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PL202100026 Pre-App

SITE DEVELOPMENT PLANS
FOR
SICK - CAMPUS USA
PHASE 1
SECTION 01, TOWNSHIP 27, RANGE 24
BLOOMINGTON, HENNEPIN COUNTY, MN

CLOW BERG
9800 Bren Road East, Suite 290, Hopkins, Minnesota 55343, 612.348.2328

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PROJECT TEAM:

ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.

Kimley»Horn

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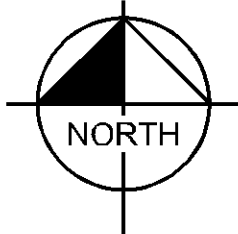
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CHASKA, MN 55318
TELEPHONE: (952) 631-5502
CONTACT: TOM TRZYINKA



VICINITY
N.T.S.



SITE

NOTES:

1. CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
2. IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 30x42 SHEET.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
4. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

DRAWING INDEX	
SHEET No.	SHEET TITLE
C000	COVER SHEET
C001	BOUNDARY, TOPOGRAPHIC, LOCATION, AND UTILITY SURVEY
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C003	BOUNDARY, TOPOGRAPHIC, LOCATION, AND UTILITY SURVEY
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C300	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
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C302	EROSION AND SEDIMENT CONTROL DETAILS
C400	SITE PLAN
C401	FIRE DEPARTMENT ACCESS PLAN
C402	SITE DETAILS
C403	SITE DETAILS
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C501	STORMWATER MANAGEMENT PLAN
C502	GRADING AND DRAINAGE DETAILS
C503	GRADING AND DRAINAGE DETAILS
C600	UTILITY PLAN
C601	UTILITY DETAILS

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

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 45790

phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160687009
project name

SICK - CAMPUS USA
PHASE 1

PRELIMINARY - NOT FOR CONSTRUCTION



COVER SHEET

C000

WILLIAM D. MATZEK, P.E.

DATE: _____ MN LIC. NO. 45790

SICK - CAMPUS USA
PHASE 1

steel roller

C002

PRELIMINARY - NOT FOR CONSTRUCTION



Dated this XX day of February, 2019

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

Revision	By	Date
	PS	

Drawing Title:
**BOUNDARY, TOPOGRAPHIC, AND UTILITY SURVEY FOR:
 SICK, Inc.**

SUNDE
LAND SURVEYING
 www.sundesurv.com

Main Office:
 950 East Bloomington Freeway (55th) • Suite 300
 Bloomington, Minnesota 55425 • 24/25
 952-881-2425 / Fax: 952-888-9526

Project: 2019-014 Drawn: 7/3/22
 Township: 27 Range: 24 Section: 01
 File: 2019014001.dwg

Date: _____
 Sheet: **2** of **3**

NOT TO SCALE

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

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 45790

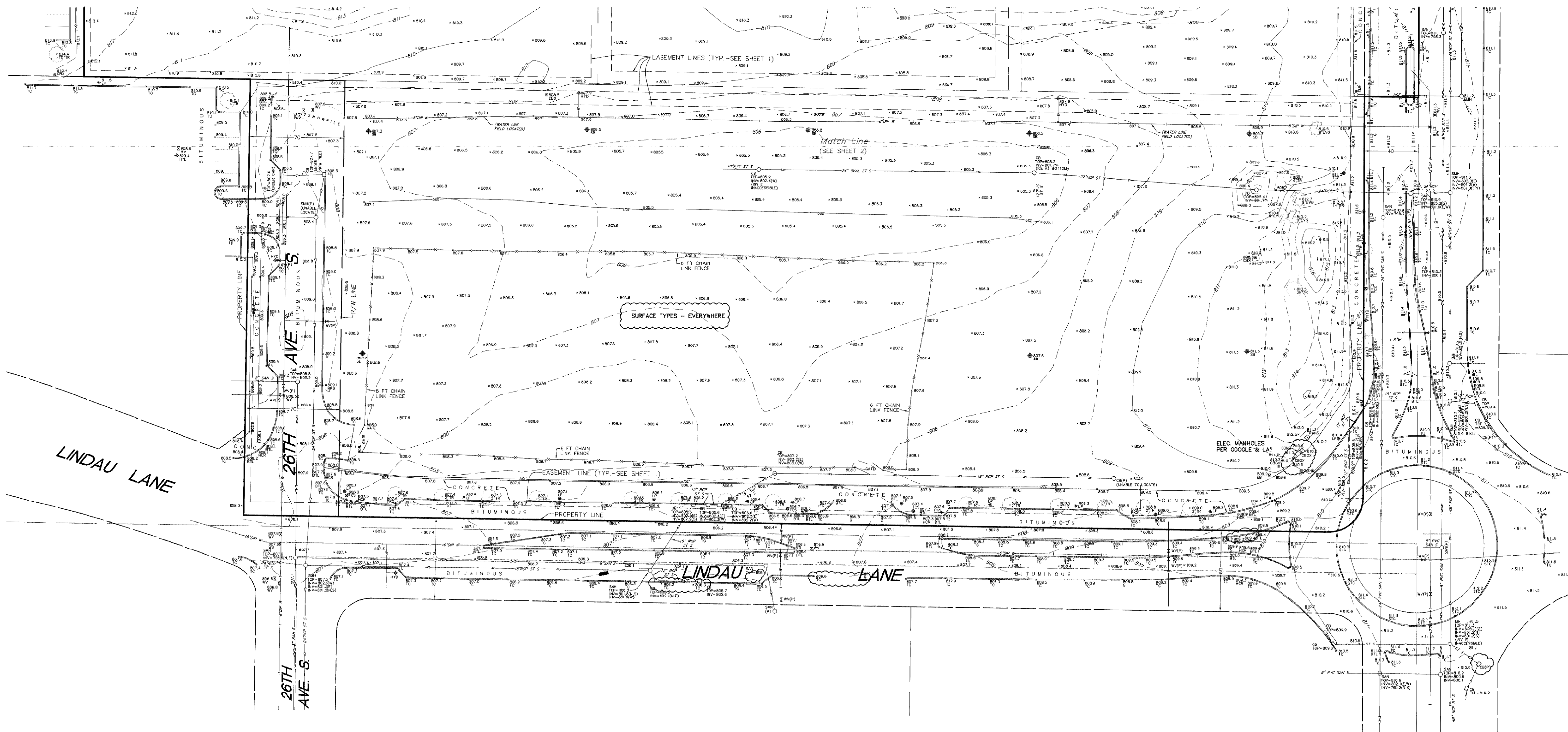
phase PRE-DRC
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

SICK - CAMPUS USA
PHASE I

BOUNDARY, TOPOGRAPHIC,
LOCATION AND UTILITY
SURVEY

Sheet number
C003

PL202100026 Pre-App

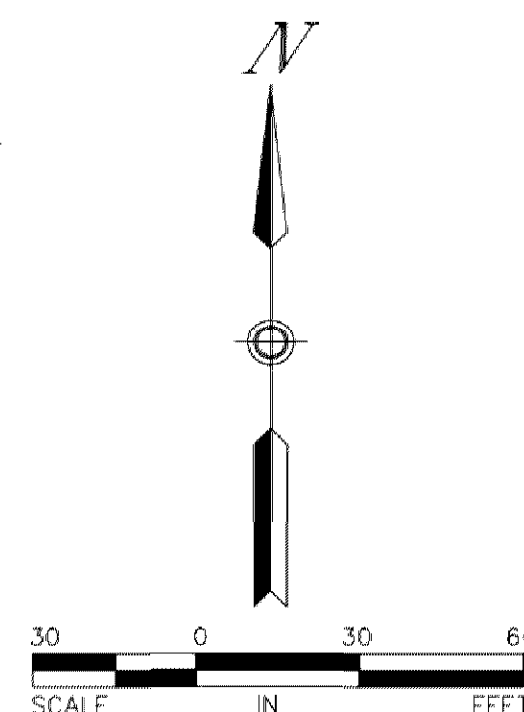


BENCHMARKS (BM)
(NVD 29)

- 1.) Top of top nut of first fire hydrant east of 24th Ave. S. on south side of American Blvd.
Elevation = 816.10 feet
- 2.) Top of top nut of first fire hydrant south of American Blvd. on west side of 26th Ave. S.
Elevation = 813.00 feet
- 3.) Top of top nut of second fire hydrant south of American Blvd. on west side of 26th Ave. S.
Elevation = 814.06 feet

LEGEND

BM	Denotes benchmark	PPLP	Denotes power and light pole
ETC	Denotes top of bituminous curb	PPT	Denotes power pole with transformer
EIL	Denotes beaver tail curb	PPU	Denotes power pole with underground utility
CB	Denotes catch basin	PVC	Denotes polyvinyl chloride pipe
CBX	Denotes control box	RCP	Denotes reinforced concrete pipe
CMH	Denotes communication box	SAN	Denotes sanitary manhole
CMH	Denotes communication manhole	SAN S	Denotes sanitary sewer
EMH	Denotes electric manhole	SB	Denotes storm manhole
EVG	Denotes electric valve	ST S	Denotes storm sewer
GW	Denotes gutter	STC	Denotes top of surmountable curb
HCB	Denotes hand/cup ramp	TCS	Denotes traffic control sign
HYD	Denotes fire hydrant	TNH	Denotes top of top nut of fire hydrant
ILV	Denotes structure invert	TR	Denotes transformer box
JLM	Denotes Judicial Landmark	UGC	Denotes underground communication line
LP	Denotes light pole	UGE	Denotes underground electric line
MH	Denotes manhole	UGG	Denotes underground gas
OHE	Denotes overhead electric line	W	Denotes water line
PKS	Denotes per plan/field verified	WV	Denotes water valve
PP	Denotes power pole		



PRELIMINARY

Date: 2/19/2019

Dated this XX day of February, 2019

Certified by: Arlee J. Carlson, P.L.S., Minn. Lic. No. 44900

SEE SHEET 1 FOR BOUNDARY
AND EASEMENT DETAIL

Revision		By	Date
Drawing Title		By	Date
BOUNDARY, TOPOGRAPHIC, LOCATION AND UTILITY SURVEY FOR: SICK, Inc.			
SUNDE LAND SURVEYING		Main Office: 201 East Broadway Street, Suite 118 Bloomington, Minnesota 55425-5426 651-555-2005 Fax: 651-555-2006	
Project: 2019-04		By: Pg. 363/72	Date: 02/09/2021
Template: 27 - Rough 24 - Shaded 31		Sheet: 3 of 3	
File: 201904021.dwg			

NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE MN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK. AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE NOTED. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIACSE 3402, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF SUBSURFACE QUALITY DATA BY THE FHA. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME, IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
10. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
11. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
13. SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LOADED SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER.

EROSION CONTROL MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL JURISDICTIONS UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A CERTIFIED PERSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

1. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO THE STANDARD SPECIFICATIONS.
2. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
3. THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
4. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

TYPICAL OWNER/ENGINEER OBSERVATIONS

CONTRACTOR SHALL NOTIFY OWNER AND/OR ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:

- PRE-CONSTRUCTION MEETING, SUBGRADE PREPARATION, BASE INSTALLATION
- ASPHALT INSTALLATION, UNDERGROUND PIPING AND UTILITIES INSTALLATION,
- INSTALLATION OF STRUCTURES, CHECK VALVES, HYDRANTS, METERS, ETC., SIDEWALK
- INSTALLATION, CONNECTIONS TO WATER AND SEWER MAINS, TESTS OF UTILITIES

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF MN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
4. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ON A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR DISCHARGING SEDIMENT ONTO PUBLIC AREAS SHALL BE PAID BY THE CONTRACTOR.
5. TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF THE LAST DISTURBANCE ON ANY AREA OF THE SITE.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE RETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.
13. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCLOSING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.
15. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.
16. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF BLOOMINGTON ENGINEERING DIVISION.
17. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT, THE EROSION CONTROL PLAN WILL HAVE TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE. ANY REVISIONS TO THE EROSION CONTROL PLAN MADE BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER.

PAVING AND STRIPING NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONS' RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR MNDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND CITY STANDARDS.
3. CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LINES, ROADWAY LANES, PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS STRIPING WITHIN THE PARKING LOT AS SHOWN ON THE PLANS.
4. ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.
5. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIOUS POINTS SHALL BE 2 FEET.
6. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.
7. THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.
8. CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.
9. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A.) GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2% . IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING STALLS OR AISLES EXCEED 2% (1.5% THRESH) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.
11. MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

GRADING AND DRAINAGE NOTES

1. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL ADJUST BMPs AS NECESSARY AND REGRADE WASHWAYS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
3. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO NEW OR EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
4. CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUT WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.
5. BACKFILL FOR UTILITY LINES SHALL BE PLACED PER DETAILS, STANDARDS, AND SPECIFICATIONS SO THAT THE UTILITY WILL BE STABLE, WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6 INCHES SHALL BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHALL BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
6. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF 4" OF TOPSOIL AT COMPLETION OF WORK. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SOODED.
7. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
8. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
9. THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOW.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
11. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO MNDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SOODED OR SEEDD AS SPECIFIED IN THE PLANS. FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SOODED OR SEEDD AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF DUST CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
14. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGE.
15. THE CONTRACTOR SHALL ENSURE THAT LANDSCAPE ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
16. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURERS' RECOMMENDATIONS AND MNDOT SPECIFICATION.
17. ALL CONCRETE/ASPHALT SHALL BE INSTALLED PER GEOTECH REPORT, CITY OF BLOOMINGTON AND MNDOT SPECIFICATIONS.
18. SPOT ELEVATIONS ARE TO FOLLOWLINE OF CURB UNLESS OTHERWISE NOTED.
19. LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
20. IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
21. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.
22. BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
23. ALL PROPOSED GRADES ON SITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.
24. ADHERE TO ALL TERMS AND CONDITIONS AS NECESSARY IN THE GENERAL N.P.D.E.S. PERMIT AND STORMWATER POLLUTION PREVENTION PLAN FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
25. ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
26. CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

3RD PARTY TEST REPORTS REQ'D

TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO:

- DENSITY TEST REPORTS
- BACTERIOLOGICAL TESTS OF WATER SYSTEM
- PRESSURE TEST OF WATER/SEWER
- LEAK TEST ON SEWER SYSTEM AND GREASE TRAPS
- ANY OTHER TESTING REQUIRED BY THE AGENCY/MUNICIPALITY

WATER STORM SEWER & SANITARY SEWER NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES, AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION, AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL CORRELATE WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIRED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE MADE AVAILABLE FOR USE BY THE CONTRACTOR PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANHOLE TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
10. CONTRACTOR SHALL PROVIDE FOR A MINIMUM HORIZONTAL CLEARANCE OF 10' AND A VERTICAL CLEARANCE OF 18" BETWEEN WATER AND SANITARY SEWER MANHOLES AND LINES.
11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
12. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT UNLESS OTHERWISE STATED BY CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS.
13. UNLESS OTHERWISE STATED IN CITY AND STATE DESIGN STANDARDS AND SPECIFICATIONS, ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER". EXISTING CASTINGS AND STRUCTURES WITHIN PROJECT LIMITS SHALL BE ADJUSTED TO MEET THESE CONDITIONS AND THE PROPOSED FINISHED GRADE.
14. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
16. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.
17. ROOF DRAINS SHALL BE CONNECTED TO STORM SEWER BY PREFABRICATED WYES OR AT STORM STRUCTURES. ROOF DRAINS AND TRUCK WHEEL DRAIN SHALL RUN AT A MINIMUM 1% SLOPE, UNLESS NOTED OTHERWISE, AND TIE IN AT THE CENTERLINE OF THE STORM MAIN.
18. ALL ROOF AND SANITARY SEWER DRAINS SHALL BE INSULATED IF 7" OF COVER CANNOT BE PROVIDED.
19. THE CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITIES AND APPURTENANCES THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
20. THE LOCATION OF EXISTING UTILITIES, STORM DRAINAGE STRUCTURES AND OTHER ABOVE AND BELOW-GRADE IMPROVEMENTS ARE APPROXIMATE AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE AND INVERT ELEVATIONS OF EACH PRIOR TO THE START OF CONSTRUCTION.
21. A MINIMUM OF 9' SEPARATION IS REQUIRED BETWEEN UTILITIES AND TREES UNLESS A ROOT BARRIER IS UTILIZED.
22. GAS, PHONE AND ELECTRIC SERVICES SHOWN FOR INFORMATIONAL PURPOSES ONLY. DRY UTILITY COMPANIES MAY ALTER THE DESIGN LAYOUT DURING THEIR REVIEW. CONTRACTOR TO COORDINATE FINAL DESIGN AND INSTALLATION WITH UTILITY COMPANIES.
23. COORDINATE UTILITY INSTALLATION WITH IRRIGATION DESIGN AND INSTALLATION.
24. ALL DIMENSIONS ARE TO FLOW LINE OF CURB UNLESS OTHERWISE NOTED. PERIMETER WALL DIMENSIONS ARE TO INSIDE WALL FACE. REFERENCE ARCHITECTURAL PLANS FOR EXACT WALL WIDTH AND SPECIFICATIONS.
25. REFERENCE ARCHITECTURAL PLANS (BY OTHERS), FOR EXACT BUILDINGS DIMENSIONS, AND MATERIALS SPECIFICATIONS.
26. REFERENCE M.E.P. PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND SPECIFICATIONS.
27. CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS (BY OTHERS) FOR MECHANICAL EQUIPMENT DIMENSIONS AND PAD PREPARATION SPECIFICATIONS.
28. CONTRACTOR SHALL REFERENCE M.E.P. PLANS (BY OTHERS) FOR LIGHT POLE WIRING.

