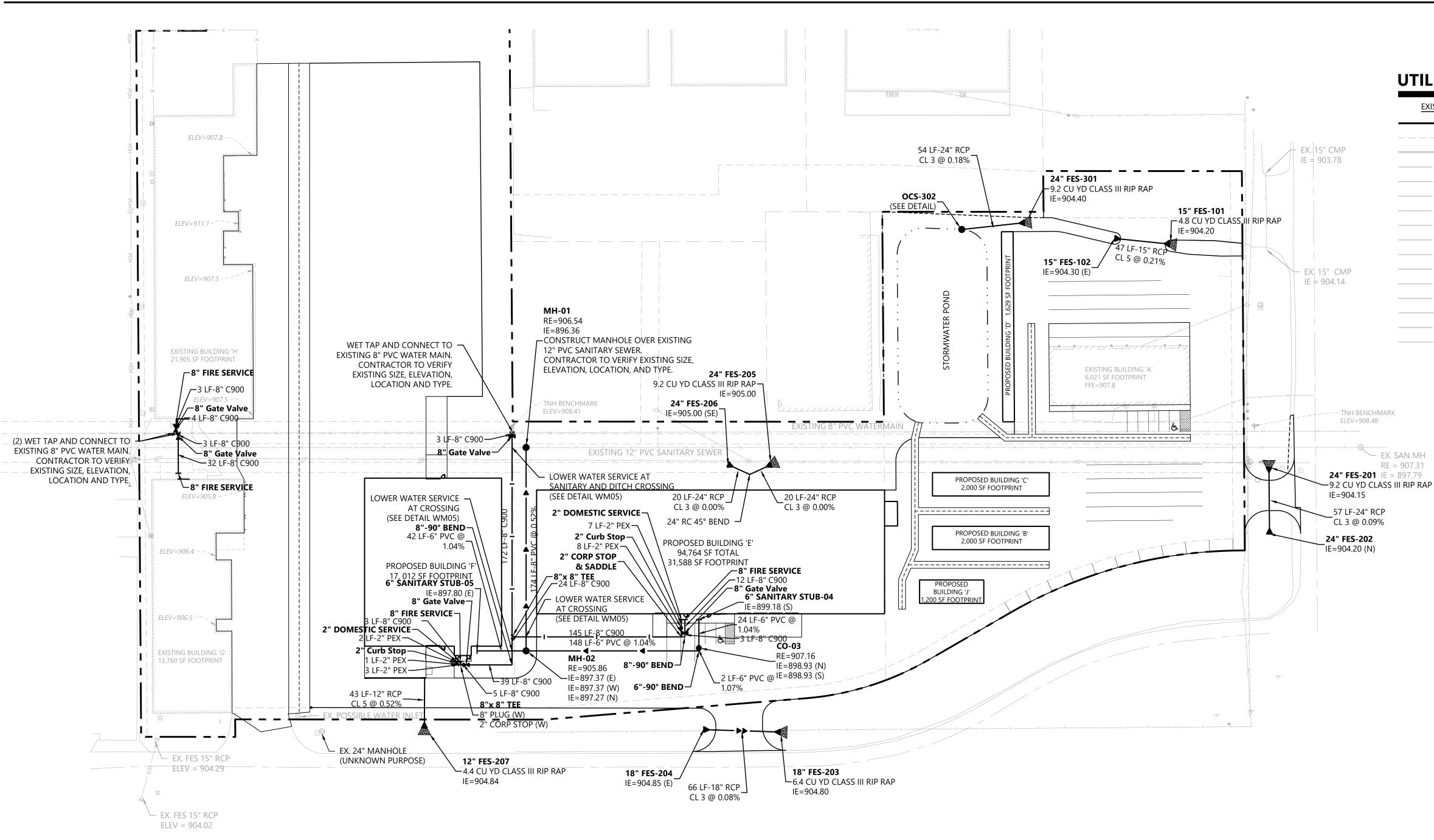
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GENERAL UTILITY NOTES

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.
- 2. ALL SANITARY SEWER, STORM SEWER AND WATER MAIN MATERIAL AND INSTALLATIONS SHALL BE PER CITY REQUIREMENTS, MINNESOTA PLUMBING CODE, AND IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY FEDERAL, STATE AND LOCAL PERMITS FOR THE PROPOSED WORK OR VERIFY WITH THE OWNER OR ENGINEER THAT PERMITS HAVE BEEN OBTAINED. PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED WITH THE OWNER.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND 4. DIMENSIONS OF DOORWAYS, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY CONNECTION LOCATIONS.
- ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE SERVICE LINE CONSTRUCTION WITH THE UTILITY COMPANIES.
- 6. CONTRACTOR SHALL OBTAIN ALL NECESSARY CITY PERMITS FOR UTILITY CONNECTIONS, AND UTILITIES SHALL BE INSPECTED AND APPROVED BY THE CITY. THE CITY SHALL BE NOTIFIED 48-HOURS PRIOR TO COMMENCING WITH THE UTILITY CONSTRUCTION OR ANY REQUIRED TESTING. CONTRACTOR SHALL NOT OPERATE,

INTERFERE WITH, CONNECT ANY PIPE OR HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

- 7 WATER MAIN LENGTHS AS SHOWN ARE APPROXIMATE HORIZONTAL LENGTHS. ALLOW FOR ADDITIONAL PIPE WHEN INSTALLING ON SLOPES OR WHEN DEFLECTIONS ARE REQUIRED. THE JOINT DEFLECTIONS SHALL NOT EXCEED THE MAXIMUM RECOMMENDED BY THE PIPE MANUFACTURER OR BY LOCAL GOVERNING SPECIFICATIONS. FITTINGS REQUIRED TO CONSTRUCT WATER MAIN SHALL BE INCLUDED IN WATER MAIN CONSTRUCTION.
- 8. PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
- 9 A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTION WITHIN 10-FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
- 10. UTILITY SERVICES TYPICALLY TERMINATE 5' OUTSIDE BUILDING WALL UNLESS OTHERWISE SHOWN OR NOTED.
- 11. DUCTILE IRON WATER LINES SHALL BE CLASS 52, PER AWWA C151. COPPER WATER LINES SHALL BE TYPE K PER ASTM B88. PE WATER LINES SHALL BE PER AWWA C901. PEX WATER LINES SHALL BE PER AWWA C904. PVC WATER LINES SHALL BE PER AWWA C900 AND INSTALLED PER AWWA C605. PLASTIC WATER LINES MAY BE INSTALLED IF ALLOWED BY CITY.
- 12. ALL WATER LINES SHALL HAVE 8.5' MINIMUM COVER. INSULATE WATER MAIN IF LESS THAN 8.5' OF COVER. INSULATION SHALL BE DOW STYROFOAM HI BRAND 35 OR EQUIVALENT, WITH 4 INCHES OF THICKNESS.

13. SANITARY BUILDING DRAIN PIPE WITHIN 2 FEET OF THE BUILDING AND UNDER FOOTINGS SHALL BE PVC SCHEDULE 40 PER ASTM D2665. SANITARY BUILDING SEWER PIPE OUTSIDE THE 2 FOOT BUILDING ENVELOPE SHALL BE PVC SCH 40 PER ASTM D2665 OR PVC SDR 35 OR 26 PER ASTM D3034. SDR 26 IS REQUIRED FOR PIPES 4" DIAMETER AND SMALLER. SDR 26 IS REQUIRED FOR ALL PIPE DIAMETERS AT DEPTHS GREATER THAN 20 FEET. ALL PLASTIC SANITARY SEWER SHALL BE INSTALLED PER ASTM D2321. SOLVENT WELD JOINTS MUST INCLUDE USE OF A PRIMER WHICH IS OF A CONTRASTING COLOR TO THE PIPE AND CEMENT. ALL SANITARY SEWER SHALL BE TESTED ACCORDING TO MINNESOTA PLUMBING CODE, SECTION 712.

- 14. STORM SEWER PIPE:
- A. RCP, HDPE, AND CMP PIPE MAY BE INSTALLED WITH APPROVAL OF LOCAL GOVERNING AGENCY.
- B. REINFORCED CONCRETE PIPE SHALL BE CLASS 5 FOR PIPE DIAMETERS 18" AND SMALLER, CLASS 3 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED, PER ASTM C76 WITH R-4 GASKETS.
- C. HDPE STORM PIPE 4- TO 10-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF AASHTO M252. HDPE STORM PIPE 12- TO 60-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF ASTM F2306. FITTINGS SHALL BE PER ASTM D3212 AND INSTALLED PER ASTM D2321.
- D. PVC STORM SEWER PIPE AND FITTINGS SHALL BE PER ASTM D3034 (SDR 26 AND 35) OR ASTM D2665 (SCH 40). PVC PIPE SHALL BE INSTALLED PER ASTM D2321.
- E. CORRUGATED METAL PIPE (CMP) FOR SIZES 18- TO 120-INCH AND MUST MEET ASTM A760 OR ASTM A796 AND BE INSTALLED PER ASTM A798. CMP MAY NOT BE INSTALLED OUTSIDE OF A PUBLIC EASEMENT AND/OR RIGHT-OF-WAY.
- F. PERFORATED SUBSOIL DRAINS SHALL BE EITHER PE PIPE PER ASTM F667 OR PVC PIPE PER ASTM D2729.

- G. ALL STORM SEWER JOINTS AND STRUCTURE CONNECTIONS SHALL BE GASTIGHT OR WATERTIGHT AS REQUIRED BY MINNESOTA PLUMBING CODE, PART 707.3. STORM SEWER SHALL BE TESTED PER MINNESOTA PLUMBING CODE, SECTION 712, EXCEPT AS PROVIDED IN SECTION 1107.
- 15. ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER PLUMBING CODE SECTION 604.10.1 AND MINNESOTA RULES, PART 7560.0150.
- 16. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT RECORD OF UTILITY CONSTRUCTION. THE AS-BUILT SHALL INCLUDE LOCATION AND LENGTH DEVIATIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.

