



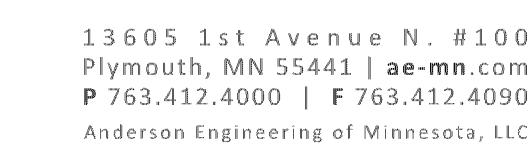
9300 Hennepin Town Road
Minneapolis, MN 55347
Tel: 952.278.8880
Fax: 952.278.8822

GYROPOLIS

2325 W 90TH ST
BLOOMINGTON, MINNESOTA

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED CIVIL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

56013	10/13/2022
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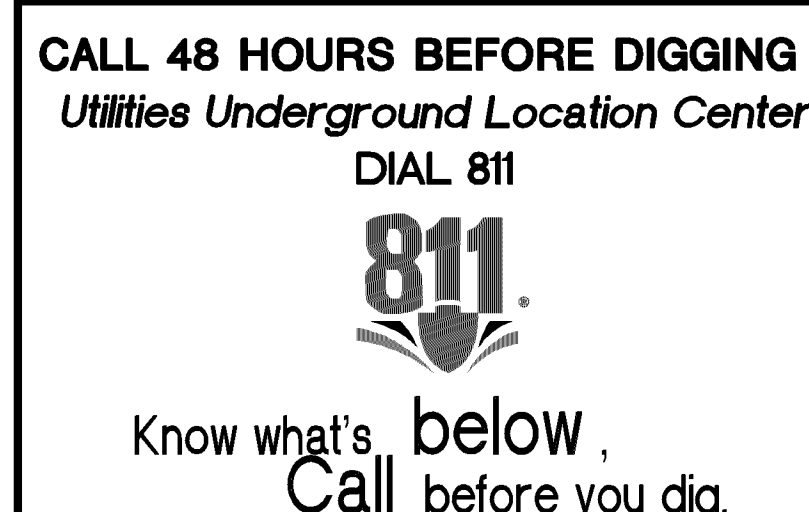


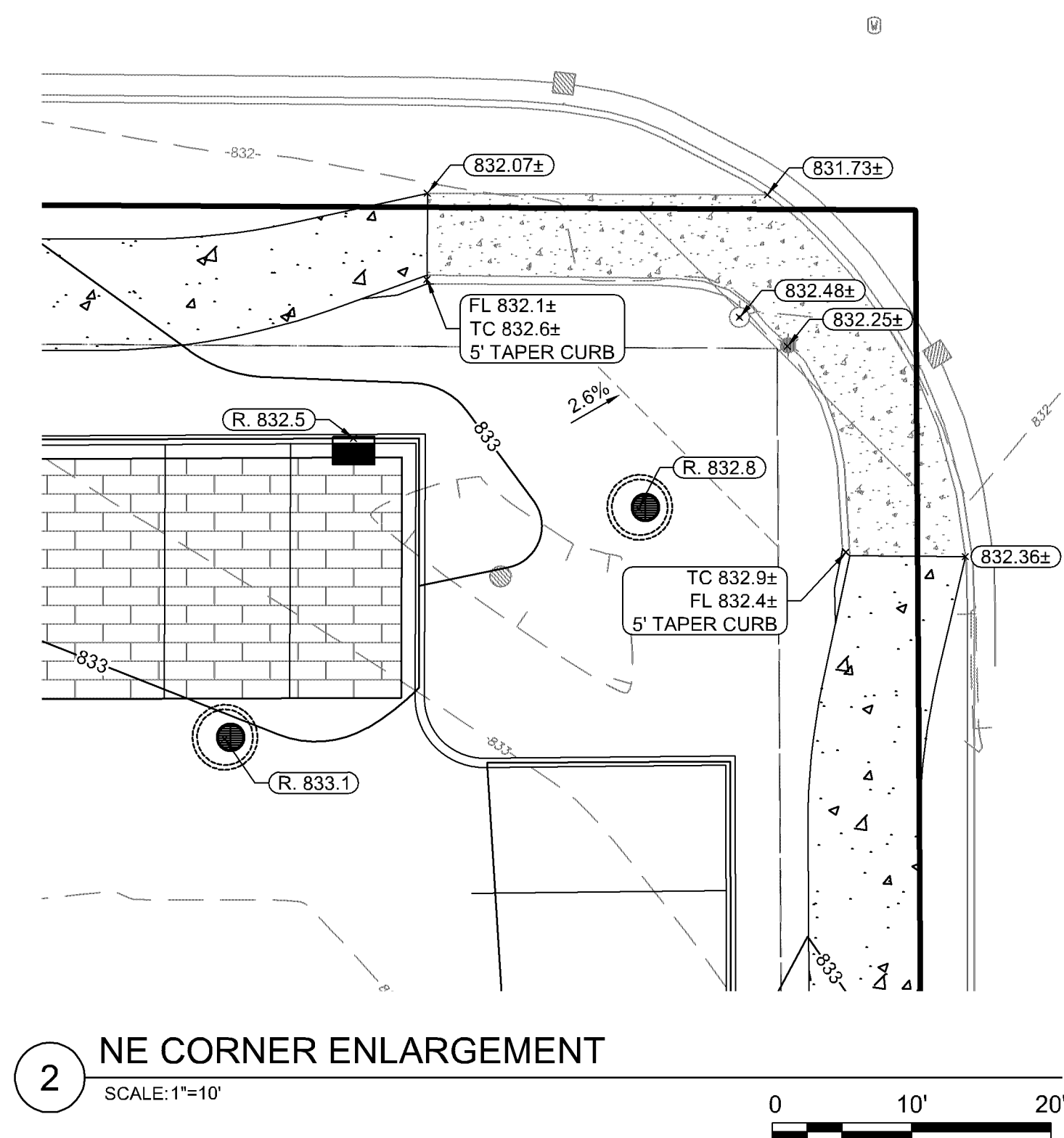
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1. UTILITIES SHOWN HERE ARE FOR INFORMATIONAL USE ONLY AND ARE NOT GUARANTEED IN THEIR ACCURACY. VERIFY WORK. NOTIFY ENGINEER OF ANY/ALL DISCREPANCIES IMMEDIATELY.
2. CONTRACTOR SHALL HIRE PRIVATE UTILITY LOCATOR AS NECESSARY TO VERIFY UNDERGROUND UTILITIES. UTILITIES SHOWN ON PLANS MAY VARY FROM EXISTING CONDITIONS, AND CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO UTILITY LINES SHOWN, NOT SHOWN, OR SHOWN INCORRECTLY.
3. UTILITIES MUST BE LOCATED PRIOR TO EXCAVATION OR GRADING ON ANY SITE. CALL GOPHER STATE ONE CALL AT 1-800-252-1166 AS SOON AS POSSIBLE TO SCHEDULE UTILITY LOCATIONS FOR THIS SITE.
4. A MINIMUM OF 24-HOUR NOTICE IS REQUIRED WHEN SCHEDULING INSPECTIONS. PLEASE FORWARD THIS INFORMATION TO ANY AND ALL AFFECTED SUB-CONTRACTORS FOR THIS PROJECT.

	PROPERTY LIMITS		EXISTING SANITARY MANHOLE
	EXISTING WATERMAIN		EXISTING STORM SEWER INLET
	EXISTING SANITARY SEWER		REMOVE EXISTING BUILDING STRUCTURE
	EXISTING STORM SEWER		REMOVE EXISTING APRON
	EXISTING FENCE		REMOVE EXISTING CONCRETE WALK
	EXISTING GAS MAIN		REMOVE EXISTING CONCRETE C&G
	EXISTING OVERHEAD WIRES		REMOVE TREE
	EXISTING TELEPHONE		
	EXISTING UNDERGROUND ELECTRIC		
	EXISTING HYDRANT AND GV		





Know what's below,
Call before you dig.

- ① 0" CURB HEIGHT FOR FULL LENGTH OF CONCRETE WALK.
- ② FULL CURB HEIGHT
- ③ DETECTABLE WARNING MAY BE PART OF 4'X4' LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
- ④ 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS
- ⑤ WHITE REFLECTIVE PAINT RECTANGLE CENTERED AROUND ACCESSIBILITY PARKING SYMBOL. LINE TO BE 3 INCHES WIDE, OVER A WIDTH OF 36 INCHES AND HEIGHT OF 41 INCHES PER 2009 MUTCD CODE FIGURE 3B.20.
- ⑥ HANDICAP STALL SIGN TO COMPLY WITH 2020 MN ACCESSIBILITY CODE 502.7
- ⑦ 4" PAINTED DIAGONAL LINES 45° - 3' CENTER TO CENTER.
- ⑧ 4" PAINTED PARKING STALL LINES.
- ⑨ NO PARKING SIGN, MUTCD R8-3. INSTALL MIN. OF 60" TO MAX. OF 66" HIGH MEASURED FROM HEAD OF ACCESS AISLE PAVEMENT ELEVATION TO BOTTOM OF SIGN PER 2020 MN ACCESSIBILITY CODE 502.4.4.
- ⑩ VARIABLE HEIGHT CURB

1. PROPOSED SPOT ELEVATIONS ARE TO TOP OF FINISHED SURFACE UNLESS OTHERWISE NOTED IN LEGEND.
2. ALL CONSTRUCTION OF HANDICAP STALLS, ROUTES, & CURB RAMPS TO COMPLY WITH THE 2020 MN ACCESSIBILITY CODE.
3. CONTRACTION JOINTS SHALL BE CONSTRUCTION ALONG ALL GRADE BREAKS. ALL GRADE BREAKS SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
4. TO ENSURE RAMPS & LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY.
5. ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.
6. TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.
7. FOUR FOOT MIN WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL.