REFER TO PRELIMINARY GEOTECHNICAL EVALUATION REPORT No. E1901159 BRAIN INTEREC 2900 LINDAU LANE DATED 03/21/2019

CLOW BERG
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PL202100026 Pre-App

ISSUANCE
REV. DATE DESCRIPTION

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

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 45790

phase PRE-DRC
date 02.09.2021
drawn by LEC
checked by WOM
project number 160897009
project name

SICK - CAMPUS USA
PHASE I

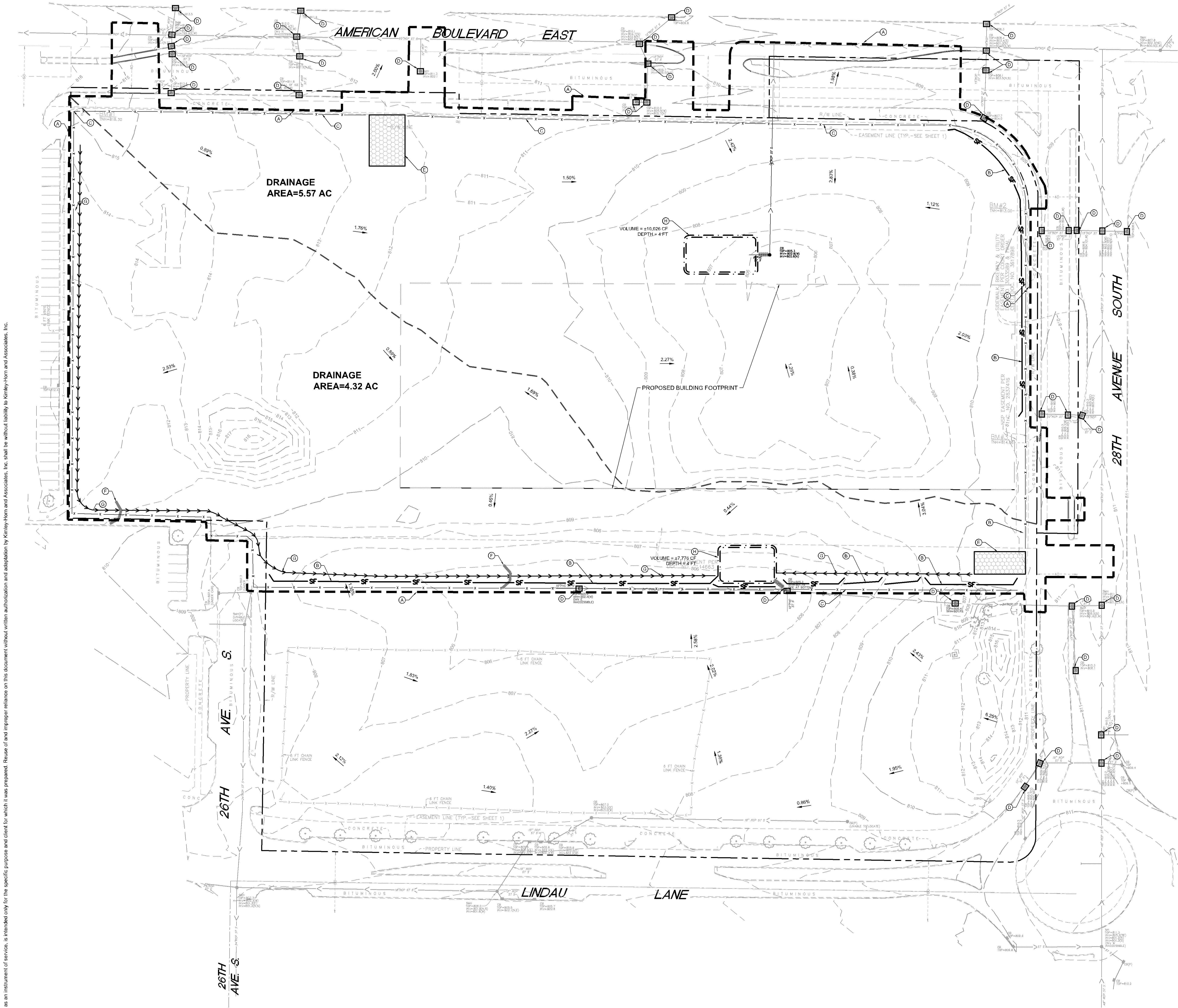
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GENERAL NOTES

sheet number

C100

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SIGNED: _____ DATE: 01/15/2020
LAURA CLARENS
MOIST DESIGN OF SWPPP CERTIFIED
EXPIRES MAY 31, 2022

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LEGEND

- ROCK ENTRANCE
- INLET PROTECTION
- SILT FENCE
- LIMITS OF DISTURBANCE
- APPROXIMATE GRADE BREAK
- SAFETY FENCE
- DIVERSION DITCH
- TEMPORARY CHECK DAM
- SEDIMENT TRAP BASIN
- RIP-RAP

EROSION CONTROL PLAN NOTES

- ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO SITE GRADING.
- THE CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES.
- WITHIN ONE WEEK (7 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOIL, OR ROCK/RAP. REFER TO LANDSCAPE PLAN FOR MATERIALS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, STATE, AND WATERSHED DISTRICT PERMITS.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
- ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
- REMOVAL ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKS ONTO EXISTING STREETS AND PAVED AREAS AND SHALL SWEEP ADJACENT STREETS DAILY, AS REQUIRED, AND PRIOR TO ANY STORM.
- IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
- INLET PROTECTION IN PUBLIC STREETS SHALL BE REMOVED PRIOR TO WINTER FREEZE-UP. UPSTREAM BMPs MUST BE IN PLACE PRIOR TO INLET PROTECTION REMOVAL.
- INLET PROTECTION DEVICES MUST HAVE EMERGENCY OVERFLOW CAPACITY WHEN USED IN PUBLIC STREETS.
- STREETS SHALL BE SWEEP DAILY, AS REQUIRED, AND PRIOR TO ANY STORM.
- SHOP DRAWINGS AND ALL MATERIALS SHALL BE APPROVED BY THE SITE DESIGN ENGINEER PRIOR TO ANY REQUEST FOR APPROVAL FROM THE CITY ENGINEER.
- UNDERGROUND STORMWATER SYSTEM SHALL BE AS-BUILT BY A LICENSED PROFESSIONAL ENGINEER.
- INLET PROTECTION IN PUBLIC STREETS SHALL BE REMOVED PRIOR TO WINTER FREEZE-UP. UPSTREAM BMPs MUST BE IN PLACE PRIOR TO INLET PROTECTION REMOVAL.
- INLET PROTECTION DEVICES MUST HAVE EMERGENCY OVERFLOW CAPACITY WHEN USED IN PUBLIC STREETS.

SEQUENCE OF CONSTRUCTION:

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:

- INSTALL INLET PROTECTION AT EXISTING STORMWATER CULVERTS.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1). CONCRETE WASHOUT PIT (1) AND INSTALL SILT FENCE.
- PREPARE TEMPORARY PARKING AND STORAGE AREA.
- CONSTRUCT AND STABILIZE DIVERSIONS AND TEMPORARY SEDIMENT TRAPS.
- PERFORM CLEARING AND GRUBBING OF THE SITE. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNING.
- START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
- TEMPORARILY SEED WITH PINE LIVE SEED. THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY NPDES AND/OR CITY OF BLOOMINGTON GRASSING PERMIT.

SWPPP UPDATES AND AMENDMENTS

THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION, OR REMOVAL; CONSTRUCTION ACTIVITIES (E.G., PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.); CLEARING, GRUBBING OR GRADING; OR TEMPORARY OR PERMANENT STABILIZATION.

SITE DISCHARGE

RUNOFF WILL DISCHARGE INTO THE CITY SEWER THEN TO LONG MEADOW LAKE AND ULTIMATELY THE MINNESOTA RIVER APPROXIMATELY 2 MILES FROM THE SITE. THE MINNESOTA RIVER IS CONSIDERED IMPAIRED AT THIS LOCATION.

SOIL TYPES

THE SITE BORING LOGS CONSIST GENERALLY OF 5 TO 11 FEET OF SILTY SAND AND SANDY CLAY. FILL FOLLOWED BY POORLY GRADED SAND, MOSTLY LIKELY GLACIAL OUTWASH.

AREA SUMMARY

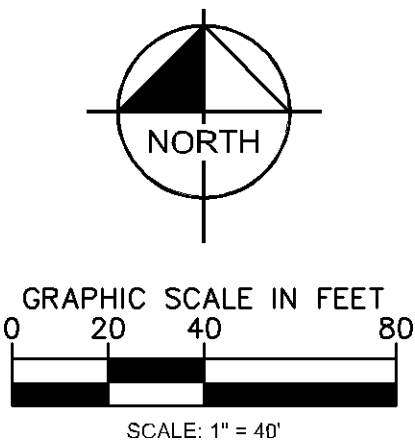
TOTAL PROPERTY AREA	14.33 AC
TOTAL DISTURBED AREA	10.52 AC
EXISTING IMPERVIOUS AREA	0.89 AC
EXISTING PERVIOUS AREA	9.66 AC
PROPOSED IMPERVIOUS AREA	6.75 AC
PROPOSED PERVIOUS AREA	3.77 AC

ESTIMATED PHASE 1 BMP QUANTITIES

SILT FENCE	1129	LF
SAFETY FENCE	2650	LF
CONSTRUCTION ENTRANCE	2	EA
INLET PROTECTION	37	EA
DIVERSION DITCH	1190	LF
CHECK DAMS	2	EA
SEDIMENT TRAP	2	EA

KEYNOTE LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE - OFFSET FROM LIMITS OF DISTURBANCE FOR CLARITY
- SAFETY FENCE - OFFSET FROM LIMITS OF DISTURBANCE FOR CLARITY
- INLET PROTECTION
- ROCK CONSTRUCTION ENTRANCE/EXT
- TEMPORARY CHECK DAM
- TEMPORARY DIVERSION DITCH
- SEDIMENT TRAP WITH RIP-RAP TO INLET STRUCTURE



PRELIMINARY - NOT FOR CONSTRUCTION

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WILLIAM D. MATZEK, P.E.

DATE: _____ MIN. LIC. NO. 45790

phase PRE-DRC
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

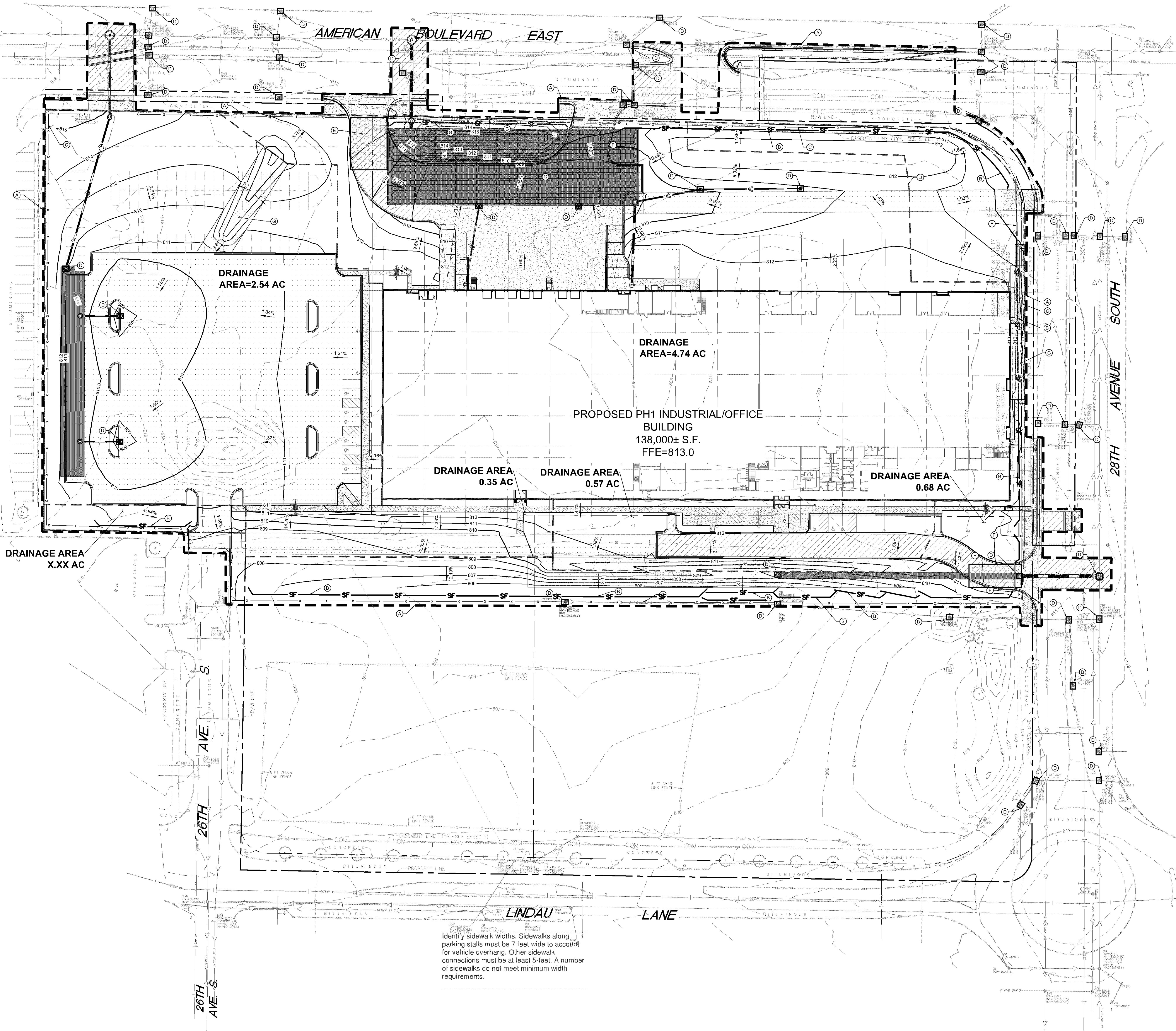
SICK - CAMPUS USA
PHASE 1

EROSION AND SEDIMENT
CONTROL PLAN - PHASE 1

sheet number

C300

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Identify sidewalk widths. Sidewalks along parking stalls must be 7 feet wide to account for vehicle overhang. Other sidewalk connections must be at least 5 feet. A number of sidewalks do not meet minimum width requirements.

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MODOT DESIGN OF SWPPP CERTIFIED
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ESTIMATED PHASE 2 BMP QUANTITIES			
SILT FENCE	1748	LF	
SAFETY FENCE	2850	LF	
CONSTRUCTION ENTRANCE	2	EA	
INLET PROTECTION PH2	52	EA	
BIOROLL	136	LF	
EROSION CONTROL BLANKET	15574	SF	

- LEGEND**
- PROPOSED ASPHALT PAVEMENT
 - PROPOSED CONCRETE PAVEMENT
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY ASPHALT
 - PROPOSED CLASS V AGGREGATE BASE FIRE ACCESS ROUTE
 - EROSION CONTROL BLANKET
 - ROCK ENTRANCE
 - INLET PROTECTION
 - SILT FENCE
 - LIMITS OF DISTURBANCE
 - APPROXIMATE GRADE BREAK
 - SAFETY FENCE
 - BIO ROLL

- EROSION CONTROL PLAN NOTES**
- ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
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 - WITHIN ONE WEEK (7 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR MATERIALS.
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 - INLET PROTECTION IN PUBLIC STREETS SHALL BE REMOVED PRIOR TO WINTER FREEZE-UP. UPSTREAM BUMPS MUST BE IN PLACE PRIOR TO INLET PROTECTION REMOVAL.
 - INLET PROTECTION DEVICES MUST HAVE EMERGENCY OVERFLOW CAPACITY WHEN USED IN PUBLIC STREETS.
 - STREETS SHALL BE SWEEP DAILY, AS REQUIRED, AND PRIOR TO ANY STORM.
 - SHOP DRAWINGS AND ALL MATERIALS SHALL BE APPROVED BY THE SITE DESIGN ENGINEER PRIOR TO ANY REQUEST FOR APPROVAL FROM THE CITY ENGINEER.
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- SEQUENCE OF CONSTRUCTION:**
- UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER PARKING, LAYDOWN, PORTA-POTTIES, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:
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 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1), CONCRETE WASHOUT PIT (1) AND INSTALL SILT FENCE.
 - PREPARE TEMPORARY PARKING AND STORAGE AREA.
 - CONSTRUCT AND STABILIZE DIVERSIONS AND TEMPORARY SEDIMENT TRAPS.
 - PERFORM CLEANING AND GRUBBING OF THE SITE, PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
 - START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
 - TEMPORARILY SEED WITH PURE LIVE SEED THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY NPDES AND/OR CITY OF BLOOMINGTON GRADING PERMIT.

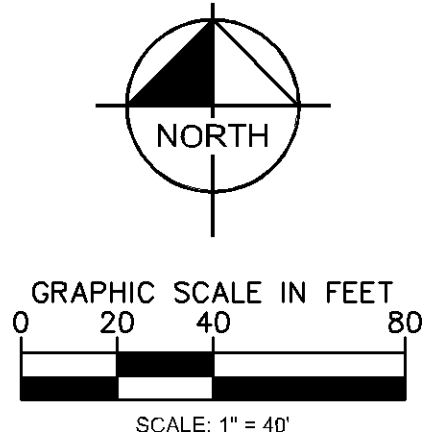
- SWPPP UPDATES AND AMENDMENTS**
- THE GC MUST UPDATE THE SWPPP, INCLUDING THE JOBSITE BINDER AND SITE MAPS, TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE. UPDATES SHALL BE MADE DAILY TO TRACK PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR: BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G., PAVING, STORM SEWER INSTALLATION, FOOTING INSTALLATION, ETC.), CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.

SITE DISCHARGE
RUNOFF WILL DISCHARGE INTO THE CITY SEWER THEN TO LONG MCDONALD LAKE AND ULTIMATELY THE MINNESOTA RIVER APPROXIMATELY 2 MILES FROM THE SITE. THE MINNESOTA RIVER IS CONSIDERED IMPAIRED AT THIS LOCATION.

SOIL TYPES
THE SITE BURNING LOSS CONSIST GENERALLY OF 5 TO 11 FEET OF SILTY SAND AND SANDY LEAN CLAY FILL FOLLOWED BY POORLY GRADED SAND, MOSTLY LIKELY GLACIAL OUTWASH.