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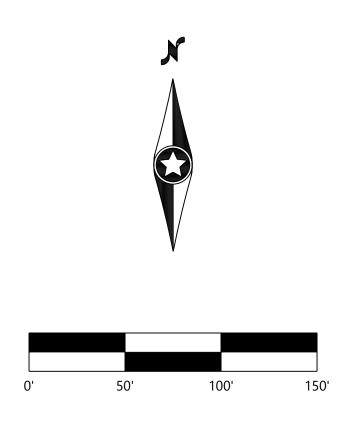
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PROPERTY LINE EASEMENT LINE CURB AND GUTTER SANITARY SEWER SANITARY SEWER FORCE MAIN STORM SEWER WATER MAIN HYDRANT GAS UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND TELEPHONE OVERHEAD TELEPHONE **TELEPHONE FIBER OPTIC** CABLE TELEVISION DRAIN TILE GATE VALVE FLARED END SECTION (WITH RIPRAP) LIGHT POLE



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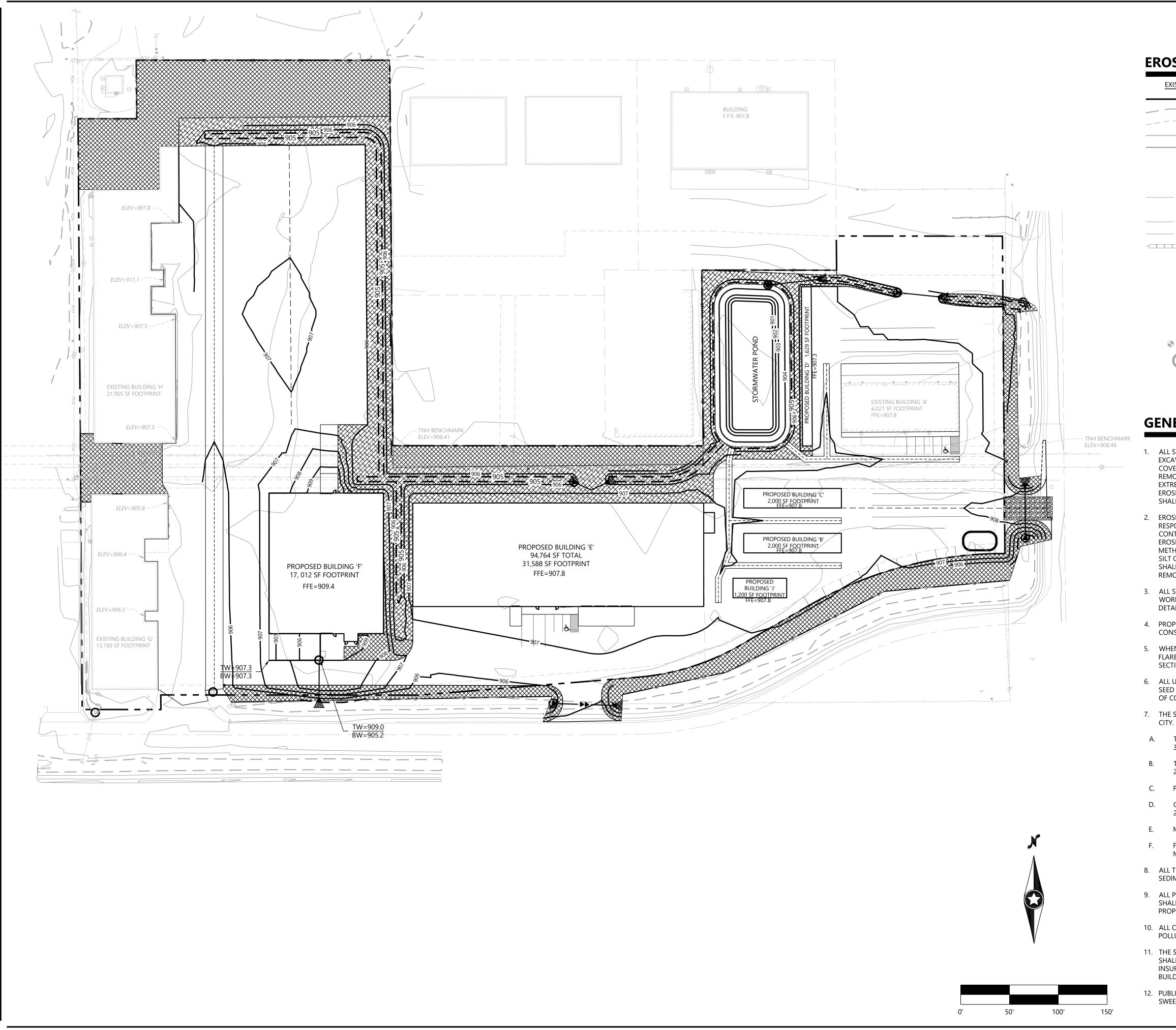
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Willow R. Hora

Lic. No. 44984 Date: 07.14.2022

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EROSION CONTROL LEGEND

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PROPERTY LINE
INDEX CONTOUR
INTERVAL CONTOUR
CURB AND GUTTER
POND NORMAL WATER LEVEL
SILT FENCE
HEAVY DUTY SILT FENCE
REDUNDANT SILT CONTROL
STORM SEWER
FLARED END SECTION (WITH RIPRAP)
WATER MAIN
SANITARY SEWER
RETAINING WALL
DRAIN TILE
GRADING LIMITS
ROCK CONSTRUCTION ENTRANCE
EROSION CONTROL BLANKET
HYDROSEED MNDOT SEED MIX 25-131
EMERGENCY OVERFLOW
SOIL BORING LOCATION
INLET PROTECTION

GENERAL EROSION CONTROL NOTES

ALL SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. EXISTING SILT FENCE ON-SITE SHALL BE MAINTAINED AND/OR REMOVED AND SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONTRACT. IT IS OF EXTREME IMPORTANCE TO BE AWARE OF CURRENT FIELD CONDITIONS WITH RESPECT TO EROSION CONTROL. TEMPORARY PONDING, DIKES, HAYBALES, ETC., REQUIRED BY THE CITY SHALL BE INCIDENTAL TO THE GRADING CONTRACT.

CONCRETE WASHOUT

2. EROSION AND SILTATION CONTROL (ESC): THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR'S RESPONSIBILITY INCLUDES ALL IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER MAY DIRECT THE CONTRACTOR'S METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITION OF SILT OR MUD ON NEW OR EXISTING PAVEMENT OR IN EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN EVENT. ALL TEMPORARY EROSION CONTROL SHALL BE REMOVED BY THE CONTRACTOR AFTER THE TURF IS ESTABLISHED.

3. ALL STREETS DISTURBED DURING WORKING HOURS MUST BE CLEANED AT THE END OF EACH WORKING DAY. A CONSTRUCTION ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO DETAILS TO REDUCE TRACKING OF DIRT ONTO PUBLIC STREETS.

4. PROPOSED PONDS SHALL BE EXCAVATED FIRST AND USED AS TEMPORARY PONDING DURING CONSTRUCTION.

5. WHEN INSTALLING END-OF-LINE FLARED END SECTIONS, BRING THE SILT FENCE UP & OVER THE FLARED END SECTIONS & COVER DISTURBED AREAS WITH RIP RAP. THE UPSTREAM FLARED END SECTIONS SHALL HAVE WOOD FIBER BLANKET INSTALLED ON THE DISTURBED SOILS.

6. ALL UNPAVED AREAS ALTERED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED WITH SEED AND MULCH, SOD, EROSION CONTROL BLANKET OR BE HARD SURFACE WITHIN 2 WEEKS OF COMPLETION OF CONSTRUCTION.

7. THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA, NPDES, MNDOT, AND

A. TEMPORARY (GREATER THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX 22-111 AT 30.5-POUNDS PER ACRE.

TEMPORARY (LESS THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX 21-112 (FALL) OR 21-111 (SPRING/SUMMER) AT 100-POUNDS PER ACRE

C. POND SLOPES SHALL BE MNDOT SEED MIX 33-261 AT 35-POUNDS PER ACRE.

GENERAL SEEDING SHALL BE MNDOT SEED MIX 25-131 (COMMERCIAL TURF) AT 220-POUNDS PER ACRE.

MULCH SHALL BE MNDOT TYPE 1 APPLIED AT 2-TONS PER ACRE.

FOR AREAS WITH SLOPE OF 3:1 OR GREATER, RESTORATION WITH SOD OR BONDED FIBER MATRIX HYDROMULCH IS REQUIRED.

8. ALL TEMPORARY STOCKPILES MUST HAVE SILT FENCE INSTALLED AROUND THEM TO TRAP SEDIMENT.

9. ALL PERMANENT PONDS USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION SHALL BE DREDGED AFTER THE SITE HAS BEEN STABILIZED TO RESTORE THE POND TO THE PROPOSED BOTTOM ELEVATION.

10. ALL CONSTRUCTION SHALL CONFORM TO LOCAL AND STATE RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.

11. THE SITE MUST BE KEPT IN A WELL-DRAINED CONDITION AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS REQUIRED TO INSURE PROPER DRAINAGE DURING CONSTRUCTION. LOW POINTS IN ROADWAYS OR BUILDING PADS MUST BE PROVIDED WITH A POSITIVE OUTFLOW.

12. PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS. STREET SWEEPING SHALL BE CONCURRENT WITH SITE WORK.



1019 Industrial Dr S • Sauk Rapids, MN 56379 3301 11th St E • Glencoe, MN 55336 150 St Andrews Ct, Ste 510 • Mankato, MN 5600 4201 38th St SW, Ste 209 • Fargo, ND 58104

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REVISIONS	
NUMBER	DATE

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

Willa	R.	the-
William R. Huston		

Lic. No. 44984 Date: 07.14.2022

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SWPPP NARRATIVE

ESTABLISHED BY THE CLEAN WATER ACT. THE MINNESOTA POL	L POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REGULATIONS AS LUTION CONTROL AGENCY'S CONSTRUCTION GENERAL PERMIT MN R100001 (CSGP) F REQUIREMENTS FOR COMPLIANCE TO DISCHARGE STORMWATER FROM A	THE SECTION. BY IN STORM WATER DISC
CONSTRUCTION SITE.		
TIMES DURING CONSTRUCTION. THE OWNER MUST ALSO KEEF TERMINATION. THE FOLLOWING ARE OUTLINED IN THIS SWPP - CONTROL MEASURES FOR STORM WATER POLLUTION PRE - CONTROL MEASURES FOR STORM WATER POLLUTION PRE - SOURCES OF STORMWATER AND NON-STORMWATER POL	VENTION PRIOR TO AND DURING CONSTRUCTION VENTION AFTER CONSTRUCTION	POTENTIAL ANTIFREEZE DIESEL FUEL FERTILIZER GASOLINE GLUE/ADHE
- INSPECTION AND MAINTENANCE PROCEDURES THE GRADING AND EROSION CONTROL PLAN PREPARED FOR U		HYDRAULIC PAINTS GREASE
PROJECT LOCATION		SANITARY V
THIS DOCUMENT PRESENTS A STORM WATER POLLUTION PREV THE NORTHWEST QUADRANT OF HIGHWAY 10 AND COUNRTY PROJECT CONTACT INFORMATION	(ENTION PLAN (SWPPP) FOR U-HAUL IN DILWORTH, MN. THE SITE IS LOCATED IN ROAD 9.	SOIL AMEN LANDSCAPI CONCRETE CONCRETE
OWNER/DEVELOPER: COMPANY NAME: U-HAUL	CONTRACTOR: RICE COMPANIES	CONSTRUCTION SE THE INTENDED SEQ
CONTACT: ADDRESS: PHONE:	1019 INDUSTRIAL DRIVE SOUTH SAUK RAPIDS, MN 56379 320.252.0404	 INSTALL PEF PLAN. INSTA INSTALL STA CLEAR AND
E-MAIL: IDENTIFY PERSONNEL INVOLVED WITH THE PROJECT AND THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.	EIR RELATED NECESSARY TRAINING COMMENSURATE WITH THEIR TASK PRIOR TO	 STRIP AND S ROUGH GRA STABILIZE D INSTALL SAI
SWPPP DESIGNER: COMPANY: RICE COMPANIES CONTACT: WILL HUSTON	SWPPP INSPECTION: BMP INSTALLER:	8. INSTALL INL 9. INSTALL STF 10. INSTALL CU 11. INSTALL PA
ADDRESS: 1019 INDUSTRIAL DRIVE SOUTH SAUK RAPIDS, MN 56379 PHONE: 320.252.0404 E-MAIL: WILL.HUSTON@RICECOMPANIES.	COM	12. INSTALL SM 13. FINE GRADE 14. REMOVE AC 15. FINAL GRAD
TRAINING COURSE/ENTITY: UNIV. OF MN - DESIGN OF SWPPP EXPIRATION DATE: MAY 31, 2024		16. WHEN ALL O FENCE AND
OWNER/OPERATOR RESPONSIBILITIES OWNER		CONSTRUCTION NO
-DEVELOPMENT OF SWPPP PRIOR TO APPLICATION/NOI SUE -SUBMIT A COMPLETE AND ACCURATE APPLICATION FORM -COMPLIANCE WITH ALL TERMS AND CONDITIONS OF CONS -SWPPP SUBMITTAL FOR 30 DAY REVIEW FOR PROJECT GREA	(NOI)	ON SITE AT ALL TIM DISCHARGE OF HAZ TIMING OF BMP INS
OF SITE DISCHARGE. -KEEPING PERMIT COVERAGE UP-TO-DATE (TRANSFER/SUBD -SUBMIT NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS /		THE EROSION PREV CAPTURE SEDIMEN SPECIFIC AREAS.
-DEVELOP CHAIN OF RESPONSIBILITY WITH ALL OPERATORS -IDENTIFY TRAINED PERSONNEL TO DEVELOP THE SWPPP, IN	NANCE RESPONSIBILITY OF THE PERMANENT STORMWATER SYSTEM.	PRIOR TO START OF THE FOLLOWING EF CONSTRUCTION: 1. INSTALL SIL TO BE DISTU
AND CONDUCT INSPECTIONS OPERATOR -COMPLETION OF AN ACCURATE NOI WITH THE OWNER -COMPLIANCE WITH CSGP SECTIONS 3, 4, 6-22, 24 AND ANY	APPLICABLE REQUIREMENTS FOR CONSTRUCTION ACTIVITY IN SECTION 23 (MINN.	2. CONSTRUCT 3. INLET PROT FROM THE C 4. INSTALL SIL
R. 7090) -KEEPING THE PERMIT UP-TO-DATE WITH THE OWNER (PAR -COMPLETE AND SIGN APPLICATIONS FOR PERMIT TRANSFE	FIAL, WHOLE, CONTRACTOR, BUILDER, ETC) R AND MODIFICATION AND NOTICE OF TERMINATION WITH OWNER AS NEEDED.	SHALL BE IN DURING CONSTRUC
PROJECT DESCRIPTION THE SITE IS APPROXIMATELY 9.05 ACRES. CONSTRUCTION WILL CONSTRUCTING NEW COMMERCIAL BUILDINGS, NEW UTILITY S	- CONSIST OF, BUT IS NOT LIMITED TO, REMODELING EXISTING BUILDINGS, SERVICES, AND PAVING NEW DRIVES AND PARKING.	THE FOLLOWING EF CONSTRUCTION: 1. PHASE GRAI 2. ALL DISTUR
PROJECT AREA = 9.05 ACRES DISTURBED AREA = 7.75 ACRES EXISTING IMPERVIOUS AREA = 3.09 ACRES PROPOSED IMPERVIOUS AREA = 6.72 TOTAL ACRES		GRADED AN TEMPORAR 3. STRIP AND 5 4. PLACE A MII EITHER A ST 5. STABILIZATI
·	SIDE OF THE SITE AND ONE ON THE EAST. ALL OF THE BUILDINGS HAVE PARKING E BUILDINGS IS MOSTLY UNKEPT GRASSY AREAS. THE SITE IS FLAT AND DRAINS DITCH 50 TO THE NORTH.	INITIATED W WATERS. TH DAYS . 6. INSTALL SIL ⁻ PERIMETER 7. TEMPORAR ¹
SOIL TYPES THE SITE CONTAINS HSG D SOILS. THE GEOTECHNICAL REPORT	IS FORTHCOMING.	8. SUFFICIENT OWNER'S R
	T WILL ALSO ADD SIX BUILDINGS. A STORMWATER POND WILL TREAT THE RUNOFF D WITH HARD SURFACE OR SEEDED. THE ULTIMATE DISCHARGE LOCATION WILL	9. REMOVE AN OR MORE FI 10. COLLECT AL 11. INSPECT PO
STORM WATER MANAGEMENT PLAN THE TEMPORARY STORMWATER MANAGEMENT PLAN WILL CO TEMPORARY BASIN.	NSIST OF SEED, MULCH, BLANKET, AND THE WET POND BEING USED AS A	INLET SEDIMENT CC
THE PERMANENT STORM WATER MANAGEMENT PLAN WILL CO	DNSIST OF GRASS SWALES AND A WET POND.	MUNICIPALITY, WAT OR BE AVAILABLE W REMOVAL.
DRAINAGE AREA MAPS TO INCLUDE SURFACE WATERS AND EXISTORMWATER RUNOFF OR IDENTIFY THE DIRECTION AND DIST	STING WETLANDS WITHIN 1 MILE OF PROJECT BOUNDARY THAT RECEIVE ANCE TO SURFACE WATERS AND WETLANDS.	UPON COMPLETION PERMIT TERMINATION
SPECIAL AND/OR IMPAIRED WATERS WITHIN 1 MILE OF 1 NAME: NONE IMPAIRMENT: N/A	THE PROJECT SITE	PERMANENT EROSI TO ACHIEVING FINA 1. ALL SOIL DI FINAL STAB
DISTANCE AND DIRECTION FROM SITE: N/A		2. PERMANEN FROM CONS TO BE USED
POST-DEVELOPMENT SITE CONDITIONS, AND STORM WATER M		RETURN THI 3. THE VEGETA DENSITY.
	UCTED TO MEET OR EXCEED LOCAL, STATE AND FEDERAL REQUIREMENTS.	4. ALL TEMPO
ADDITIONAL TEMPORARY BMP'S AS NECESSARY FOR SITE CON	TROL BMP'S ALONG WITH THE PROCEDURES TO BE USED TO ESTABLISHED DITIONS DURING CONSTRUCTION ARE IDENTIFIED ON THE SITE GRADING AND DF THIS PROJECT, AND WITHIN THE PROJECT STORM WATER POLLUTION PREVENTION	PERMANENT VEGET PERMANENT TURF S THAT IS TO OCCUR
		SWPPP INSPECTION EROSION AND SEDI CONSTRUCTION AC

POTENTIAL STORM WATER POLLUTANTS POTENTIAL POLLUTANT SOURCES, INCLUDING CONSTRUCTION AND WASTE MATERIALS THAT ARE USED OR STORED AT THE SITE, ARE DESCRIBED IN POTENTIAL POLLUTANT SOURCES, INCLUDING CONSTRUCTION AND WASTE MATERIALS THAT ARE USED OR STORED AT THE SITE, ARE DESCRIBED IN CHARGES FROM THE SITE.

ATERIALS, CHEMICALS AND WASTE MATERIALS THAT WILL BE USED OR STORED AT THE SITE:

IAL POLLUTANT	LOCATION	CONTROL MEASURE
EZE	VARIOUS	SECONDARY CONTAINMENT / DRIP PAN
UEL	VARIOUS	SECONDARY CONTAINMENT / DRIP PAN
ER	LANDSCAPE CONTRACTOR	SECONDARY CONTAINMENT
NE	IN EQUIPMENT/FUELING AREA	SECONDARY CONTAINMENT / DRIP PAN
DHESIVES	CONTRACTOR	SECONDARY CONTAINMENT
ILIC OILS/FLUIDS	CONTRACTOR	SECONDARY CONTAINMENT
	CONTRACTOR	SECONDARY CONTAINMENT
	CONTRACTOR	SECONDARY CONTAINMENT / DRIP PAN
RY WASTE	PORTABLE BATHROOMS	SERVICE PROVIDER TO SECURE UNITS FROM
		TIPPING OVER AND MAINTAINED
ENDMENTS	VARIOUS	SECONDARY CONTAINMENT
APING MATERIALS	LANDSCAPE CONTRACTOR	CONTRACTOR RESPONSIBLE
TE	TRUCK WASHOUT	WASHOUT AREA
TE / MORTAR	MOBILE MIXER	S.C. / WASHOUT AREA

OUENCE

UENCING OF MAJOR SITE CONSTRUCTION ACTIVITIES IS AS FOLLOWS

RIMETER CONTROL DEVICES (SILT FENCE, BIO-LOGS, ETC.) AND INLET PROTECTION TO EXISTING STRUCTURES AS SHOWN ON ALL TREE PROTECTION FENCE AS SHOWN ON PLAN.

