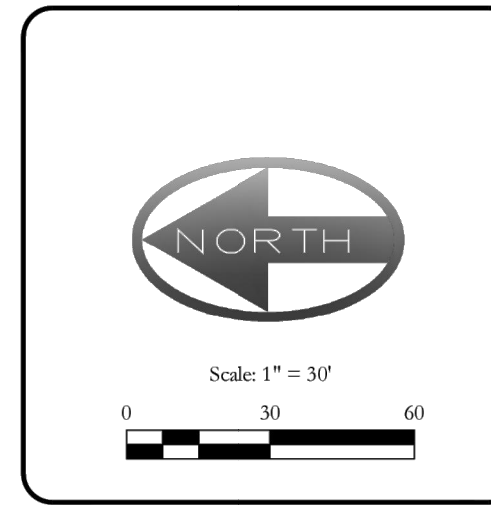


- Legend of Symbols & Abbreviations**
- FOUND MONUMENT (AS NOTED)
 - SET 5/8" CAPPED REBAR
 - WENINGEN M.S. 5758
 - ◆ COMPUTED POINT
 - ◆ TEMPORARY BENCHMARK
 - POWER POLE
 - ELECTRIC MANHOLE
 - LIGHT POLE
 - GUY WIRE ANCHOR
 - ELECTRIC METER
 - ELECTRIC CABINET
 - AC UNIT
 - FIBER OPTIC VAULT
 - TELEPHONE PEDISTAL
 - FIRE HYDRANT
 - WATER VALVE
 - GAS VALVE
 - SEWER MANHOLE
 - CLEAN OUT
 - SIGN
 - BOLLARD
 - MAILBOX
 - FLARED END SECTION
 - UTILITY VAULT
 - FIBER OPTIC MARKER
 - GATE POST
 - GRATED INLET
 - MANHOLE
 - (M) MEASURED CALCULATED DIMENSION
 - (R) RECORD DIMENSION
 - N/P NOT OR FORMERLY
 - R/W RIGHT-OF-WAY
 - CL CENTERLINE
 - OVH OVERHANG
 - TBM TEMPORARY BENCHMARK
 - ROC ROCK OF CURB
 - FL FLOW LINE
 - EC EDGE OF CONCRETE
 - EG EDGE OF GRAVEL
 - EA EDGE OF ASPHALT
 - TA TOP OF ASPHALT
 - TG TOP OF GRAVEL
 - TC TOP OF CONCRETE
 - TA TOP OF ASPHALT
 - TB TOP OF BANK
 - BB BOTTOM OF BANK
 - NG NATURAL GROUND
 - OVERHEAD POWER LINE
 - EASEMENT LINE
 - BUILDING OVERHANG
 - CENTERLINE
 - UNDERGROUND SEWER LINE
 - RIGHT-OF-WAY
 - FLOOD ZONE LINE
 - SUBJECT PROPERTY LINE

Temporary Benchmarks Information

THBM#1
FOUND 2" HELEMUND ROD
STAMPED "CORY 1993 2009"
PUBLISHED NORTHING: 10286848
PUBLISHED EASTING: 20682909
ELEVATION: 905.44'

THBM#2
SET MAG NAIL
ELEVATION: 906.50'



BLEW & ASSOCIATES, PA
CIVIL ENGINEERS & LAND SURVEYORS
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.443.4806
FAX: 479.582.1883
www.BLEWINC.com

DESIGNED BY & DATE	APPROVED BY	REVIEWED BY
JMC 11/17/2021	RJW	GB
COUNTY	JOB NUMBER	JOB SHEET
CLAY COUNTY, MINNESOTA		21-9344
LOCATION	1101 CENTER AVENUE WEST, DILWORTH, MINNESOTA 56529	
FOR THE USE AND BENEFIT OF:		
AMERCO U-HAUL ENTITY NO. 723076		

Sheet 2 of 2

NOT FOR CONSTRUCTION

U-HAUL OF DILWORTH

NEW BUILDING CONSTRUCTION

DILWORTH, MN

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.

William R. Huston
William R. Huston
Lic. No. 44984
Date: 07.14.2022

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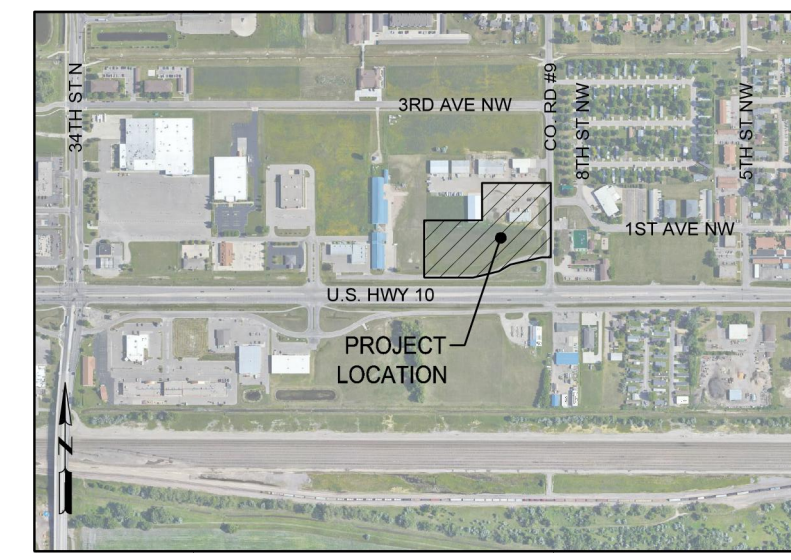
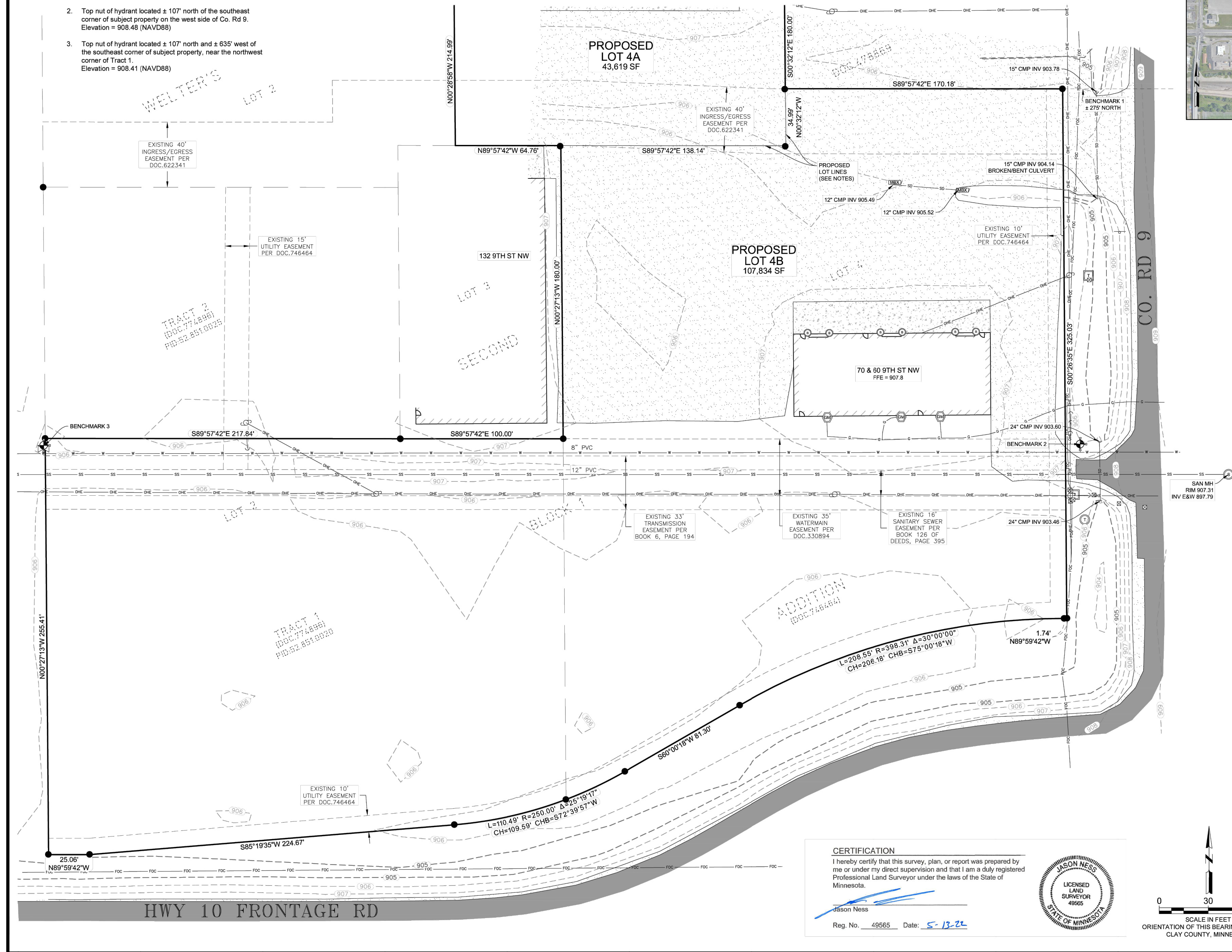


C101

TOPOGRAPHIC SURVEY

BENCHMARK

1. NGS Monument CORY RESET located ±275 feet north of the northeast corner of subject property on the west side of Co. Rd 9. Elevation = 905.44 (NAVD88)
2. Top nut of hydrant located ±107' north of the southeast corner of subject property on the west side of Co. Rd 9. Elevation = 908.48 (NAVD88)
3. Top nut of hydrant located ±107' north and ± 635' west of the southeast corner of subject property, near the northwest corner of Tract 1. Elevation = 908.41 (NAVD88)



GENERAL SURVEY NOTES:

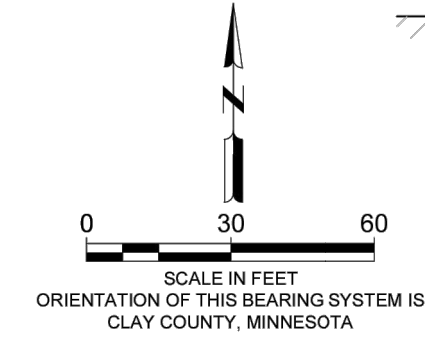
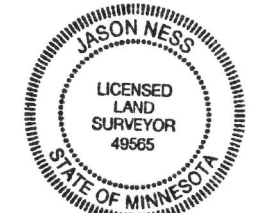
1. The proposed Lot 4A and Lot 4B are based on the preliminary REPLAT OF LOT 4 OF WELTER'S SECOND ADDITION to the City of Dilworth as of 05/13/2022.
2. All underground utility locations shown hereon were either marked by their owners or taken from maps supplied to Mead and Hunt, Inc. Mead and Hunt, Inc. does not verify to the accuracy of these locations. Persons using this survey should contact each utility company to verify that all locations are shown hereon. Minnesota Gopher State One Call ticket numbers 22124456 and 22124459.
3. Date of field work: 05/06/2022
4. Distances shown are as measured and are ground distances.
5. Contour intervals shown are 1'.
6. Coordinate system/units
-Clay County, Minnesota
-US Survey Foot
7. Vertical datum
-NAVD 88

LEGEND

	Benchmark
	Found Monument
	Water Gate Valve
	Hydrant
	Sanitary Manhole
	Telephone Pedestal
	Telephone Vault
	Telephone Manhole
	Gas Meter
	Power Pole
	Pole Anchor
	Traffic Sign
	Mailbox
	Bollard
	Underground Gas Line
	Underground Fiber
	Storm Sewer
	Sanitary Sewer
	Water Line
	Overhead Electric
	Major Contour
	Minor Contour
	Existing Easement Line
	Existing Lot Line
	Proposed Lot Line
	Property Boundary
	Gravel
	Concrete
	Asphalt
	Building

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

Jason Ness
Reg. No. 49565 Date: 5-13-22



Mead & Hunt
Mead and Hunt, Inc.
8 Seventh Street North
Fargo, ND 58102
phone: 701-566-6450
meadhunt.com

RICE COMPANIES
U.S. HWY 10 & CO. RD 9
DILWORTH, MINNESOTA

NOT FOR CONSTRUCTION

U-HAUL OF DILWORTH

NEW BUILDING CONSTRUCTION

DILWORTH, MN

REVISIONS	
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ISSUED: _____

M&H No: 4666098-221272.01
DATE: May 13th, 2022
DRAWN BY: LSJ
CHECKED BY: JIN
APPROVED BY: JIN
DO NOT SCALE DRAWINGS

SHEET CONTENTS
Topographic Survey

SHEET NO. 1 of 1
V1



C102

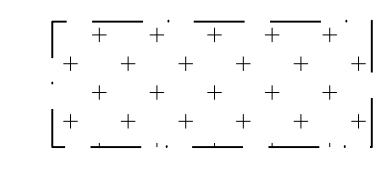
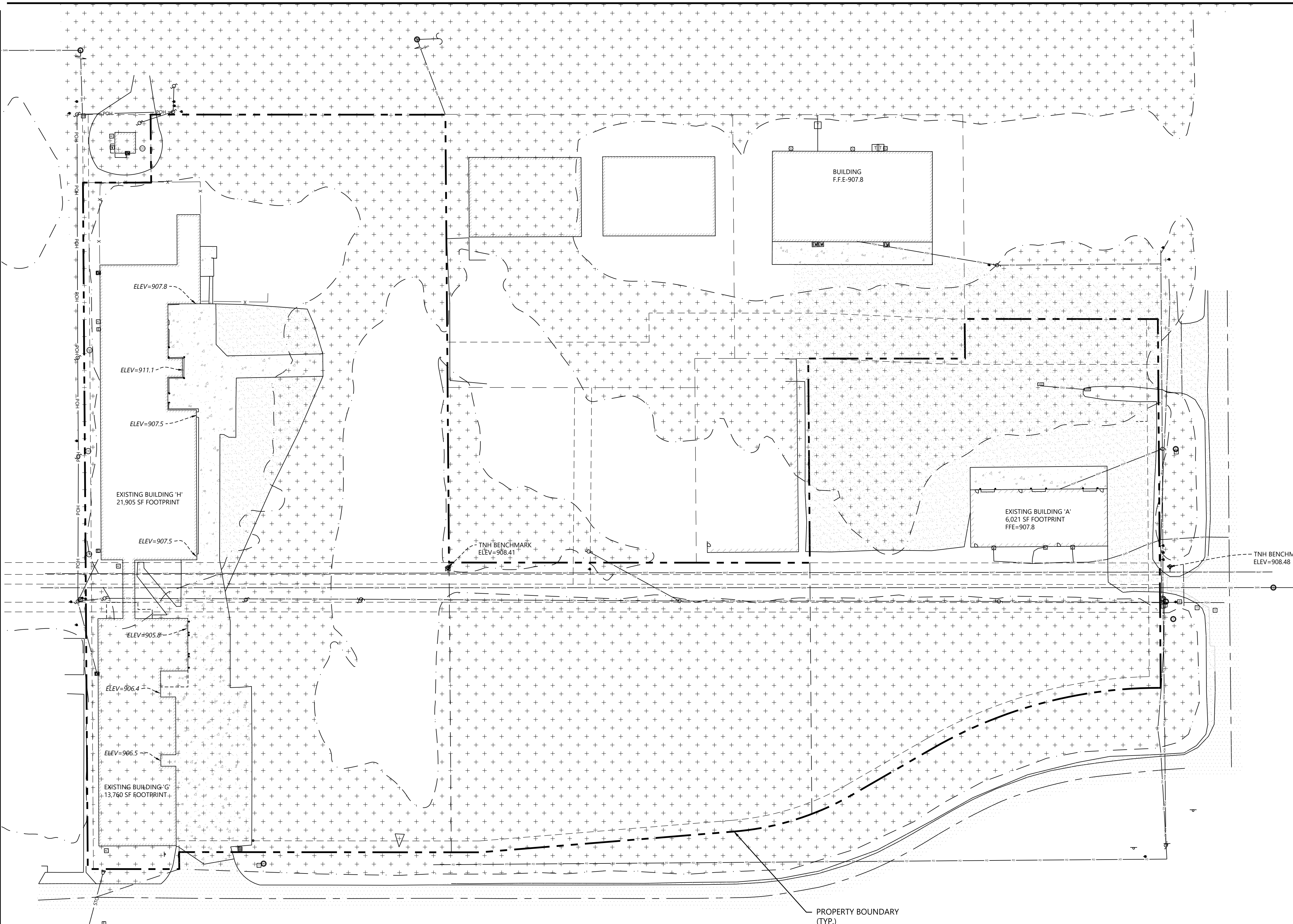
Project Number: FM C.22.016

R:\CAD\U-HAUL\DWG\CURRENT\CAD\SHETS\U-HAUL - EX03.DWG

Call 48 Hours before digging:
811 or call811.com
Common Ground Alliance



1019 Industrial Dr S • Sauk Rapids, MN 56379
3301 11th St E • Glencoe, MN 55336
150 St Andrews Ct, Ste 510 • Mankato, MN 56001
4201 38th St SW, Ste 209 • Fargo, ND 58104



ZONE X
AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.
BFE=906.0

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NEW BUILDING CONSTRUCTION
DILWORTH, MN