AREA SUMMARY	
TOTAL PROPERTY AREA	14.53 AC
TOTAL DISTURBED AREA	10.52 AC
EXISTING IMPERVIOUS AREA	9.86 AC
EXISTING PERVIOUS AREA	9.66 AC
PROPOSED IMPERVIOUS AREA	6.75 AC
PROPOSED PERVIOUS AREA	3.77 AC

- KEYNOTE LEGEND**
- (A) LIMITS OF DISTURBANCE
 - (B) SILT FENCE - OFFSET FROM LIMITS OF DISTURBANCE FOR CLARITY
 - (C) SAFETY FENCE - OFFSET FROM LIMITS OF DISTURBANCE FOR CLARITY
 - (D) INLET PROTECTION
 - (E) ROCK CONSTRUCTION ENTRANCE / EXIT
 - (F) BIOROLL
 - (G) EROSION CONTROL BLANKET



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PL202100026 Pre-App

ISSUANCE DATE: 02/09/2021
DRAWN BY: WDM
CHECKED BY: LEC
PROJECT NUMBER: 160897009
PROJECT NAME: SICK - CAMPUS USA PHASE 1

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

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 45790

phase PRE-DRC
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

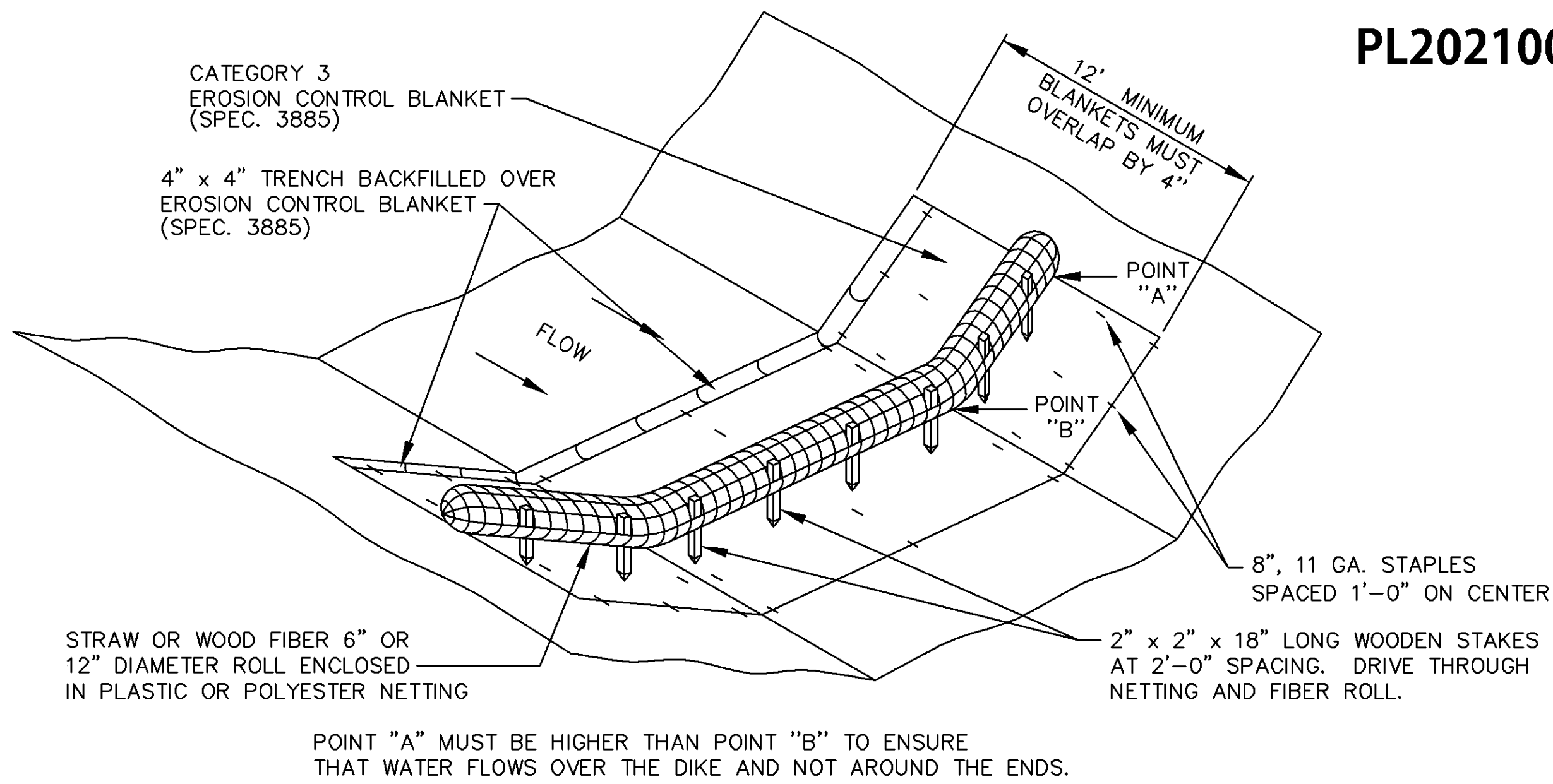
SICK - CAMPUS USA
PHASE 1

EROSION AND SEDIMENT
CONTROL PLAN - PHASE 2

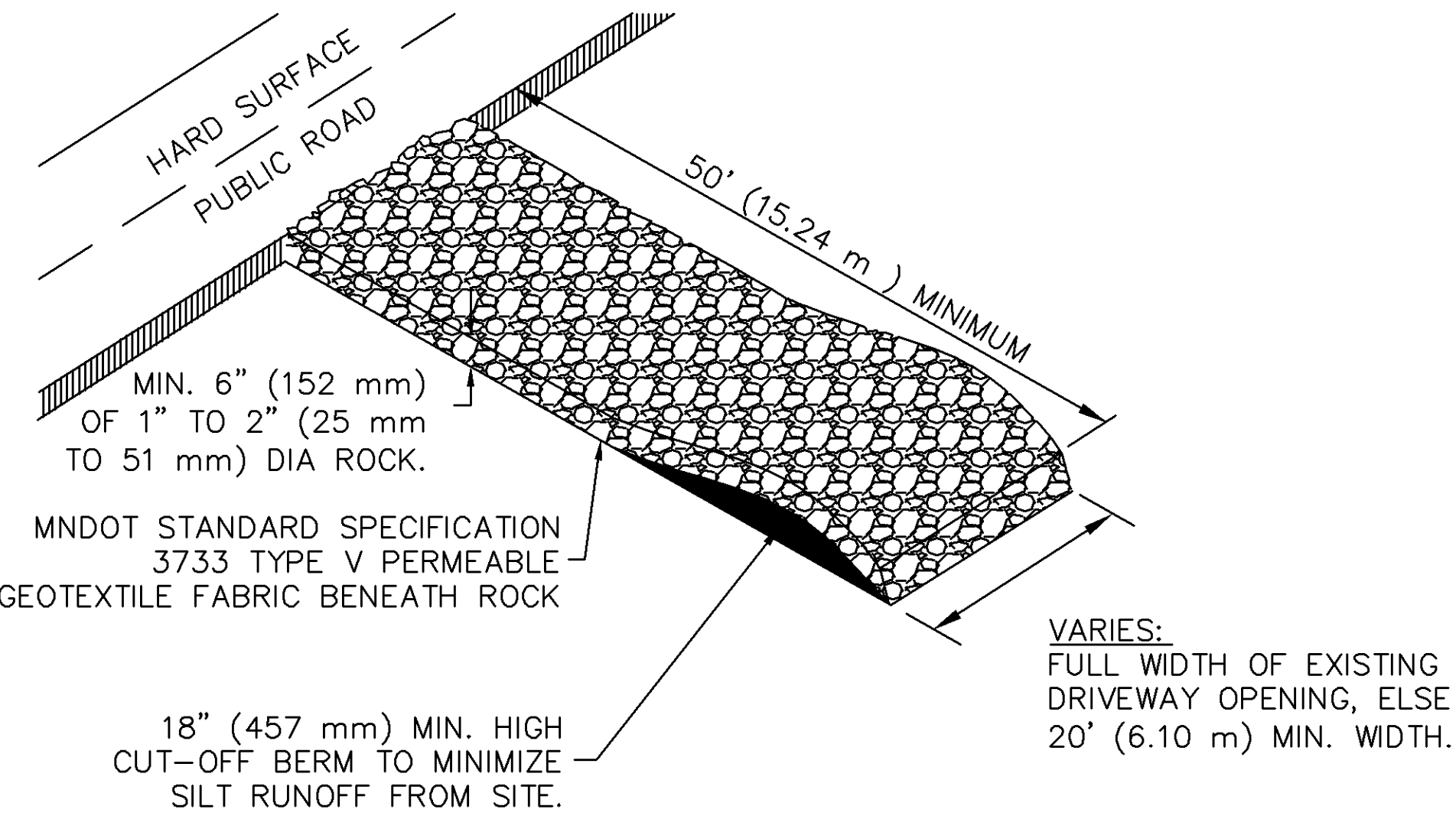
C301

PRELIMINARY - NOT FOR CONSTRUCTION

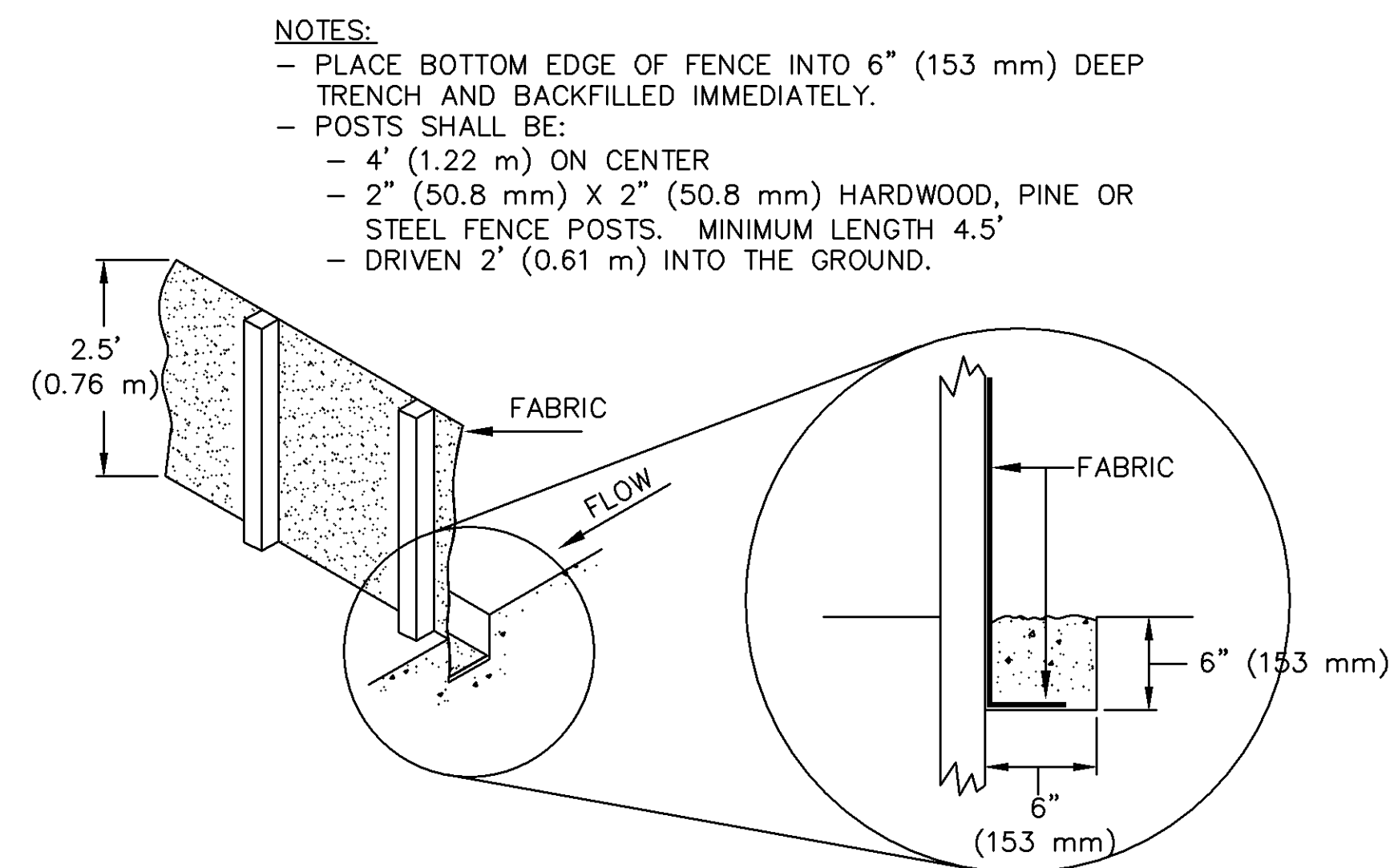
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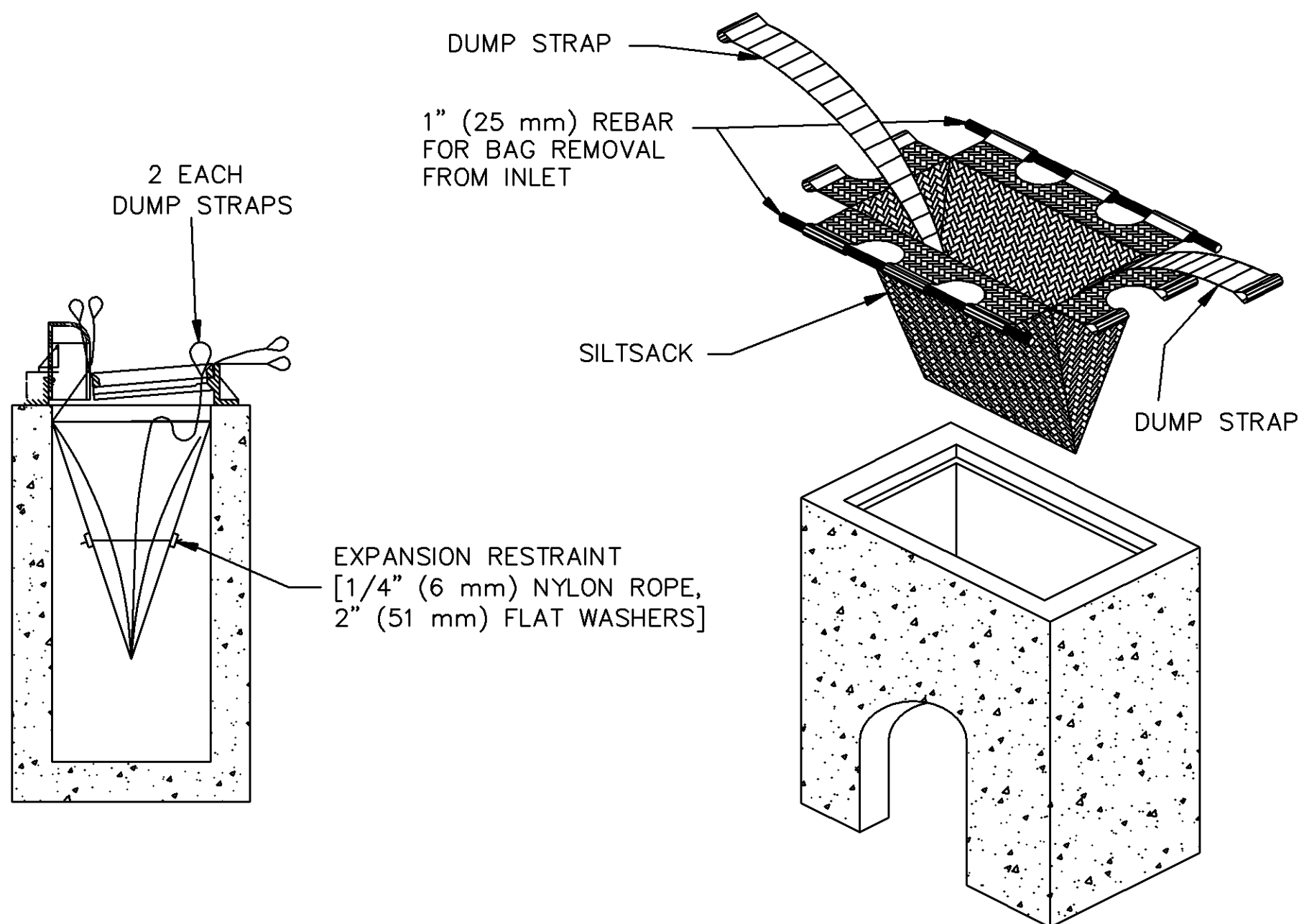
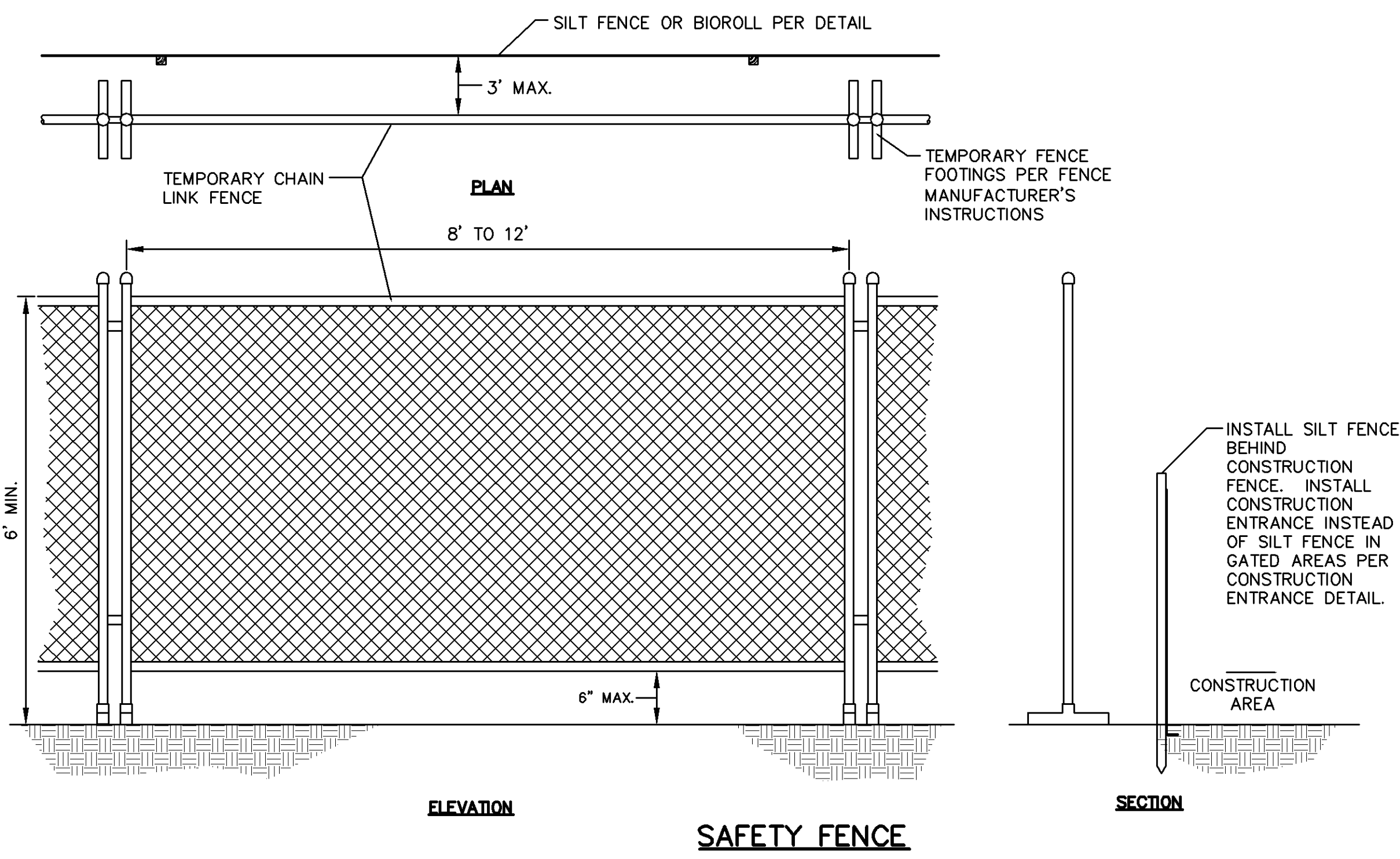
BIOROLL BLANKET SYSTEM (TYPE 3 SPEC. 3889)
BIOROLL.dwg 4/2009