ABILIZED ROCK CONSTRUCTION ENTRANCE. GRUB SITE.

STOCKPILE TOPSOIL.

ADE OF SITE.

ENUDED AREAS AND STOCKPILES. NITARY SEWER, WATERMAIN, STORM SEWER AND SERVICES.

LET PROTECTION AROUND CATCH BASINS.

REET SECTION.

RB AND GUTTER. VEMENT.

IALL UTILITIES (GAS, ELECTRIC, PHONE, CABLE, ETC.)

BOULEVARD, LANDSCAPE AREAS, SEED AND MULCH

CUMULATED SEDIMENT.

CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD AND LANDSCAPING, REMOVE SILT RESEED ANY AREAS DISTURBED BY THE REMOVAL.

MENDED THAT THE CONTRACTOR MAINTAIN A STOCKPILE OF EROSION CONTROL DEVICES AND SEDIMENT CONTROL BMP'S 1ES FOR IMMEDIATE USAGE. IN THE EVENT OF AN ACCIDENTAL SEDIMENT DISCHARGE TO WATERS OF THE STATE, OR ANY ZARDOUS MATERIAL OF REPORTABLE QUANTITY, CONTACT THE MPCA STATE DUTY OFFICER AT 1-800-422-0798.

STALLATION

ENTION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED TO MINIMIZE EROSION FROM DISTURBED SURFACES AND T ON SITE. THE FOLLOWING LIST DEFINES THE TIMING OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IN

CONSTRUCTION:

ROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE SHOWN IN THE PLANS AND SHALL BE IMPLEMENTED PRIOR TO

LT FENCE OR OTHER SEDIMENT CONTROL AROUND THE PERIMETER OF AREAS TO BE GRADED AND ALL AREAS WHICH ARE NOT URBED AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN.

T GRAVEL CONSTRUCTION ENTRANCES AT FIELD ENTRANCES TO THE SITE AS SHOWN ON THE CONSTRUCTION PLANS. ECTION IS TO BE INSTALLED AT ALL STORM WATER INLETS WHICH HAVE THE POTENTIAL TO RECEIVE STORM WATER RUNOFF CONSTRUCTION SITE WITHIN 200 FEET OF LIMITS OF CONSTRUCTION.

T FENCE OR OTHER SEDIMENT CONTROL AROUND ALL TEMPORARY INACTIVE STOCKPILES. ALL SILT FENCES FOR STOCKPILES ICIDENTAL TO GRADING CONTRACT IF STOCKPILES ARE PLACED OUTSIDE OF SILT FENCES SHOWN ON THE PLAN.

ROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE SHOWN IN THE PLANS AND SHALL BE IMPLEMENTED DURING

DING WORK TO MINIMIZE THE DURATION THAT ANY DISTURBED SOIL IS EXPOSED. BED AREAS SHALL HAVE TEMPORARY PROTECTION OR PERMANENT COVER OVER EXPOSED SOIL AREAS IF NOT BEING ACTIVELY ND/OR IF NOT AT FINAL GRADE WITHIN **14 DAYS** OF DISTURBANCE ACTIVITY TEMPORARILY OR PERMANENTLY CEASING. Y SEED MIX 150, APPLIED AT A RATE OF 40 LBS/ACRE, SHALL BE USED PRIOR TO WINTER, IF SITE NOT SODDED.

STOCKPILE TOPSOIL FOR REPLACEMENT OF 6 INCHES OF TOPSOIL OVER TURF AREAS WHEN GRADING IS COMPLETE. NIMUM OF 2 TONS/ACRE OF STRAW ON ALL AREAS AFTER REACHING FINAL GRADE WITH TOPSOIL AND ANCHOR STRAW WITH RAIGHT DISK, HYDROMULCH OR POLYMER.

ION OF TEMPORARY OR PERMANENT DRAINAGE DITCHES THAT DRAIN WATER FROM THE CONSTRUCTION SITE MUST BE VITHIN 24 HOURS OF CONNECTING THE DRAINAGE DITCH TO ANY CONVEYANCE SYSTEM THAT DISCHARGES TO SURFACE HE FIRST 200 LINEAR FEET MUST BE STABILIZED WITHIN 24 HOURS. THE REMAINING DITCH SHALL BE STABILIZED WITHIN **14**

T FENCE AROUND ALL TEMPORARY INACTIVE STOCKPILES WHICH ARE NOT PLACED WITHIN EXISTING SILT FENCES OR OTHER CONTROLS

Y OR PERMANENT ENERGY DISSIPATION AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO BUT NO SOONER THAN 7 DAYS RON IS INSTALLED. RIPRAP SHALL BE INSTALLED UNDER APRON LIP ACCORDING TO THE STANDARD DETAIL. PERSONNEL, EQUIPMENT, AND MATERIALS SHALL BE MOBILIZED WITHIN 24 HOURS OF A WRITTEN ORDER BY THE OWNER OR EPRESENTATIVE TO CONDUCT CORRECTIVE WORK AND INSTALL TEMPORARY EROSION CONTROL WORK IN THE CASE OF AN

NY SEDIMENT THAT HAS BEEN TRACKED ONTO PUBLIC STREETS AT THE END OF THE DAY OR WITHIN 24 HOURS OF DETECTION, REQUENT AT DIRECTION OF SITE INSPECTOR.

L CONSTRUCTION DEBRIS IN DUMPSTERS AND ROLL-OFF BOXES, EMPTY WHEN DEBRIS REACHES TOP OF DUMPSTER. LLUTION CONTROL MEASURES AS SPECIFIED WITHIN SECTION 11 OF THE GENERAL PERMIT.

ONTROL BMP REMOVAL:

CONTROLS (WIMCO TYPE OR EQUAL) BMP'S ARE REMOVED FOR FLOODING / FREEZING CONCERNS UPON REQUEST OF THE TERSHED DISTRICT OR OTHER AGENCY, DOCUMENTATION SHALL BE ATTACHED TO THE INSPECTION REPORTS AND THIS SWPPP VITHIN 72 HOURS OF REQUEST. DOCUMENTATION SHALL BE A WRITTEN FORM OF CORRESPONDENCE VERIFYING THE NEED FOR

N OF CONSTRUCTION ACTIVITIES:

ON CONDITIONS ARE ACHIEVED FOR THE PROJECT WHEN PERMANENT EROSION CONTROL BMP'S ARE APPLIED TO THE SITE. THE ON CONTROL BMP'S MAY BE A COMBINED OF VEGETATIVE AND NON-VEGETATIVE COVER TYPES. ADDITIONAL REQUIREMENTS AL STABILIZATION PERMIT TERMINATION CONDITIONS INCLUDE

STURBING ACTIVITY IS COMPLETED. ALL DISTURBED AREA WITHOUT PERMANENT IMPERMEABLE SURFACES ARE VEGETATED FOR ILIZATION.

T STORMWATER TREATMENT SYSTEM (IF REQUIRED) IS CONSTRUCTED AND ACCUMULATED SEDIMENT HAS BEEN REMOVED STRUCTION ACTIVITY. CLEAN OUT ALL SEDIMENT FROM CONVEYANCES AND FROM TEMPORARY SEDIMENT BASINS THAT ARE) AS PERMANENT WATER QUALITY MANAGEMENT BASINS. THE CLEAN OUT OF PERMANENT BASINS MUST BE SUFFICIENT TO E BASIN TO DESIGN CAPACITY.

ATIVE COVER FOR THE SITE IS AT A DENSITY, WITH UNIFORM PERENNIAL COVER OF 70% OF THE EXPECTED FINAL GROWTH

RARY, SYNTHETIC BMP'S HAVE BEEN REMOVED.

ATION ESTABLISHMENT

SHALL FOLLOW THE RECOMMENDATIONS PER NOTES AND SPECIFICATIONS IN THE GRADING AND/OR LANDSCAPE PLAN. SEED AFTER OCTOBER 20TH SHALL CONFORM TO THE MNDOT SPECIFICATIONS FOR DORMANT SEEDING.

IS AND MAINTENANCE IMENT CONTROL INSPECTIONS:

CTIVITY AND ALL SUPPORT ACTIVITIES MUST BE INSPECTED (USING MPCA CONSTRUCTION STORMWATER INSPECTION CHECKLIST

OR AN ALTERNATIVE FORM) WITHIN THE PARAMETERS OF THE SCHEDULE BELOW. THE INSPECTOR SHALL BE A PERSON TRAINED AND FAMILIAR WITH THE REQUIREMENTS OF THIS SWPPPP AND THE MPCA MN R100001 PERMIT. ALTERNATES WILL INCLUDE INDIVIDUALS TO BE DESIGNATED BY THE OWNER AND MAY INCLUDE CONTRACTOR PERSONNEL OR OTHER QUALIFIED INDIVIDUALS AND SHALL BE LISTED IN THE PROJECT CONTACT INFORMATION SECTION OF THIS PLAN

INSPECTION SCHEDULE:

- INCHES.
- INACTIVE AND STABILIZED AREAS: INSPECTION NEEDED ONCE EVERY 30 CALENDAR DAYS.
- CONDITIONS).
- SUBJECT TO WINTER/FROZEN CONDITIONS: NOT APPLICABLE/NOT NEEDED IF NO CONSTRUCTION ACTIVITY IS OCCURRING.