±	EXISTING GRADE
HP	HIGH POINT ELEVATION
TC	TOP OF CURB ELEVATION
R.	RIM ELEVATION
I.	INVERT ELEVATION



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Minneapolis, MN 55347
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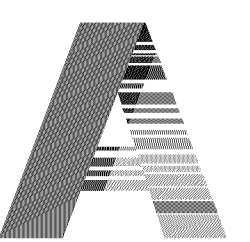
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NOT FOR CONSTRUCTION

Brian Field, PE

56013	10/13/2022
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ANDERSON

13605 1st Avenue N. #100
Plymouth, MN 55441 | ae-mn.com
P 763.412.4000 | F 763.412.4090
Anderson Engineering of Minnesota, LLC

GRADING & DRAINAGE PLAN

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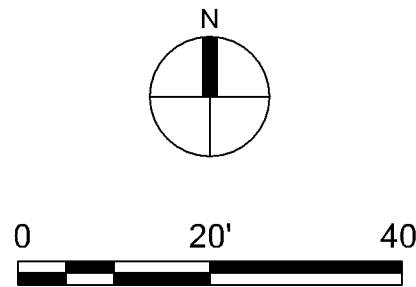
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1. ALL CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS OF THE SOIL ENGINEER UNLESS DIRECTED OTHERWISE.
2. ALL CONSTRUCTION SHALL COMPLY WITH THE MOST CURRENT CITY OF BLOOMINGTON CODE AND STANDARDS, AND THE 2016 EDITION OF MNDOT STANDARD CONSTRUCTION SPECIFICATIONS (INCLUDING SUPPLEMENTS) AND THE C.E.A.M. SPECIFICATIONS EDITION 2013 EDITION UNLESS DIRECTED OTHERWISE.
3. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE MUNICIPAL, WATERSHED DISTRICT, COUNTY, MPCA, DEPT. OF HEALTH, AND MNDOT PERMITS.
4. THE LOCATION AND TYPE OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE INFORMATION IS NOT WARRANTED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR, IN COOPERATION WITH THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY, IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES.
5. PROVIDE MINIMUM 10' HORIZONTAL & 18" VERTICAL SEPARATION OF ALL WATERMAIN CROSSING OVER OR UNDER CORM OR SANITARY SEWER.
6. ALL WATER SERVICE PIPE SHALL BE INSTALLED WITH 8" MINIMUM COVER FROM FINISHED GRADE, MAX 10 FEET.
7. HDPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES MUST BE MADE WITH WATER TIGHT MATERIALS UTILIZING AN A-LOK OR WATERSTOP GASKET OR BOOT, CAST-IN-PLACE RUBBER BOOT, OR APPROVED EQUAL. WHERE THE ALIGNMENT PRECLUDES THE USE OF THE ABOVE APPROVED WATER TIGHT METHODS, CONSEAL 231 WATERSTOP SEALANT, OR APPROVED EQUAL WILL ONLY BE ALLOWED AS APPROVED BY THE ENGINEER.
8. ALL NEW NON-FRATILE SANITARY AND WATER SERVICE PIPE SHALL HAVE TRACER WIRE, PER SPECIFICATIONS.
9. LOCATE AND PROTECT EXISTING UTILITIES UNLESS OTHERWISE NOTED.
10. SUBSTITUTIONS FROM INFO. SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND CITY ENGINEER.
11. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF A BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 4714, SECTION 1109.0. TESTING OF WATER AND SEWER SHALL COMPLY WITH 2013 CEAM REQUIREMENTS.
12. PVC 12" AND 18" WATER SERVICE PIPE SHALL MEET ASTM STANDARDS LISTED IN MINNESOTA RULES, CHAPTER 4714, TABLE 701.1 AND INSTALLATION STANDARD 1. FITTINGS 4" 15 INCHES IN DIAMETER, SHALL CONFORM TO ASTM D3034, TYPE PSM, SDR 26. PIPE AND FITTINGS SHALL HAVE ELASTOMERIC GASKET JOINTS PROVIDING A WATER TIGHTS SEAL WHEN TESTED IN ACCORDANCE WITH ASTM D3212. JOINTS' SEALS ARE TO BE MECHANICAL CLAMP RING TYPE, STAINLESS STEEL EXPANDING AND CONTRACTING SLEEVE NEOTRENE RIPPED GASKET FOR POSITIVE SEAL. GASKETS SHALL CONFORM TO ASTM F477.
13. HDPE STORM SEWERS MUST MEET ASTM F714 (SEE MINNESOTA RULES, CHAPTER 4714, SECTION 1102.4 AND INSTALLATION STANDARD 1). WATER TIGHT JOINTS MUST BE USED AT ALL CONNECTION INCLUDING STRUCTURES. THE INSTALLATION MUST COMPLY WITH ASTM D3231.
14. ALL COMPONENTS OF WATER SYSTEM, UP TO THE WATER METER OR FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE INTERNAL COATINGS MEETING CURRENT ANSI/AWWA STANDARDS FOR CEMENT MORTAR LINING OR SPECIAL COATING. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED. PROVIDE 8 MIL POLYWRAP ON DIP WATERMAIN PER CITY STANDARDS.
15. COMBINATION FIRE AND DOMESTIC SERVICES MUST TERMINATE WITH A THREAD ON FLANGE OR AN FLANGE TO FLANGE ADAPTOR.
16. UTILITY AND MECHANICAL CONTRACTORS MUST COORDINATE THE INSTALLATION OF ALL WATER AND SEWER SERVICE PIPES INTO THE BUILDING TO ACCOMMODATE CITY INSPECTION AND TESTING.
17. CONTRACTOR TO PROVIDE UTILITY AS-BUILTS TO CITY OF BLOOMINGTON PRIOR TO CERTIFICATE OF OCCUPANCY.

STRUCTURE SCHEDULE			
STRUCTURE NUMBER	SIZE	CASTING	NOTES
OSC-1	60"—DIA	R-1642	SOLID "STORM"
CB-2	48"—DIA	R-3067	—
CBMH-3	48"—DIA	R-3067	—
CBMH-4	48"—DIA	R-3067	—
STMH-5	48"—DIA	R-1642	SOLID "STORM"
CB-6	2'X3' REC	R-3067	—
STMH-7	48" DIA	R-1642	SOLID "STORM"
CB-8	2'X3' REC	R-3067	—
CB-9	2'X3' REC	R-3067	—
CB-10	2'X3' REC	R-3067	—

- 1 WET TAP EXISTING 12" WATER MAIN WITH SADDLE AND 6" GATE VALVE. REMOVE EXISTING SERVICE PER CITY OF BLOOMINGTON STANDARDS.
- 2 INSTALL 6" GATE VALVE AND RISER BOX.
- 3 INSTALL 6" - HDPE INTERNAL ROOF DRAIN FOR BUILDING ADDITION. COORDINATE FINAL LOCATION AND TYPE WITH MASTER PLUMBER.
- 4 REMOVE AND REPLACE IN- KIND FOR UTILITY CONNECTION PROVIDE STAGE APPROPRIATE VEHICLE AND PEDESTRIAN TRAFFIC CONTROL MEASURES PER MUTCD.
- 5 PROTECT EXISTING SANITARY SERVICE IN PLACE.
- 6 ABANDONED WATER SERVICE AT MAIN PER CITY STANDARDS.
- 7 INSTALL 6" HYDRANT LEAD WITH GATE VALVE
- 8 WET TAP EXISTING 30" WATER MAIN WITH SADDLE AND 6" GATE VALVE.
- 9 INSTALL 6X6 TEE

	PROPERTY LIMITS
	EXISTING WATERMAIN
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	PROPOSED WATERMAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLETS
	PROPOSED CONCRETE WALK
	PROPOSED BITUMINOUS ASPHALT



www.htg-architects.com
Minneapolis Tampa Bismarck

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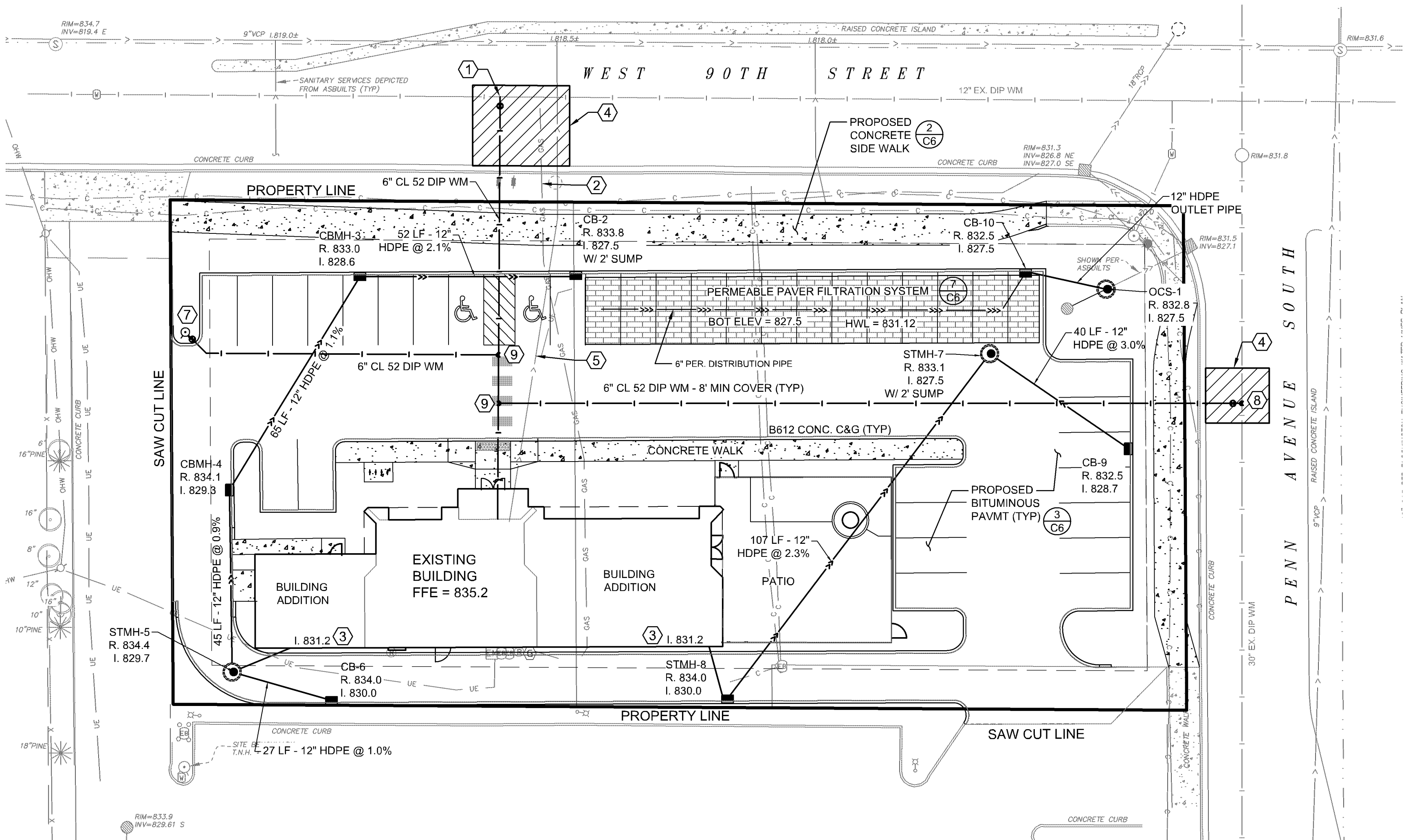
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Call before you dig