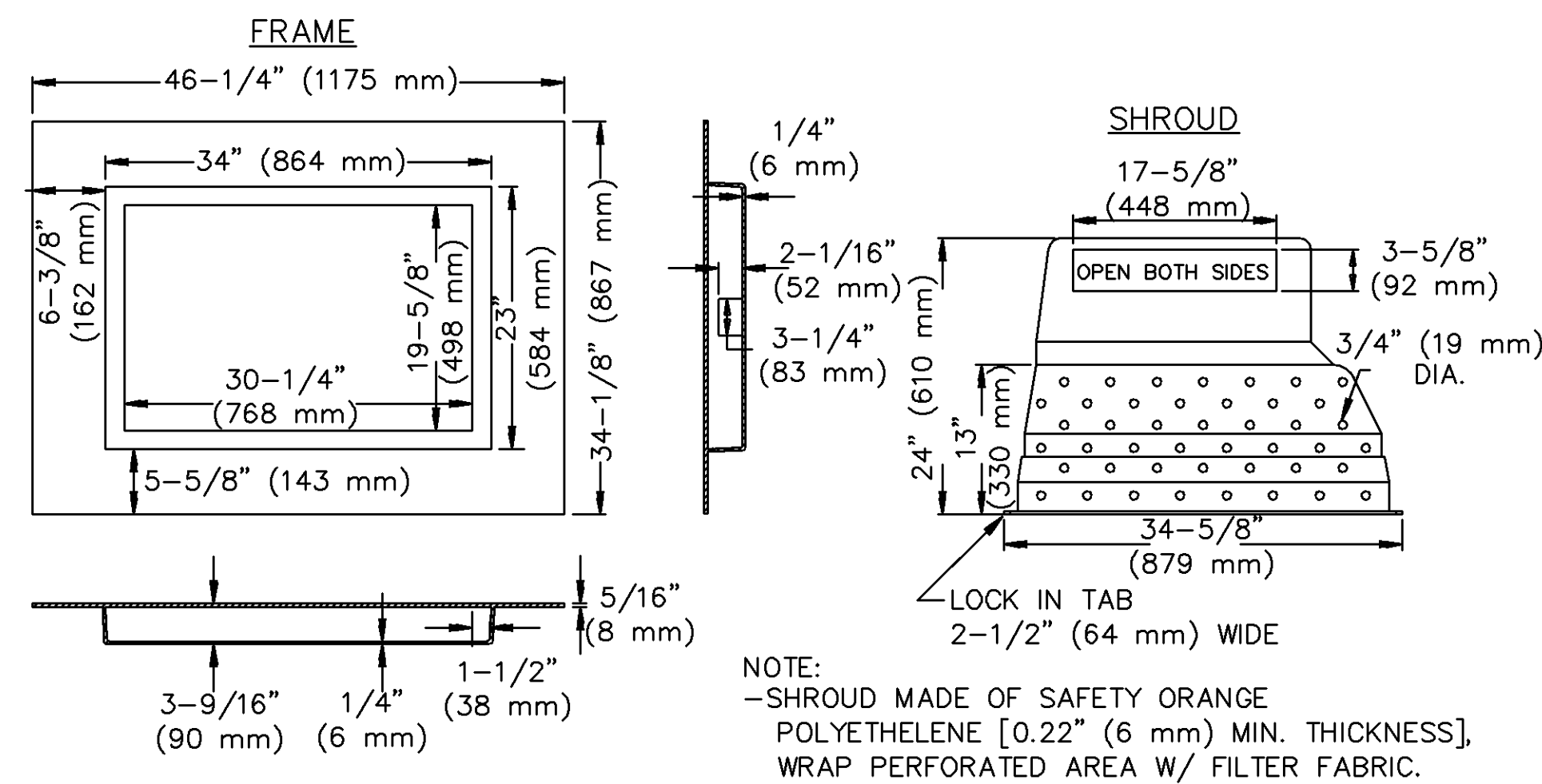
ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS
ROCK-ENTR.dwg 4/2009



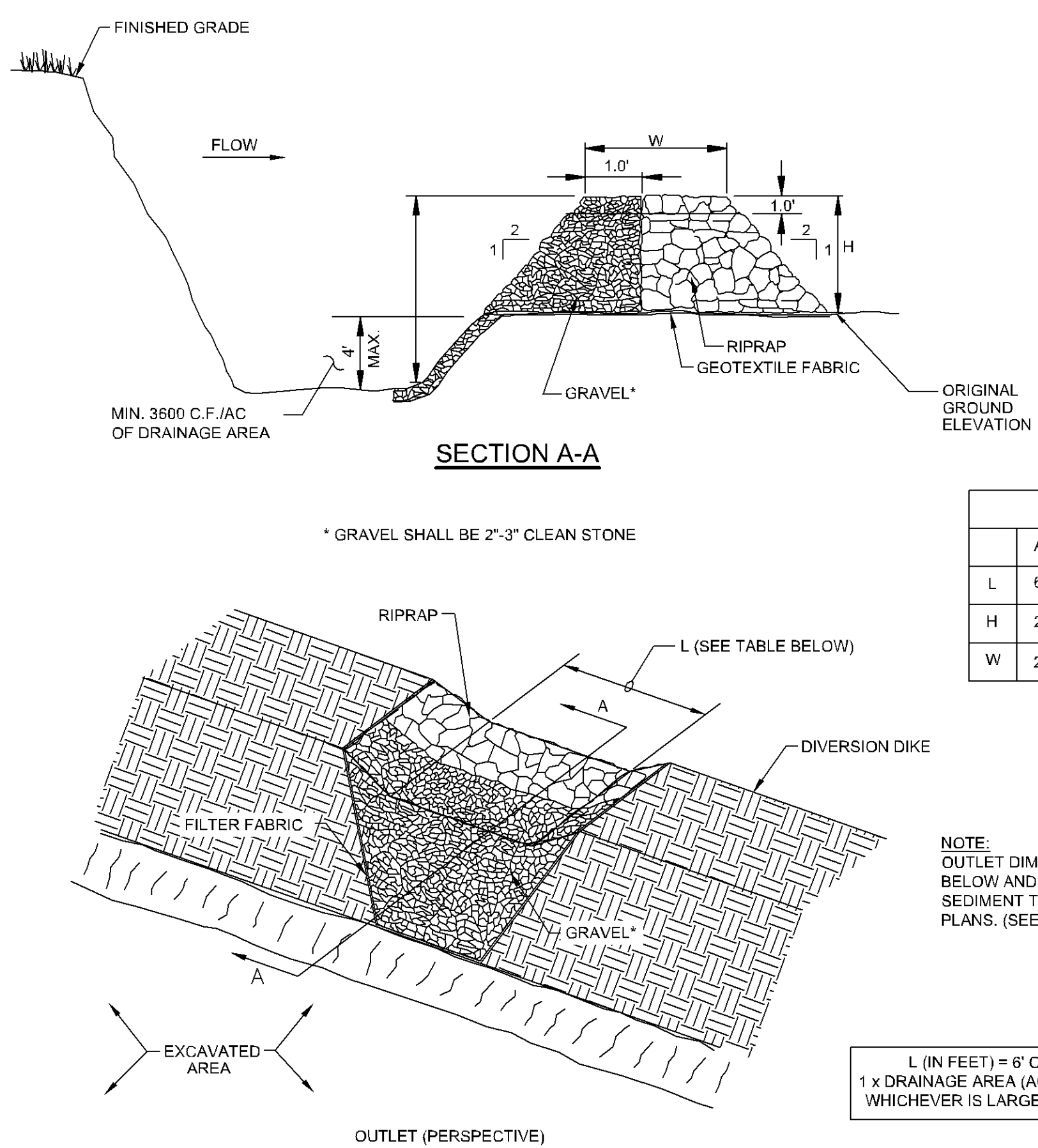
EROSION CONTROL FENCE
SILT_FEN_STD.dwg 4/2009



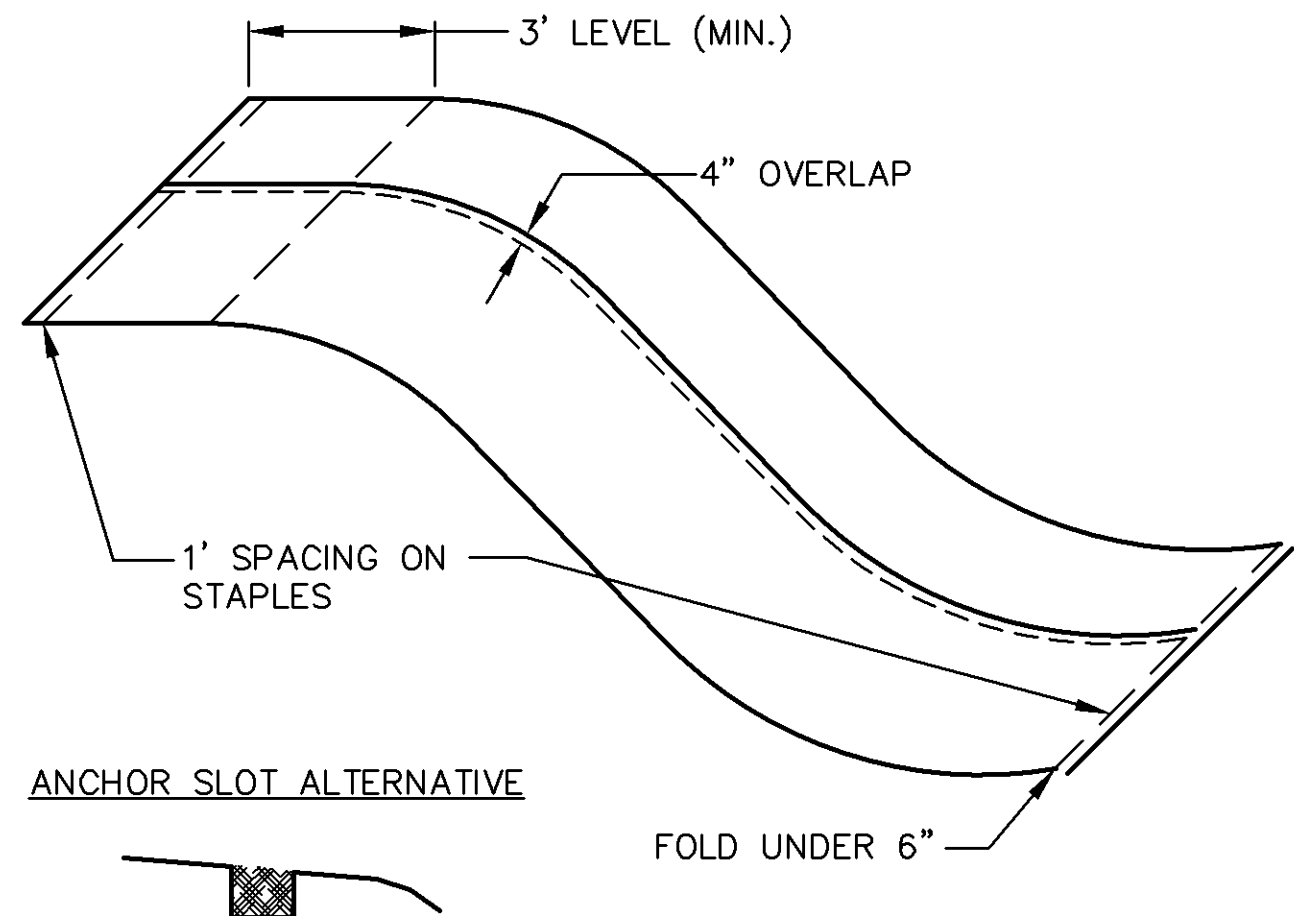
INLET PROTECTION, SEDIMENT FILTER SACK
SILT_SACK_2x3 4/2009



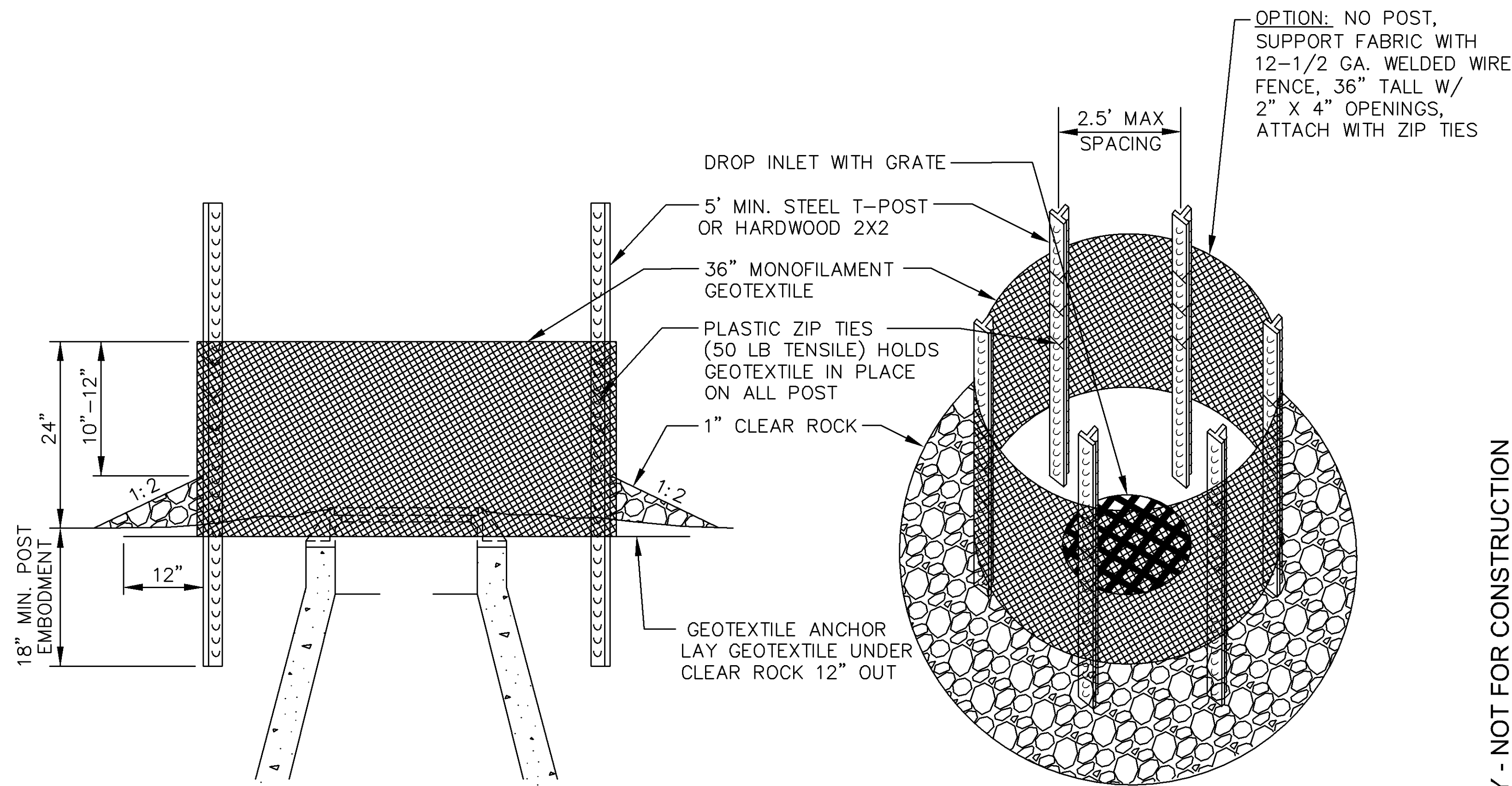
INLET PROTECTION, PERFORATED EROSION BARRIER
SHROUD W/ 2' x 3' (0.61 x 0.91 m) FRAME
INLET_SHROUD_2x3.dwg 4/2009