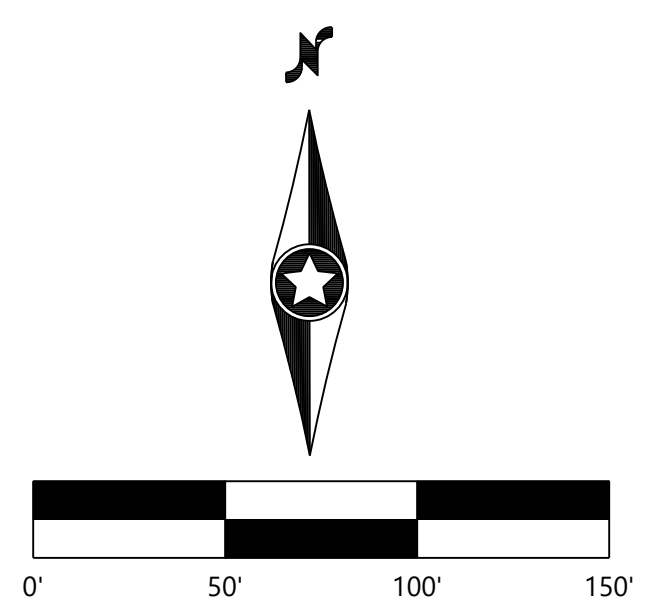
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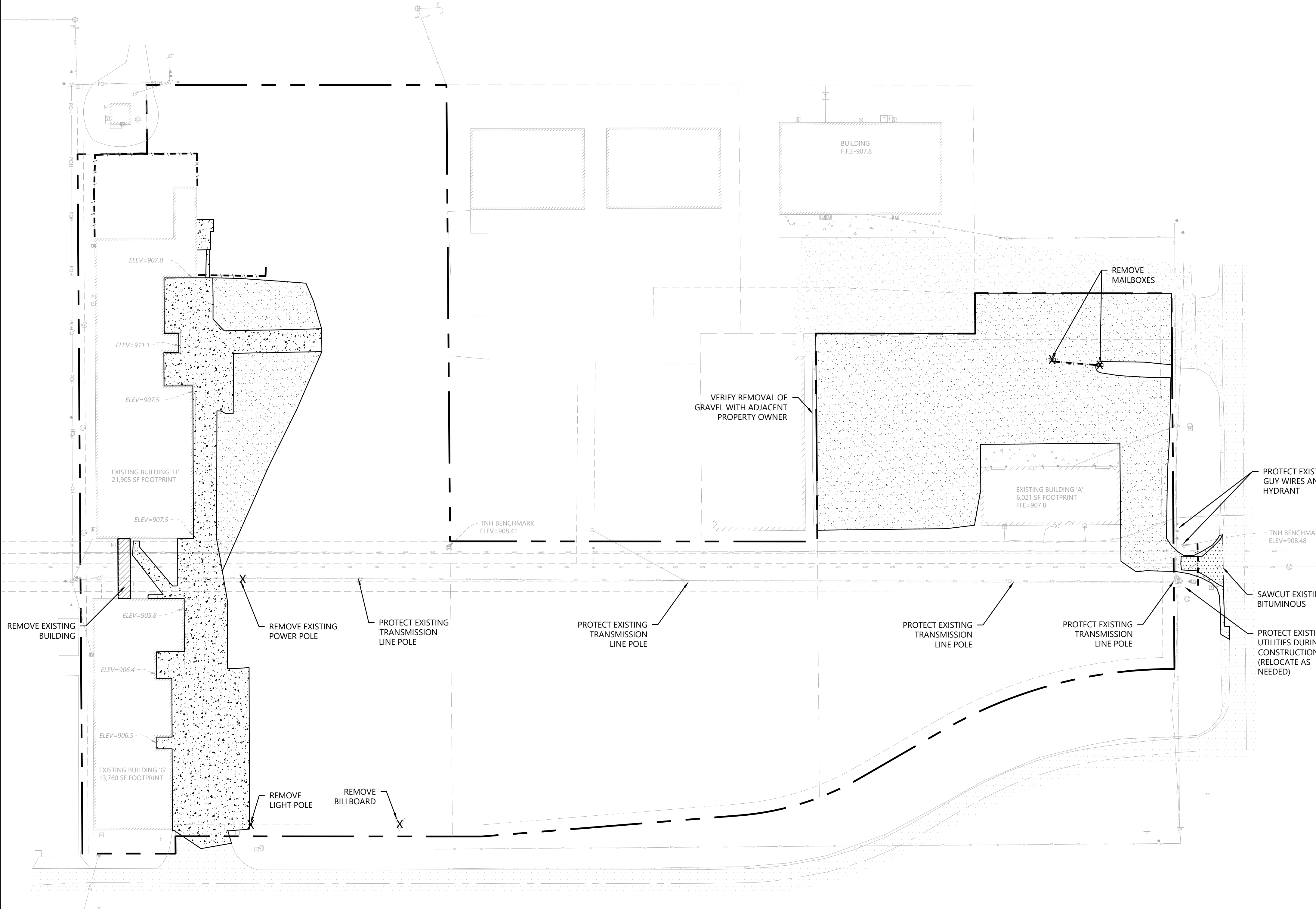
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C103



REMOVAL LEGEND

EXISTING	PROPOSED	
SAN	---X---	PROPERTY LINE
WAT	---X---	SAW CUT PAVEMENT
STO	---X---	CURB & GUTTER
GAS	---X---	SANITARY SEWER
PLUG	---X---	WATER MAIN
POH	---X---	HYDRANT
TUG	---X---	STORM SEWER
TOH	---X---	GAS
FO	---X---	UNDERGROUND ELECTRIC
CTV	---X---	OVERHEAD ELECTRIC
X	---X---	UNDERGROUND TELEPHONE
	---X---	OVERHEAD TELEPHONE
	---X---	TELEPHONE FIBER OPTIC
	---X---	CABLE TELEVISION
	---X---	RETAINING WALL
	---X---	FENCE
	---X---	CONCRETE
	---X---	BITUMINOUS
	---X---	GRAVEL
	---X---	TREE
	---X---	LIGHT POLE
	---X---	BILLBOARD SIGN
	---X---	CONSTRUCTION BARRICADE
	---X---	MAILBOX

REMOVAL NOTES

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

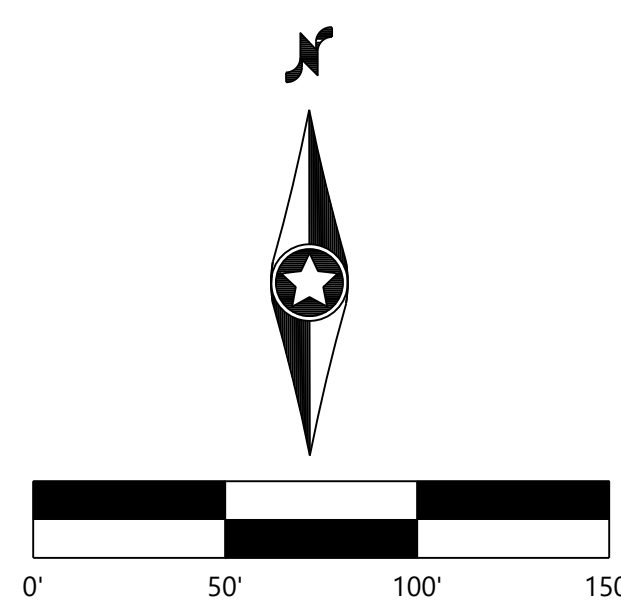
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NEW BUILDING CONSTRUCTION
DILWORTH, MN

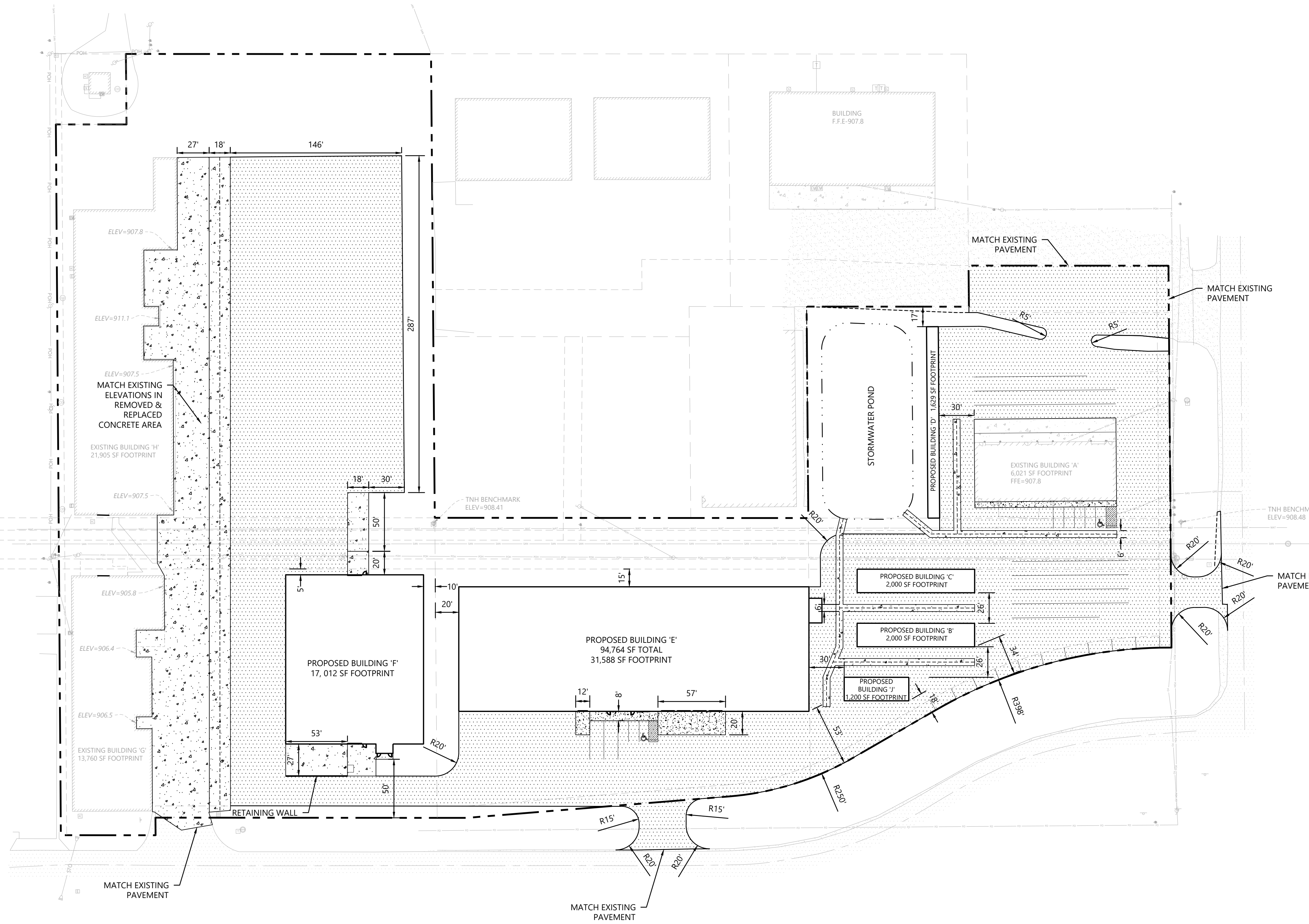
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SITE LEGEND

EXISTING	PROPOSED	
---	---	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

GENERAL SITE NOTES

- BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY BLEW & ASSOCIATES, FEYETTEVILLE, AR 04/21/2022 AND MEAD & HUNT, FARGO, ND 05/13/2022.
- 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 ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
- REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.
- ALL DIMENSIONS ARE TO FACE OF CURB OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 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.
- ALL CURB RADII ARE SHALL BE 3.0 FEET (TO FACE OF CURB) UNLESS OTHERWISE NOTED.
- ALL CURB AND GUTTER SHALL BE **B612** UNLESS OTHERWISE NOTED.
- 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.
- BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
- 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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**U-HAUL OF DILWORTH
NEW BUILDING CONSTRUCTION**
DILWORTH, MN

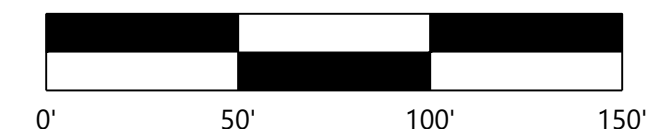
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C201

GRADING LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
		INDEX CONTOUR
		INTERVAL CONTOUR
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		STORM SEWER
		FLARED END SECTION (WITH RIPRAP)
		WATER MAIN
		SANITARY SEWER
		RETAINING WALL
		DRAIN TILE
		RIDGE LINE
		GRADING LIMITS
		SPOT ELEVATION
		FLOW DIRECTION
		TOP AND BOTTOM OF RETAINING WALL
		EMERGENCY OVERFLOW

BENCHMARKS

TNH - WEST/ NORTHWEST OF EXISTING BUILDING 'G'
ELEV.=908.41

TNH - EAST/ SOUTHEAST OF EXISTING BUILDING 'A'
ELEV.=908.48

GRADING NOTES

- 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 LOCATIONS AND NUMBER OF DOWNSPOUTS.
- 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.
- ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS SHEET.
- 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.
- SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.**
- SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.
- 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 AGENCIES.
- CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- 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.
- 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.
- 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.
- 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.

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DILWORTH, MN

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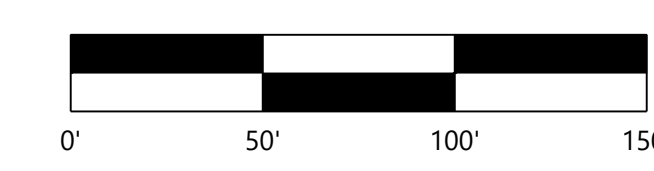
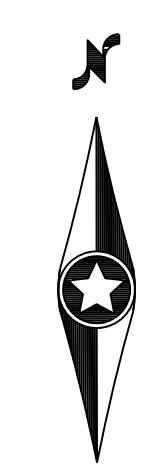
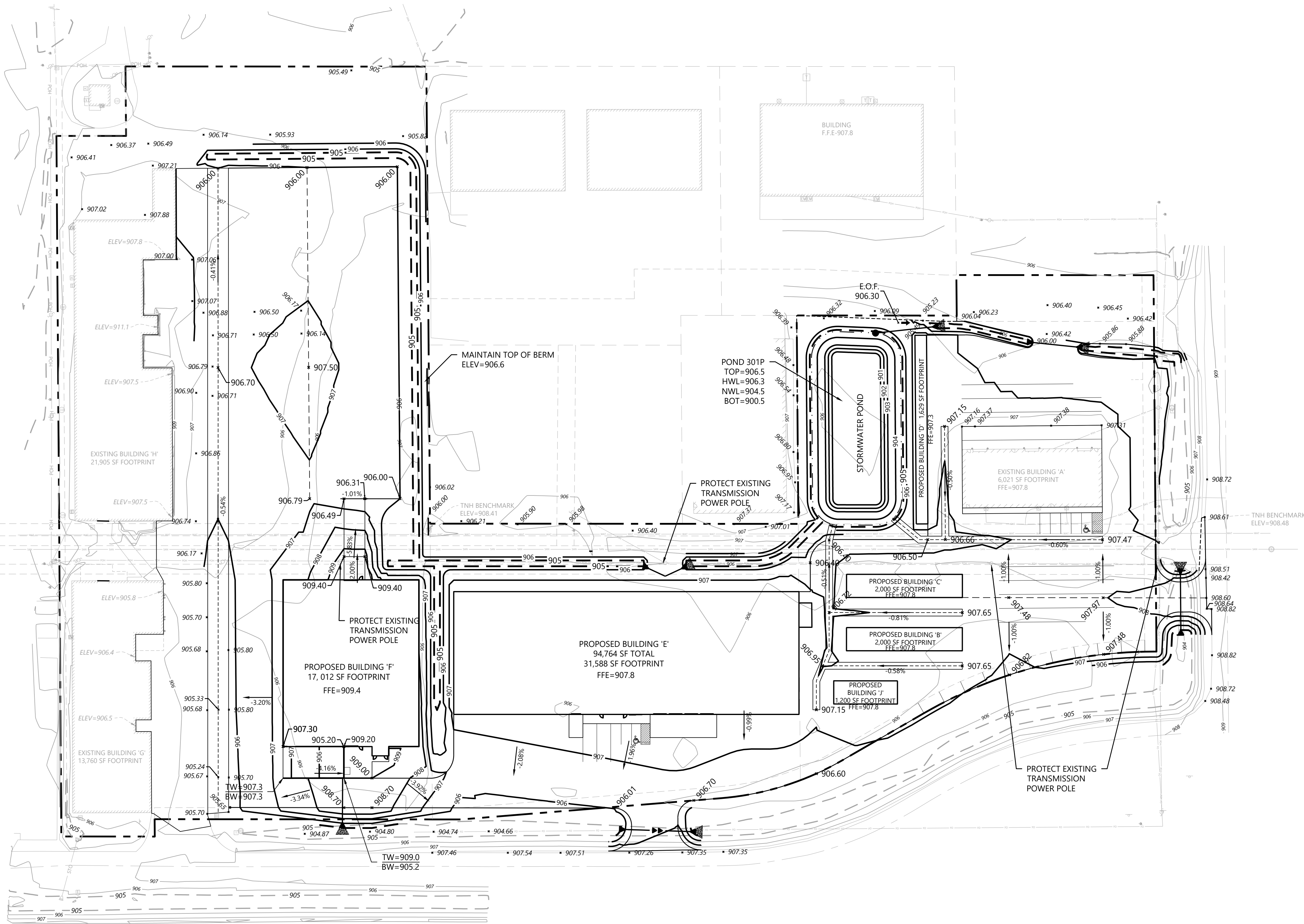
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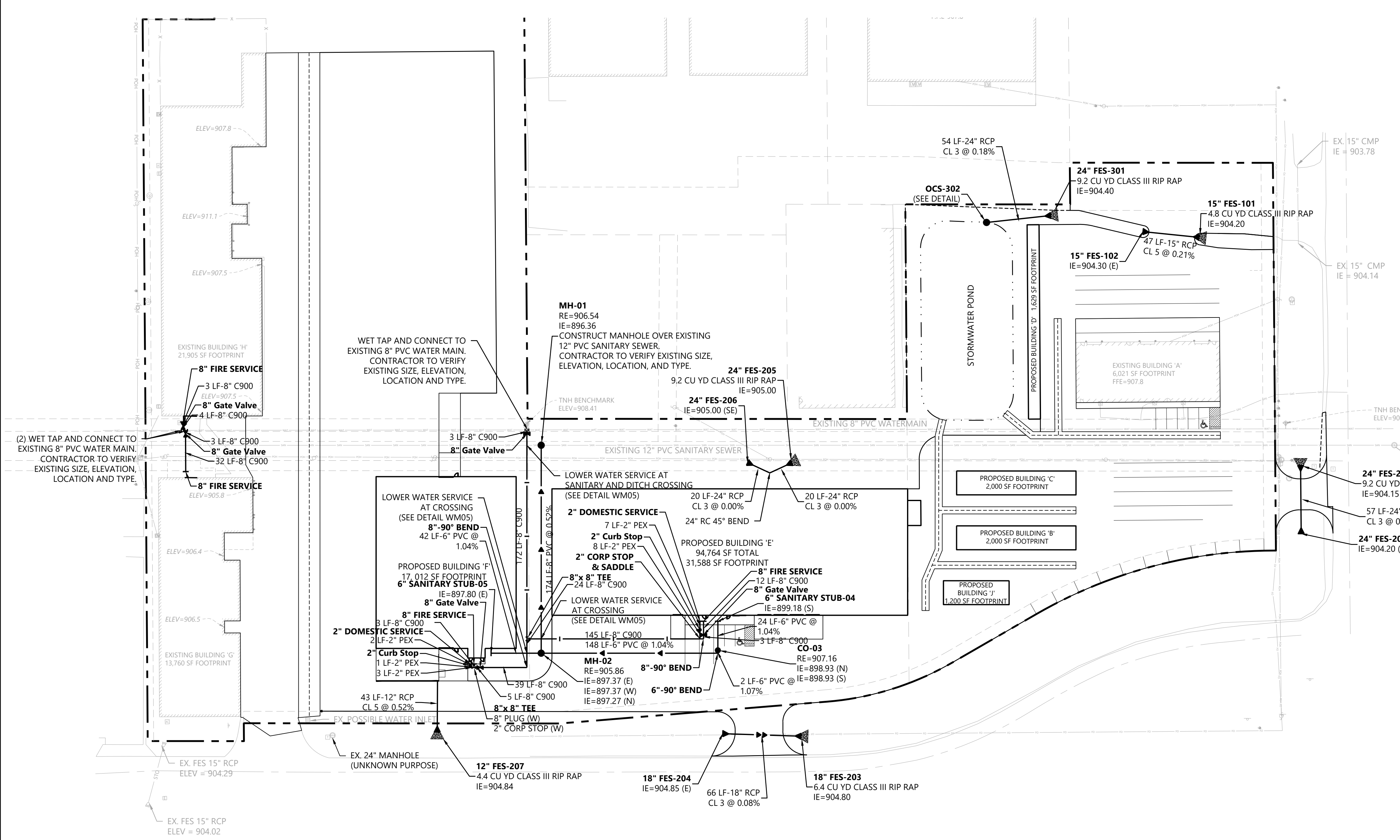
GRADING PLAN