3. GRADING CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION.

2. ALL EROSION CONTROL MEASURES CALLED FOR ON THESE PLANS AND SPECIFICATIONS, WHICH MAY INCLUDE SILT FENCE, SEDIMENTATION BASINS OR TEMPORARY SEDIMENT TRAPS, SHALL BE CONSTRUCTED AND SERVICEABLE IN THE FOLLOWING ORDER:

- A. ROCK CONSTRUCTION ENTRANCES A MINIMUM OF 50 FEET
- B. SILT FENCE
- C. TEMPORARY CULVERTS
- D. TEMPORARY SEDIMENTATION BASINS AND OUTFALL FACILITIES
- E. SORM/WATER POND CONSTRUCTION
- F. COMMON EXCAVATION AND EMBANKMENT (GRADING)
- G. SEED AND MULCH OR SOD
- H. BIO-ROLL BARRIERS IN FINISHED GRADED AREAS
- I. INLET AND OUTLET FACILITIES SUBSEQUENT TO STORM SEWER WORK

3. GRADING CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY AND NPDES PHASE II PERMITTING REQUIREMENTS, AS WELL AS EROSION CONTROL MEASURES AS MAY BE SHOWN ON THESE PLANS OR SPECIFICATIONS. GRADING CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED TO PROTECT ADJACENT PROPERTY.

4. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING GRADING OPERATIONS. ANY TEMPORARY FACILITIES WHICH ARE TO BE REMOVED AS CALLED FOR ON THESE PLANS AND SPECIFICATIONS SHALL BE REMOVED BY THE GRADING CONTRACTOR WHEN DIRECTED BY THE ENGINEER. THE GRADING CONTRACTOR SHALL RESTORE THE SUBSEQUENTLY DISTURBED AREA IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

5. THE GRADING CONTRACTOR SHALL SCHEDULE THE SOILS ENGINEER SO THAT CERTIFICATION OF ALL CONTROLLED FILLS WILL BE FURNISHED TO THE OWNER DURING AND UPON COMPLETION OF THE PROJECT.

6. ALL DISTURBED AREAS, EXCEPT AREAS TO BE PAVED AND/OR SPECIFICALLY DESIGNED BY A LANDSCAPE PLAN, SHALL BE COVERED WITH A MINIMUM 5" OF TOP SOIL OR AS INDICATED IN SPECIFICATIONS OR LANDSCAPE PLAN. ALL DISTURBED AREAS SHALL BE SEED & MULCHED AT THE PRESCRIBED RATES WITHIN 72 HOURS OF FINAL GRADING UNLESS OTHERWISE NOTED.

SEED MIX:	MNDOT No. 25-141	55#/ ACRE
MULCH:	TYPE 1	2 TONS / ACRE (DISK ANCHORED)
FERTILIZER:	TYPE 3 225-5-10	350#/ ACRE

ALL EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 LINEAL FEET OF ANY SURFACE WATER, MUST HAVE TEMPORARY EROSION PROTECTION OR PERMANENT COVER FOR THE EXPOSED SOIL AREAS YEAR ROUND, ACCORDING TO THE FOLLOWING TABLE OF SLOPES AND TIME FRAMES:

TYPE OF SLOPE	TIME (Maximum time an area can remain open when the area is not actively being worked)
STEEPER THAN 3:1	7 DAYS
10:1 TO 3:1	4 DAYS
FLATTER THAN 10:1	21 DAYS

7. THE EXISTING TOPOGRAPHY AND CONTOUR ELEVATIONS SHOWN ON THE PLAN WERE TAKEN FROM A PLAN FURNISHED BY OWNER.

8. CONTRACTORS GRADING AND EROSION CONTROL OPERATIONS SHALL TAKE PLACE WITHIN THE CONSTRUCTION LIMITS.

9. IT IS REQUIRED THAT SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES BE CLEARED DAILY FROM PAVED ROADWAY SURFACES THROUGHOUT THE DURATION OF CONSTRUCTION.

10. PROVIDE TEMPORARY SEDIMENTATION BASINS AS DIRECTED BY THE ENGINEER.

11. ALL REQUIREMENTS OF THE LOCAL WATERSHED DISTRICT SHALL BE SATISFIED PER THE APPROVED PERMIT.

12. ALL EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN AND IMPLEMENTED IN THE FIELD AS DIRECTED BY THE ENGINEER SHALL CONFORM TO THE MPCA'S "PROTECTING WATER QUALITY IN URBAN AREAS: BEST MANAGEMENT PRACTICES FOR MINNESOTA".

13. DEWATERING AND / OR BASIN DRAINAGE DISCHARGE SHALL BE DIRECTED TO SEDIMENTATION BASINS WHEREVER POSSIBLE. ALL DISCHARGE POINTS SHALL BE ADEQUATELY PROTECTED FROM EROSION & SCOUR THROUGH USE OF APPROVED ENERGY DISSIPATION DEVICES.

14. ALL SOIL WASTE / CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH MPCA REQUIREMENTS. HAZARDOUS MATERIALS SHALL BE STORED / DISPOSED OF IN COMPLIANCE WITH MPCA REGULATIONS.

15. CONTRACTOR SHALL USE RAPID STABILIZATION METHODS PER MNDOT 2575 AS NEEDED DURING THE COURSE OF THE WORK TO MAINTAIN CONFORMANCE WITH THE CITY AND NPDES II PERMIT REQUIREMENTS. THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREA, TO PREVENT OFF SITE SEDIMENTATION AND / OR TO COMPLY WITH PERMIT REQUIREMENTS. THE WORK MAY BE PERFORMED AT ANY TIME DURING THE CONTRACT AND DURING NORMAL WORKING HOURS. THIS WORK WILL BE CONDUCTED ON SMALL AREAS THAT MAY OR MAY NOT BE ACCESSIBLE WITH NORMAL EQUIPMENT. THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE MNDOT STANDARDS SPECIFICATIONS, THE DETAILS SHOWN IN THE PLANS, AND THE FOLLOWING:

THERE ARE FIVE STABILIZATION METHODS APPROVED FOR THESE OPERATIONS. THESE METHODS MAY BE CONDUCTED INDEPENDENTLY OR IN COMBINATION.

METHOD	RAPID STABILIZATION
1	TYPE 1 MULCH WITH DISC ANCHORING
2	TYPE 3 MULCH WITH TYPE HYDRAULIC MULCH
3	TYPE HYDRAULIC MULCH WITH SEED MIXTURE 22-11
4	CATEGORY 3 EROSION CONTROL BLANKET WITH SEED MIXTURE
5	RIPRAP CLASS II WITH GEOTEXTILE TYPE III

THESE EFFORTS WILL BE INCIDENTAL TO THE EROSION CONTROL BID ITEM.

16. CHANGE OF COVERAGE: FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS WHERE THE OWNER OR OPERATOR CHANGES, (E.G., AN ORIGINAL DEVELOPER SELLS PORTIONS OF THE PROPERTY TO A SUBDIVIDER, BUILDER, OR THE NEW OWNER OR OPERATOR MUST SUBMIT A SUBDIVISION REGISTRATION WITHIN 7 DAYS OF ASSUMING TRAFFIC, SALE OR CLOSING ON THE PROPERTY.

17. INDIVIDUAL SITE BUILDERS SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY EROSION CONTROL MEASURES AS MAY BE REQUIRED. REQUIRED ECMS SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING:

- A. STAKED FIBER LOG ROLLS AT BACK OF ALL CURB EXCEPT AT CONSTRUCTION / DRIVEWAY ENTRANCE
- B. SILT FENCE ON ALL DOWN GRADING SLOPES FROM CONSTRUCTION AREA. SILT FENCE SHALL HAVE THE BOTTOM DUG IN WITH SOIL FIRMLY COMPACTED.
- C. ROCK CONSTRUCTION ENTRANCE HAVING 1" TO 2" CLEAR ROCK OVER GEOTEXTILE FABRIC.
- D. STREET CLEANING AS MAY BE REQUIRED SHOULD VEHICLE TRACKING OCCUR.

INDIVIDUAL SITE BUILDERS ARE REQUIRED TO MAINTAIN ECMS UNTIL SUCH TIME AS INDIVIDUAL YARDS/VEGETATION ARE ESTABLISHED.