TEMPORARY SEDIMENT TRAP



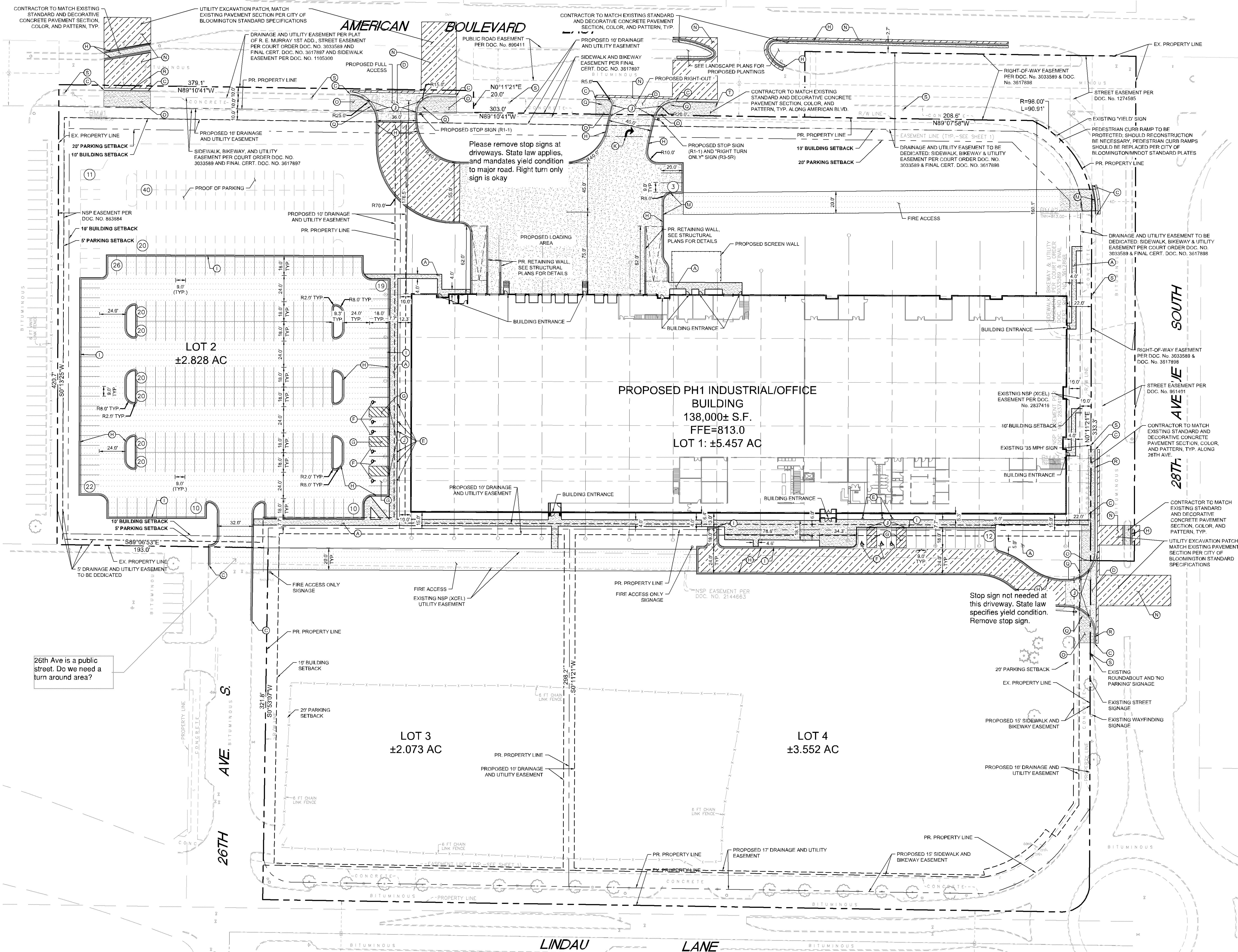
EROSION CONTROL BLANKET



USE WHERE INLET DRAINS IN AN AREA WITH SLOPES AT 1:3 OR LESS

INLET PROTECTION
SILT FENCE RING AND ROCK FILTER BERM
INLET_PROTECTION_RING.dwg 4/2009

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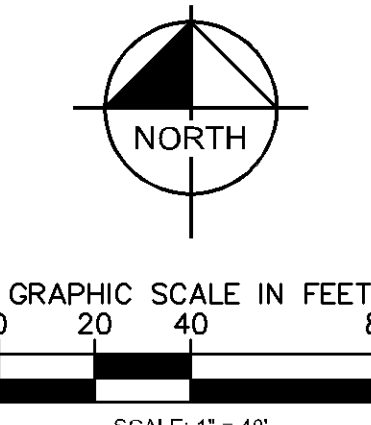


LEGEND	
	PROPERTY LINE
	PROPOSED FENCE
	SETBACK LINE
	PROPOSED CURB AND GUTTER
	REPLACE AND MATCH EXISTING ASPHALT PAVEMENT
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED HEAVY DUTY ASPHALT

PROPERTY SUMMARY	
SICK Technology Campus - 2020	
TOTAL LOT 1 PROPERTY AREA	5.457 AC
TOTAL LOT 2 PROPERTY AREA	2.828 AC
TOTAL LOT 3 PROPERTY AREA	2.073 AC
TOTAL LOT 4 PROPERTY AREA	3.552 AC
TOTAL PROPERTY	13.910 AC
PROPOSED IMPERVIOUS AREA	6.75 AC
PROPOSED PERVIOUS AREA	3.77 AC
TOTAL DISTURBED AREA	10.52 AC
ZONING SUMMARY	
EXISTING ZONING	LINDAU MIXED USE (LX)
PROPOSED ZONING	LINDAU MIXED USE (LX)
PARKING SETBACKS	SIDE/REAR = 5' ROAD = 20'
BUILDING SETBACKS	FRONT = 10' SIDE = 10' REAR = 10'
BUILDING DATA SUMMARY	
AREAS	
PROPOSED PROPERTY	13.91 AC
BUILDING AREA	138,000 SF (22.8% OF TOTAL PROPERTY AREA)
PHASE I PARKING	
REQUIRED PARKING	221 STALLS
REQUIRED PARKING W/ 10% TRANSIT REDUCTION	199 STALLS
PROPOSED PARKING	219 STALLS
PROOF OF PARKING	65 STALLS
ADA STALLS REQ'D / PROVIDED	7 STALLS / 9 STALLS

- SITE PLAN NOTES**
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 - ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. REFER TO LANDSCAPE PLAN FOR EXACT SODDING AND SEEDING LIMITS AND SPECIFICATIONS.
 - ALL INNER CURBED RADII ARE TO BE 4.7' AND OUTER CURBED RADII ARE TO BE 10' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 5'. ALL CURB AND GUTTER IS TYPE B612 UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
 - SITE BOUNDARY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY SUNDE LAND SURVEYING.
 - REFER TO ELECTRICAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 - CONTRACTOR IS REQUIRED TO ENSURE ALL SIDEWALKS MEET ADA STANDARDS
 - RESTORE CITY STREET BY COMPLYING WITH THE BLOOMINGTON CITY STREET IMPROVEMENT POLICY.
 - ALL PARKING STALL STRIPING MUST BE PAINTED WHITE.
 - STREET LIGHTING AND INTERCONNECT CONDUIT MUST BE EXPOSED FOR CITY INSPECTION PRIOR TO POURING CONCRETE OR BACKFILLING EXCAVATION IN CITY RIGHT-OF-WAY.
 - ALL PARKING STALL STRIPING MUST BE PAINTED WHITE. PARKING ISLANDS MUST BE 3-FEET SHORTER THAN THE PARKING STALL AND 8-FEET WIDE.

KEYNOTE LEGEND	
(A)	CONCRETE SIDEWALK
(B)	PROPOSED PIPE BOLLARD
(C)	MATCH EXISTING EDGE OF PAVEMENT/ CURB & GUTTER
(D)	COMMERCIAL DRIVEWAY APRON PER CITY OF BLOOMINGTON DETAIL
(E)	ACCESSIBLE PARKING SIGN PER STATE OF MINNESOTA ADA GUIDELINES
(F)	ACCESSIBLE PARKING STALL AND ACCESS AISLE PER STATE OF MINNESOTA ADA GUIDELINES
(G)	AREA STRIPED WITH 4" SYSL @ 45° 2' O.C.
(H)	B612 CURB & GUTTER (TYP.)
(I)	TIP-OUT CURB
(J)	FLUSH CURB AND GUTTER
(K)	PAVEMENT LEGEND, SEE DETAIL
(L)	LANDSCAPE AREA - SEE LANDSCAPE PLANS
(M)	MOUNTABLE CURB AND GUTTER
(N)	BITUMINOUS PAVEMENT REPLACEMENT
(O)	CONCRETE SIDEWALK REPLACEMENT, PAVEMENT SECTION TO MATCH EXISTING EXTENTS OF CONCRETE AND EXISTING EXTENTS OF COLORED STRIPED CONCRETE
(P)	PAVEMENT MARKINGS IN ACCORDANCE WITH MUTCD
(Q)	CLEAR VIEW TRIANGLE 15' FROM PROPERTY LINE AND DRIVEWAY APPROACHES
(R)	B624 CURB & GUTTER
(S)	EXISTING STREET LIGHTING
(T)	NOT USED
(U)	REPLACE SALVAGED STREET LIGHTING, COORD. WITH CITY OF BLOOMINGTON



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PL202100026 Pre-App

ISSUED FOR REVIEW DATE: 02/09/2021 DRAWN BY: WDM

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

WILLIAM D. MATZKE, P.E.
DATE: 02/09/2021 MIN. LIC. NO. 45790

phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160807009
project name

SICK - CAMPUS USA
PHASE I

SITE PLAN

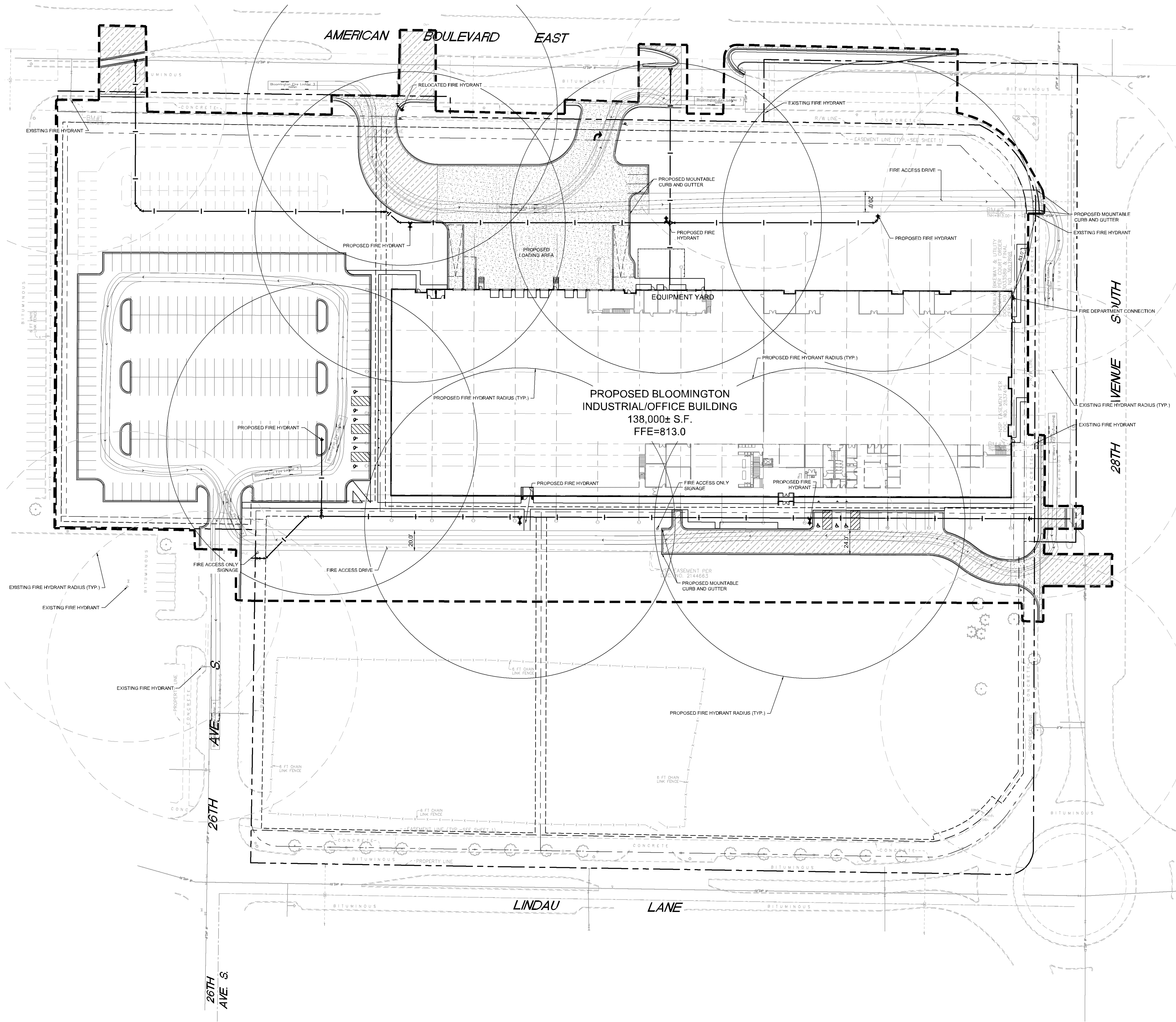
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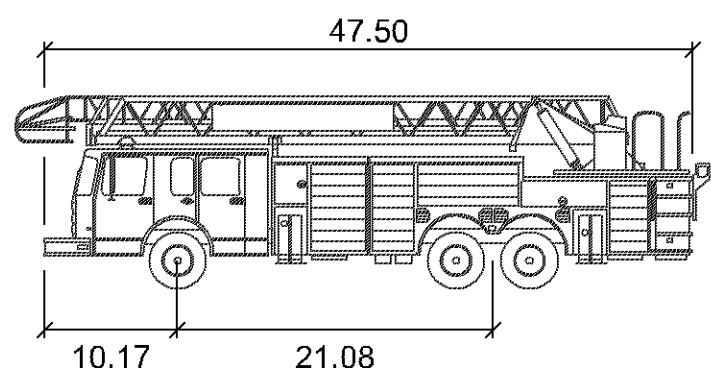
PRELIMINARY - NOT FOR CONSTRUCTION

Verify ownership and managers of street lighting

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- LEGEND**
- PROPERTY LINE
 - PROPOSED REDUCER
 - PROPOSED TEE
 - PROPOSED GATE VALVE
 - PROPOSED HYDRANT
 - PROPOSED WATERMAIN
 - EXISTING FIRE HYDRANT 150' RADIUS COVERAGE
 - PROPOSED FIRE HYDRANT 150' RADIUS COVERAGE
 - PROPOSED ASPHALT
 - Bloomington Fire Ladder 3



Bloomington Fire Ladder 3

	feet
Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 40.0

THE VEHICLE MANEUVERING IDENTIFIED ON THIS PLAN WAS PREPARED USING AUTOTURN SOFTWARE AND DOES NOT NECESSARILY REPRESENT ACTUAL CONDITIONS NOR DOES IT ACCOUNT FOR EXTERNAL FACTORS. THIS ANALYSIS SHOULD NOT BE USED AS THE SOLE BASIS FOR THE CLIENT'S DECISION MAKING.

CLOW BERG

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DESIGNED BY: DATE: DRAWN BY:

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WILLIAM D. MATZEK, P.E.
DATE: JUN 10, 2021 LIC. NO. 45790

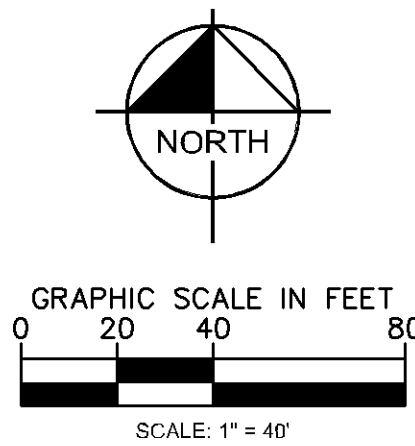
phase PRE-DRC
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

SICK - CAMPUS USA
PHASE 1

GROUP 010
FIRE DEPARTMENT ACCESS
PLAN

Sheet Number

C401

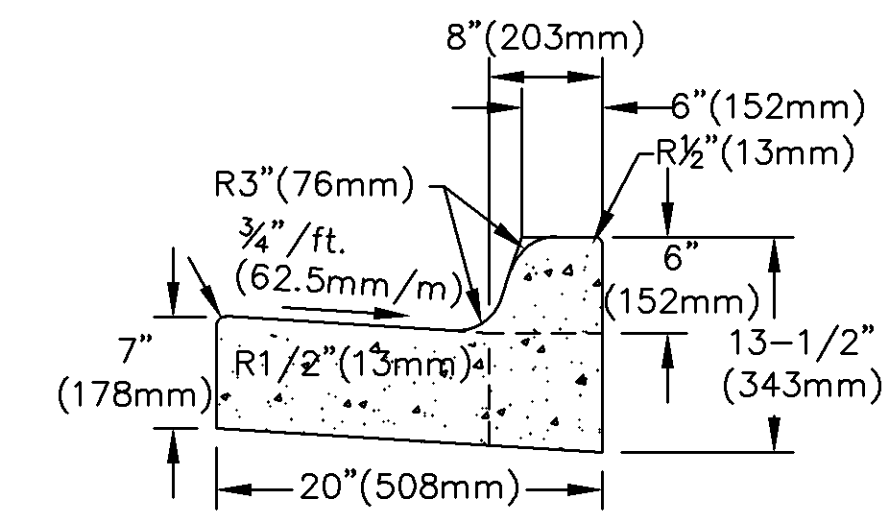


SCALE: 1" = 40'