SCOPE OF INSPECTION SHALL INCLUDE:

- 1. RECORD DATE AND TIME OF INSPECTION
- 2. NAME OF PERSON(S) CONDUCTING INSPECTION
- 3. FINDINGS OF THE INSPECTION
- 4. LOCATION AND CORRECTIVE ACTIONS NEEDED
- CORRECTIVE ACTIONS TAKEN (DATE.TIME/BY WHOM)
- 7. OBSERVED DISCHARGES LOCATIONS
- CONDITIONS.
- ELECTRONIC FORM ON SITE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES: THE OWNER/CONTRACTOR IS RESPONSIBLE FOR THE OPERATION, MAINTENANCE OF TEMPORARY AND PERMANENT WATER OUALITY MANAGEMENT BMPS AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE. THE CONTRACTOR MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS DURING ALL ROUTINE AND POST RAINFALL EVENTS. ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED BELOW.

THE FOLLOWING GUIDELINES WILL BE USED TO DETERMINE IF THE EROSION AND SEDIMENT CONTROL DEVICES REQUIRE MAINTENANCE, REPAIR, OR REPLACEMENT:

- DISCOVERY OR NOTIFICATION, OR AS SOON AS FIELD CONDITIONS ALLOW.
- ALLOW.
- OBSERVATION, OR AS FIELD CONDITIONS ALLOW ACCESS.
- MAINTAIN PUBLIC SAFETY OR PREVENT WASHING FROM FORECASTED RAINS.

TERMINATION OF COVERAGE

THE PROJECT PERMIT MAY BE TERMINATED IN ONE OF THE FOLLOWING SCENARIOS

- MIDNIGHT OF THE SUBMISSION DATE. OR:
- 3. PERMIT COVERAGE CAN BE TERMINATED IF ALL OF THE FOLLOWING ARE MET: 3.a. CONSTRUCTION ACTIVITY HAS CEASED FOR 90 DAYS; AND
- VEGETATION OR NON-VEGETATIVE COVER; AND
- 3.d. THE SITE IS COMPLIANT WITH PERMIT SECTIONS 13.3 THROUGH 13.7.

SILT FENCE **INLET PROTE** CULVERT PRO TEMPORARY PERMANENT MULCH CONCRETE WASHOUT STREET SWEEPING

- IF THE SITE IS ACTIVE: INSPECTION NEEDED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAT 0.5

- INACTIVE AREAS WITH FINAL STABILIZATION: INSPECTION NEEDED ONCE EVERY MONTH FOR 12 MONTHS (NOT INCLUDING FROZEN

6. DATE AND AMOUNT OF RAINFALL (RAINFALL AMOUNTS TO BE TAKEN FROM AN ONSITE RAIN GAUGE)

8. DESCRIBE DISCHARGE (COLOR, ODOR, FLOATING. SETTLED, SOLIDS, FOAM, OIL SHEEN) 9. THE SITE INSPECTOR WILL VISUALLY CHECK A DISCHARGE FROM A TEMPORARY OR PERMANENT SEDIMENTATION BASIN TO ENSURE ADEQUATE TREATMENT IS OBTAINED AND DISCHARGE WATER WILL NOT CONTRIBUTE EXCESSIVE SEDIMENT OR OTHER NUISANCE

10. RECORD CHANGES MADE TO THE SWPPP. AMENDMENTS FROM INSPECTIONS NEED TO BE COMPLETED WITHIN 7 DAYS. 11. ALL INSPECTIONS SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER COMPLETING THE FIELD INSPECTION AND AVAILABLE IN PAPER OR

1. ALL NON-FUNCTIONAL BMPS - OBSERVED CONDITION; SEDIMENT OVERTOPPING, UNDER WATER, SCOURED ENDS, UNDERMINED DESTROYED, NON-FUNCTION AS DESIGNED, ETC. - SHALL BE MAINTAINED OR REPLACED BY THE END OF THE NEXT BUSINESS DAY AFTER

2. PERIMETER SEDIMENT CONTROL (SILT FENCE, FIBER LOGS, BERMS, ETC.) - OBSERVED CONDITION TO BE 1/2 FULL OF SEDIMENT, FLATTENED TO 1/2 HEIGHT, DRIVEN OVER, UNDERMINED, SCOURED, MOVED FOR ACCESS, ETC. - SHALL BE MAINTAINED, REPAIRED OR SUPPLEMENTATION OF PERIMETER SEDIMENT CONTROL SHOULD BE DONE BY THE END OF NEXT BUSINESS DAY OR AD FIELD CONDITIONS

3. INLET PROTECTION BMPS, CONVEYANCES, SURFACE WATERS - OBSERVED CONDITION; SEDIMENT DEPOSITION, SEDIMENT DELTAS AN ACCUMULATION OF SEDIMENT MATERIAL, DEVICES APPEAR PLUGGED WITH SEDIMENT - REMOVAL/CLEAN OUT OF ACCUMULATED SEDIMENT AND DELTAS TO BE REMOVED WITHIN 7 DAYS, STABILIZE AS NEEDED IF SOILS ARE EXPOSED DURING REMOVAL/CLEAN OUT. 4. TEMPORARY SEDIMENT BASINS AND TRAPS/PERMANENT SEDIMENT BASINS - OBSERVED TO HAVE SEDIMENT DEPOSITION AND ACCUMULATION TO 3 OF THE STORAGE VOLUME - CLEAN OUT, REMOVE ACCUMULATED SEDIMENT MATERIAL WITHIN 7 DAYS OF

5. SITE EXIT LOCATIONS, ROCK EXIT PADS, OTHER ANTI-TRACKING PRACTICES - OBSERVED TO HAVE ACCUMULATED SEDIMENT IN ROCK OR OTHER ANTI-TRACKING BMP, TRACKING OF SEDIMENT FROM THE SITE ONTO PAVED SURFACES - TOP DRESS ROCK, MAINTAIN ROCK EXIT OR OTHER ANTI-TRACKING CONTROLS, SCRAP PAVED SURFACES, SWEEP PAVED SURFACES WITHIN 1 CALENDAR DAY OF DISCOVERY. 6. PAVED SURFACES AND ADJACENT STREETS - OBSERVED TO BE TRACKED WITH SEDIMENT AND SOIL MATERIAL FRO THE SITE HAULING OR ACCESS - SWEEP WITHIN 1 CALENDAR DAY OF DISCOVERY, ADDITIONAL AND/OR MORE FREQUENT SWEEPING MAY BE NEEDED TO

1. ALL CONSTRUCTION ACTIVITY IS COMPLETE, TEMPORARY SYNTHETIC BMP'S ARE REMOVED, ACCUMULATED SEDIMENT FROM CONSTRUCTION IS REMOVED, AND PERMANENT COVER HAS BEEN ACHIEVED WITH VEGETATIVE AND/OR NON-VEGETATIVE COVER. THE NOTICE OF TERMINATION FORM FROM THE PCA SHOULD BE COMPLETED WITHIN 30 DAYS OF MEETING THE CONDITIONS ABOVE. UPON MIDNIGHT OF THE POST MARKED DATE, THE PERMIT COVERAGE IS TERMINATED UNLESS OTHERWISE NOTIFIED BY THE MPCA. OR: 2. WITHIN 30 DAYS OF SELLING OR OTHERWISE LEGALLY TRANSFERRING OWNERSHIP OF THE SITE IN IT'S ENTIRETY (INCLUDING STREET SWEEPING AND STORMWATER INFRASTRUCTURE) FROM THE ORIGINAL OWNER TO ANOTHER PARTY TAKING RESPONSIBILITY OF OWNERSHIP. THE TERMINATION IS EFFECTIVE UPON MIDNIGHT OF THE SUBMISSION DATE OF THE NOT. IF A PORTION OF THE SITE IS TRANSFERRED (I.E. OUTLOTS, LOTS/BLOCKS) THAT PORTION OF THE SITE IS TERMINATED FROM THE ORIGINAL PERMIT COVERAGE AT

3.b. AT LEAST 90% OF THE AREA OF THE ORIGINALLY PROPOSED ACTIVITY HAS BEEN COMPLETED AND PERMANENTLY ESTABLISHED WITH

3.c. WHERE CONSTRUCTION ACTIVITY IS NOT COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED; AND

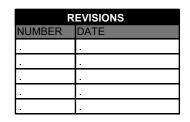
4. WHERE THE PROJECT OBTAINED PERMIT COVERAGE BUT NEVER STARTED CONSTRUCTION ACTIVITY DUE TO CANCELLATION OR OTHER REASONS, DOCUMENTATION SHOULD BE SENT TO THE PCA WITH THE NOT FORM AND IS SUBJECT TO PCA APPROVAL.

SWPPP BMP QUANTITIES

ECTION
OTECTION
Y SEED MIX (21-111)
T SEED MIX (25-131)

EROSION CONTROL BLANKET ROCK CONSTRUCTION ENTRANCE 2,300 LF 2 EACH 7 EACH 3 ACRES 2.3 ACRES 5 ACRE 41,800 SF 1 EACH 1 EACH AS NEEDED

1019 Industrial Dr S • Sauk Rapids, MN 56379 3301 11th St E • Glencoe, MN 55336 150 St Andrews Ct, Ste 510 ● Mankato, MN 5600 4201 38th St SW, Ste 209 • Fargo, ND 58104



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Willow R. Hu

Lic. No. 44984 Date: 07.14.2022

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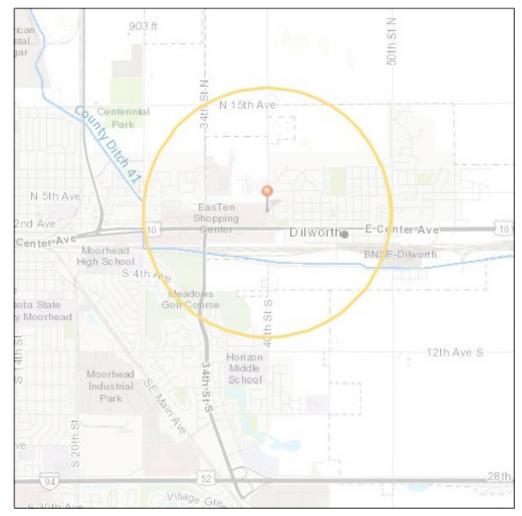


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SWPPP NOTES

LISTED BELOW ARE ADDITIONAL BMP'S THAT MAY BE CONSIDERED FOR USE IF THE BMP'S IDENTIFIED IN THE EROSION CONTROL PLANS PROVE TO BE INSUFFICIENT. PAYMENT FOR THESE BMP'S MAY ONLY BE MADE IF PRIOR APPROVAL FROM AN OWNER HAS BEEN GIVEN.