C301



UTILITY LEGEND

EXISTING	PROPOSED	
---	---	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



GENERAL UTILITY NOTES

- 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.
- 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 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.
- 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.
- 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.
- PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
- 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.
- UTILITY SERVICES TYPICALLY TERMINATE 5' OUTSIDE BUILDING WALL UNLESS OTHERWISE SHOWN OR NOTED.
- 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.
- 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.
- 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 D3231. 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.
- STORM SEWER PIPE:
 - RCP, HDPE, AND CMP PIPE MAY BE INSTALLED WITH APPROVAL OF LOCAL GOVERNING AGENCY.
 - 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.
 - 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.
 - 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.
 - 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.
 - PERFORATED SUBSOIL DRAINS SHALL BE EITHER PE PIPE PER ASTM F667 OR PVC PIPE PER ASTM D2729.
- 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.
- ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER PLUMBING CODE SECTION 604.10.1 AND MINNESOTA RULES, PART 7560.0150.
- 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.

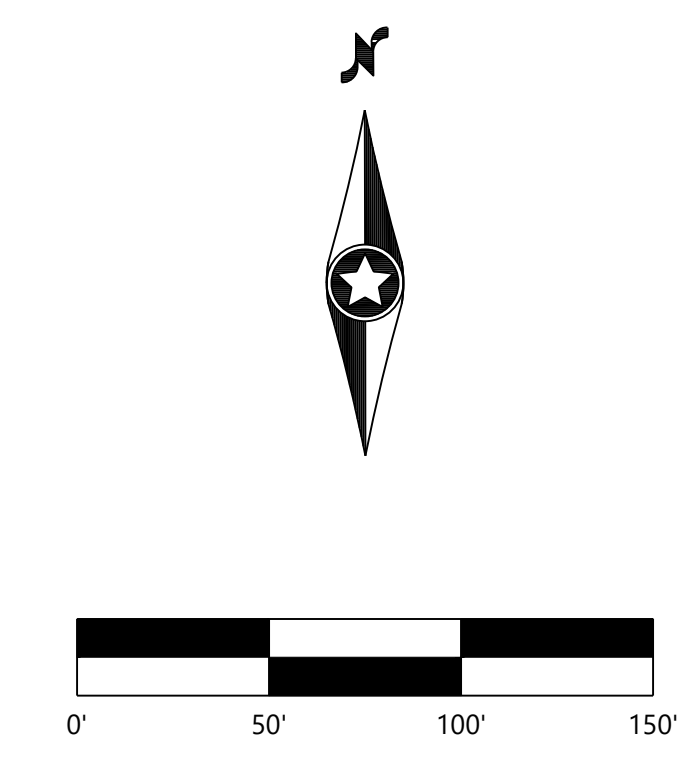
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NEW BUILDING CONSTRUCTION
DILWORTH, MN

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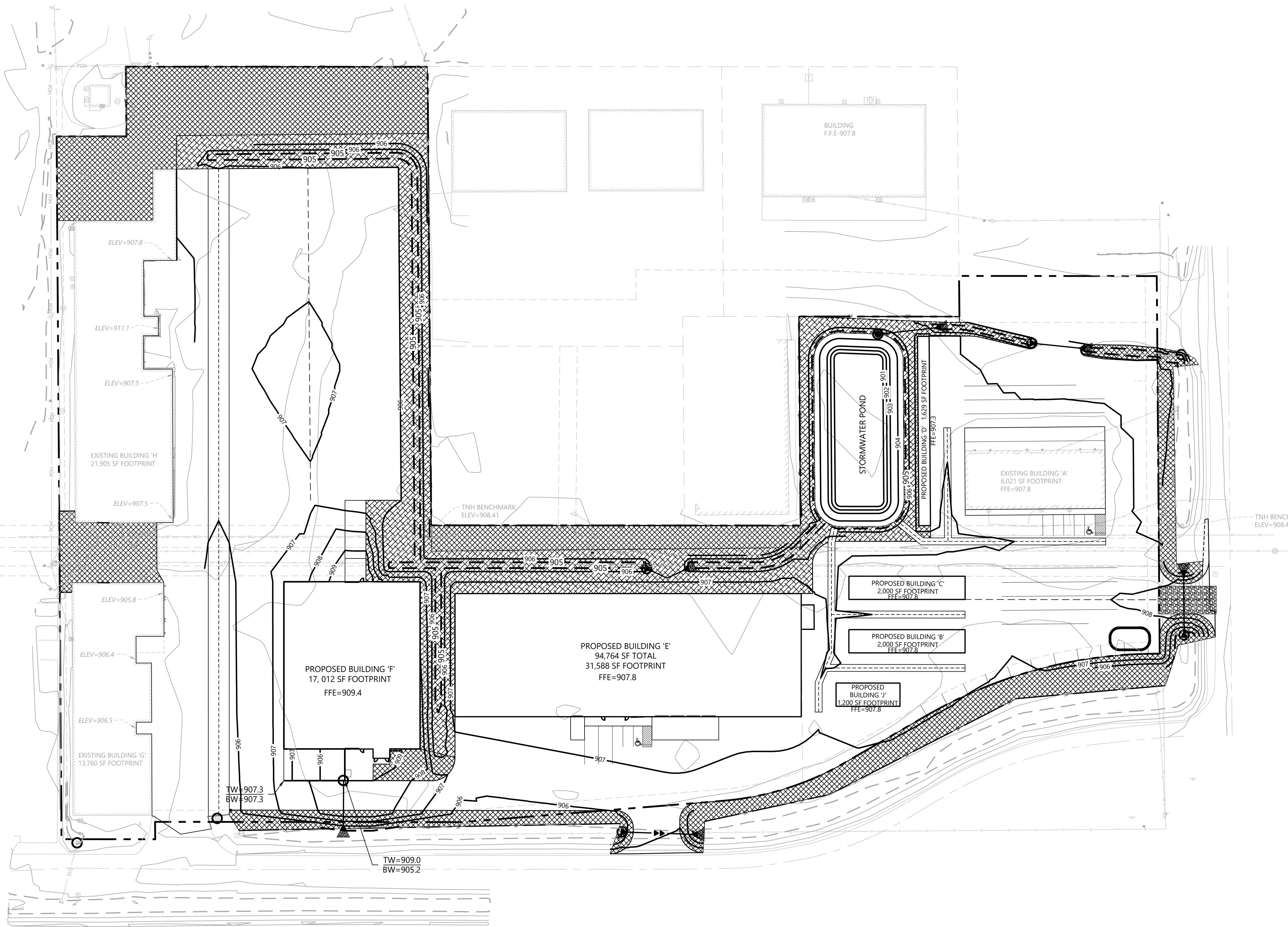
I hereby certify that this plan, specifications, or report was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.

William R. Huston
William R. Huston
Lic. No. 44984
Date: 07.14.2022

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C401



EROSION CONTROL LEGEND

EXISTING	PROPOSED	
---	---	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
---	---	CONCRETE WASHOUT

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.
- 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.
- 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.
- PROPOSED PONDS SHALL BE EXCAVATED FIRST AND USED AS TEMPORARY PONDING DURING CONSTRUCTION.
- 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.
- 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.
- THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA, NPDES, MNDOT, AND CITY.
 - 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
 - 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.
- ALL TEMPORARY STOCKPILES MUST HAVE SILT FENCE INSTALLED AROUND THEM TO TRAP SEDIMENT.
- 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.
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL AND STATE RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- 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.
- PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS. STREET SWEEPING SHALL BE CONCURRENT WITH SITE WORK.

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U-HAUL OF DILWORTH
NEW BUILDING CONSTRUCTION
DILWORTH, MN

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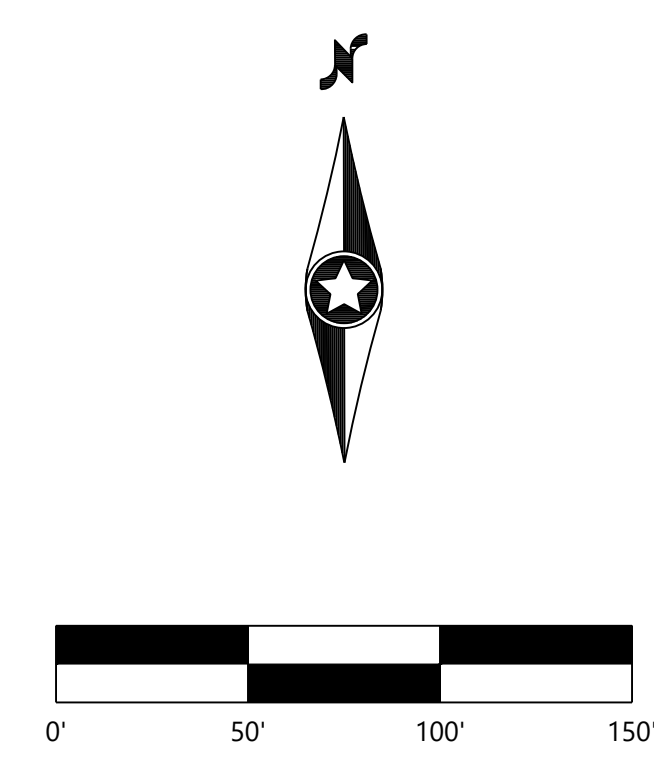
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C501



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.

- 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.
- 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.
 - INFRA SAFE 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.
 - INFRA SAFE 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 BMP'S IS NEEDED DUE TO WINTER CONDITIONS OR FLOODING CONCERNS.
- 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.
- 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 ½ 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 SEDED 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.

- 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 SEDED 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 BMP'S SHALL BE INCIDENTAL TO THE CONTRACT UNLESS PREVIOUSLY APPROVED BY THE OWNER / ENGINEER
- 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 OR A SERIES OF DITCH CHECKS TO CONTAIN SEDIMENT.
 - DISCHARGE THROUGH FIBERLOGS OR A ROCK WEEPER INTO A LARGE VEGETATIVE BUFFER AREA.
 - 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 NEEDED.
 - 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.
- 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.
- VEHICLE MAINTENANCE**

 - ROUTINE MAINTENANCE OF VEHICLES AND EQUIPMENT 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.
- 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.

- 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.
- CHEMICAL CONTAINMENT**

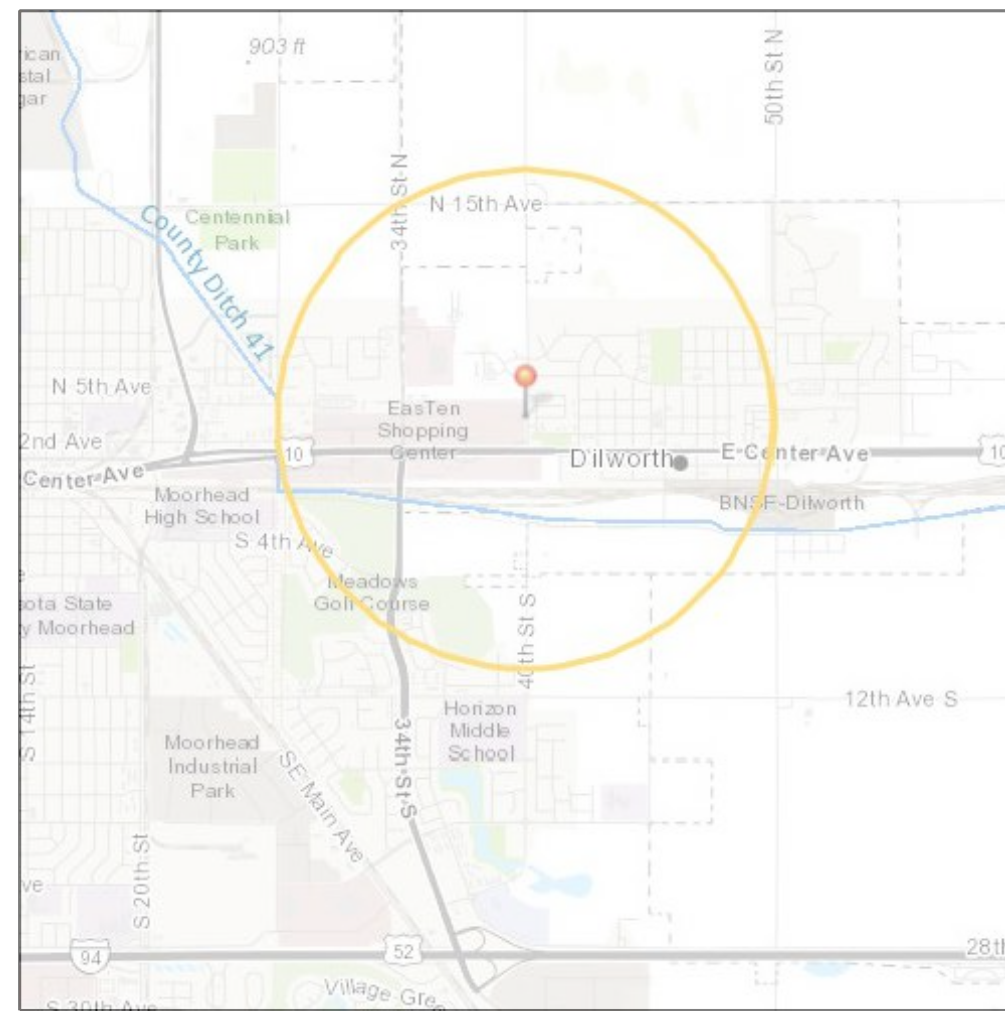
 - GASOLINE, OIL, PAINT, SOLVENTS, AND OTHER CHEMICALS NECESSARY FOR CONSTRUCTION ARE NOT ALLOWED TO CONTACT THE GROUND SURFACE, BE EXPOSED TO GROUNDWATER OR BE RELEASED TO A SURFACE OR GROUNDWATER EXCEPT IN DE MINIMIS QUANTITIES.
 - ALL PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINER, WITH ORIGINAL 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 MANUFACTURER'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.
- 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.
- DUST CONTROL**

 - THE CONTRACTOR SHALL USE A VARIETY OF DUST CONTROL INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - RAPID STABILIZATION METHODS ON SLOPES
 - WATER ON ROADWAYS AND GRADED AREAS
 - 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.
- 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 SEDED 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.
- NON-STORMWATER DEWATERING**

 - HYDRANT FLUSHING: FLUSHING OF HYDRANTS WILL BE DISCHARGED
 - THROUGH TEMPORARY PIPES AS NECESSARY, ONTO IMPERVIOUS SURFACES OR TO STABILIZED AREAS WITH ENERGY DISSIPATION AT THE DISCHARGE POINT. THE DISCHARGE SHOULD BE COLLECTED BY THE STORM WATER BASINS AND STORM SEWER SYSTEM.
 - 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.