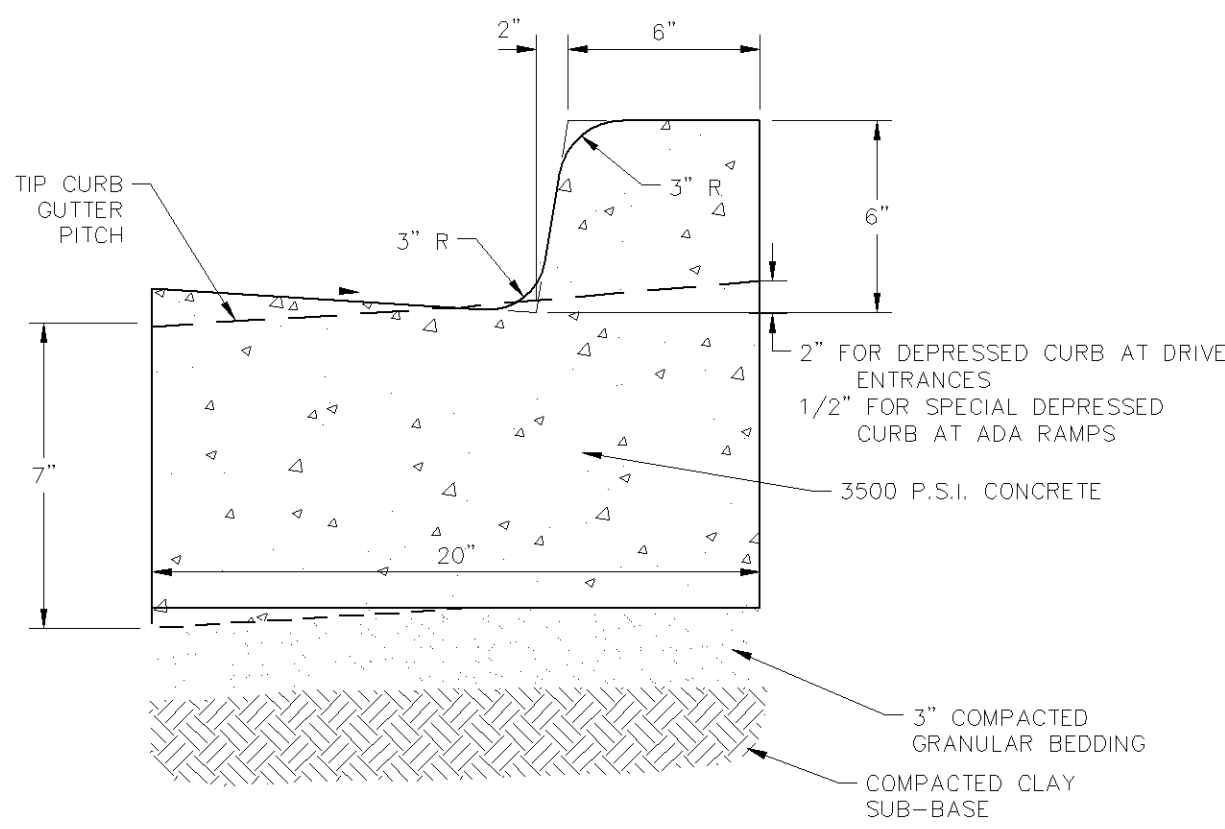
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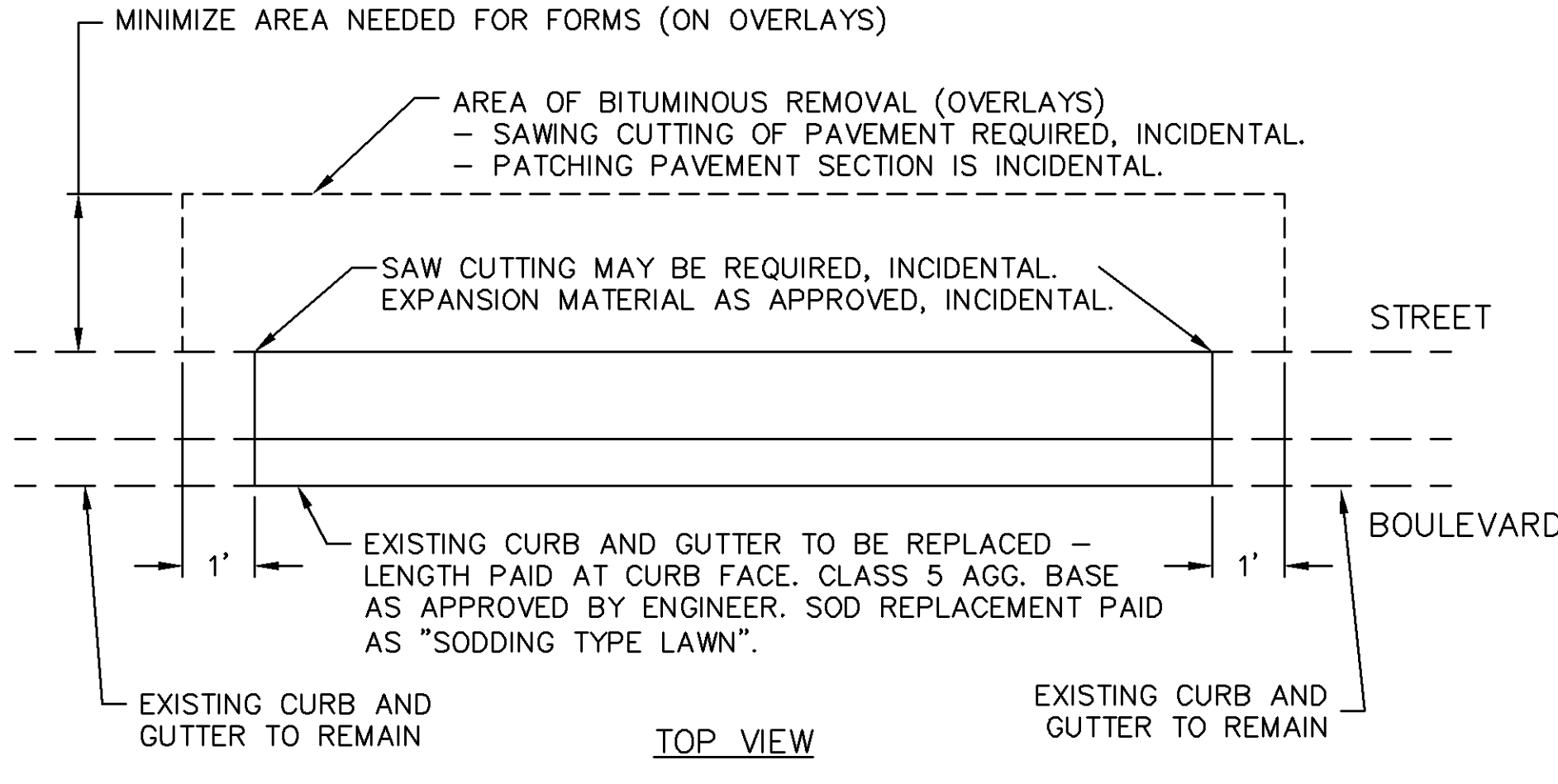
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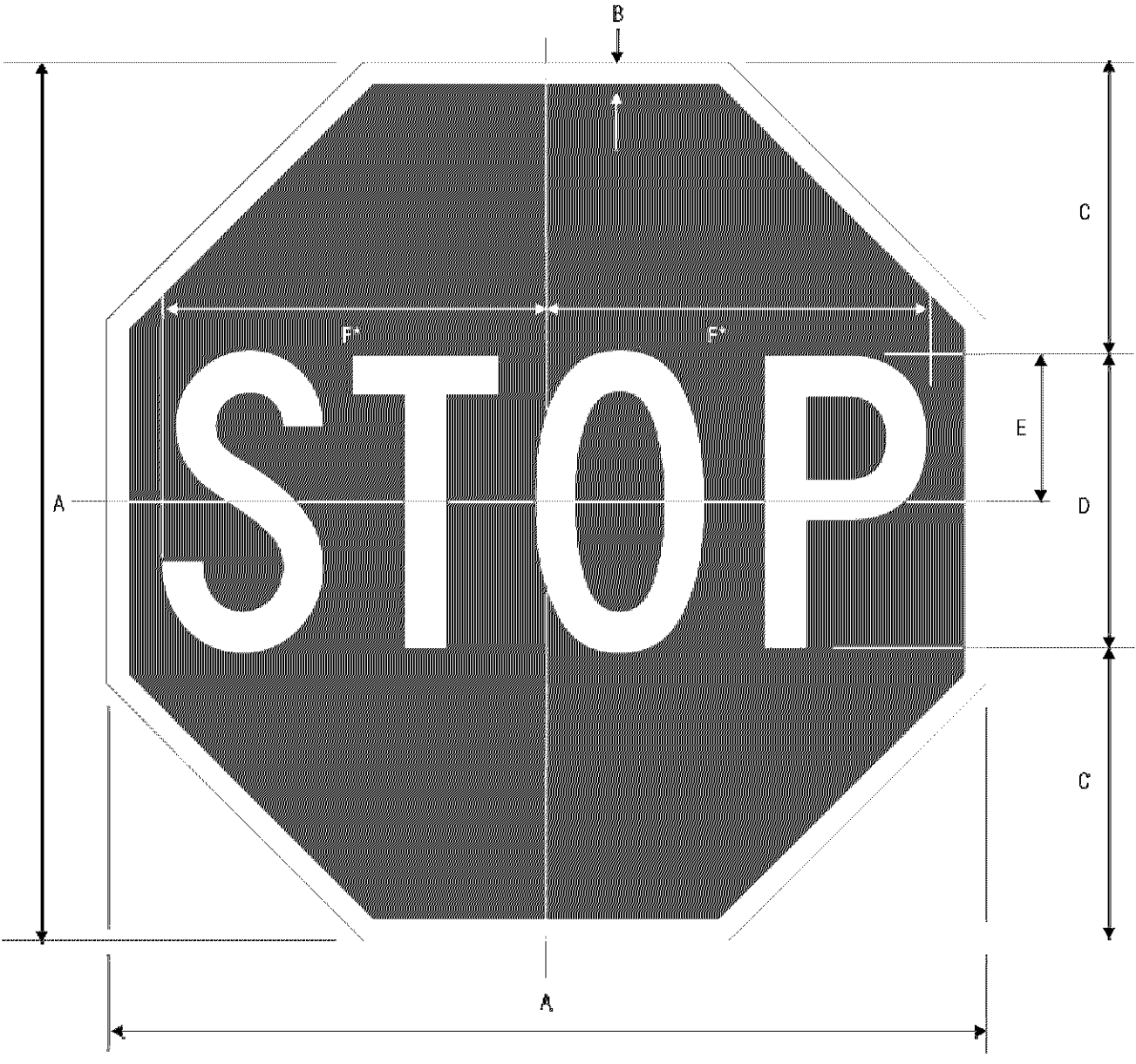
B612 STANDARD CURB & GUTTER
B612_C&G.dwg 4/2009



B612 TIP CURB
N.T.S.



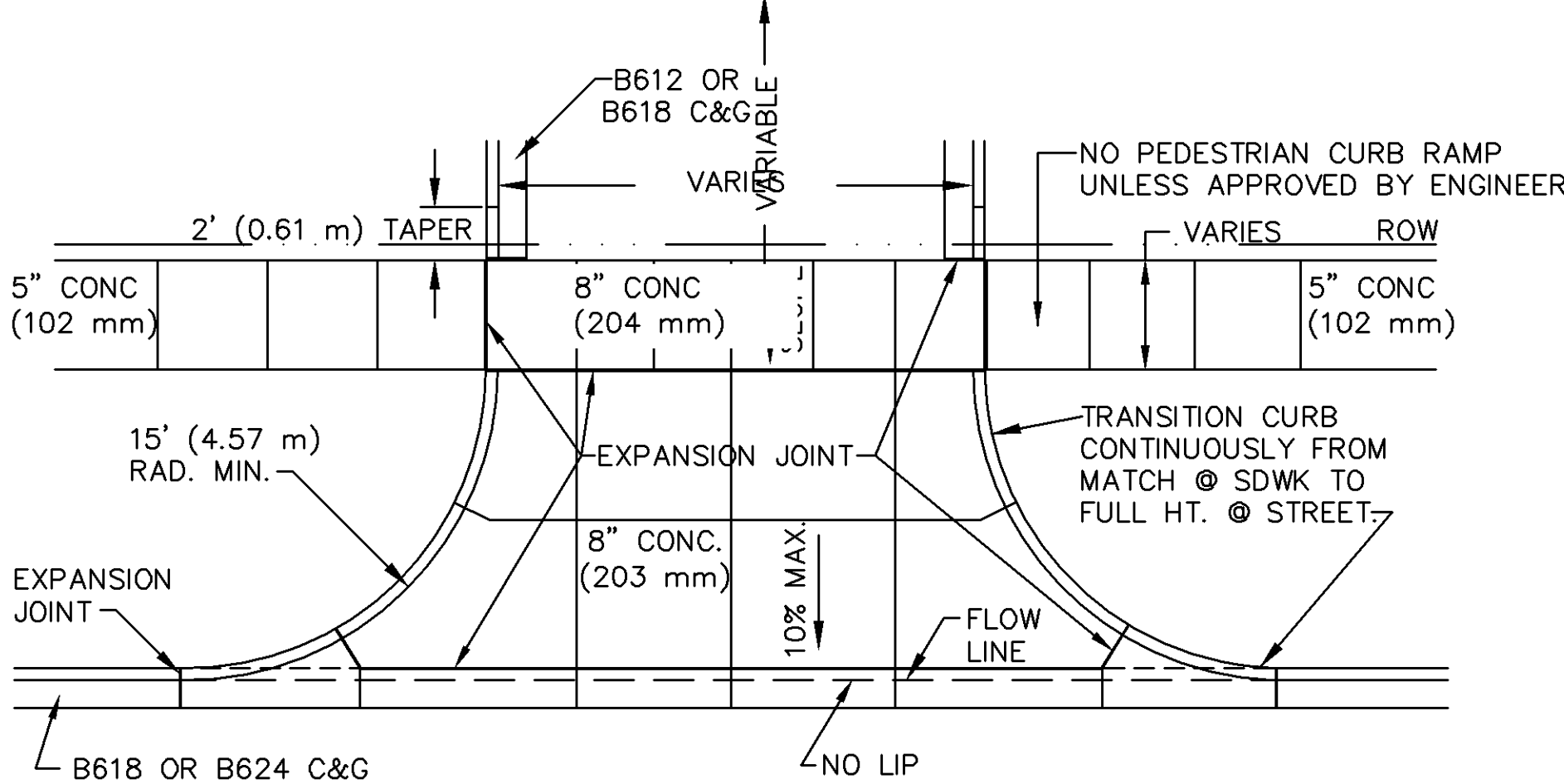
C&G REMOVAL AND REPLACEMENT
C&G_REM_REPLACE.dwg 4/2009



R1-1 STOP *Radius spacing 40%

A	B	C	D	E	F
18	.375	6	6 C	3	7.76
24	.526	8	8 C	4	10
30	.75	10	10 C	5	12.5
36	.875	12	12 C	6	15
48	1.25	16	16 C	8	20

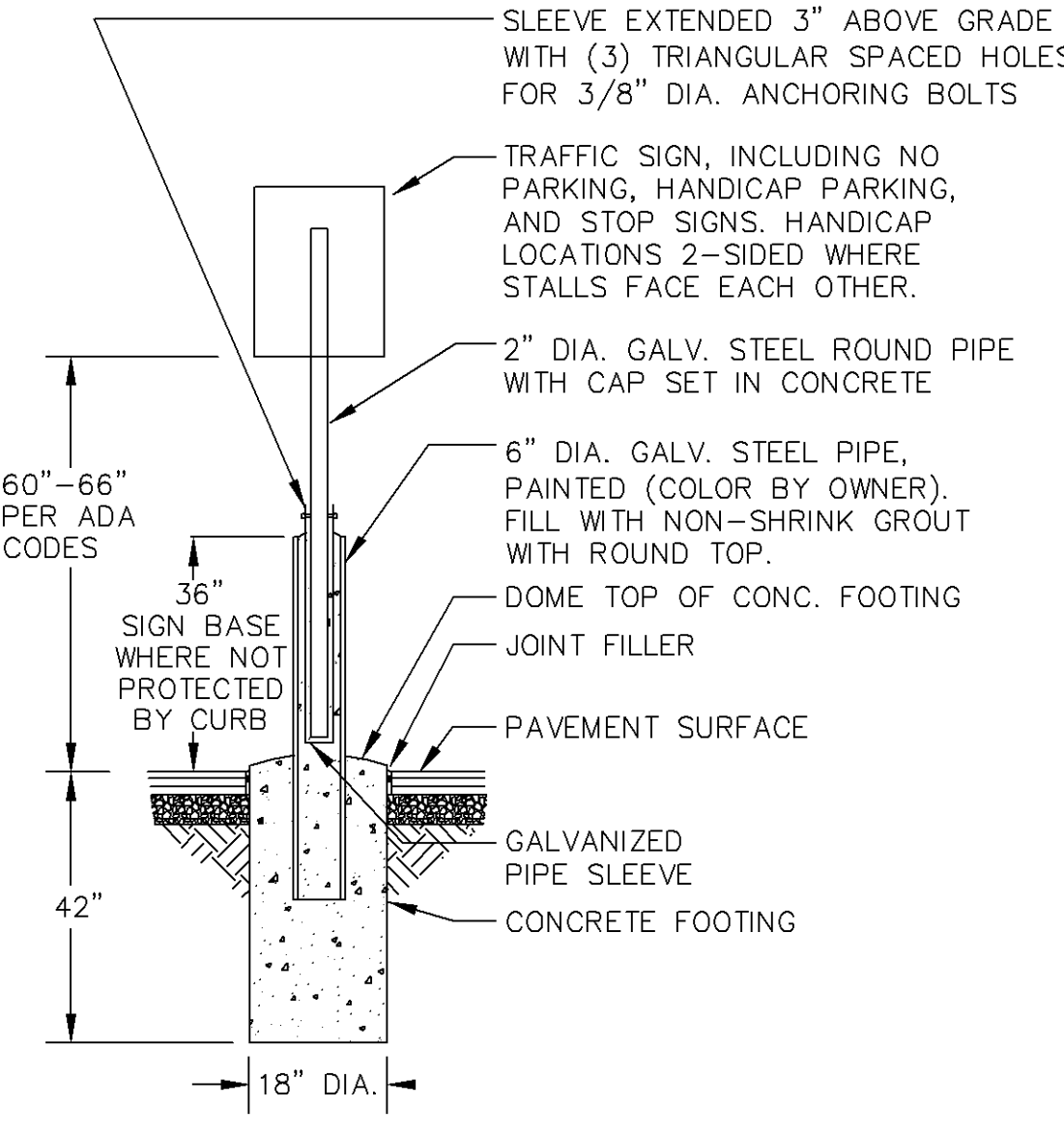
COLORS: LEGEND - WHITE (RETROREFLECTIVE)
BACKGROUND - RED (RETROREFLECTIVE)