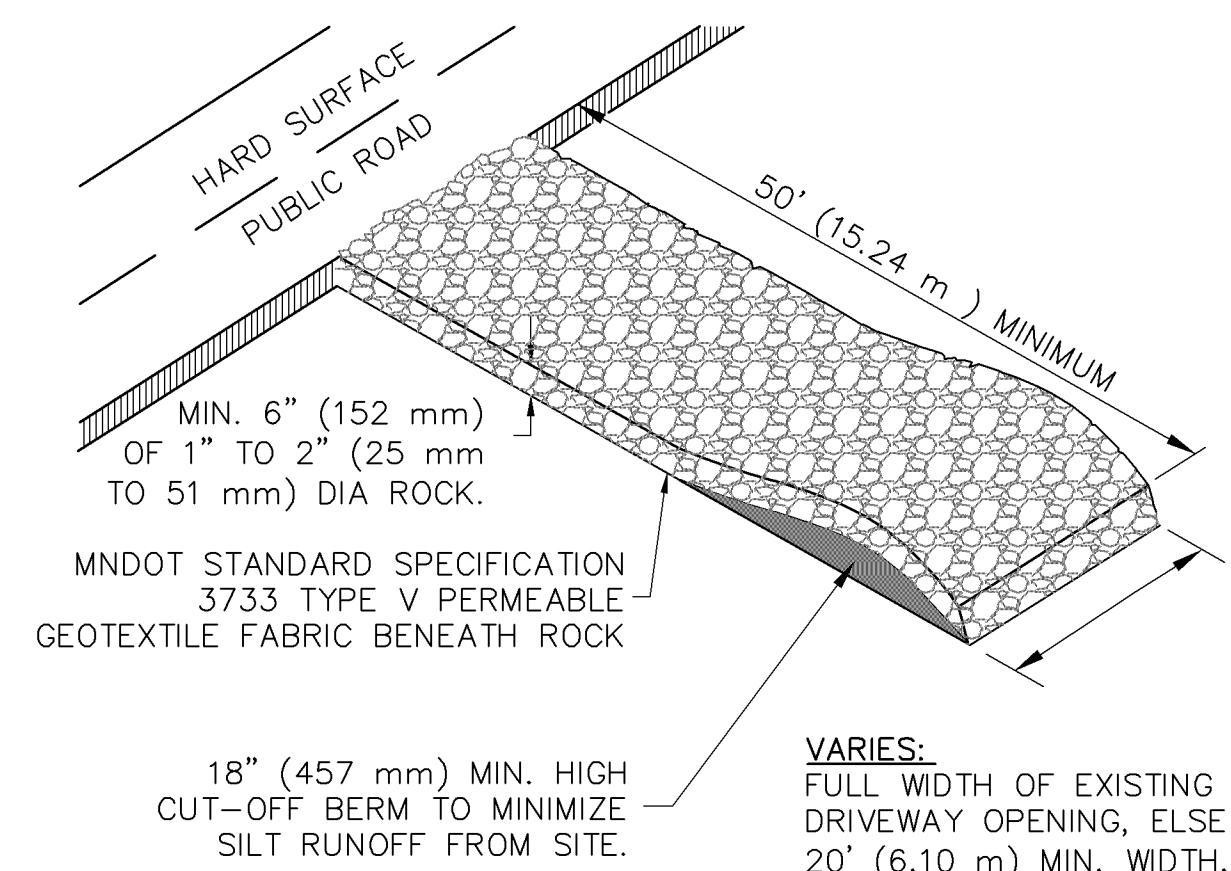
18. CONTRACTOR SHALL PROVIDE A TEMPORARY SEDIMENTATION BASIN ON SITE FOR CONSTRUCTION WASH OUT USE. TEMPORARY BASIN SHALL BE LOCATED AS TO PROVIDE EASY ACCESS FOR CONSTRUCTION VEHICLES AND CONCRETE TRUCKS AS NECESSARY.

19. INLET SEDIMENTATION CONTROL IS TO BE PROVIDED TO ALL STORM SEWER CATCH BASIN THROUGHOUT CONSTRUCTION. MEASURES APPLIED SHALL COMPLY WITH BEST MANAGEMENT PRACTICES FOR MINNESOTA AND APPLICATION OF NPDES PHASE II AS APPROPRIATE FOR PHASE OF CONSTRUCTION.

20. CONTRACTOR SHALL PREVENT SOIL LOSS DURING CONSTRUCTION DUE TO WIND EROSION THROUGHOUT CONSTRUCTION. DUST SHALL BE SUPPRESSED THROUGH THE APPLICATION OF WATER, AS WELL AS INSPECTION LOSS / REPORTS. REPORTS SHALL INCLUDE AT A MINIMUM DESCRIPTION OF ALL EMPLOYED BMP'S (INCLUDING BOTH MEASURES TO PREVENT SOIL LOSS DUE TO RUNOFF AND SOIL LOSS DUE TO WIND EROSION), BMP'S DEEMED UNNECESSARY DUE TO SITE CONDITIONS, CORRECTIVE ACTIONS TAKEN IN RESPONSE TO PROBLEMS, AND ANY ADDITIONAL INFORMATION RELEVANT TO THE CONDITION OF THE EROSION AND SEDIMENT CONTROL PLAN AS IT WAS ESTABLISHED AT THE TIME OF CONSTRUCTION.

21. IF LEED ACCREDITATION IS APPLICABLE, CONTRACTOR SHALL DOCUMENT THE IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN THROUGH DAILY STAKED PHOTOS AND INSPECTION LOSS / REPORTS. REPORTS SHALL INCLUDE AT A MINIMUM DESCRIPTION OF ALL EMPLOYED BMP'S (INCLUDING BOTH MEASURES TO PREVENT SOIL LOSS DUE TO RUNOFF AND SOIL LOSS DUE TO WIND EROSION), BMP'S DEEMED UNNECESSARY DUE TO SITE CONDITIONS, CORRECTIVE ACTIONS TAKEN IN RESPONSE TO PROBLEMS, AND ANY ADDITIONAL INFORMATION RELEVANT TO THE CONDITION OF THE EROSION AND SEDIMENT CONTROL PLAN AS IT WAS ESTABLISHED AT THE TIME OF CONSTRUCTION.

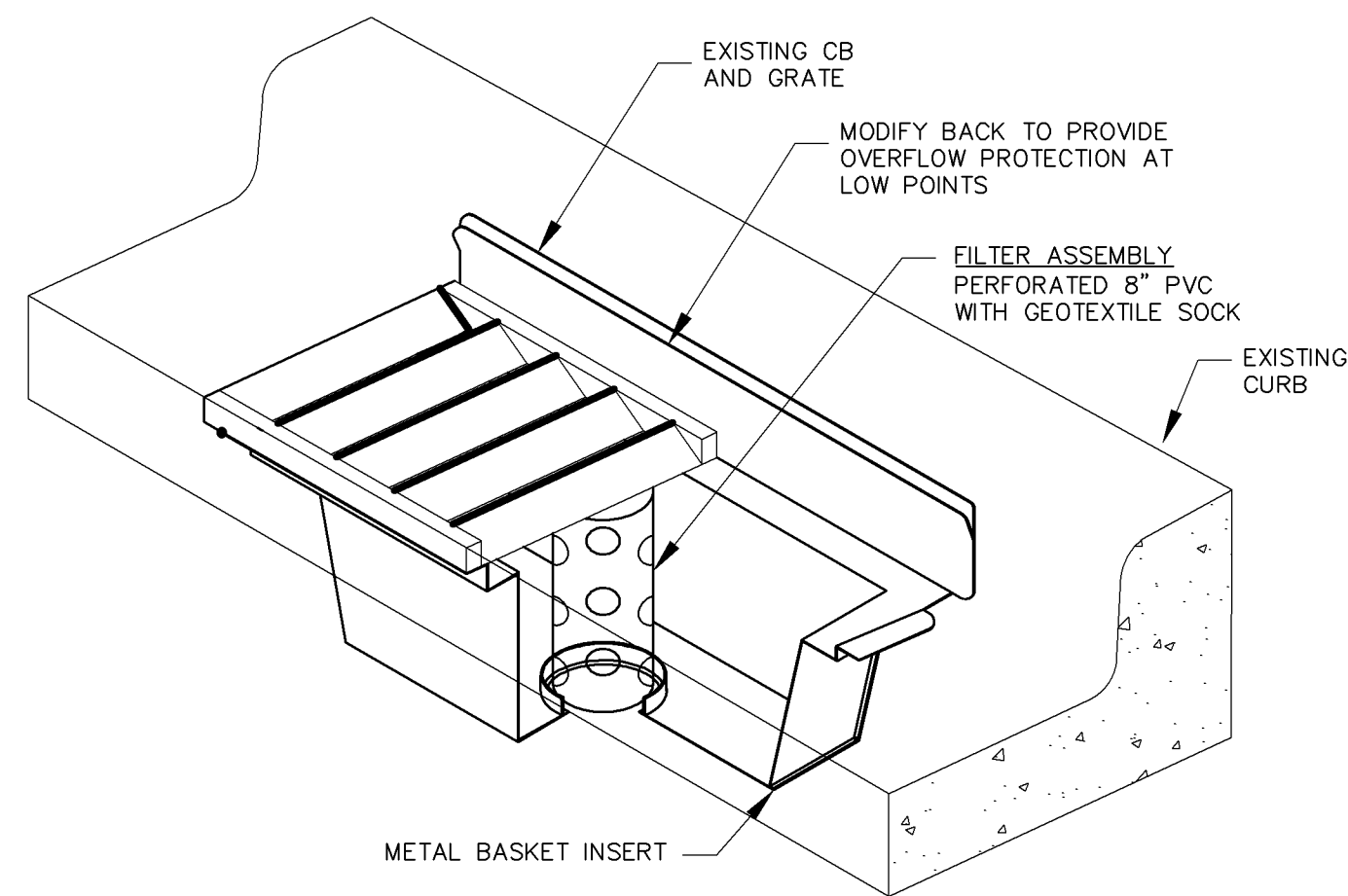
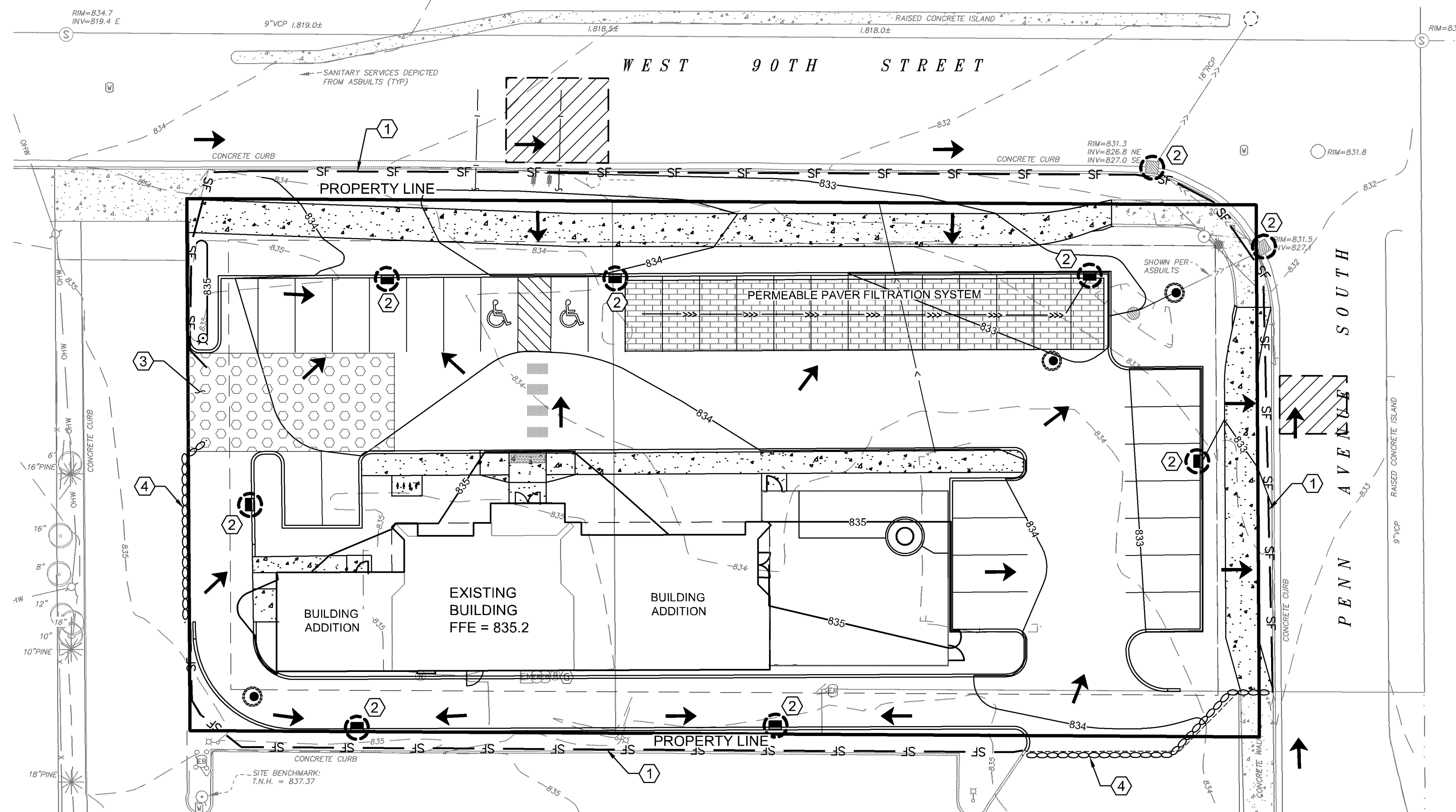
STORMWATER POLLUTION PREVENTION PLAN SCHEDULE OF INSTALLATION & MAINTENANCE			
ITEM	INSTALLATION	INSPECTION & MAINTENANCE	REMOVAL
SILT FENCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT & MAINT. AFTER EACH RUN-OFF EVENT. REMOVE SEDIMENTS AS REQUIRED	AFTER TRIBUTARY DRAINAGE AREA IS RESTORED.
ROCK CONST. ENTRANCE	PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS.	INSPECT REGULARLY. MAINTAIN AS NEEDED.	PRIOR TO PAVING.
INLET PROTECTION	UPON INLET CONSTRUCTING	WHEN 1/3 CAPACITY OF BMP IS REACHED	AFTER TRIBUTARY AREAS ARE FULLY RESTORED