VICINITY MAP/IMPAIRED WATERS MAP



WEB SOIL SURVEY MAP

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 for Area of Interest		15.1	100.0%

SOIL MAP UNIT SYMBOL LEGEND

NOT FOR CONSTRUCTION
U-HAUL OF DILWORTH
NEW BUILDING CONSTRUCTION
 DILWORTH, MN

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William R. Huston

William R. Huston

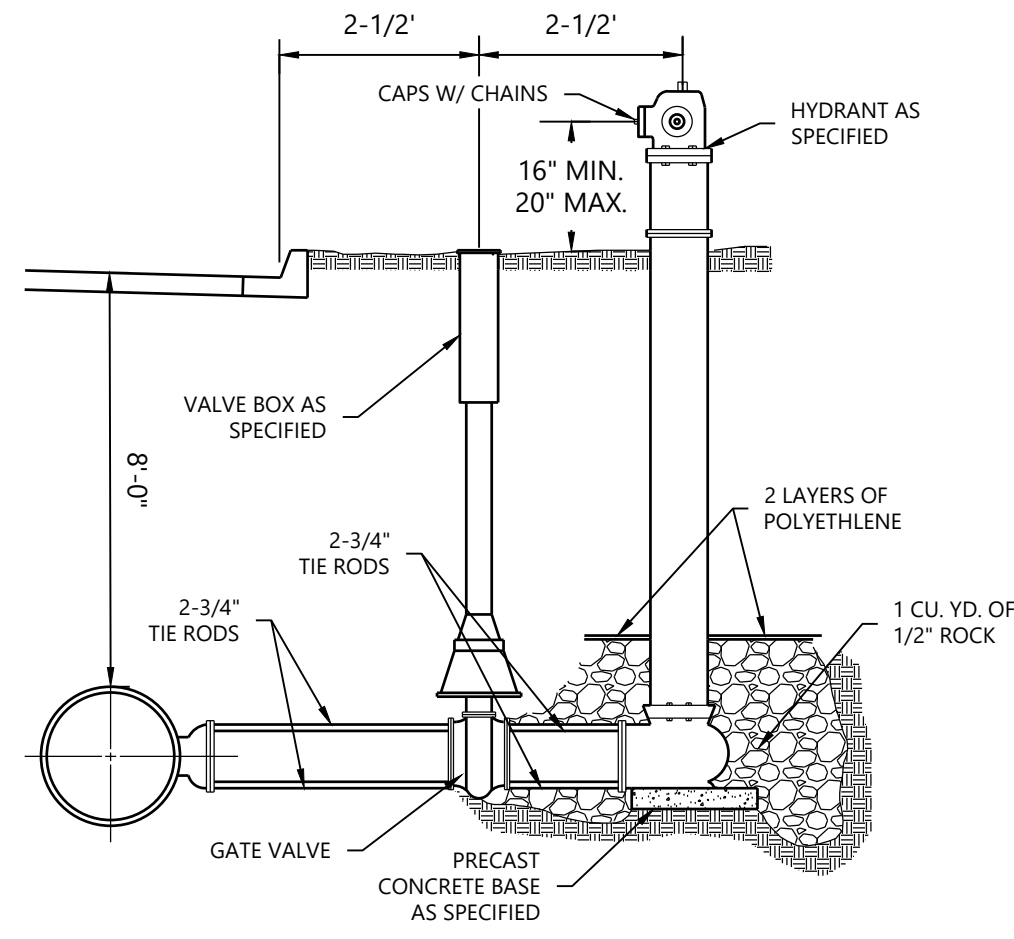
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Date: 07.14.2022

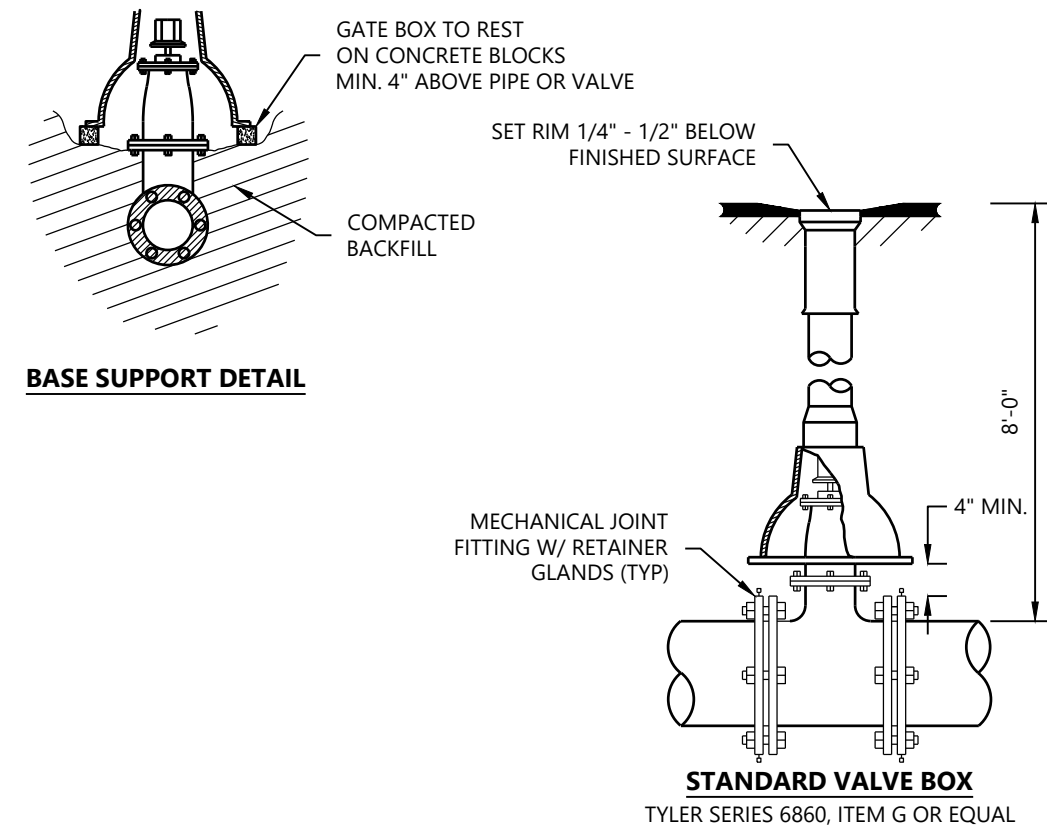
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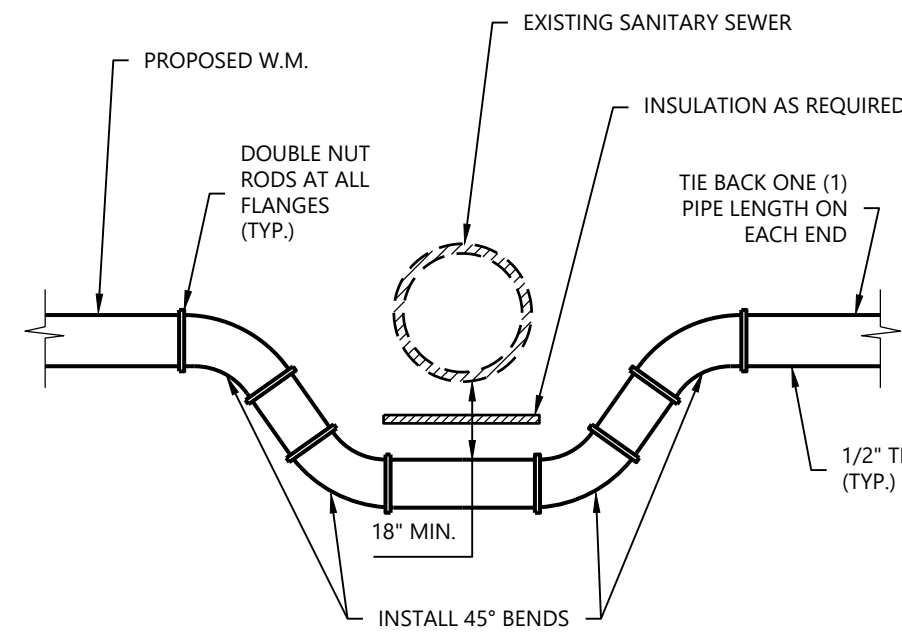
Project Number: FM-C-22-016



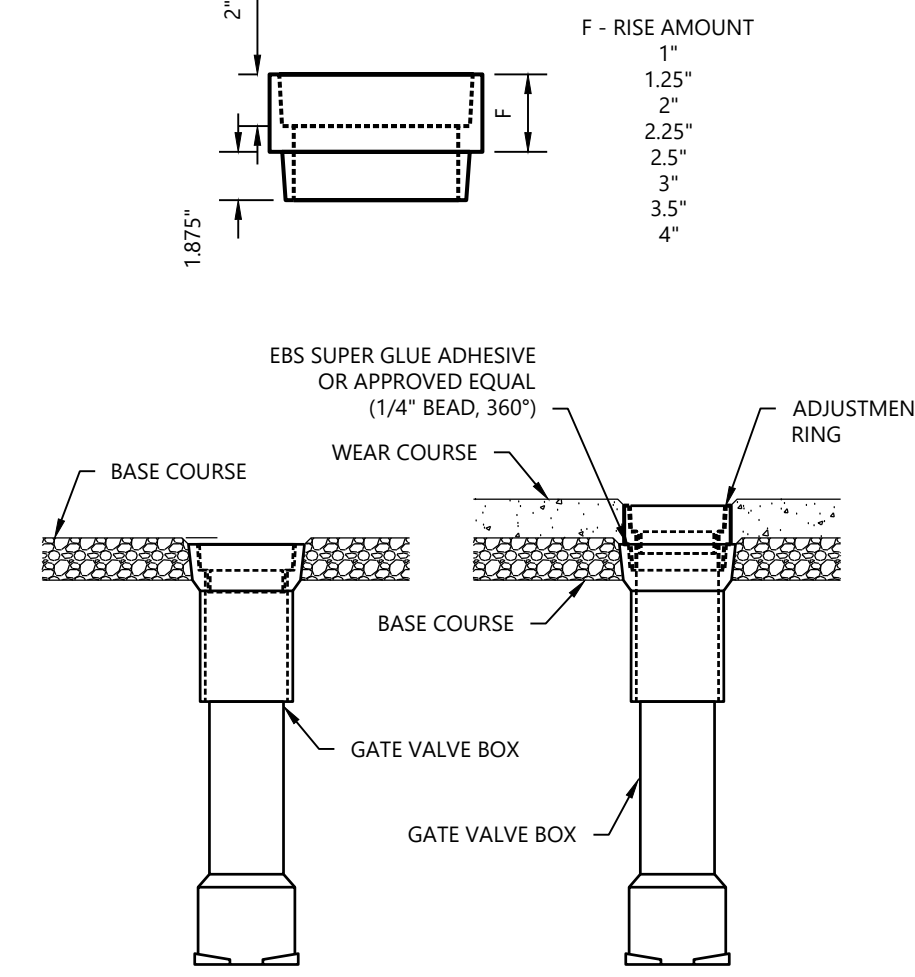
NOTES:
1. MEGA-LUGS MAY BE USED IN LIEU OF TIE RODS



NOTES:
1. GATE VALVE CLOCKWISE OPENING ON SPWU SYSTEM OPENING
2. COUNTERCLOCKWISE OPENING ON NORTH ST. PAUL SYSTEM VALVES CONFORMING TO AWWA C-509
3. 12" WATERMAIN AND LARGER REQUIRE BUTTERFLY VALVES



NOTE:
1. TIE ALL JOINTS WITH MEGALUGS (8 REQUIRED)



NOTES:
1. THE HEIGHT OF THE DUCTILE IRON ADJUSTMENT RING IS DETERMINED BY THE THICKNESS OF THE OVERLAY.
2. DUCTILE IRON ADJUSTMENT RING AS MANUFACTURED BY ESS BROTHERS AND SONS, INC. OR ENGINEER APPROVED EQUAL.

THRUST RESTRAINT
ALL WATER MAIN, VALVES, SERVICES, FITTINGS, STUBS, EXTENSIONS, BLIND FLANGES, HYDRANT, AND PLUGS USED FOR RETAINING WATER PRESSURE MUST BE TIED WITH "MEGALUGS" JOINT RESTRAINTS OR EXCEPTED EQUAL BASED UPON A 150 PSI TEST PRESSURE AND 8" COVER. THE FOLLOWING SHOWS THE MINIMUM LENGTH OF PIPE EACH WAY OF A FITTING TO BE RESTRAINED. JOINT RESTRAINTS TO BE EPOXY COATED AS REQUIRED ON WATER MAIN FITTINGS.

PIPE DIAMETER	DEAD END TREE BRANCH OR 90° BEND	45° BEND	22-1/2° BEND
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

NOTES:
1. WHERE RESTRAINED JOINTS ARE REQUIRED AND THE PIPE IS IN A CASING NEAR THE FITTING TO BE RESTRAINED, THE LENGTH OF PIPE IN THE CASING SHALL NOT BE INCLUDED IN THE LENGTH OF PIPE NECESSARY TO DEVELOP SUFFICIENT SOIL FRICTION TO OVERCOME THRUST.
2. ALL BARE METALS SHALL HAVE TWO COATS OF BITUMASTIC OR ACCEPTED EQUAL (AEROSOL SPRAY IS NOT ACCEPTABLE).
3. ALL BOLTS BELOW GRADE SHALL BE 304 STAINLESS STEEL.
4. ALL JOINT TIE RODS SHALL BE 304 STAINLESS STEEL.

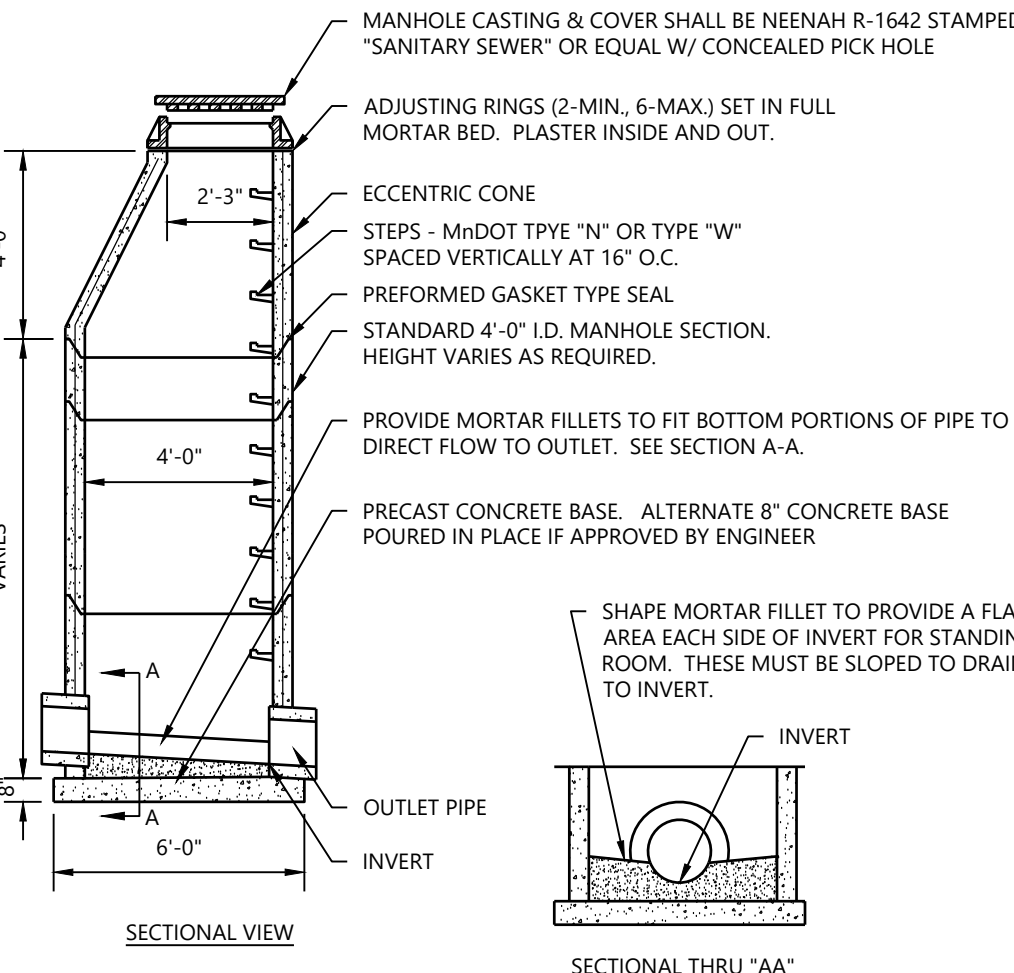
LAST REVISED: 07/19/21 FIRE HYDRANT WM01

LAST REVISED: 07/19/21 GATE VALVE WM02

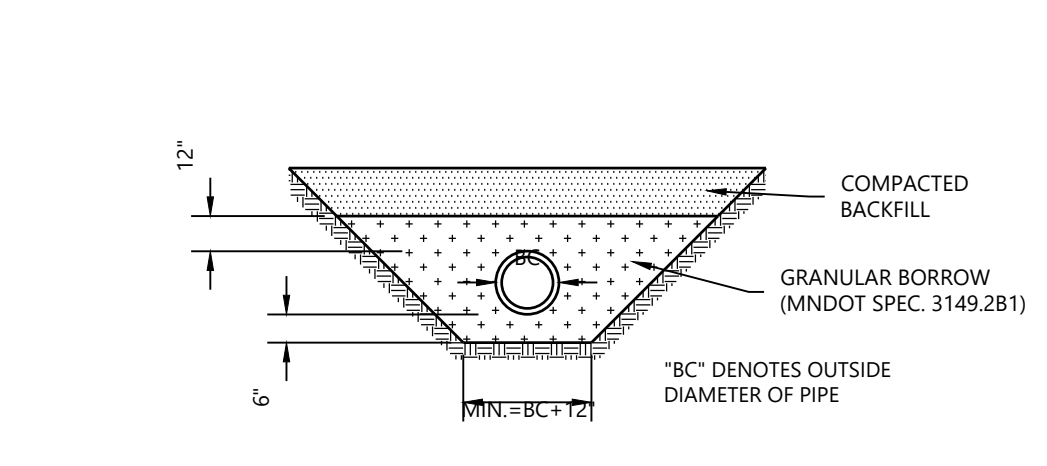
LAST REVISED: 07/19/21 WATERMAIN CROSSING WM05