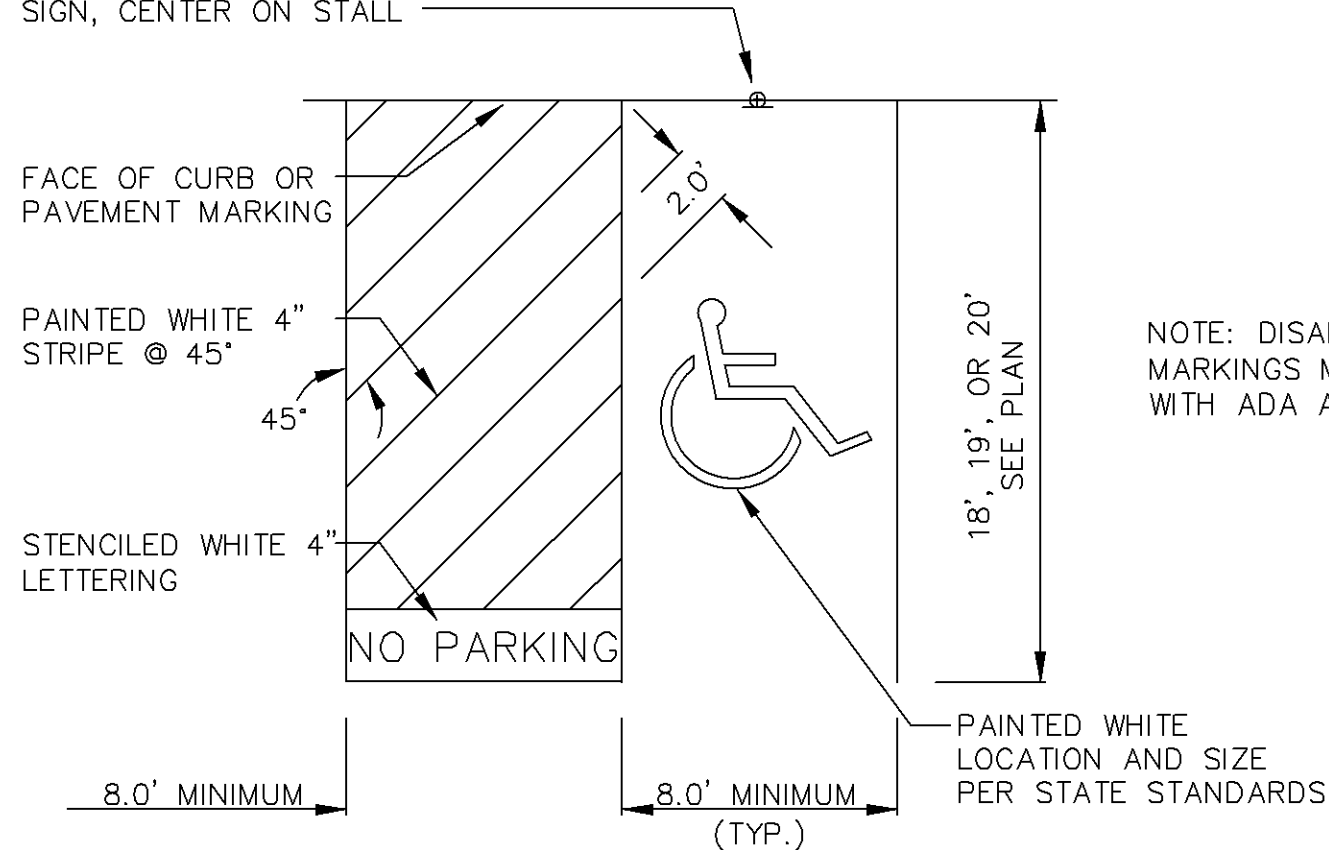
NONRESIDENTIAL DRIVEWAY APPROACH
WITH BOULEVARD SIDEWALK
DRWY_COM.dwg 4/2009



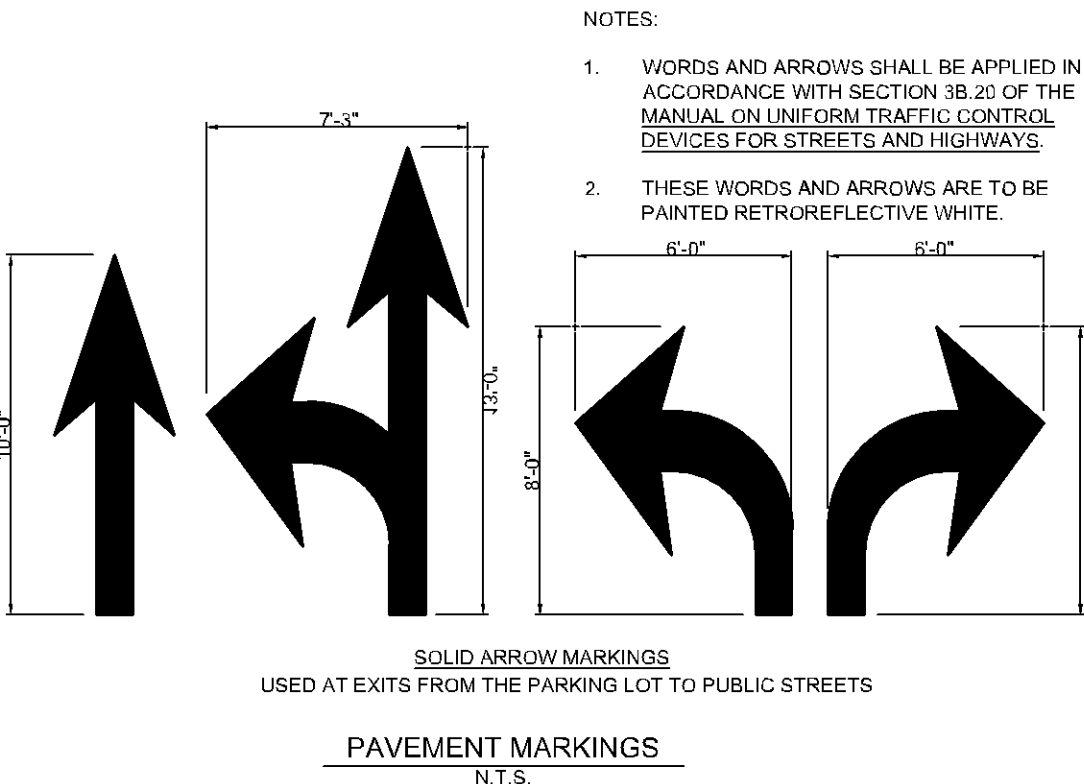
COLORS:
LEGEND AND BORDER - WHITE
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - BLUE
REDUCE SPACING 50%
SEE APPENDIX "E" FOR SYMBOL PROPORTIONS
NOTE: DISABLED PARKING SIGNAGE MUST BE
PLACED IN ACCORDANCE WITH ADA AND MMUTCD.



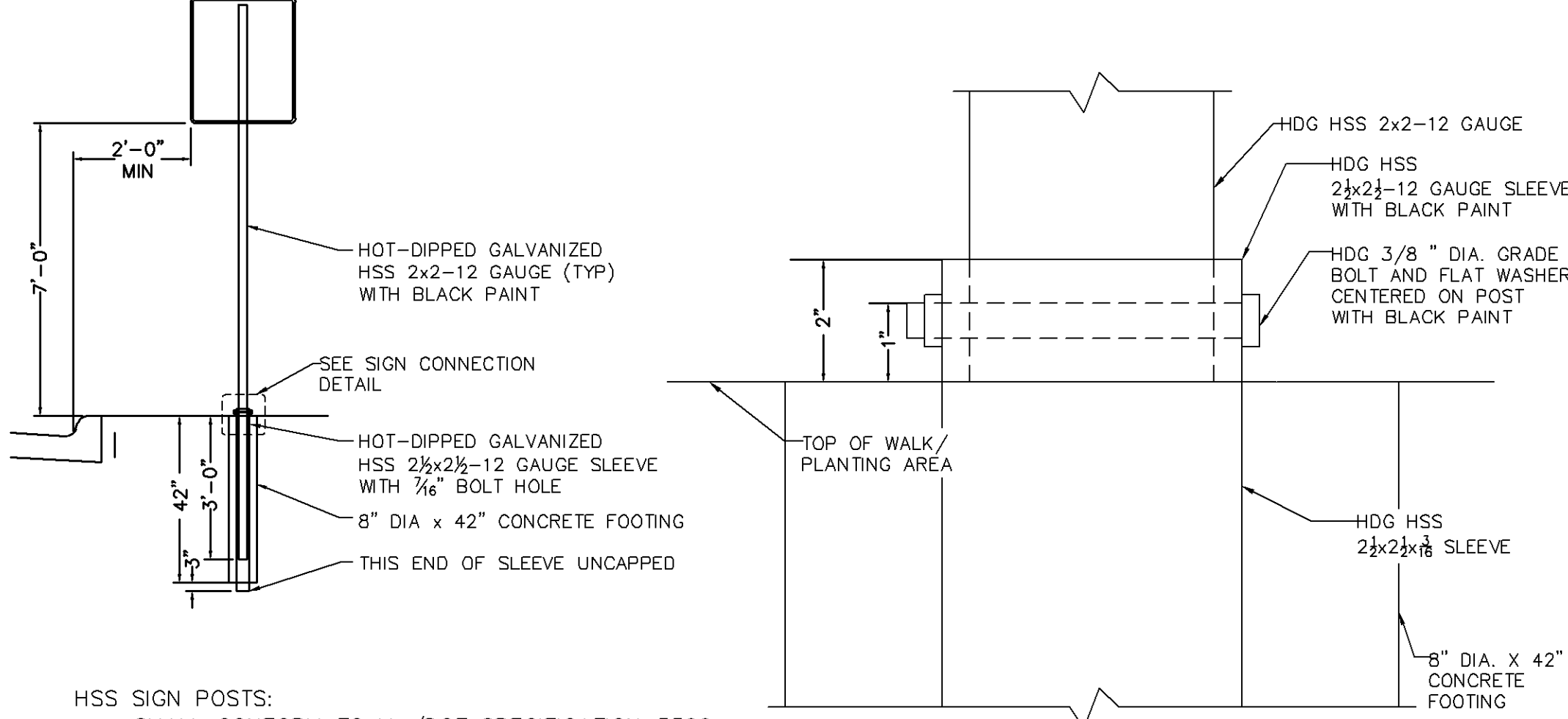
HANDICAP SIGN WITH BOLLARD



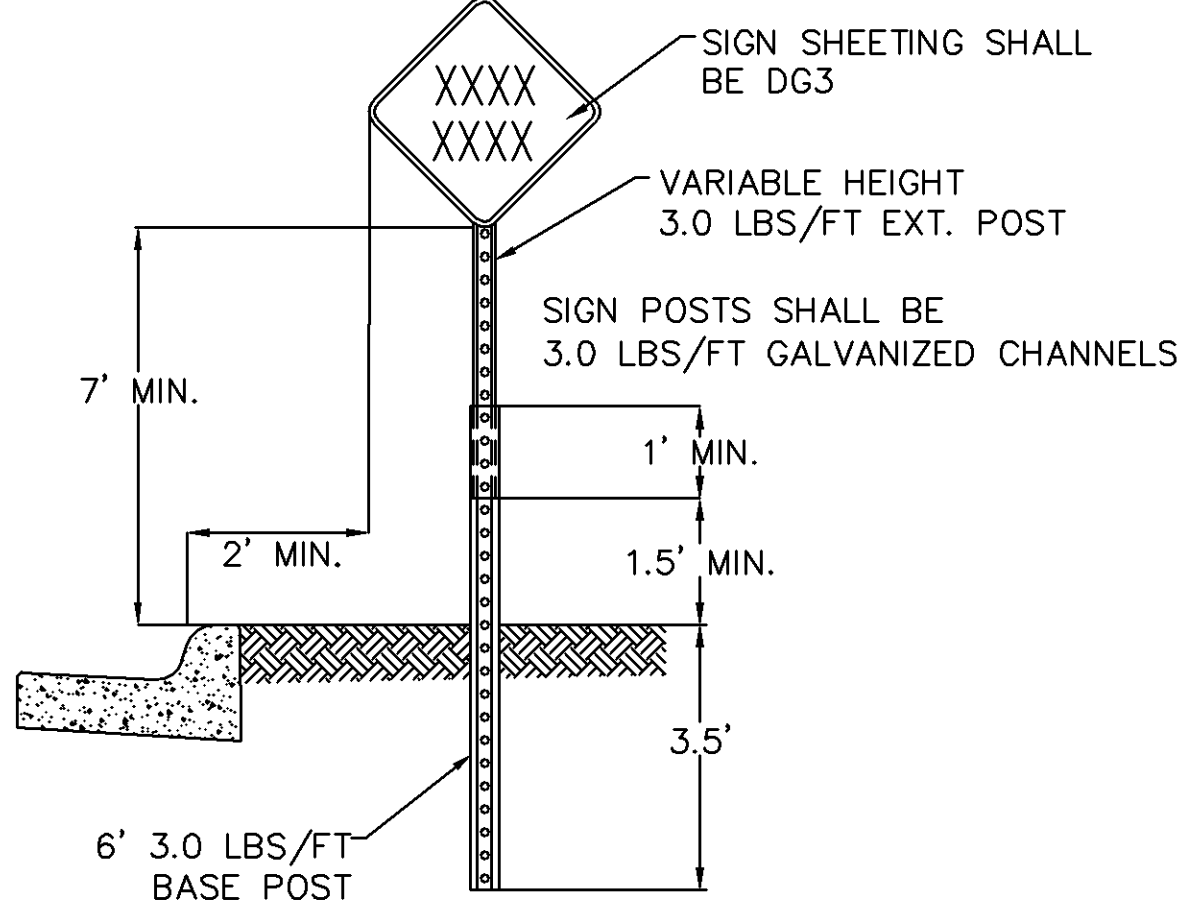
HANDICAP PARKING STALL LAYOUT



TYPICAL SIDEWALK INSTALLATION
TYP_CONC_WALK.dwg 11/2012



TYPICAL MOUNTING INSTALLATION
2"x2" SQUARE POST-MOUNTED SIGN



GROUND POST-MOUNTED SIGN
TYPICAL INSTALLATION
Sign_Ground_Mount.dwg 10/2012

PRELIMINARY - NOT FOR CONSTRUCTION

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phase	PRE-DRG
date	02.09.2021
drawn by	LEC
checked by	WDM
project number	160897009
project name	

SICK - CAMPUS USA
PHASE I

160897009
February 27, 2020

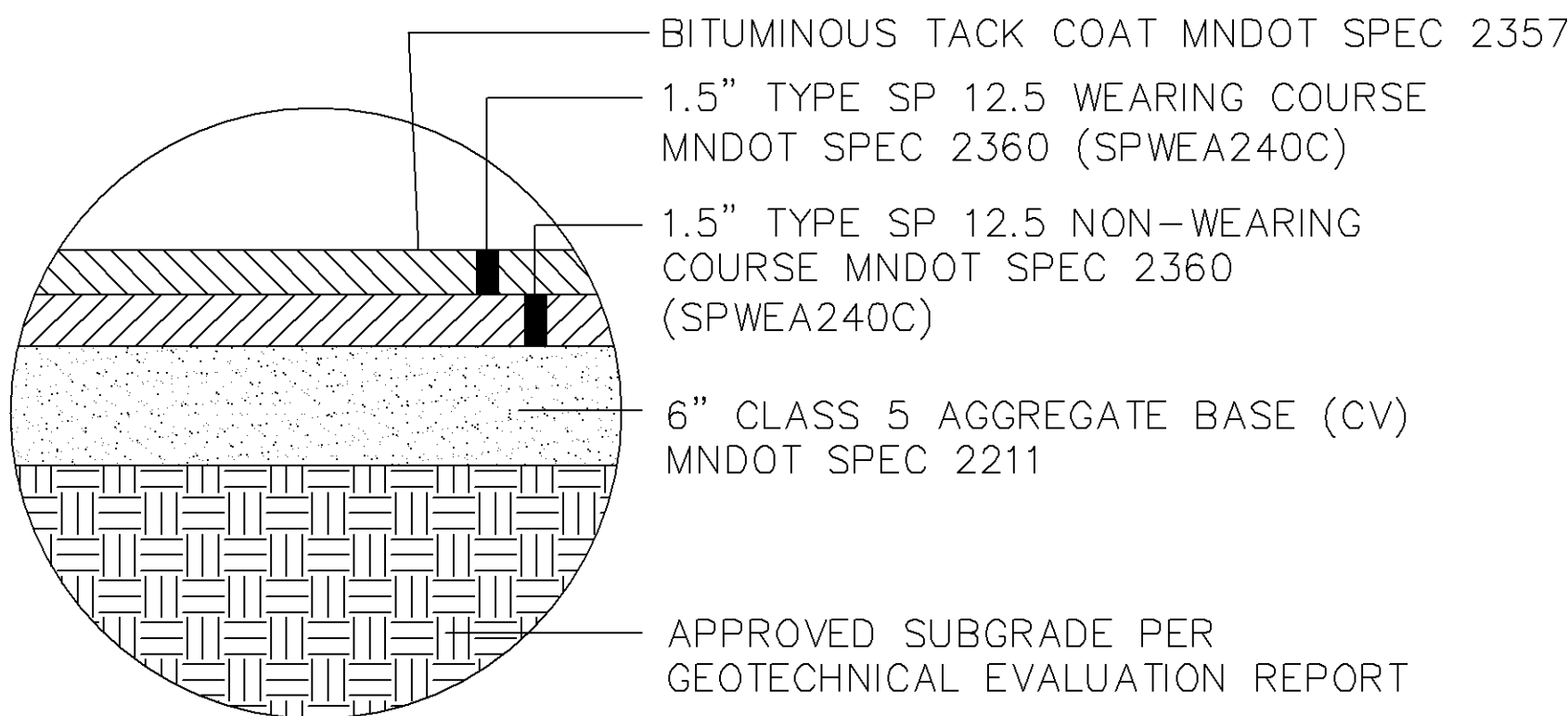
SICK Technology Campus - 2020
PREPARED FOR
SICK