- 1. LONG-STEEP CUT/FILL SLOPES
- THERE WILL BE NO UNBROKEN SURFACE SLOPE LENGTHS OF GREATER THAN 75 FEET FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER WITHIN 200 FEET OF SURFACE WATERS. ALL EXPOSED AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 FEET OF A SURFACE WATER WILL HAVE A TEMPORARY OR PERMANENT COVER YEAR ROUND. THE EXPOSED SOILS SHALL BE STABILIZED WITHIN 14 DAYS PLANNED SLOPES OF 3:1 (H:V) OR STEEPER AND GREATER THAN 75 FT IN LENGTH WILL BE TEMPORARILY
- OR PERMANENTLY STABILIZED IN INCREMENTS NOT TO EXCEED 75 FT, PRIOR TO CONSTRUCTION OR DISTURBING A NEW INCREMENT.
- LONG SLOPES SHOULD BE BROKEN INTO SHORTER LENGTHS BY INSTALLING STRAW BIOROLLS IN INTERLOCKING HERRINGBONES AS SHOWN ON THE GRADING PLAN. IF TEMPORARY SEEDING AND MULCH CAN NOT BE USED ON SLOPES STEEPER THAN 3:1, THEN THE SLOPE MAY BE COVERED WITH TARPS OR PLASTIC SHEETING. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- THE SOIL SURFACE ON RE-VEGETATED SLOPES WILL BE ROUGHENED USING ANY APPROPRIATE IMPLEMENT THAT CAN BE SAFELY OPERATED ON THE SLOPE, SUCH AS BULLDOZERS OR DISKS. THE GROOVES SHALL BE CREATED PERPENDICULAR TO THE SLOPE TO HELP ESTABLISH VEGETATIVE COVER, REDUCE RUNOFF VELOCITY, INCREASE INFILTRATION, AND PROVIDE FOR SEDIMENT TRAPPING.
- 2. CULVERT INLET/OUTLET PROTECTION
- SOD MAY BE PLACED AND ANCHORED AT CULVERT INLETS AS SHOWN ON THE GRADING PLAN, UNLESS VELOCITIES REQUIRE RIPRAP.
- AT LEAST ONE 2-FOOT WIDE STRIP OF SOD OR FIBER BLANKET SHALL BE PLACED ALONG THE EDGES OF
- CULVERT HEADWALLS AND WINGWALLS AS SHOWN ON THE GRADING AND/OR UTILITY PLANS. RIPRAP AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO BUT NO SOONER THAN 7 DAYS BEFORE APRON IS INSTALLED. RIPRAP SHALL BE INSTALLED UNDER APRON LIP ACCORDING TO THE STANDARD DETAIL.
- STORM SEWER INLET PROTECTION
- STORM DRAIN INLETS SHALL BE PROTECTED UNTIL THE DISTURBED AREAS THAT COULD DISCHARGE TO AN INLET HAVE BEEN STABILIZED.
- INFRASAFE SEDIMENT CONTROL BARRIERS OR APPROVED EQUAL SHALL BE USED WHEN CASTINGS ARE NOT IN PLACE. AS INDICATED ON THE UTILITY PLAN AND AS APPROVED BY THE OWNER.
- INFRASAFE DEBRIS COLLECTION DEVICE OR APPROVED EQUIVALENT SHALL BE USED WHEN CASTINGS ARE IN PLACE AS INDICATED ON THE UTILITY PLAN AND AS APPROVED BY THE OWNER.
- DOCUMENTATION IS NEEDED WITHIN 72 HOURS IF REMOVAL OF PROTECTION BMPS IS NEEDED DUE TO WINTER CONDITIONS OR FLOODING CONCERNS.
- 4. STORM WATER POND OUTLETS
- TEMPORARY OR PERMANENT ENERGY DISSIPATION MEASURES SHALL BE IN PLACE AT THE STORM WATER POND OUTLETS WITHIN 24 HOURS OF DIRECT CONNECTION TO A SURFACE WATER.
- RIPRAP AT PIPE APRON OUTLETS WILL BE PLACED PRIOR TO APRON INSTALLATION AND SHALL BE INSTALLED UNDER THE APRON LIP.
- POND EMERGENCY SPILLWAYS SHALL BE LINED BASED ON THE DESIGN DISCHARGE FLOW VELOCITY AND AS INDICATED ON GRADING AND/OR UTILITY PLANS.
- 5. TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT BASINS WILL BE PROVIDED WHERE 10 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATIONS. THE BASIN SIZE IS BASED ON RUNOFF FROM A 2-YEAR, 24 HOUR STORM, FOR EACH ACRE DRAINED TO THE BASIN. AT A MINIMUM, THE BASIN WILL PROVIDE 1800 CUBIC FEET OF STORAGE FOR EACH ACRE DRAINED TO THE BASIN.
- SEDIMENT BASINS WILL DETAIN WATER LONG ENOUGH TO SETTLE OUT AT LEAST 75 PERCENT OF THE SEDIMENT. THE USE OF FLOCS MAY BE NECESSARY. THE DISCHARGE QUALITY SHALL BE EQUAL TO OR BETTER THAN THE RECEIVING WATER. THE TEMPORARY BASIN MAY BE DRAWN DOWN WITH A PUMP TO INCREASE CAPACITY FOR THE NEXT RAIN EVENT. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- THE SEDIMENT PONDS WILL BE EXCAVATED TO MAINTAIN THE NECESSARY SEDIMENT CAPACITY AND CONTAINMENT
- TEMPORARY SEDIMENT FOREBAYS WILL BE CONSTRUCTED TO CAPTURE SEDIMENT BEFORE IT ENTERS THE POND, IF NECESSARY.
- THE SEDIMENT PONDS WILL BE MONITORED BY THE CONTRACTOR TO DETERMINE THE SEDIMENT LEVEL IN THE POND
- WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE TEMPORARY BASIN REACHES ¹/₂ FULL (50% OF THE STORAGE VOLUME) THE BASIN SHALL BE DRAINED USING PUMPS AND ENERGY DISSIPATION AND SEDIMENT REMOVAL SHALL BE COMPLETED WITHIN 72 HOURS OF DISCOVERY OF THE BASIN BEING 1/2 FULL OF SEDIMENT, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- TEMPORARY SEDIMENT BASINS WILL HAVE A STABILIZED EMERGENCY OVERFLOW AND CONTAIN ENERGY DISSIPATION AT BASIN OUTLET.
- DEEP UTILITIES: WATER AND SANITARY/GAS LINE
- SILT FENCE OR A SIMILAR TYPE OF PERIMETER CONTROL SHALL BE PLACED DOWN GRADIENT OF THE EXCAVATED SOIL IF WORK IS DONE WITHIN 200 FEET OF WETLANDS OR STREAMS.
- DISTURBANCE OF CHANNEL BANKS, WETLANDS, AND IMPORTANT VEGETATION AREAS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
- THE UTILITY CONSTRUCTION SITE SHALL BE SEEDED WITH A TEMPORARY
- SEED MIX AND MULCH AFTER INSTALLATION IF THE SITE WILL BE IDLE FOR 7, 14, OR 21 DAYS DEPENDING UPON SLOPES OF STEEPER THAN 3:1, 3:1 TO 10:1 AND FLATTER THAN 10:1 RESPECTIVELY.



VICINITY MAP/IMPAIRED WATERS MAP

7. STOCKPILES (TEMPORARY AND PERMANENT)

 LOCATE STOCKPILES A MINIMUM OF 100 FEET FROM CATCH BASIN INLETS, PONDS, AND SITE DRAINAGE ROUTES

 PERIMETER CONTROLS SUCH AS SILT FENCE SHALL BE INSTALLED AROUND ALL STOCKPILES IF NOT PLACED WITHIN EXISTING SILT FENCES OR OTHER SEDIMENT CONTROL. • TEMPORARY SEED AND MULCH SHALL BE USED TO STABILIZE THE STOCKPILES AND THE STOCKPILES SHALL BE SHAPED TO FACILITATE SEEDING AND MINIMIZE EROSION AND SHALL BE SEEDED WITHIN 7 DAYS. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT. IF TEMPORARY SEED AND MULCH CANNOT BE USED, THEN THE STOCKPILES SHALL BE COVERED WITH HYDROMULCH, TARPS OR PLASTIC SHEETING AS APPROVED BY THE OWNER. IF STOCKPILES MUST BE PLACED WITHIN A CONVEYANCE A TEMPORARY BYPASS SHALL BE INSTALLED (I.E.

PVC PIPE) TO ADEQUATELY CONVEY RUNOFF. TEMPORARY BYPASS BMPS SHALL BE INCIDENTAL TO THE CONTRACT UNLESS PREVIOUSLY APPROVED BY THE OWNER / ENGINEER

8. CONSTRUCTION DEWATERING

 DURING DEWATERING ACTIVITIES, THE SEDIMENT LADEN WATER CANNOT BE DIRECTLY DISCHARGED TO SURFACE WATERS. OPTIONS FOR REDUCING THE TURBIDITY OF THE WATER INCLUDE: (TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT):

- CONSTRUCT A TEMPORARY SEDIMENT TRAP FOR TURBID WATER DISCHARGE.
- USE A PORTABLE SEDIMENT TRAP SYSTEM. APPLY NATURAL BASED FLOCCULENT TECHNOLOGY SUCH AS CHITOSAN IN SEDIMENT TRAPS 0 OR A
- SERIES OF DITCH CHECKS TO CONTAIN SEDIMENT.
- DISCHARGE THROUGH FIBERLOGS OR A ROCK WEEPER INTO A LARGE VEGETATIVE BUFFER ARFA
- PUMP TO A TEMPORARY SEDIMENT BASIN.
- ENERGY DISSIPATION WILL BE PROVIDED AT ALL DISCHARGE POINTS. DEWATERING OR BASIN DRAINING ACTIVITIES WILL NOT CAUSE EROSION IN RECEIVING CHANNELS OR

ADVERSELY IMPACT WETLANDS. ALL EROSION CONTROL OR SEDIMENT TRAPS REQUIRED FOR CONSTRUCTION DEWATERING SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION ACTIVITY REQUIRING DEWATERING.