LAST REVISED: 07/19/21 GATE VALVE BOX ADJUSTMENT RING WM12

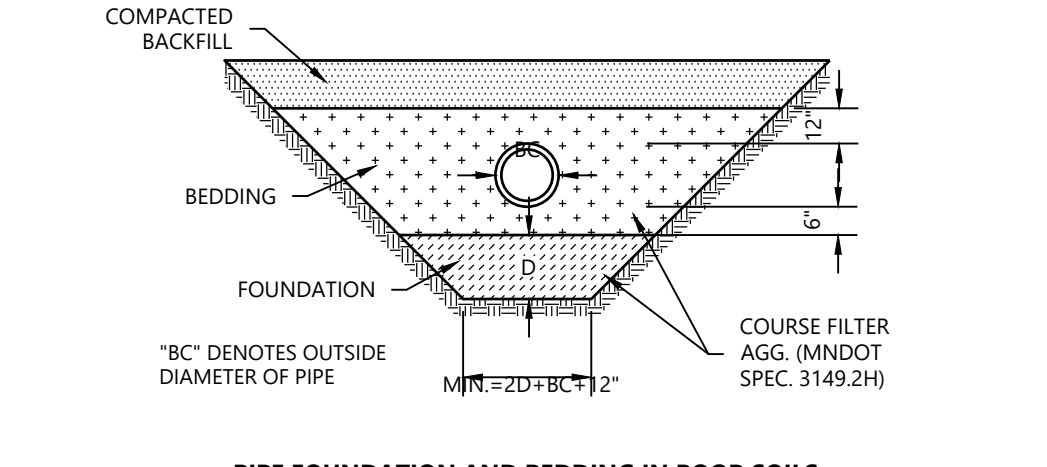
LAST REVISED: 07/19/21 WATERMAIN DETAIL AND TIE SCHEDULE WM14



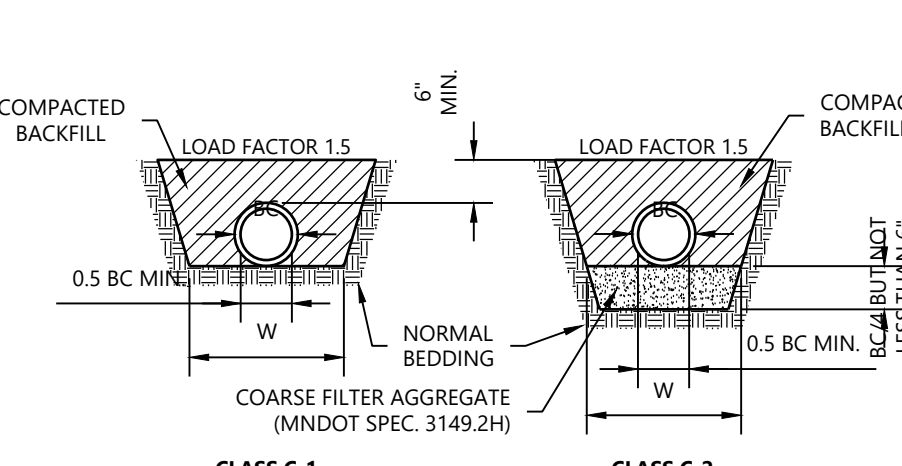
NOTES:
1. THIS CONSTRUCTION IS NOT TO BE USED WITH PIPE LARGER THAN 36" DIAMETER.
2. PIPE TO MANHOLE CONNECTION SHALL HAVE "A-LOK" CAST-IN-GASKET.



PIPE FOUNDATION & BEDDING IN GOOD SOILS

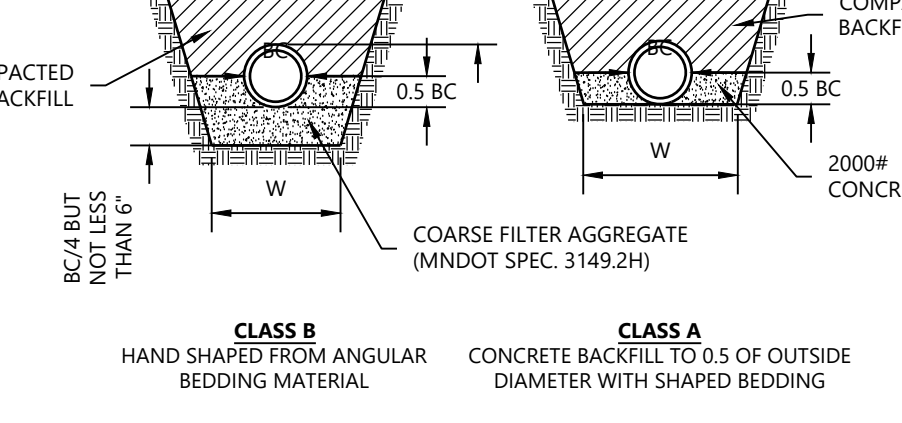


PIPE FOUNDATION AND BEDDING IN POOR SOILS



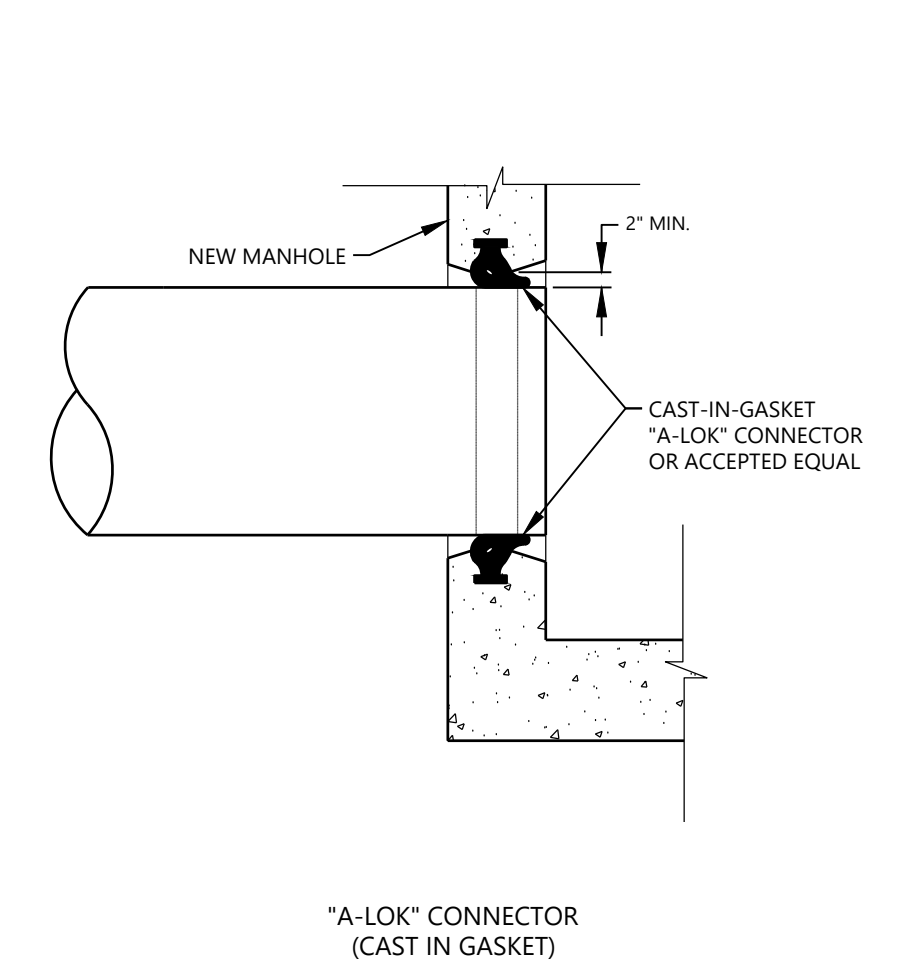
CLASS C-1 HAND SHAPED FROM FIRM UNDISTURBED SOIL

CLASS C-2 HAND SHAPED FROM ANGULAR BEDDING MATERIAL

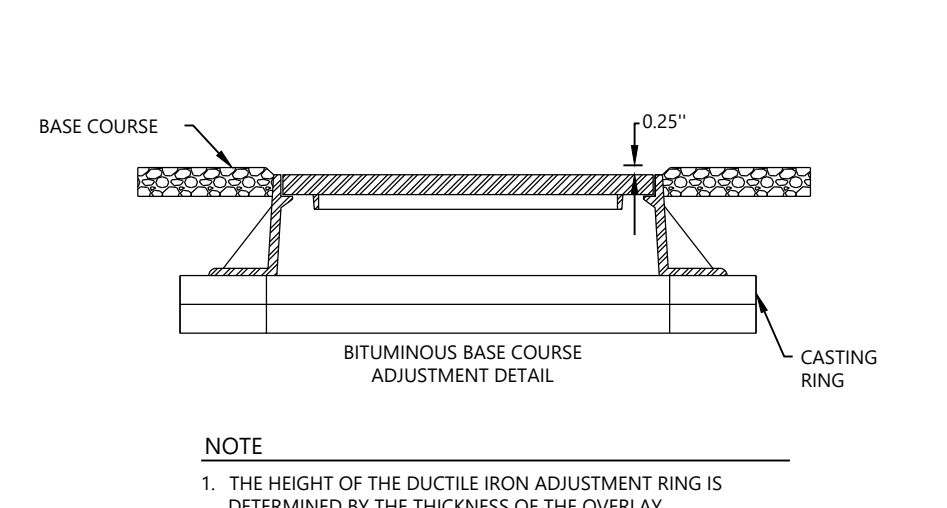
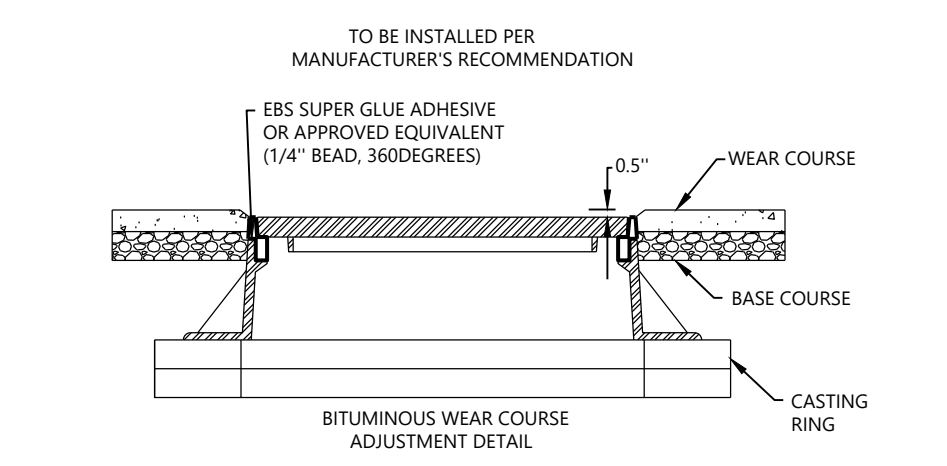


NOTES:
1. "BC" DENOTES OUTSIDE DIAMETER OF PIPE
2. "W" BC + 12" MIN.

LAST REVISED: 07/19/21 PIPE BEDDING DETAILS FOR RCP & DIP SS04



LAST REVISED: 07/19/21 PIPE TO NEW MANHOLE CONNECTION SS06

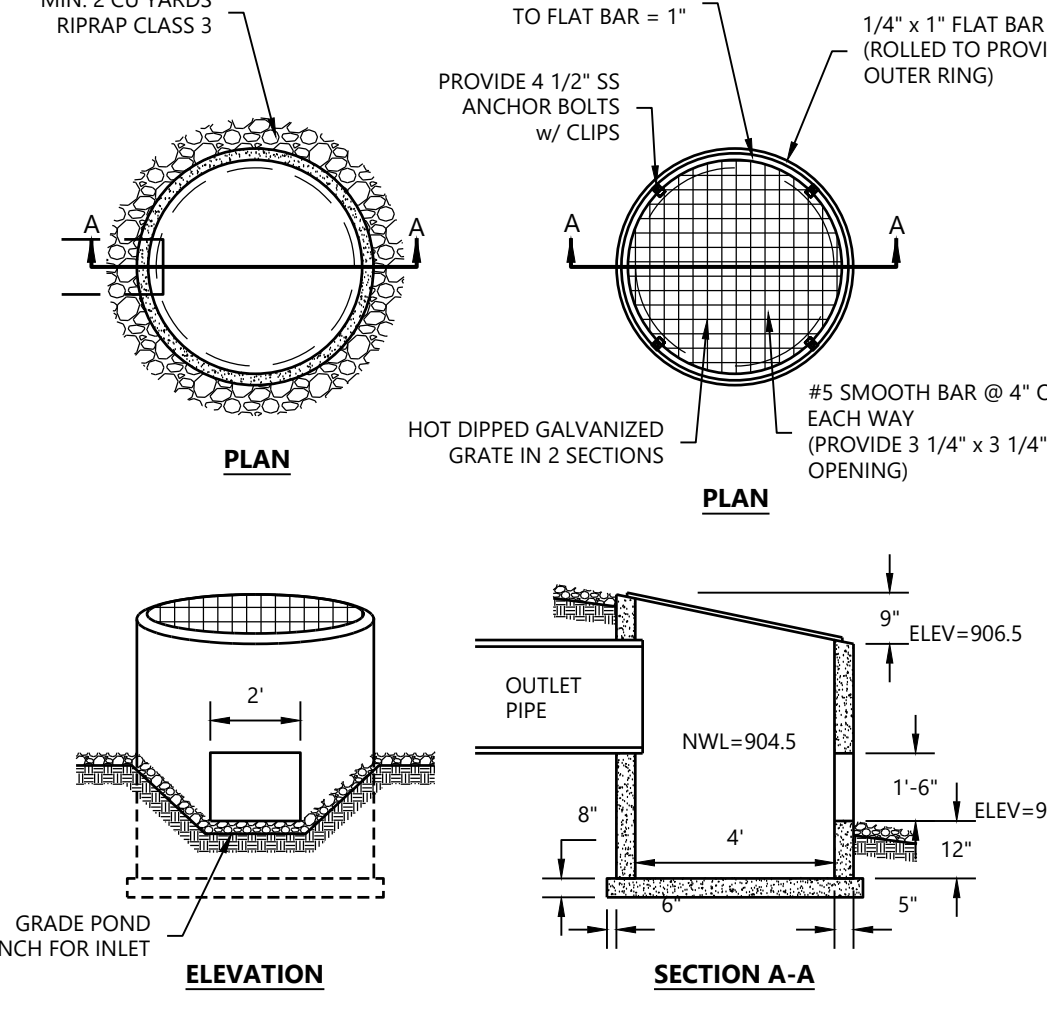
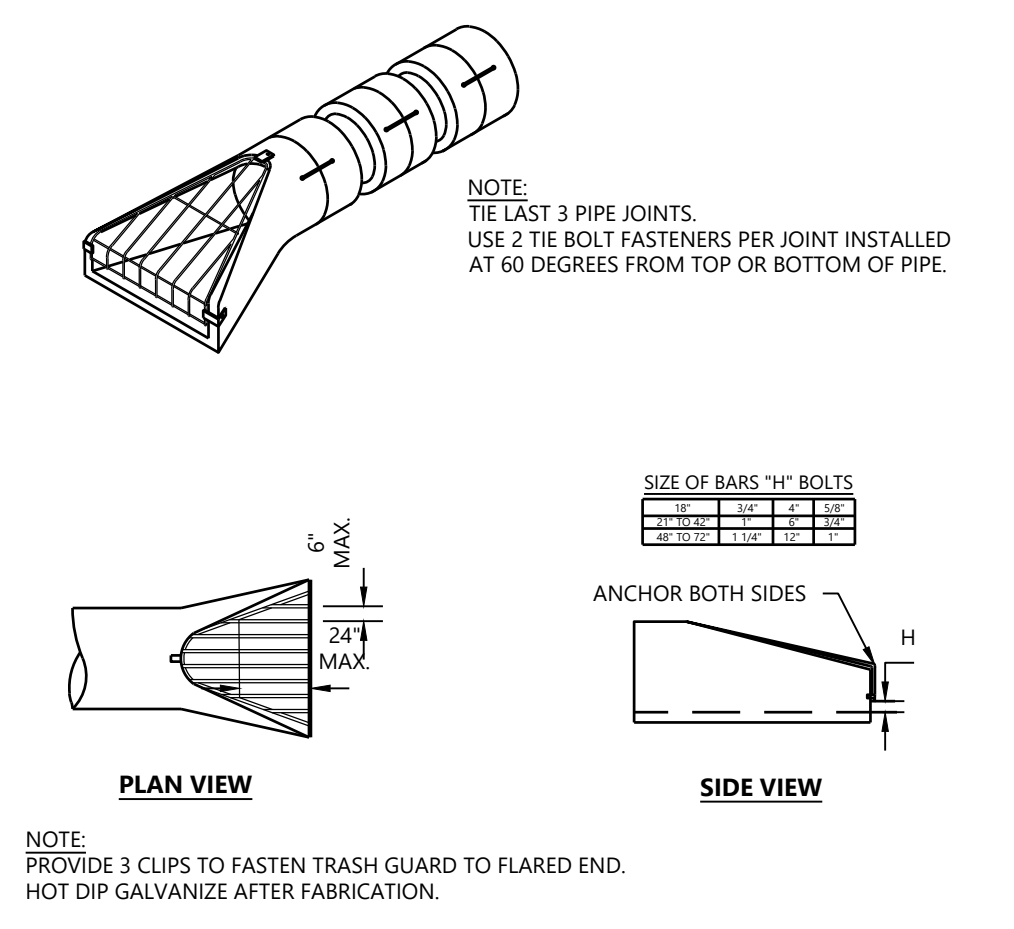


NOTE:
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2. DUCTILE IRON ADJUSTMENT RING AS MANUFACTURED BY ESS BROTHERS AND SONS INC. OR ENGINEER APPROVED EQUAL.