(1

SCALE: N.T.S

- ① INSTALL AND MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN TURF AREAS. USE BIO-ROLLS AS NEEDED IN PAVED AREAS FOR PHASING PURPOSES. (3)
C5
- ② INSTALL AND MAINTAIN SEDIMENT PROTECTION. (2)
C5
- ③ INSTALL TEMPORARY ROCK ENTRANCE AT ALL CONSTRUCTION INGRESS AND EGRESS LOCATIONS PRIOR TO EXCAVATION AND TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. (1)
C5
- ④ INSTALL SEDIMENT CONTROL LOG PER MNDOT SPECIFICATION SECTION 2573.

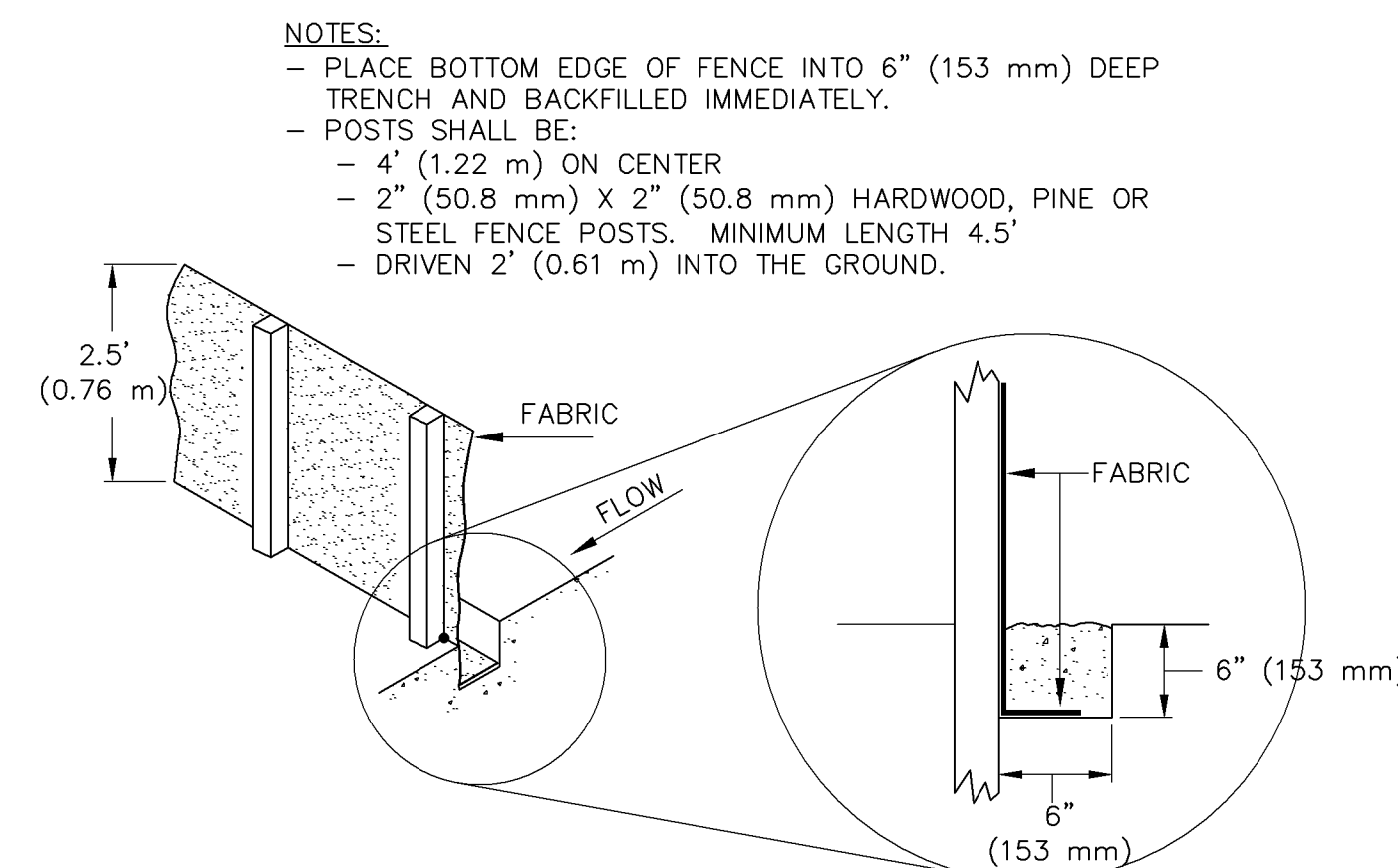


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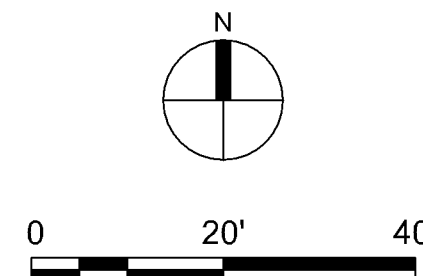
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1. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REMOVAL OF ALL APPLICABLE EROSION & SEDIMENT CONTROL ITEMS.
2. SPECIFIED EROSION/SEDIMENT CONTROL MEASURES ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
3. THE TOTAL DISTURBED AREA IS EQUAL TO 0.80 ACRES. THIS IS BELOW THE 1.0 ACRE THRESHOLD, AND THEREFORE AN MPCA PERMIT IS NOT REQUIRED.