CONSTRUCTION ENTRANCES

• A TEMPORARY CRUSHED ROCK OR WOOD CHIP PAD SHALL BE LOCATED WHERE VEHICLES LEAVE THE CONSTRUCTION SITE.

 THE CONSTRUCTION ENTRANCE PAD SHALL BE AT LEAST 50 FEET IN LENGTH. GEOTEXTILE FABRIC MAY BE PLACED UNDER THE CRUSHED ROCK OR WOOD CHIPS TO PREVENT MIGRATION OF MUD FROM UNDERLYING SOIL INTO THE CONSTRUCTION ENTRANCE MATERIAL • ROCK PADS SHALL BE CONSTRUCTED OF ROCK 1 TO 3 INCHES IN SIZE AND PLACED IN 6 INCH LAYERS. CONSTRUCTION ENTRANCES SHALL BE INSPECTED AT LEAST EVERY 7 DAYS AND MAINTAINED AS NFEDED.

 TRACKED SEDIMENTS SHALL BE REMOVED FROM PAVED SURFACES AT THE END OF EACH DAY USING PICK-UP TYPE STREET SWEEPER.

 IF TRACKING INTO ROADWAY BECOMES PROBLEMATIC THE ENTRANCE PADS SHALL BE LENGTHENED OR ANOTHER TECHNIQUE APPLIED. TEMPORARY EROSION CONTROL DEVICES REQUIRED DUE TO CONTRACTORS METHOD OF SEQUENCING THEIR CONSTRUCTION WORK SHALL BE INCIDENTAL TO THE GRADING CONTRACT.

• THE CONSTRUCTION ENTRANCE SHALL BE MONITORED CLOSELY DURING WET CONDITIONS. IF TRACKING INTO ADJACENT ROADWAYS OCCURS, THE FREQUENCY OF STREET SWEEPING SHALL BE INCREASED

10. CONCRETE TRUCK WASHOUT

 CONCRETE TRUCKS SHALL UTILIZE THE CONCRETE WASHOUT AREA SHOWN ON THE PLANS TO WASH AND RINSE THEIR EQUIPMENT PRIOR TO LEAVING THE SITE.

- WASHOUT OF CONCRETE MIXER TRUCKS WILL BE PERFORMED IN THE DESIGNATED AREAS ONLY. WASHOUTS WILL BE CONSTRUCTED AND MAINTAINED TO PROVIDE SUFFICIENT CONTAINMENT FOR ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- WASHOUTS SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE BY THE UTILITY CONTRACTOR WITH APPROVAL FROM OWNER.
- WASHOUTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM DRAINAGE FACILITIES AND WATERCOURSES.

 CONCRETE WASHOUT AREAS WILL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL.

 IMPERMEABLE LINER INCLUDES 10 MIL POLYLINER OR COMPACTED CLAY LINER. WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.

11. VEHICLE MAINTENANCE

 ROUTINE MAINTENANCE OF VEHICLES AND FOUIPMENT SHALL OCCUR IN STAGING AREAS ONLY VEHICLE WASHING SHOULD BE AVOIDED. IF WASHING IS NECESSARY, RUNOFF FROM THE WASHING WILL BE CONTAINED AND LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE CONTAINED AND WASTE PROPERLY DISPOSED OF.

 ENGINE DEGREASING SHALL BE AVOIDED. IF DEGREASING IS NECESSARY, RUNOFF FROM THE OPERATION WILL BE CONTAINED IN A LINED SEDIMENT TRAP AND PROPERLY DISPOSED OF AT A TREATMENT FACILITY.

 ALL REQUIRED SEDIMENT TRAPS AND CONTAINMENT FACILITIES AND PROPER DISPOSAL OF WASH WATER/DEGREASING AT A TREATMENT FACILITY SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

12. FUELING

 ANY FUEL TANK OR TRUCK STORED ON THE PROJECT SITE SHALL BE PROTECTED BY A SECONDARY CONTAINMENT SYSTEM.

 FUELING AREAS SHALL NOT BE WASHED OR RINSED WITH WATER SINCE THIS COULD CAUSE FUEL SPILLS TO BE DISCHARGED INTO STORM WATER SYSTEMS.

 ABSORBENT MATERIALS SHALL BE AVAILABLE ON SITE FOR USE IN CLEANING UP SMALL SPILLS. ALL REQUIRED FUEL CONTAINMENT AND CLEAN-UP MATERIALS AND THE PROPER DISPOSAL OF THE MATERIALS SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.



WEB SOIL SURVEY MAP

- 13. HAZARDOUS MATERIALS
- HAZARDOUS MATERIALS SHALL BE PROPERLY STORED TO PREVENT VANDALISM OR UNAUTHORIZED ACCESS
- CONTAINMENT UNITS SHALL BE INSTALLED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- MPCA STORING AND DISPOSAL REQUIREMENTS SHALL BE FOLLOWED FOR ALL HAZARDOUS WASTE. NO HAZARDOUS MATERIAL SHOULD BE STORED WITHIN 200 FEET OF AN IDENTIFIED CRITICAL AREA. ABSORBENT MATERIALS SHALL BE AVAILABLE FROM THE CONTRACTOR ON SITE FOR USE IN CLEANING
- UP SMALL SPILLS. IF BUILDING MATERIALS, CHEMICALS, OR GENERAL REFUSE IS BEING USED, STORED, DISPOSED OF, OR
- OTHERWISE MANAGED INAPPROPRIATELY, THE CONTRACTOR SHALL CORRECT SUCH DEFECTS WITHIN 24 HOURS OF DETECTION OR NOTIFICATION.
- ALL REQUIRED CONTAINMENT / STORAGE UNITS / ABSORBENT MATERIAL AND REQUIRED DISPOSAL SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.
- 14. CHEMICAL CONTAINMENT
- GASOLINE, OIL, PAINT, SOLVENTS, AND OTHER CHEMICALS NECESSARY FOR CONSTRUCTION ARE NOT ALLOWED TO CONTACT THE GROUND SURFACE, BE EXPOSED TO GROUNDWATER OR BE RELEASED TO A SURFACE OR GROUNDWATER EXCEPT IN DE MINIMIS QUANTITIES. ALL PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINER, WITH ORIGINAL LABELS STILL ATTACHED,
- UNLESS THE CONTAINER IS NOT RESEALABLE. HAZARDOUS MATERIALS SHALL BE RETURNED TO THE HAZARDOUS MATERIAL STORAGE AREA AT THE
- END OF EACH DAY. • AN EFFORT SHOULD BE MADE TO STORE ONLY ENOUGH PRODUCTS TO DO THE REQUIRED JOB. THE CONTRACTOR SHALL PROVIDE TANKS OR BARRELS TO COLLECT LIQUID BYPRODUCTS THAT POSE A
- POLLUTION HAZARD. THE POLLUTANTS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS AND DISPOSED OF IN
- ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, IN ACCORDANCE WITH THE
- MANUFACTURE'S RECOMMENDED METHODS. ALL REQUIRED CONTAINMENT / STORAGE UNITS / ABSORBENT MATERIAL AND REQUIRED DISPOSAL
- SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT ALL STORAGE AREAS SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.
- 15. SOLID WASTE SOLID WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS AND PROPERLY DISPOSED OF ON A REGULAR BASIS.
- CONTAINERS SHALL BE COVERED TO PREVENT WIND BLOWING THE WASTE AROUND THE SITE.
- MPCA DISPOSAL REQUIREMENTS WILL BE FOLLOWED FOR ALL SOLID WASTE. SOLID WASTE STORAGE CONTAINERS AND PROPER DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION CONTRACT.

16. DUST CONTROL

- THE CONTRACTOR SHALL USE A VARIETY OF DUST CONTROL INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A. RAPID STABILIZATION METHODS ON SLOPES WATER ON ROADWAYS AND GRADED AREAS
 - C. ALTERNATIVES: IN THE FORM OF VEGETABLE POLYMERS, WATER AND CALCIUM CHLORIDE
- PETROLEUM EMULSION RESINS, OR ACRYLIC COPOLYMERS MAY ALSO BE USED. ALL REQUIRED DUST CONTROL SHALL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT AS PER
- SPECIFICATIONS.
- 17. WINTER STABILIZATION COVER EXPOSED SOILS ON OR AROUND NOV. 15TH AND/OR PRIOR TO TERMINATION OF CONSTRUCTION ACTIVITIES FOR WINTER
- ALL EXPOSED SOILS TO BE COVERED WITH 2 TONS TYPE 1 MULCH
- ALL EXPOSED SOILS TO BE SEEDED WITH MNDOT SEED MIX 150
- ALL LOW POINTS IN ROADS TO BE ADEQUATELY DRAINED IN ACCORDANCE WITH NPDES DEWATERING REQUIREMENTS PART IV. CONSTRUCTION ACTIVITY REQUIREMENTS. SECTION D. DEWATERING AND BASIN DRAINING.
- PERIMETER SILT FENCE OR OTHER CONTROLS TO BE INSTALLED 3-5 FEET FROM THE BACK OF THE CURB AND OUT OF THE PLOWED SNOW AREA. PERIMETER CONTROLS AROUND PERMANENT STORMWATER BASINS TO BE INSTALLED AND MAINTAINED
- INLET CONTROLS TO BE REMOVED ACCORDING TO LEGAL REQUIREMENTS WITH DOCUMENTATION WITHIN 72 HOURS FROM LEGAL AUTHORITY.
- IF WORK HAS OCCURRED NEAR OR IN STREAMS OR OTHER SURFACE WATERS, THE EXPOSED SOILS SHALL BE STABILIZED TO PROTECT AGAINST FLOODING AND SPRING RUNOFF TO THE 100-YR FLOOD ELEVATION.
- ALL TEMPORARY AND PERMANENT STORMWATER BASINS AND SEDIMENT BASINS SHOULD HAVE OUTLETS AND STABILIZED EMERGENCY OVERFLOWS INSTALLED AS PER THE GRADING AND/OR UTILITY PLAN AND AT THE APPROVAL OF THE OWNER.