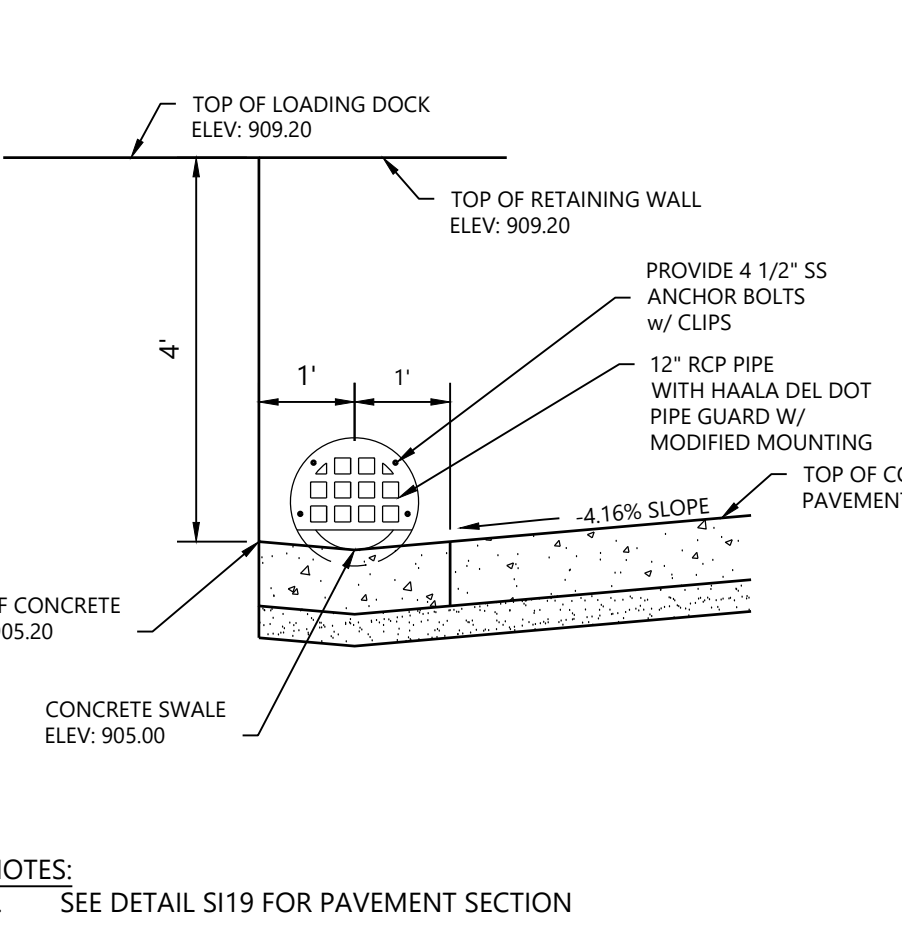
LAST REVISED: 07/19/21 MANHOLE CASTING ADJUSTMENT RING SS07

LAST REVISED: 07/19/21 SANITARY MANHOLE PRECAST MANHOLE WITH ADJUSTABLE RINGS SS01

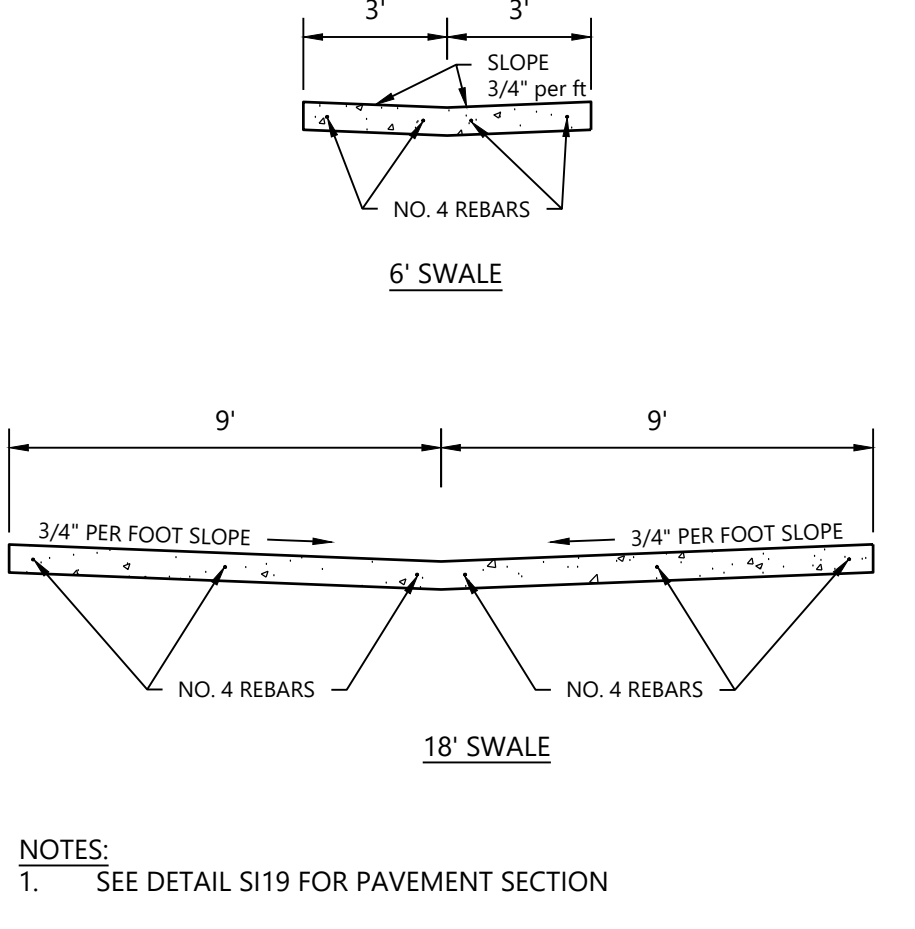
LAST REVISED: 07/19/21 PIPE BEDDING DETAILS FOR PVC & HDPE SS03



LAST REVISED: 07/19/21 OCS-302 ST09



LAST REVISED: 07/11/22 STORM INLET AT RETAINING WALL ST21



LAST REVISED: 07/11/22 CONCRETE SWALE ST22

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William R. Huston
William R. Huston

Lic. No. 44984
Date: 07.14.2022

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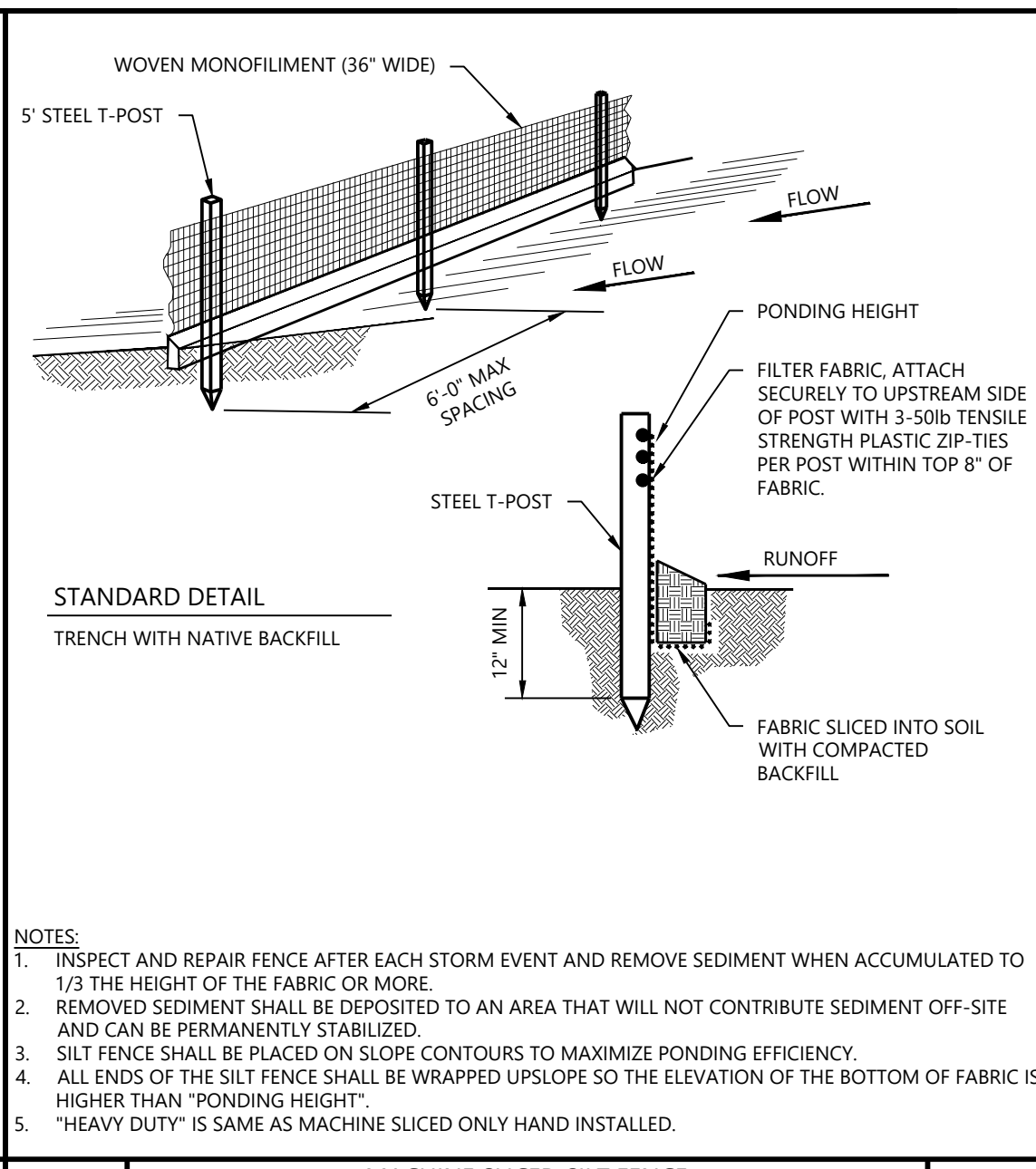
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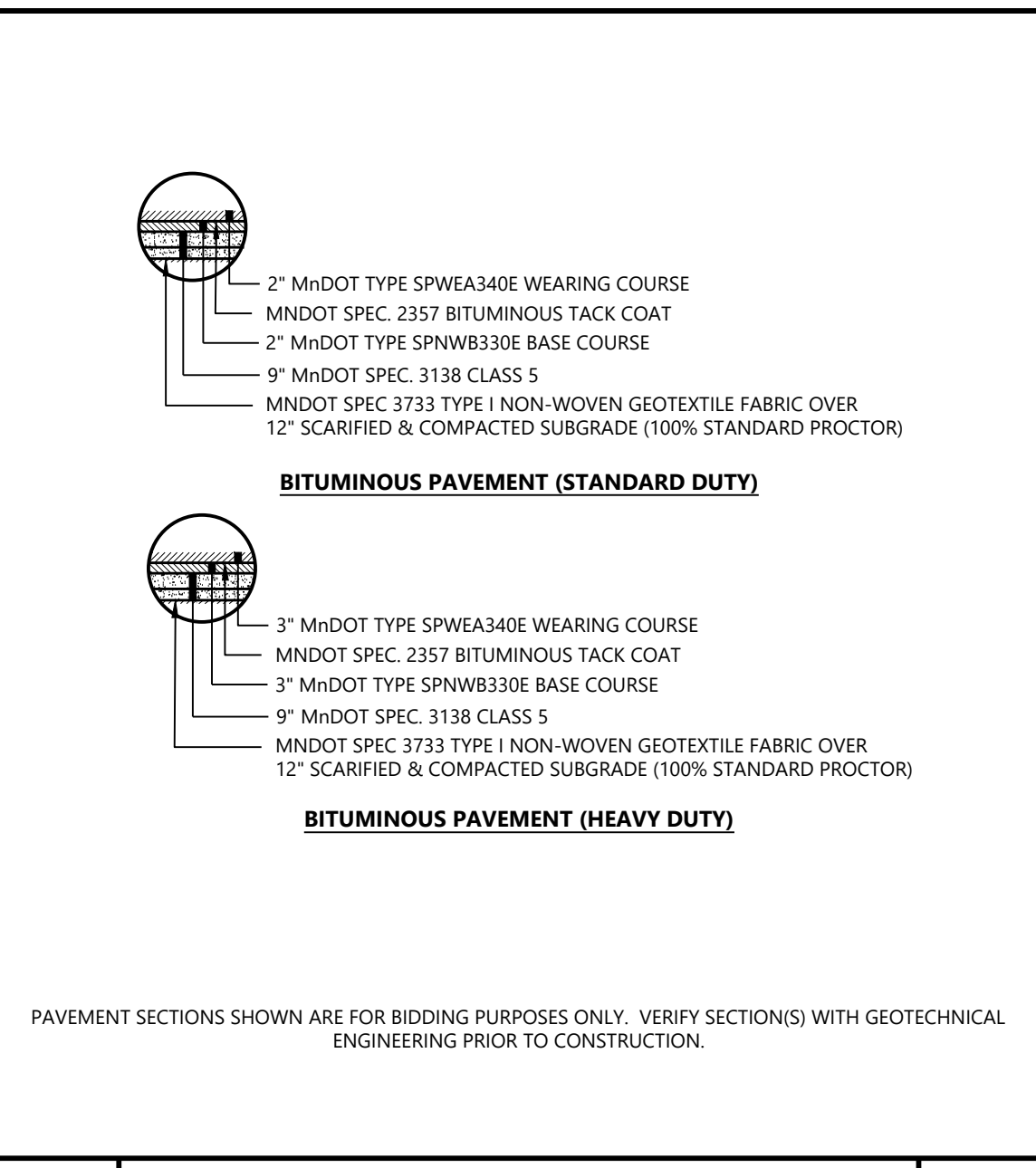
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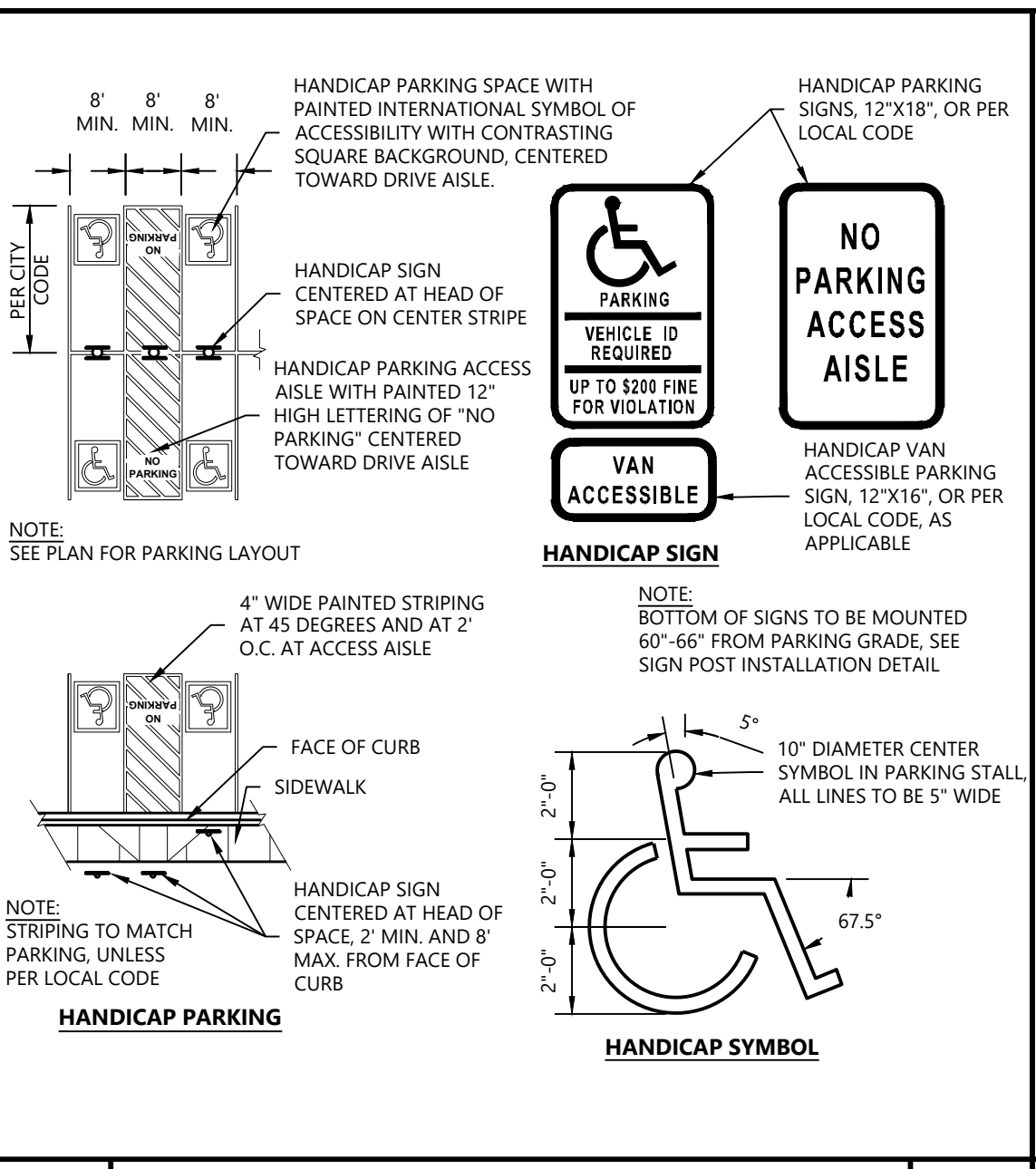
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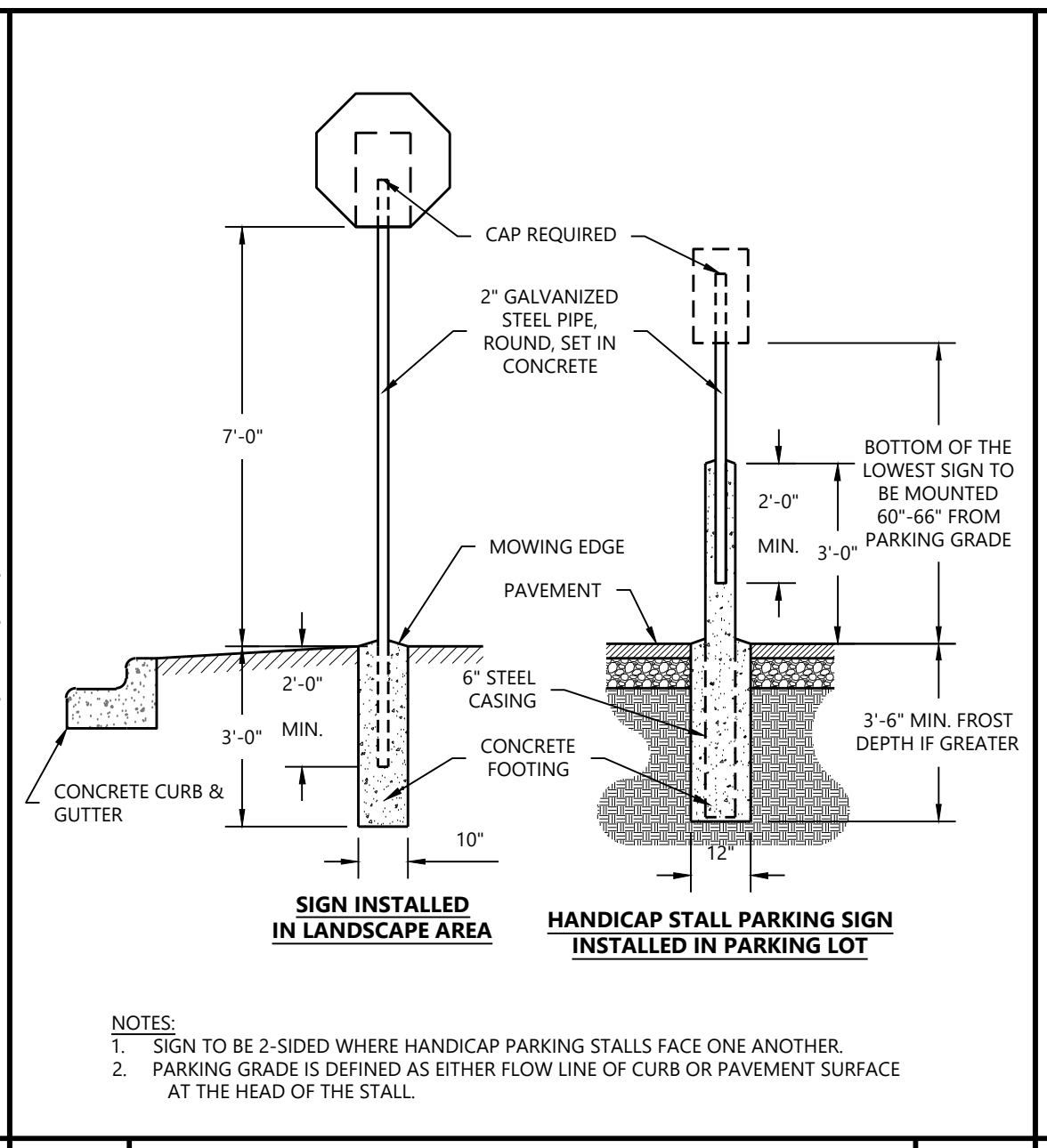
LAST REVISED: 07/19/21 INTEGRAL CURB AND WALK SI05