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	DRAINAGE ARROW
	SILT FENCE
	INLET SEDIMENT PROTECTION
	ROCK CONSTRUCTION ENTRANCE

 $(:$

SCALE: N.T.S.



www.htg-architects.com
Minneapolis Tampa Bismarck

9300 Hennepin Town Road
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Tel: 952.278.8880
Fax: 952.278.8822

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ADDITION/REMODELING

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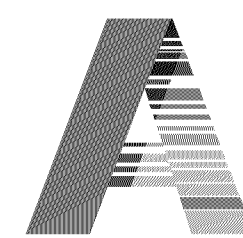
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REG. NO.	DATE



ANDERSON

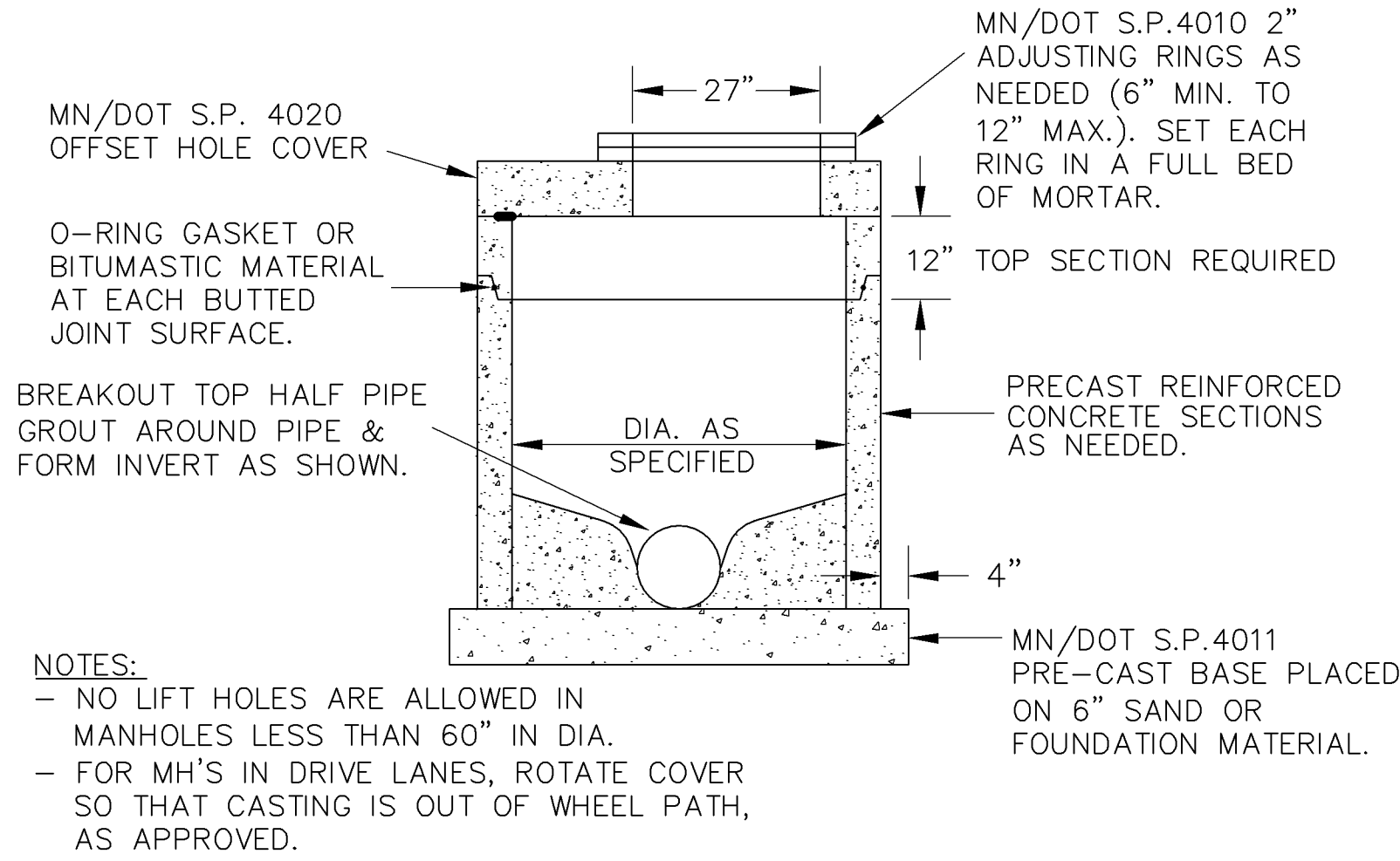
13605 1st Avenue N. #100
Plymouth, MN 55441 | ae-mn.com
P 763.412.4000 | F 763.412.4090
Anderson Engineering of Minnesota, LLC

EROSION & SEDIMENT CONTROL PLAN

DRAWN BY: BF CHECKED BY: BF

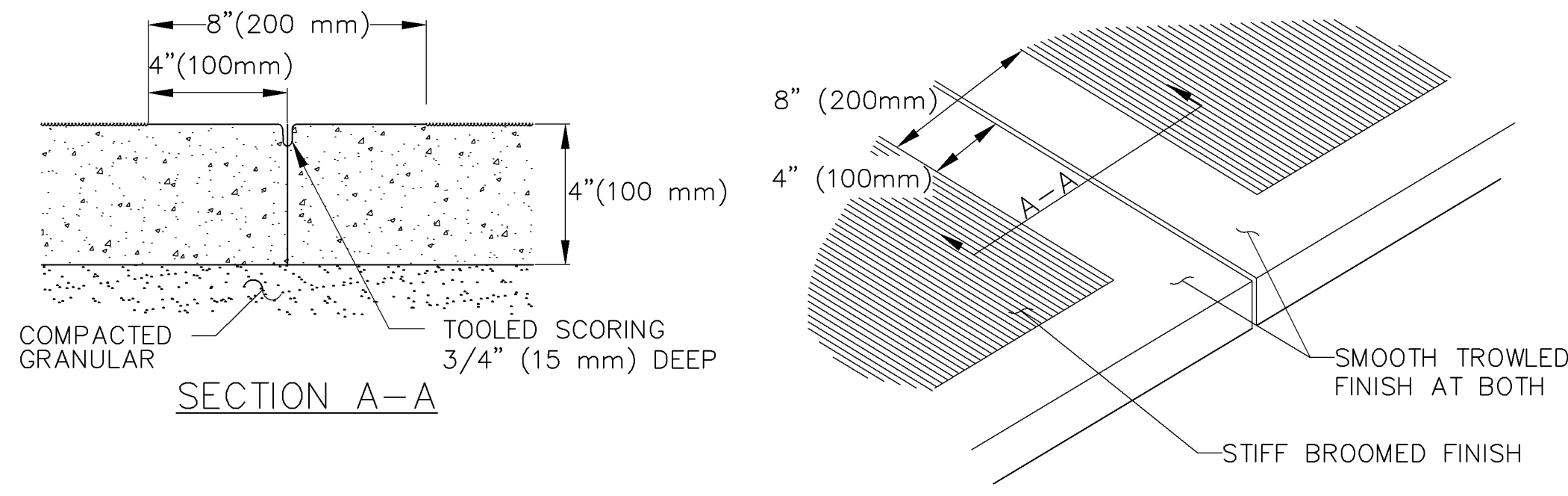
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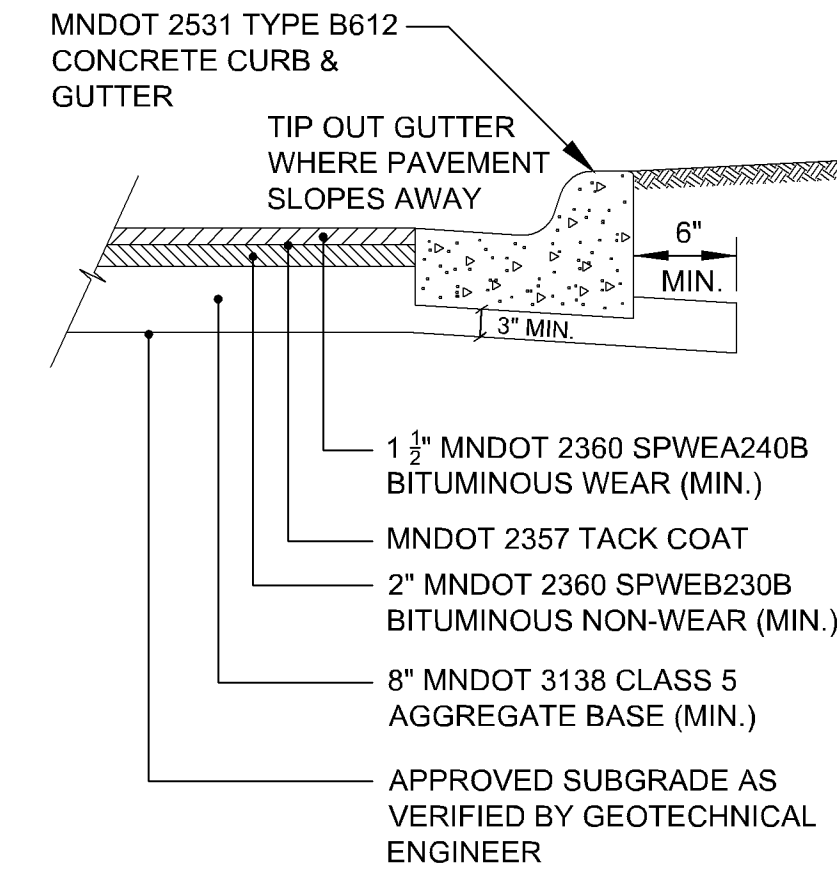
1 STANDARD MANHOLE DETAIL

SCALE: N.T.S.



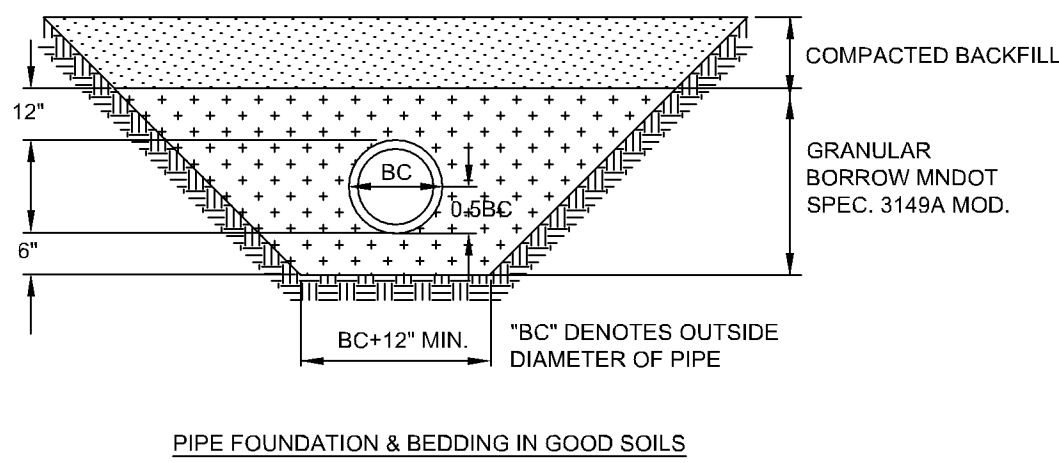
2 CONCRETE WALK SECTION DETAIL

SCALE: N.T.S.