18. NON-STORMWATER DEWATERING

- HYDRANT FLUSHING: FLUSHING OF HYDRANTS WILL BE DISCHARGED THROUGH TEMPORARY PIPES AS NECESSARY, ONTO IMPERVIOUS SURFACES OR TO STABILIZED ARES WITH ENERGY DISSIPATION AT THE DISCHARGE POINT. THE DISCHARGE SHOULD BE COLLECTED BY THE
- POTABLE WATER DISCHARGE: ALL WATER LINES WILL BE FLUSHED USING HOSES AND DISCHARGED ONTO AN IMPERVIOUS SURFACE AND DIRECTED TO THE STORM SEWER INFRASTRUCTURE BY NON-EROSIVE MEANS.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1901A	Urban Land- Aquerts complex, 0 to 2 percent slopes	15.1	100.0%
Totals f	or Area of	15.1	100.0%

SOIL MAP UNIT SYMBOL LEGEND

STORM WATER BASINS AND STORM SEWER SYSTEM.





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F	REVISIONS		
NUMBER	DATE		

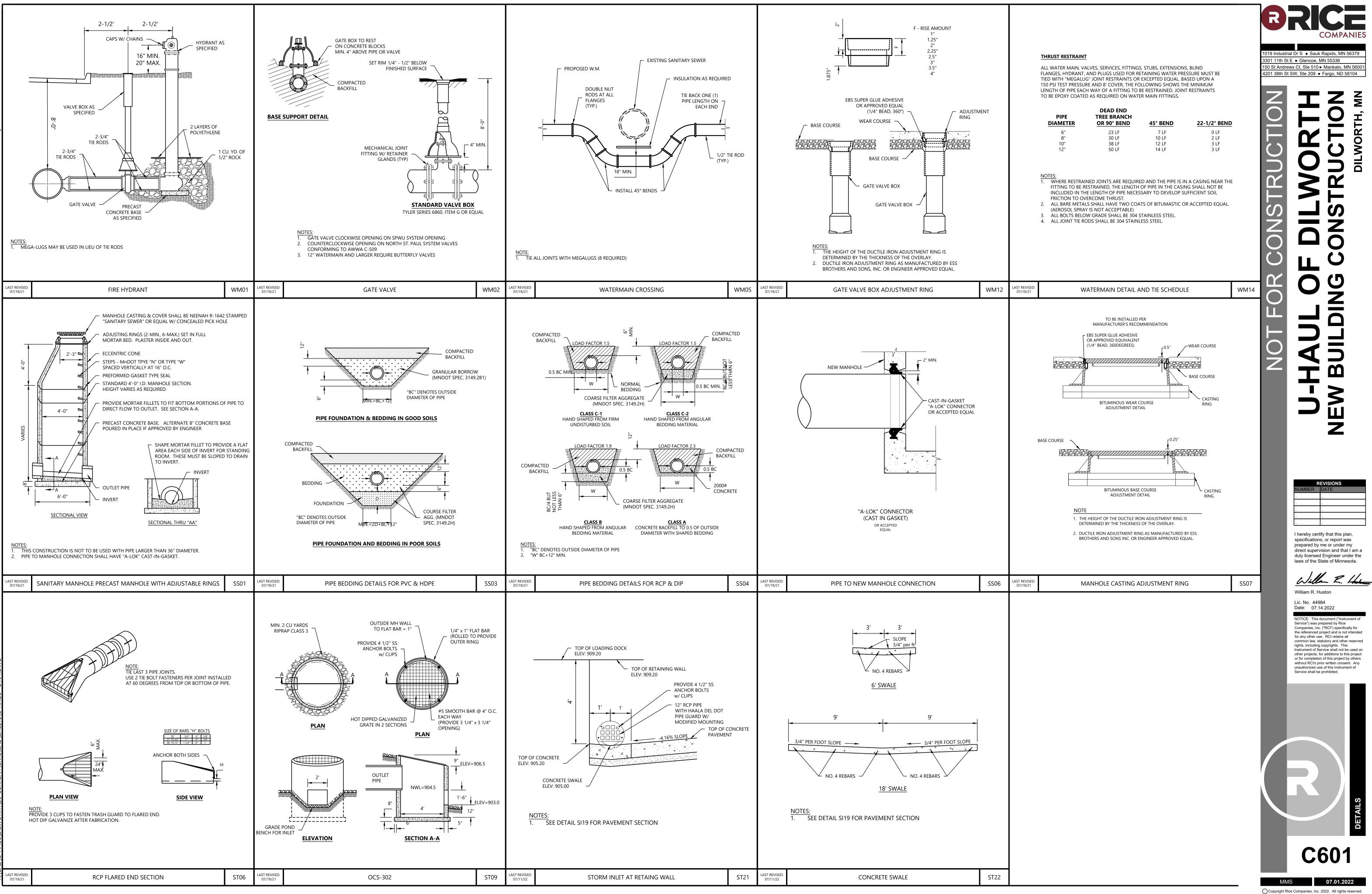
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Willow R. Hung

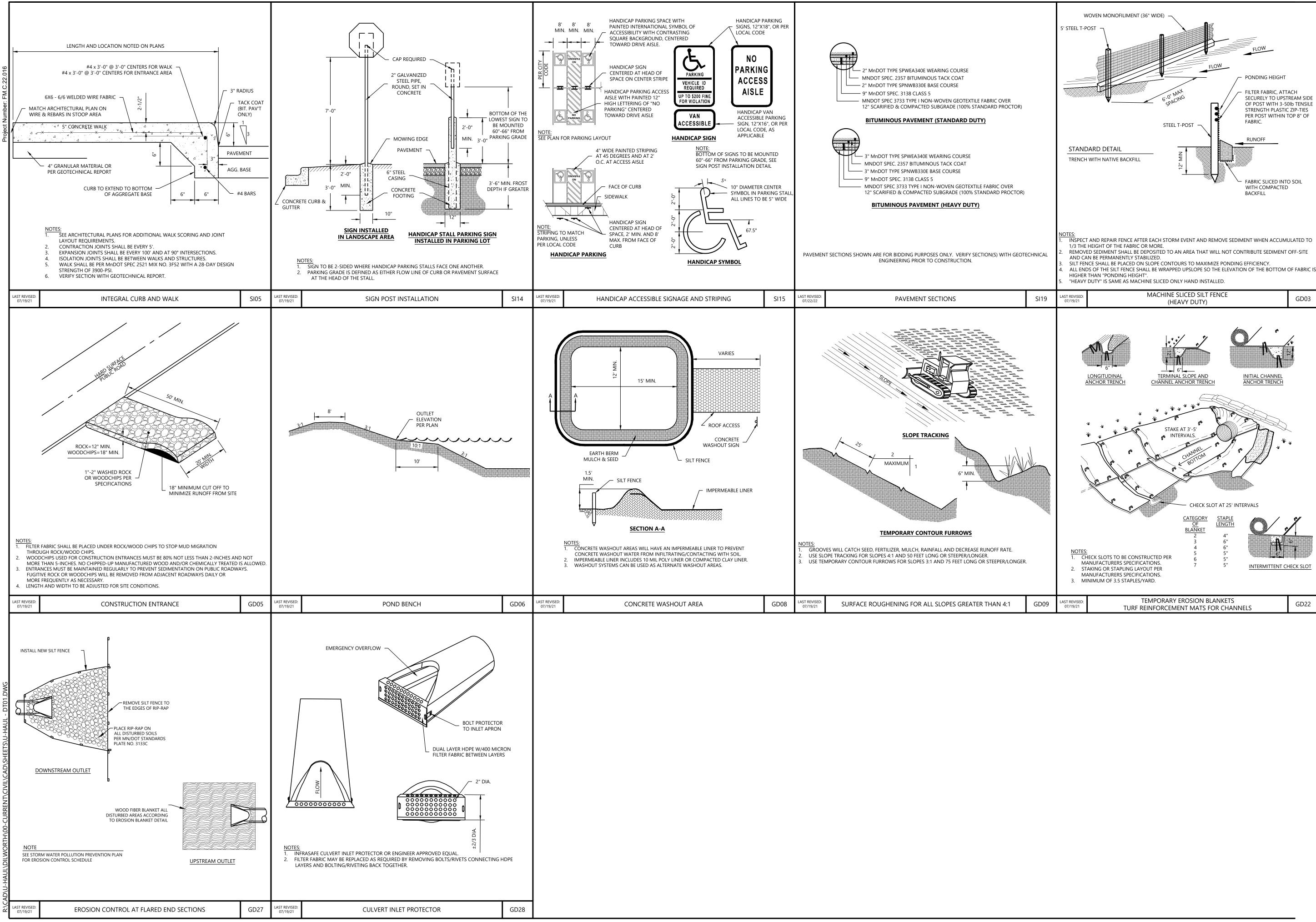
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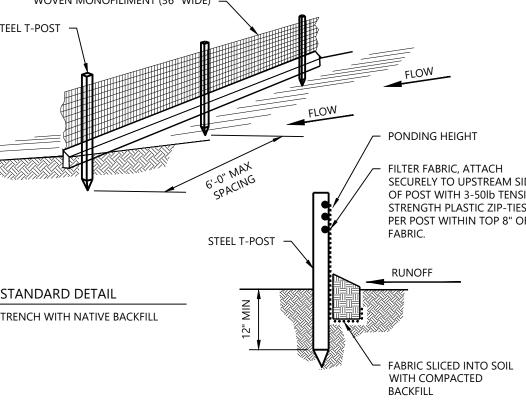
PIPE DIAMETER	DEAD END TREE BRANCH <u>OR 90° BEND</u>	45° BEND	<u>22-1/2° BEND</u>
6"	23 LF	7 LF	0 LF
8"	30 LF	10 LF	2 LF
10"	38 LF	12 LF	3 LF
12"	50 LF	14 LF	3 LF





Industrial Dr S • Sauk Rapids, MN 56379 01 11th St E • Glencoe, MN 55336 150 St Andrews Ct, Ste 510

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REVISION

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