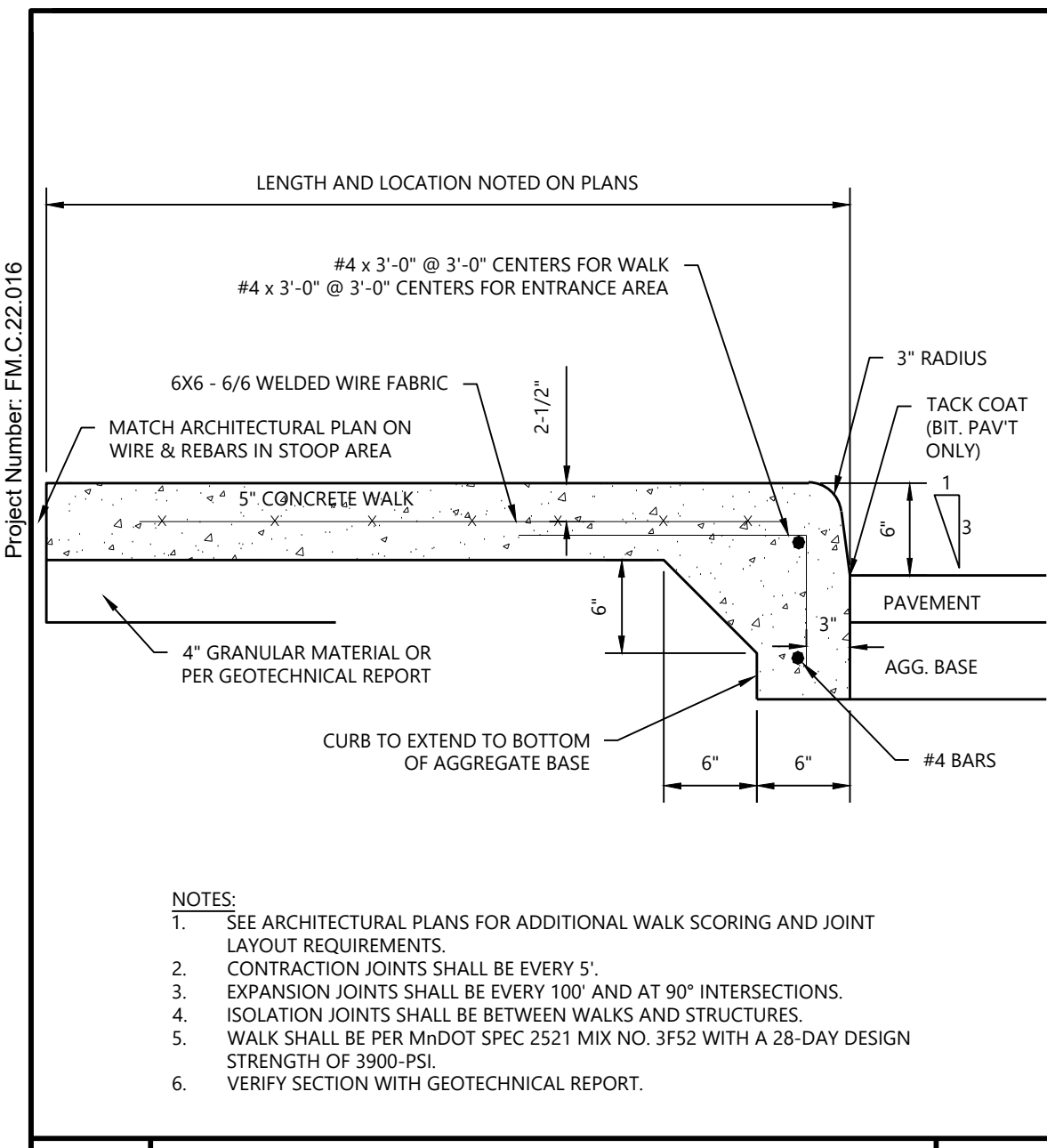
LAST REVISED: 07/22/22 PAVEMENT SECTIONS SI19



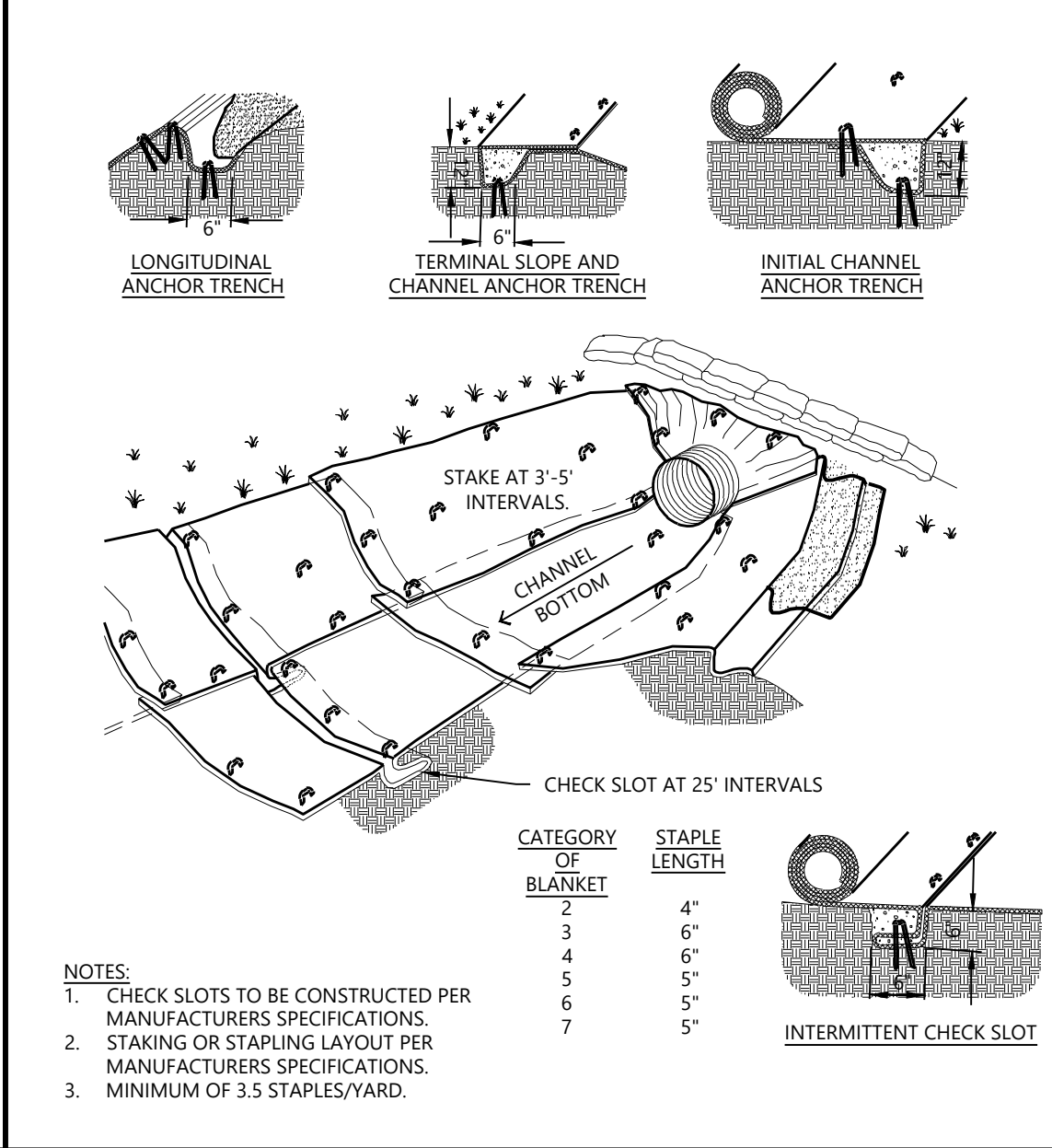
LAST REVISED: 07/19/21 HANDICAP ACCESSIBLE SIGNAGE AND STRIPING SI15



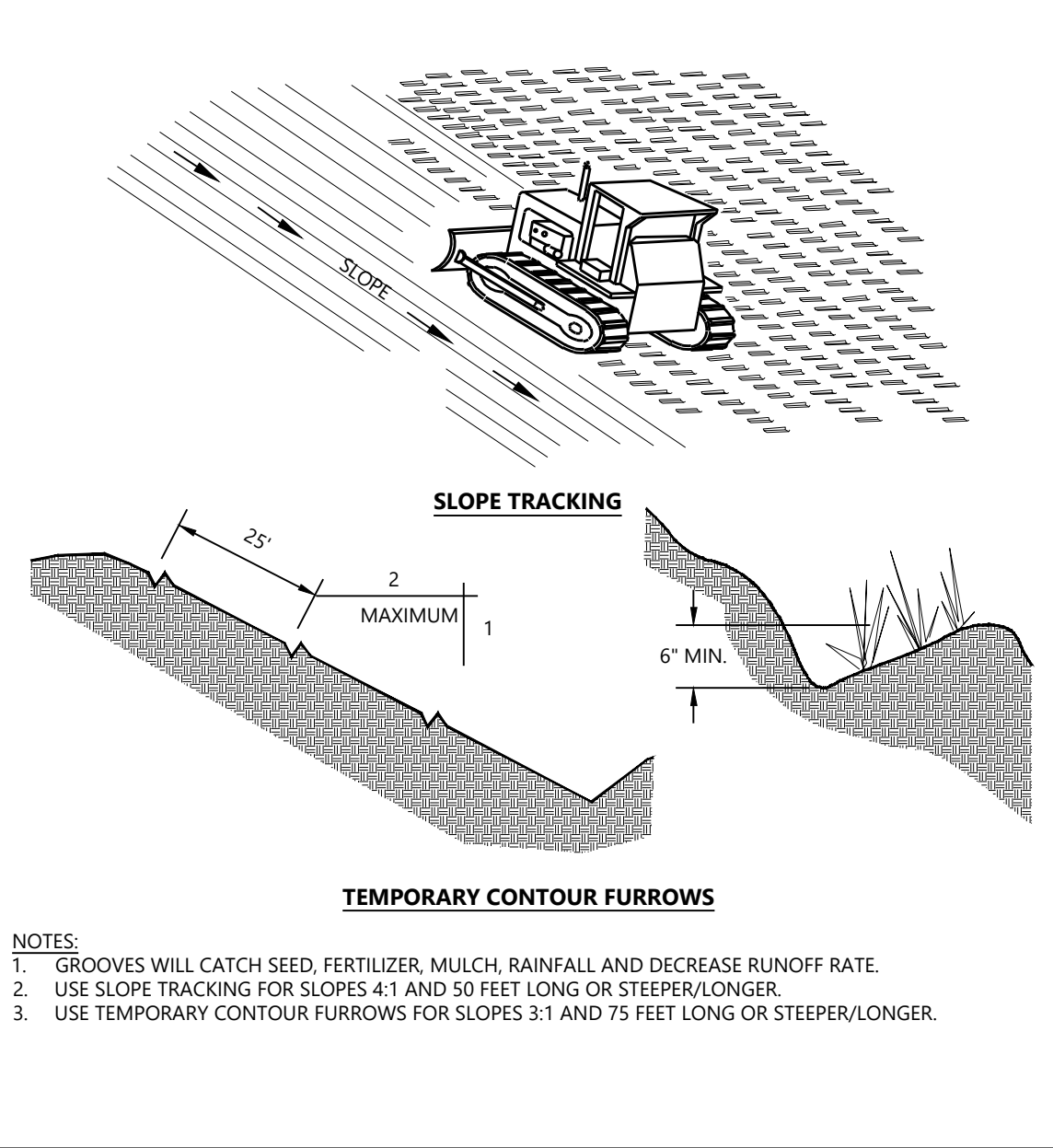
LAST REVISED: 07/19/21 SIGN POST INSTALLATION SI14



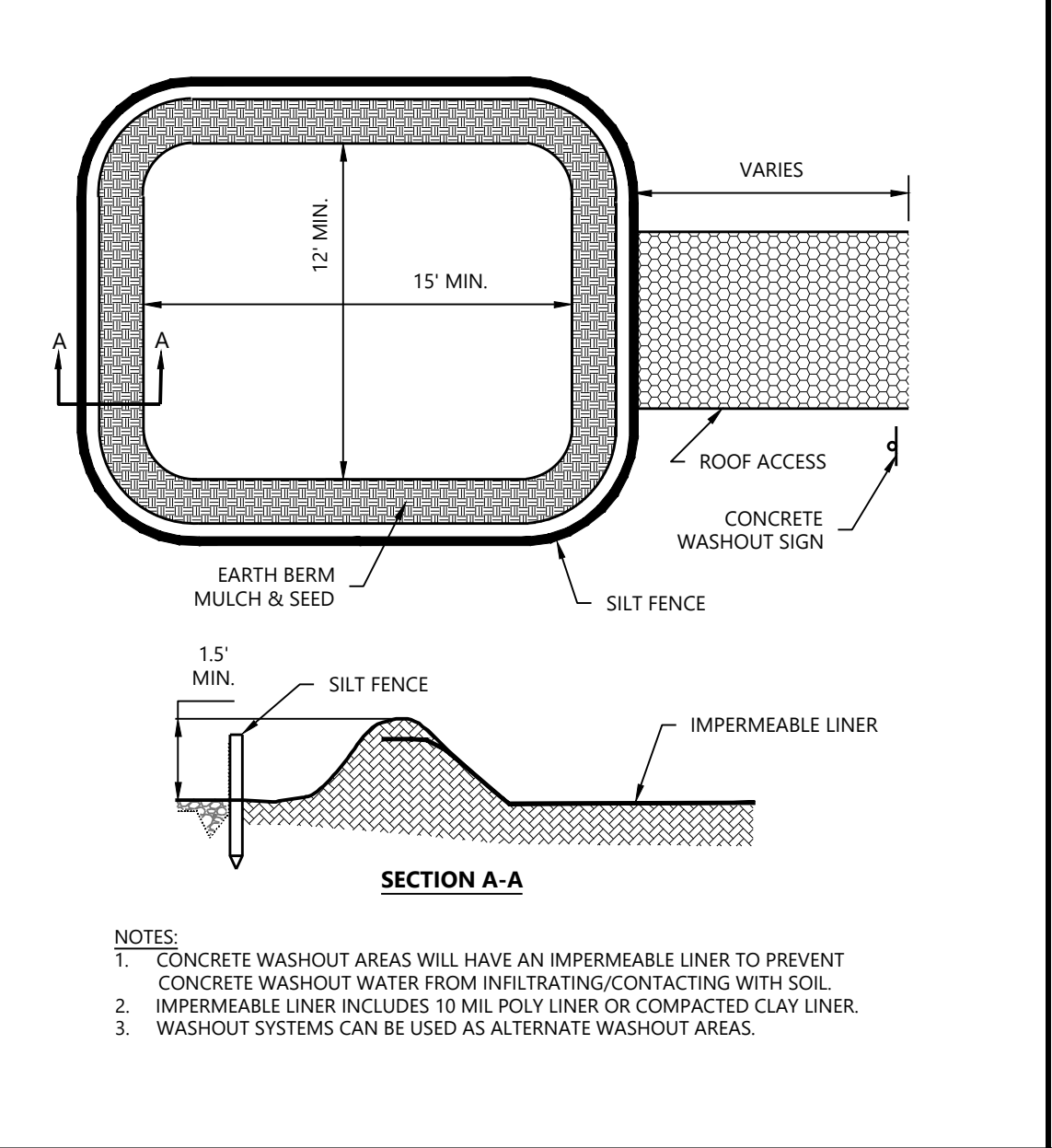
LAST REVISED: 07/19/21 INTEGRAL CURB AND WALK SI05