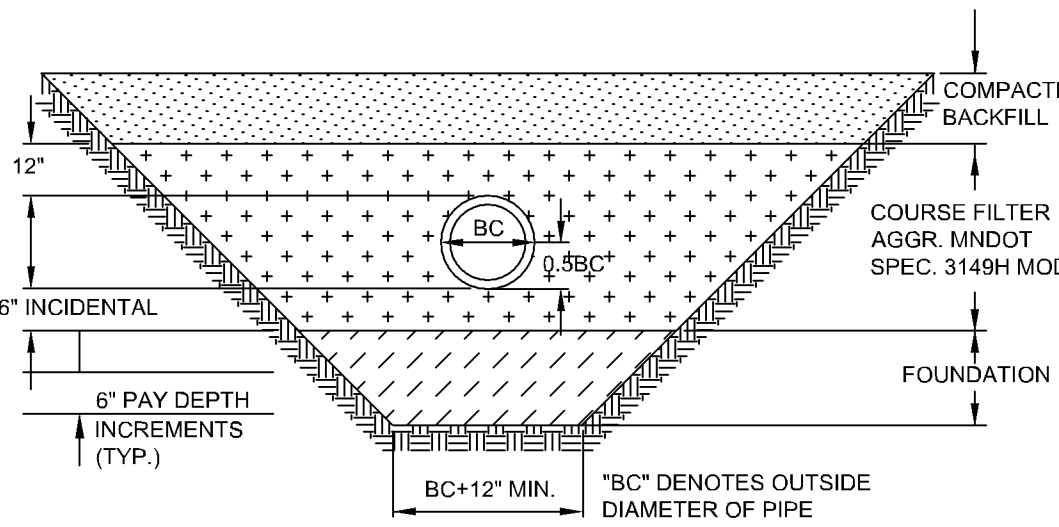


3 BITUMINOUS PAVEMENT SECTION

SCALE: N.T.S.



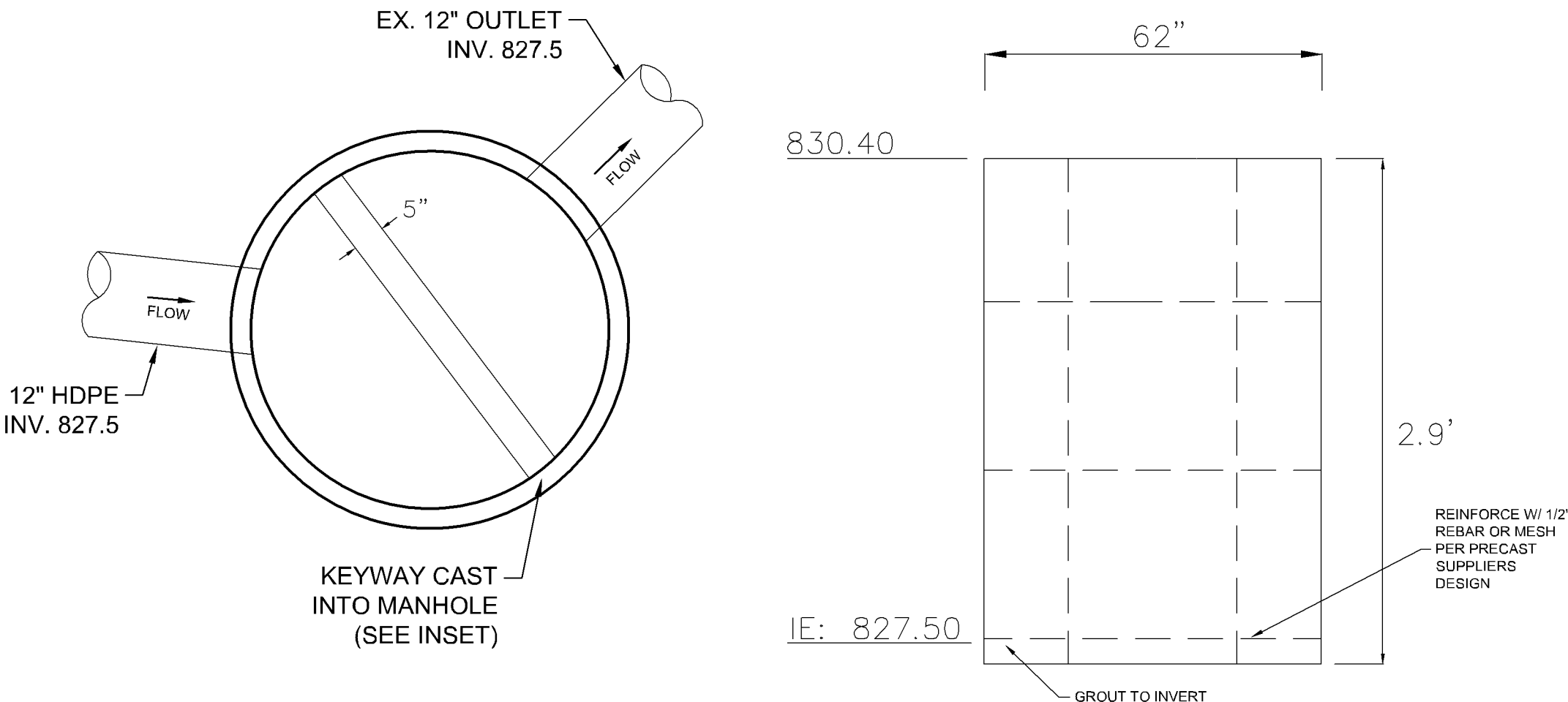
PIPE FOUNDATION & BEDDING IN GOOD SOILS



IMPROVED PIPE FOUNDATION & BEDDING IN POOR SOILS

4 PVC OR HDPE PIPE BEDDING

SCALE: N.T.S.

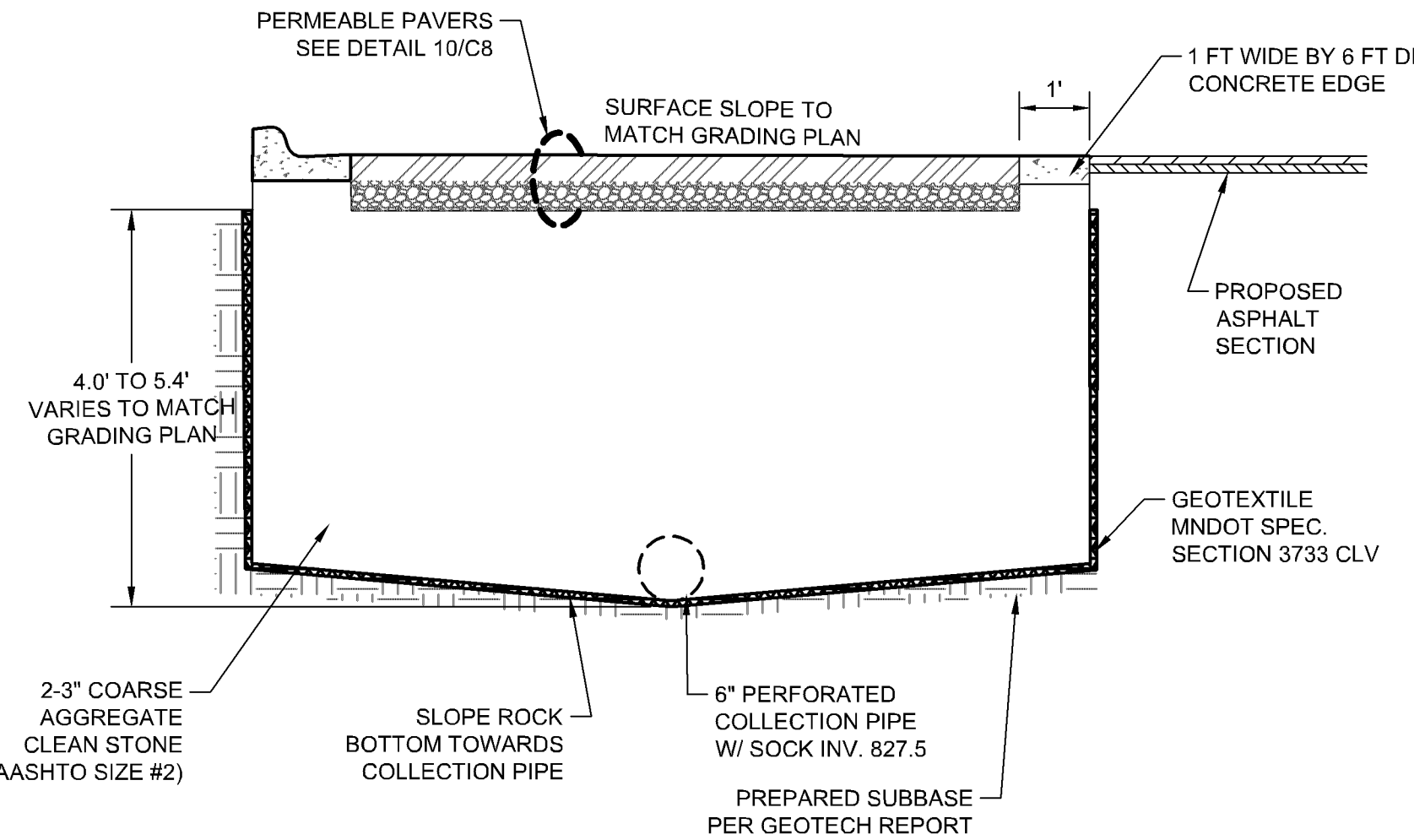


5 OUTLET CONTROL STRUCTURE - 1 DETAIL

SCALE: N.T.S.