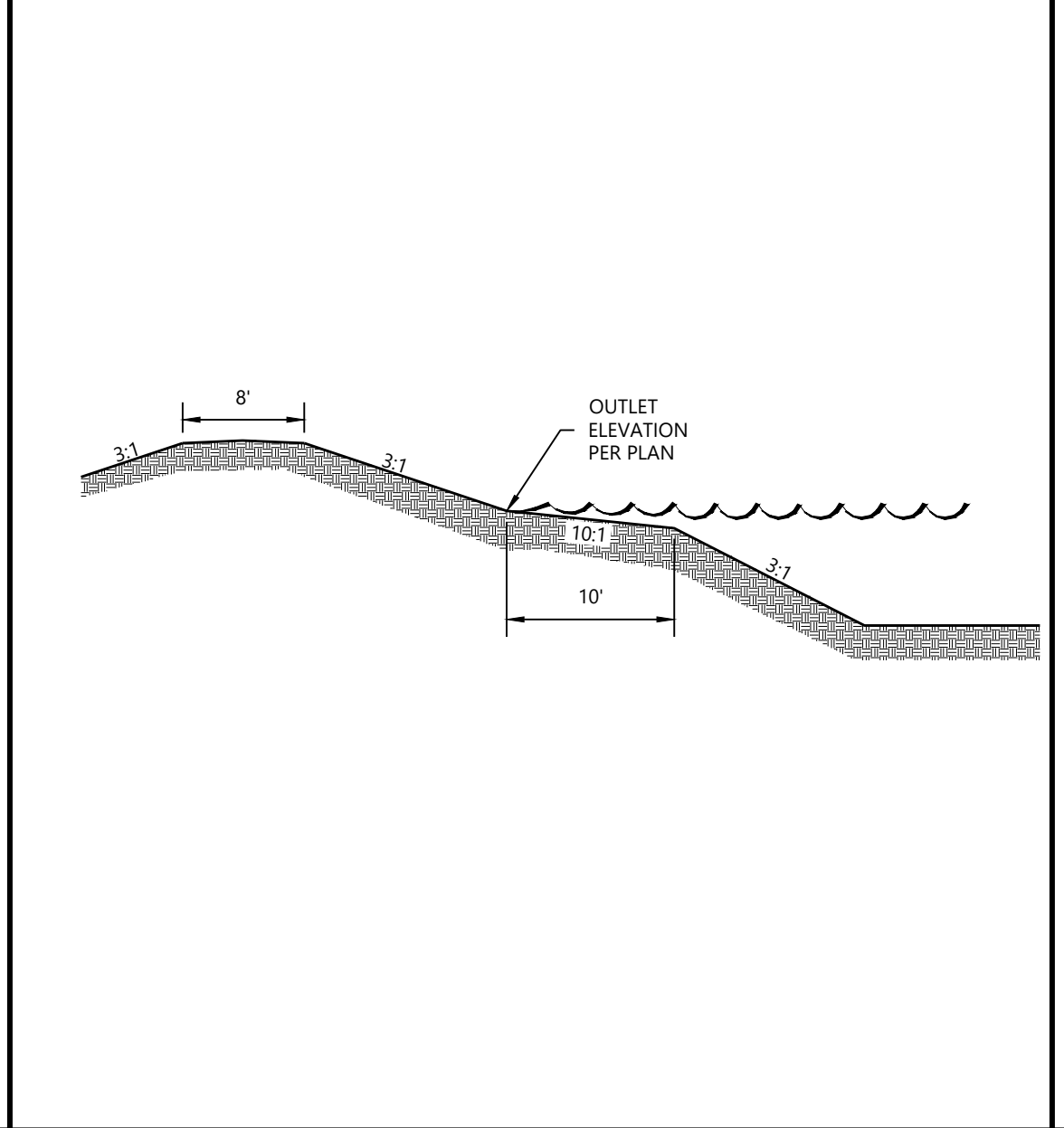
LAST REVISED: 07/19/21 TEMPORARY EROSION BLANKETS TURF REINFORCEMENT MATS FOR CHANNELS GD22



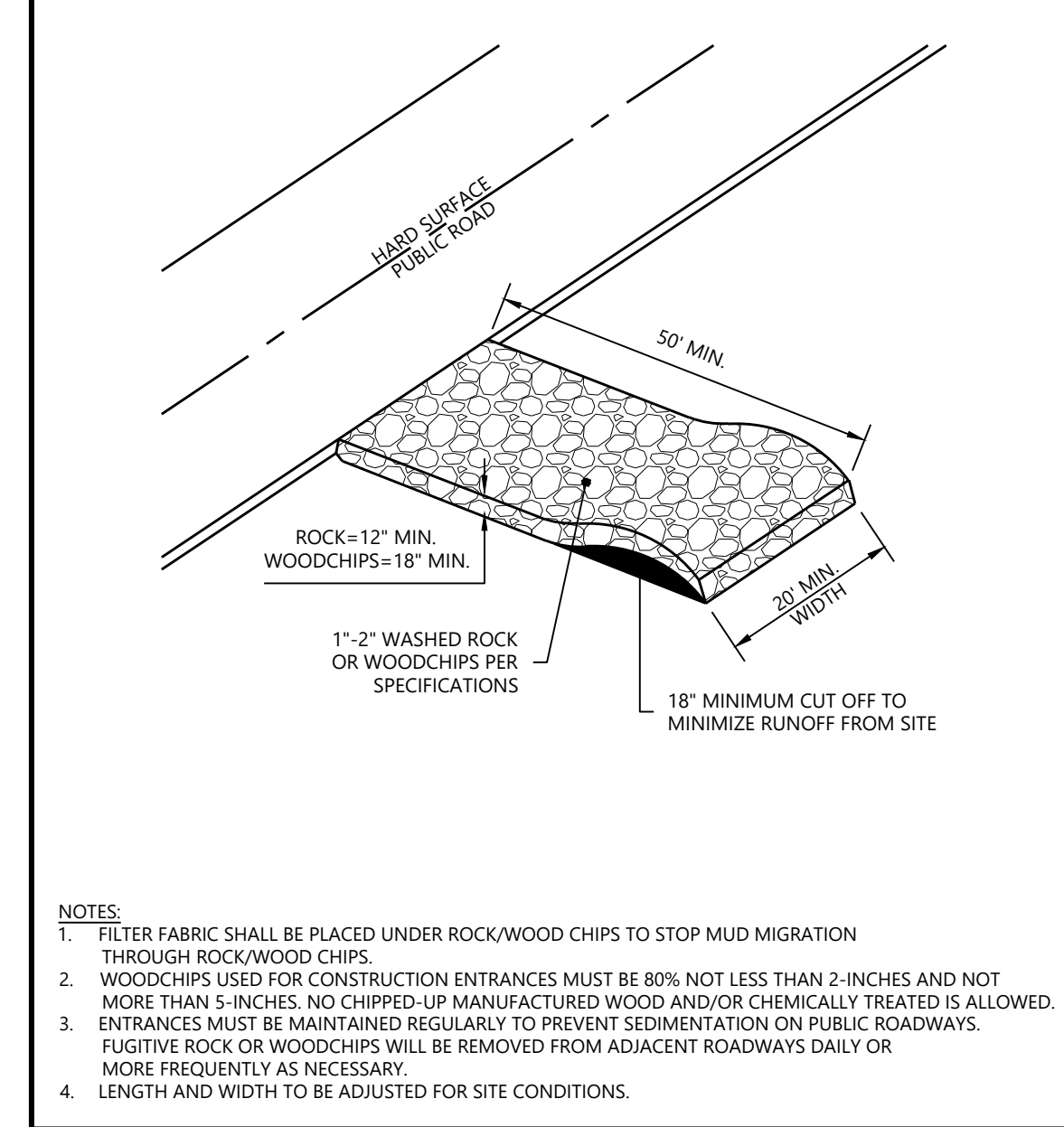
LAST REVISED: 07/19/21 SURFACE ROUGHENING FOR ALL SLOPES GREATER THAN 4:1 GD09



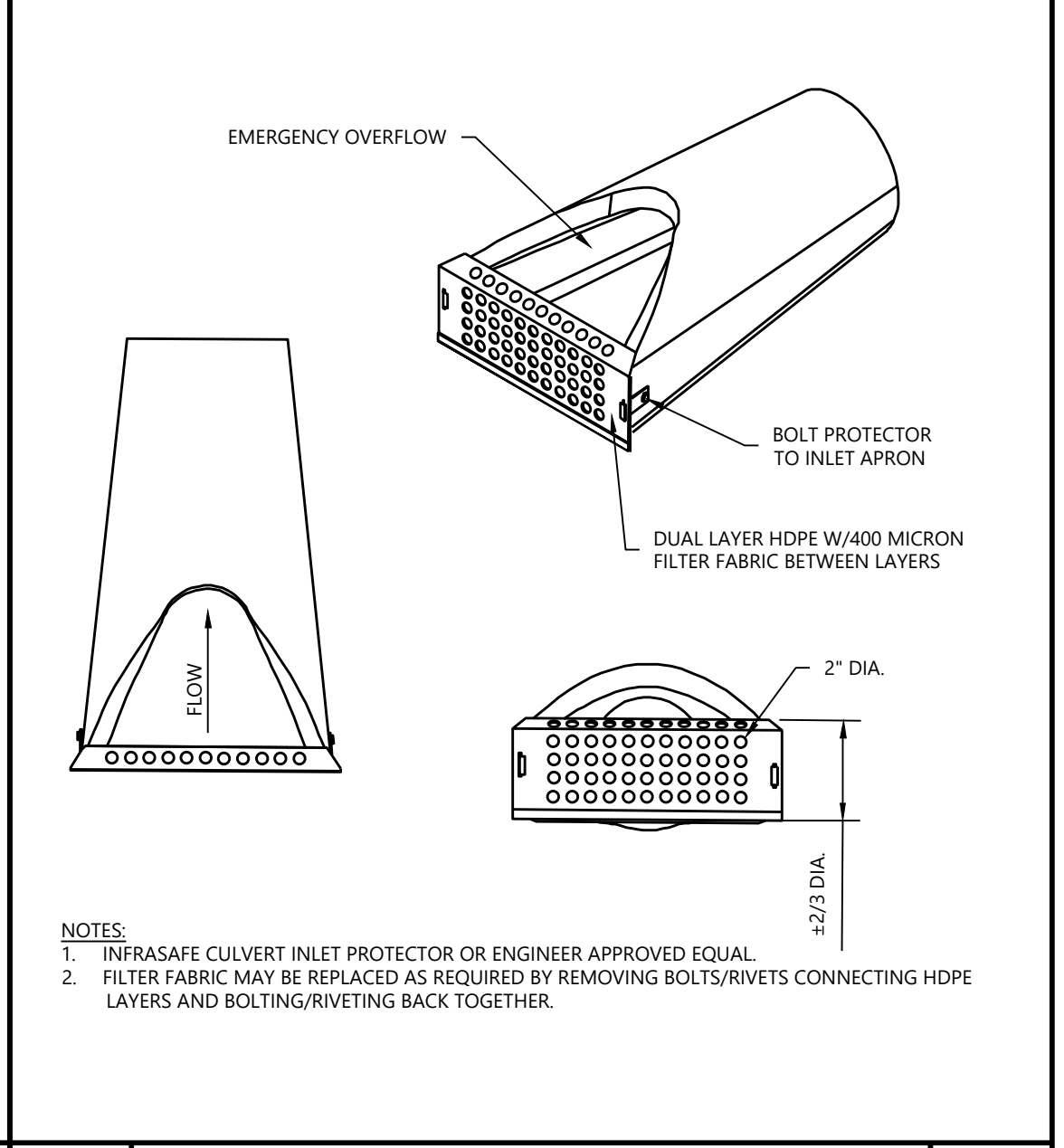
LAST REVISED: 07/19/21 CONCRETE WASHOUT AREA GD08



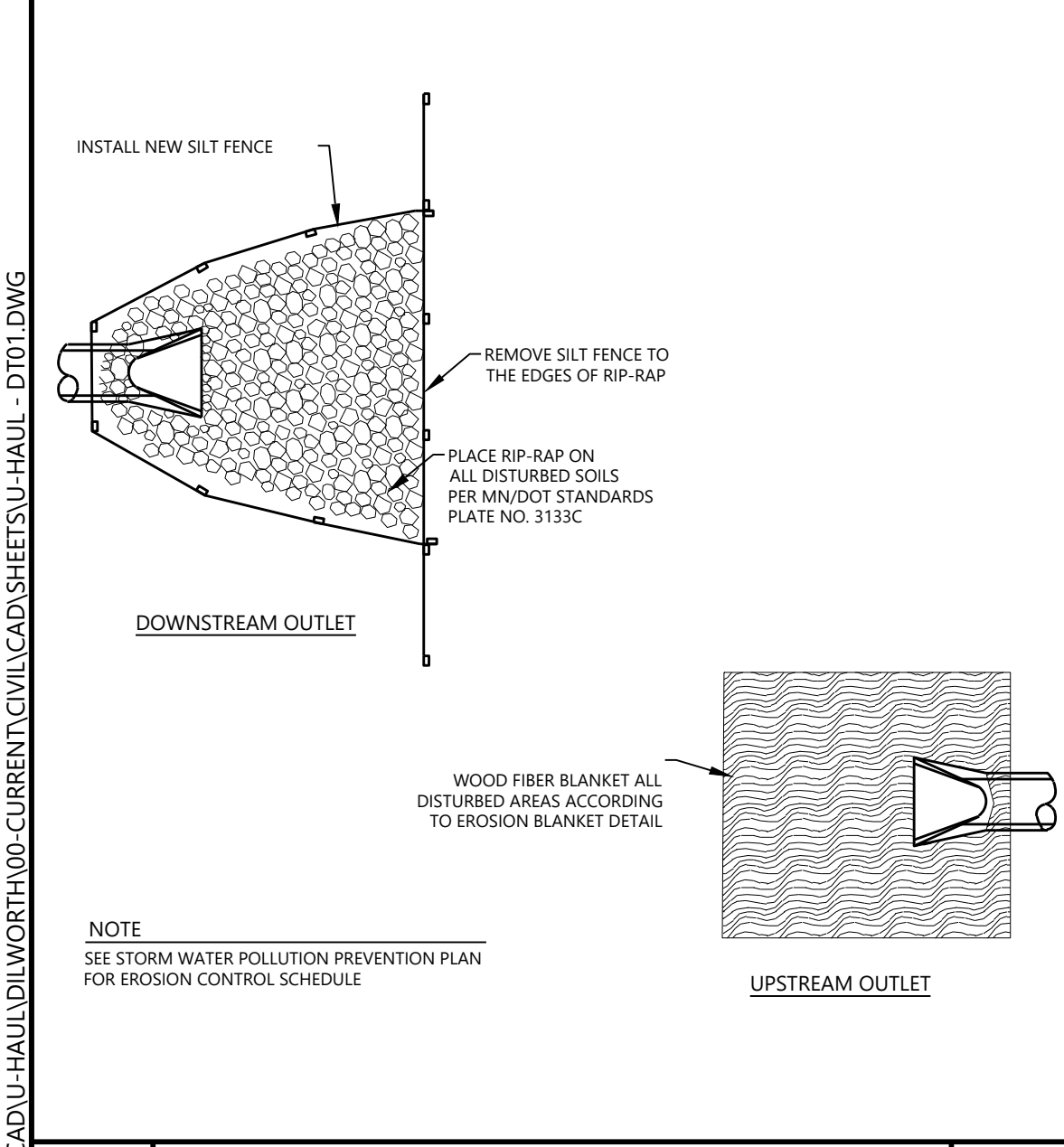
LAST REVISED: 07/19/21 POND BENCH GD06



LAST REVISED: 07/19/21 CONSTRUCTION ENTRANCE GD05



LAST REVISED: 07/19/21 CULVERT INLET PROTECTOR GD28



LAST REVISED: 07/19/21 EROSION CONTROL AT FLARED END SECTIONS GD27

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Project Number: FM.C.22.016