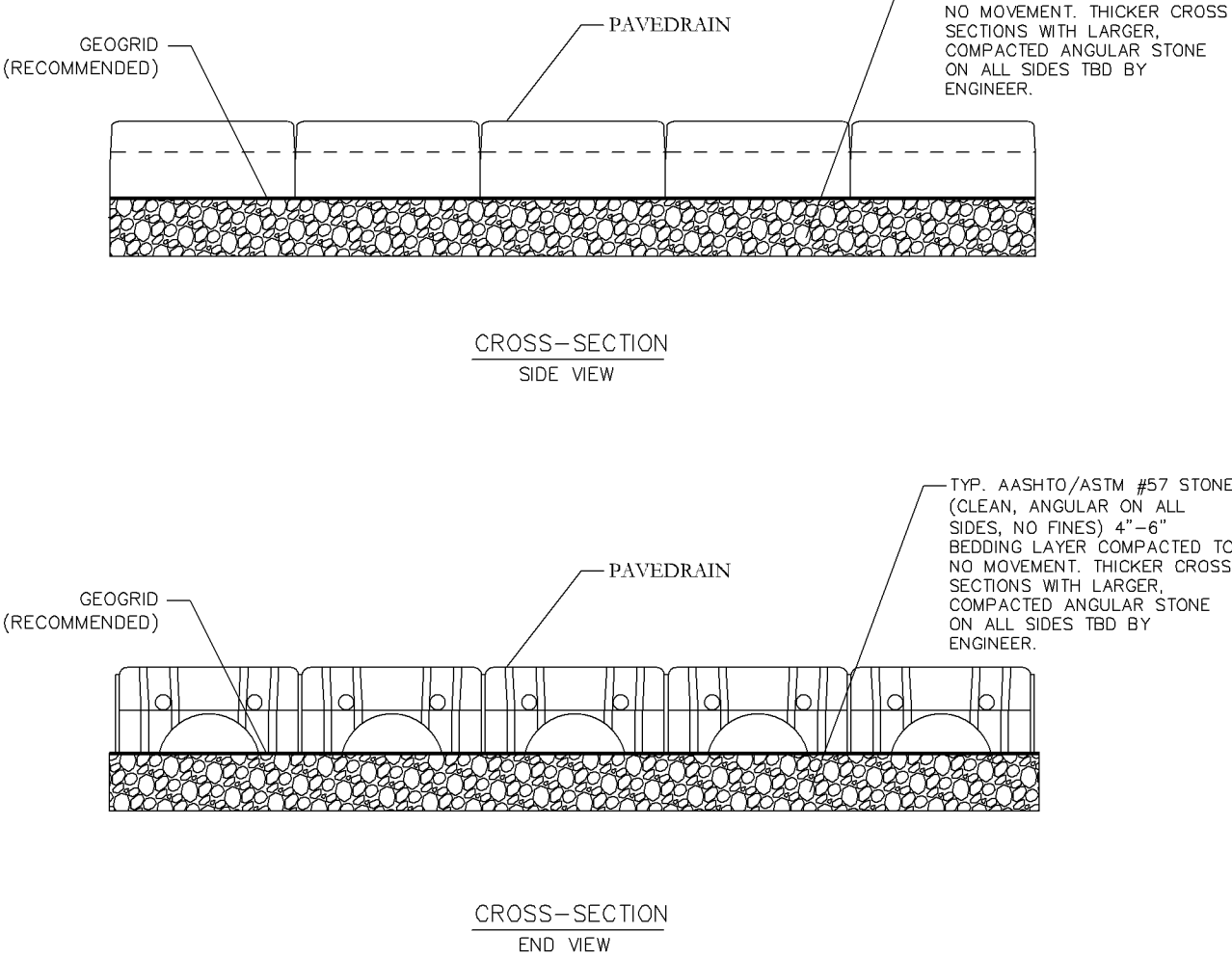
INSTALLATION NOTES

- EXISTING SUBGRADE UNDER BED AREAS SHALL NOT BE SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE AND STONE BED PLACEMENT.
- BRING SUBGRADE OF STONE INFILTRATION BED TO LINE, GRADE, AND ELEVATION INDICATED. FILL AND LIGHTLY REGRADE ANY AREAS DAMAGED BY EROSION, PONDING, OR TRAFFIC COMPACTION BEFORE PLACING OF STONE. TRANSVERSE SUBGRADE SLOPE TO BE 1.0% MIN, SEE GRADING PLAN FOR LONGITUDINAL SUBGRADE SLOPE.
- PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT TRIPS OF GEOTEXTILE SHALL OVERLAP A MINIMUM OF 16-INCHES. SECURE GEOTEXTILE AT LEAST FOUR (4) FEET OUTSIDE OF BED AND TAKE ANY STEPS NECESSARY TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED.
- INSTALL COURSE AGGREGATE IN 8-INCH MAXIMUM LIFTS. LIFTS OF 12-INCHES ARE ALLOWED OVER PIPE TO PREVENT DAMAGE. LIGHTLY COMPACT EACH LAYER WITH EQUIPMENT, KEEPING EQUIPMENT MOVEMENT OVER STORAGE BED SUBGRADES TO A MINIMUM. INSTALL AGGREGATE TO GRADES INDICATED ON DRAWINGS.
- INSTALL STABILIZER BASE COURSE AGGREGATE EVENLY OVER SURFACE OF STONE BED, SUFFICIENT TO ALLOW PLACEMENT OF PAVEMENT, AND NOTIFY ENGINEER FOR APPROVAL.
- FOLLOWING PLACEMENT OF BED AGGREGATE, THE GEOTEXTILE SHALL BE FOLDED BACK ALONG ALL BED EDGES TO PROTECT FROM SEDIMENT WASHOUT ALONG BED EDGES. AT LEAST A FOUR (4) FOOT EDGE STRIP SHALL BE USED TO PROTECT BEDS FROM ADJACENT BARE SOIL. THIS EDGE STRIP SHALL REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. IN ADDITION, TAKE ANY OTHER NECESSARY STEPS TO PREVENT SEDIMENT FROM WASHING INTO BEDS DURING SITE DEVELOPMENT. WHEN THE SITE IS FULLY STABILIZED, TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED.



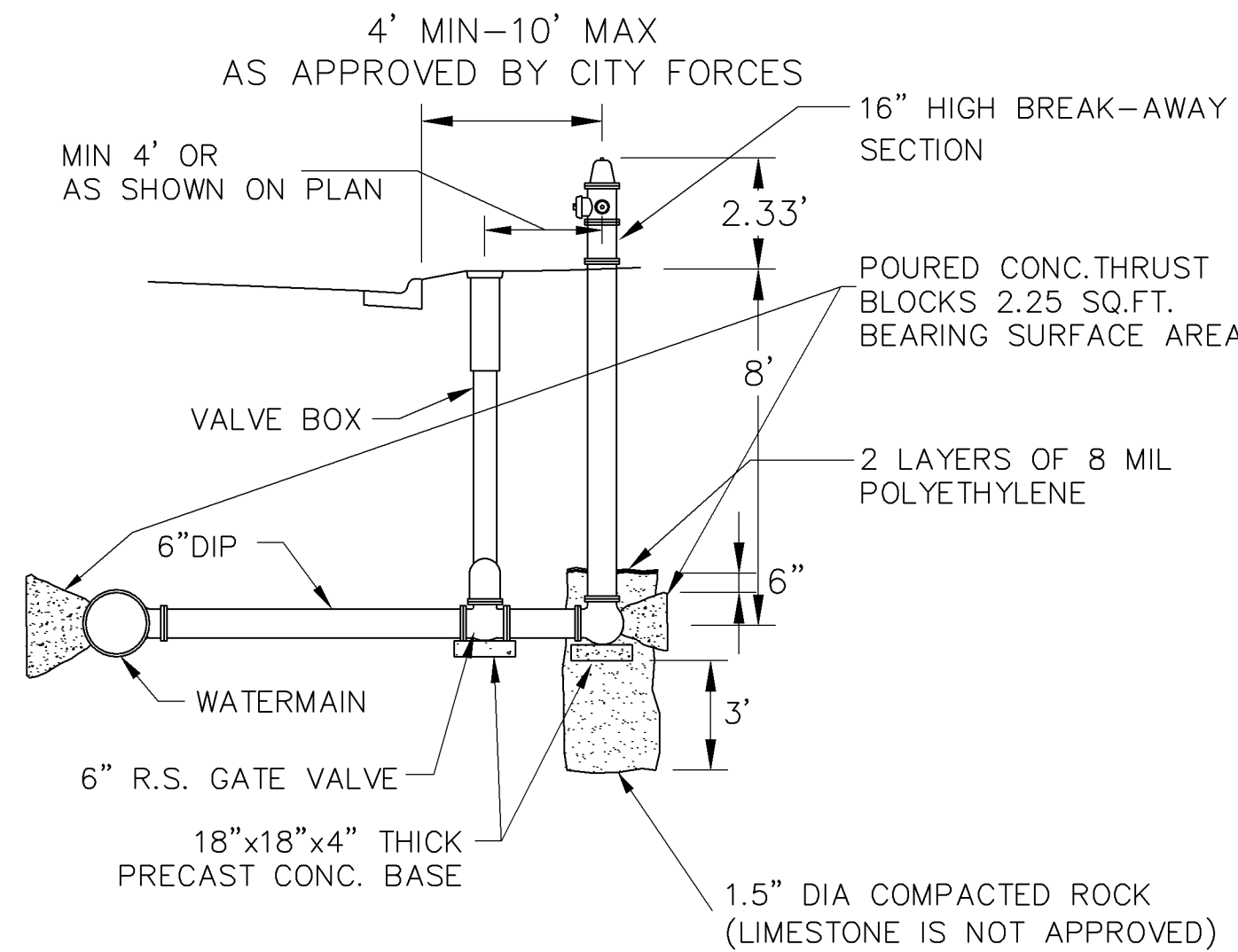
7 PERMEABLE INFILTRATION SECTION

SCALE: N.T.S.



8 PERMEABLE PAVER SECTION

SCALE: N.T.S.



10 HYDRANT INSTALLATION DETAIL

SCALE: N.T.S.



www.htg-architects.com
Minneapolis Tampa Bismarck

9300 Hennepin Town Road
Minneapolis, MN 55347
Tel: 952.278.8880
Fax: 952.278.8822

PROJECT

GYROPOLIS

ADDITION/REMODELING

2325 W 90TH ST
BLOOMINGTON, MINNESOTA

ISSUED SET		
REVISIONS		
DATE	NO.	CITY SUBMITTAL
9/27/22	1	BOUNDARY ADJUSTMENT
10/13/22	2	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED CIVIL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

NOT FOR CONSTRUCTION
Brian Field, PE

56013 10/13/2022
REG. NO. DATE



CIVIL DETAILS

DRAWN BY: BF CHECKED BY: BF

C6

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