SITE DETAILS

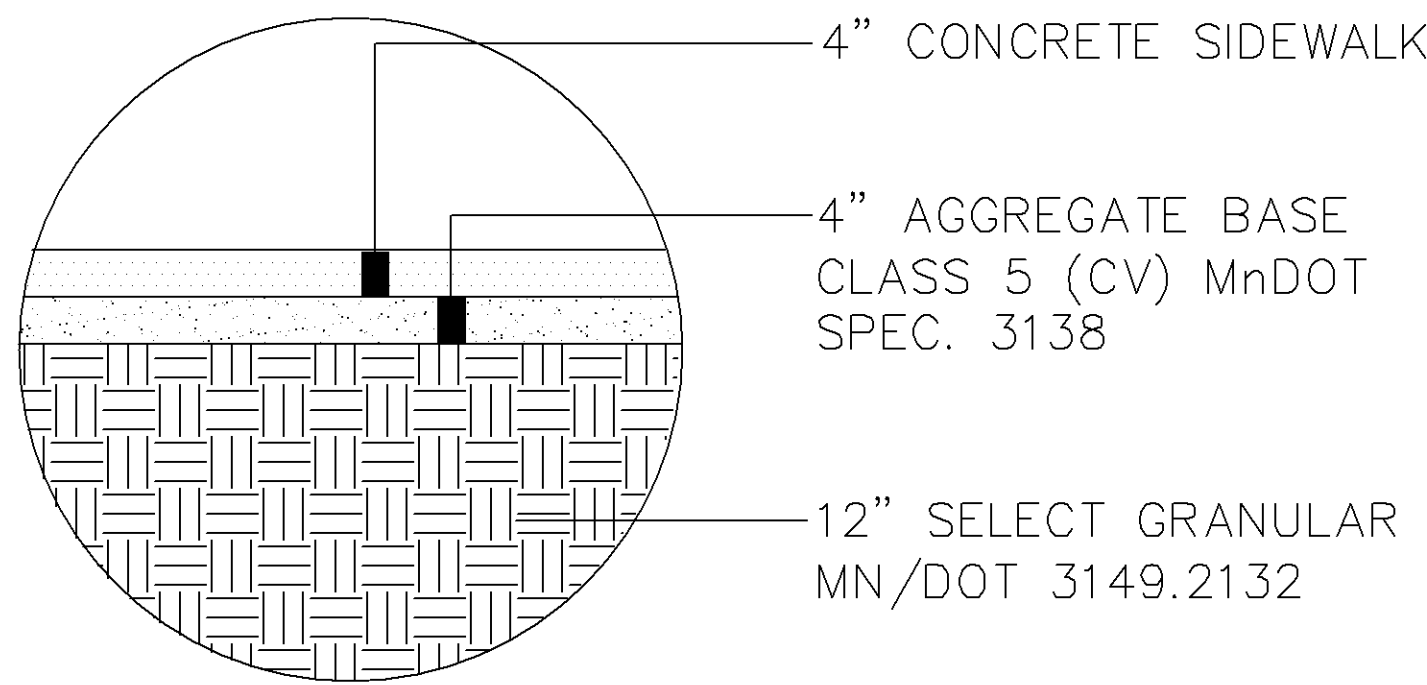
Sheet Number
C402
Current Revision

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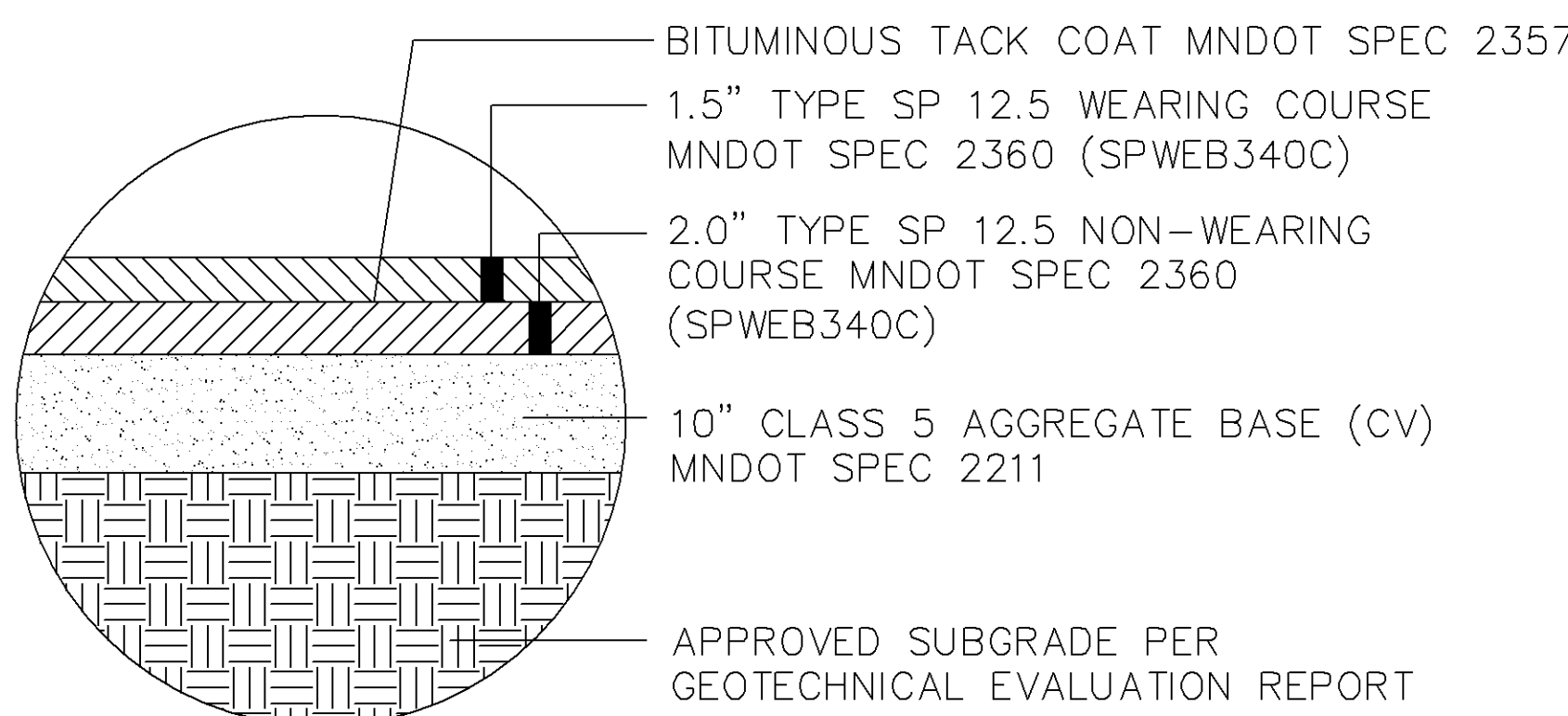


STANDARD DUTY BITUMINOUS PAVEMENT

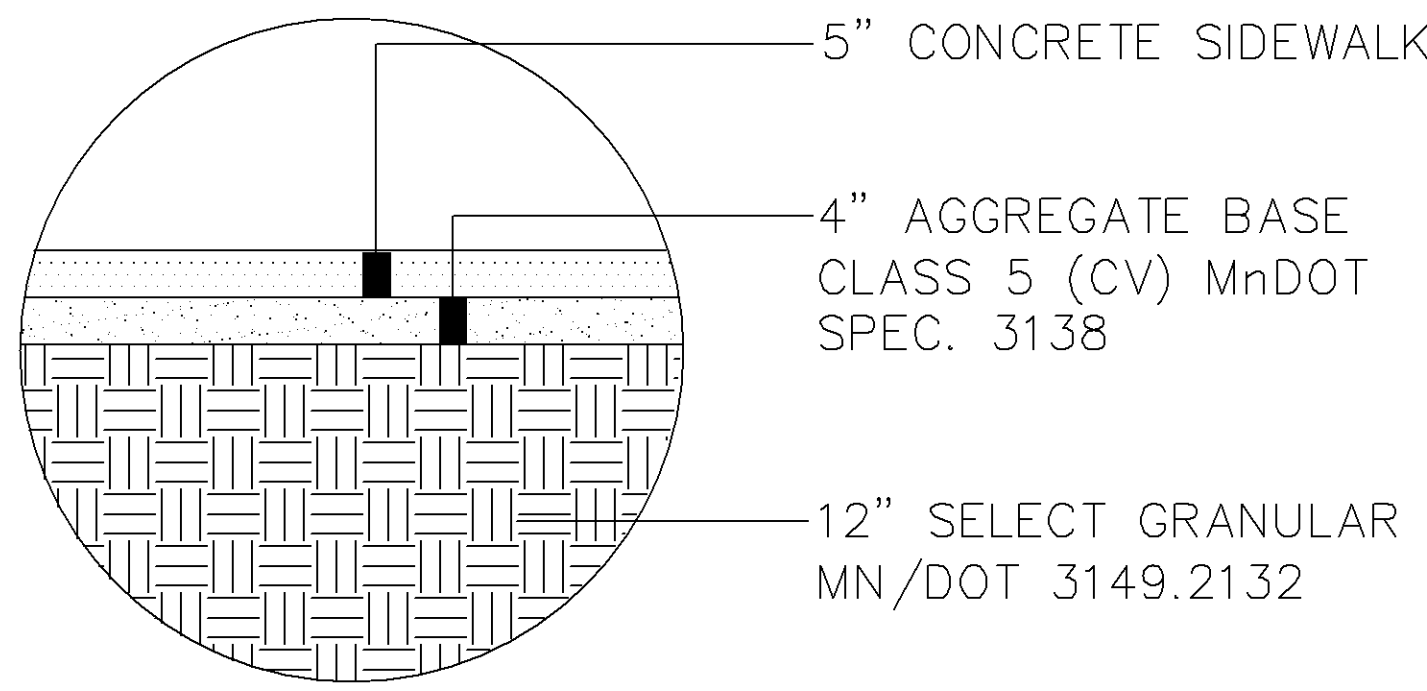


CONCRETE SIDEWALK

LIGHT DUTY

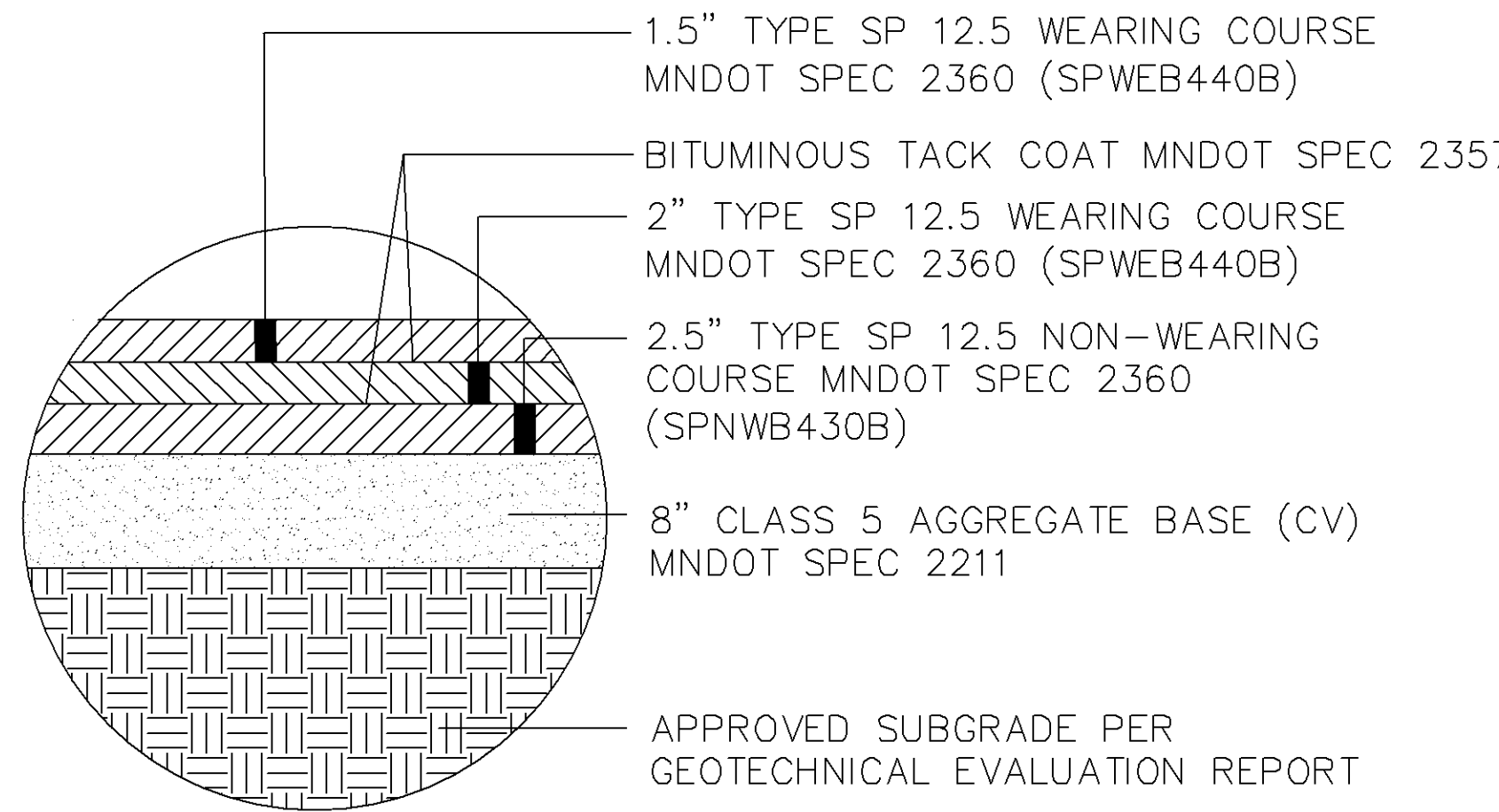


HEAVY DUTY BITUMINOUS
PAVEMENT

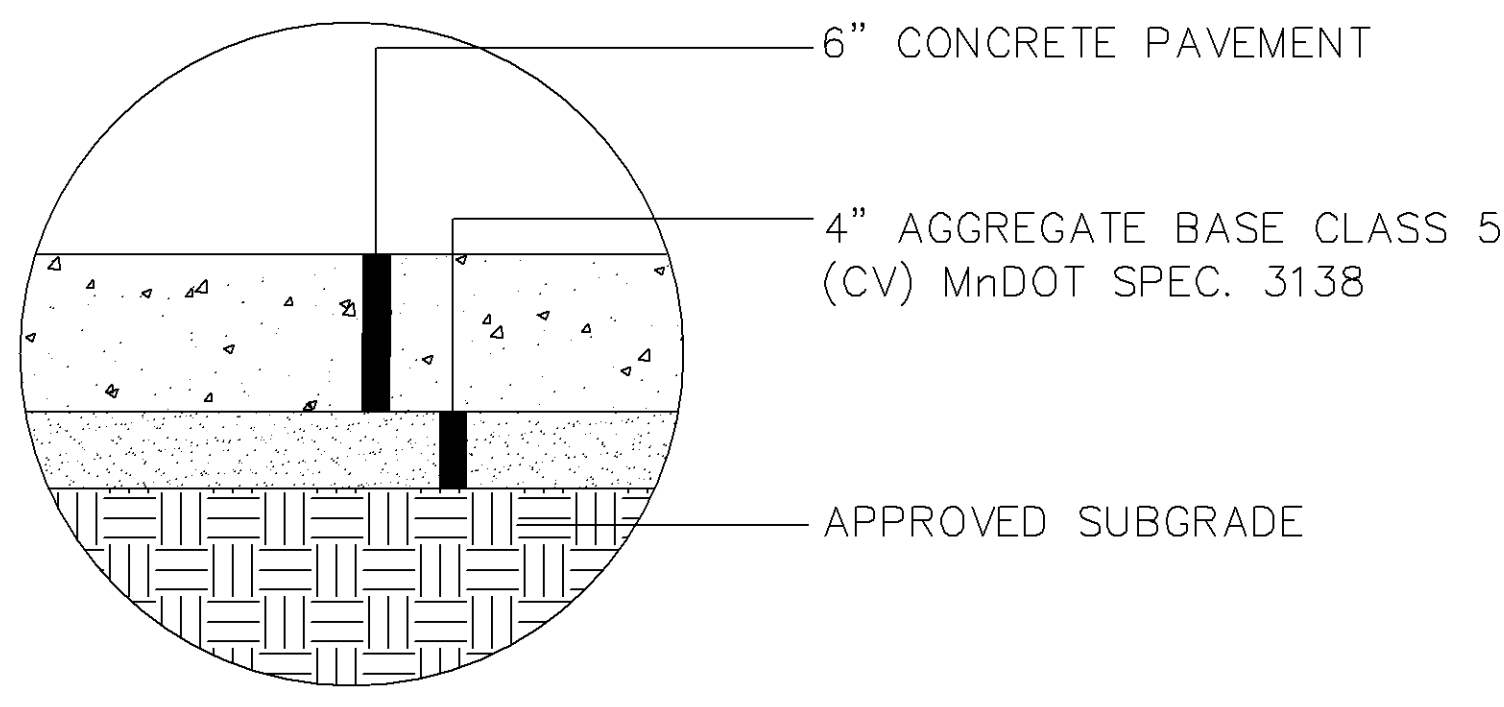


CONCRETE SIDEWALK

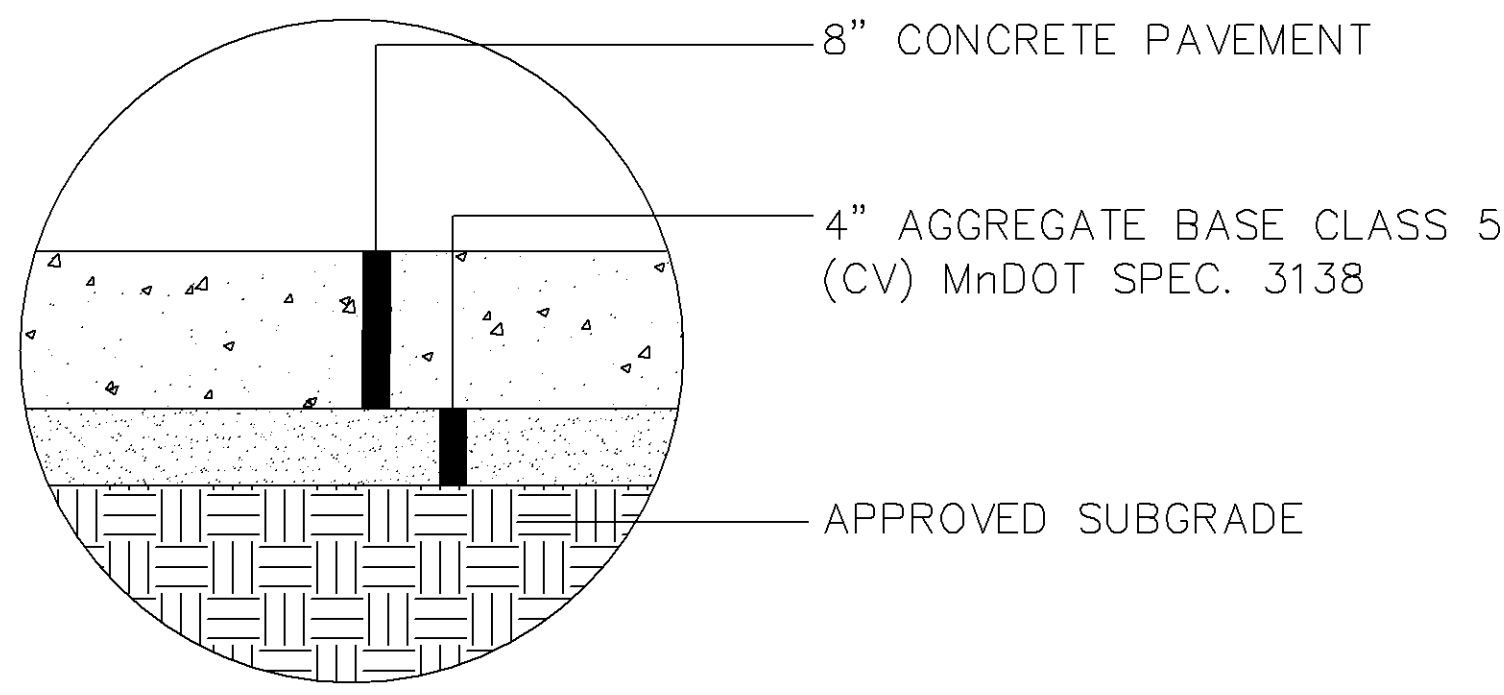
W/IN PUBLIC ROW



BITUMINOUS PATCH



HEAVY DUTY CONCRETE PAVEMENT



TRUCK DOCK PAD CONCRETE PAVEMENT

CLOW BERG

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PHONE: (612) 645-4197
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REVISIONS
REV. DATE DESCRIPTION

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

WILLIAM D. MATZEK, P.E.
DATE: MIN. LIC. NO. 45790

phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160687009
project name

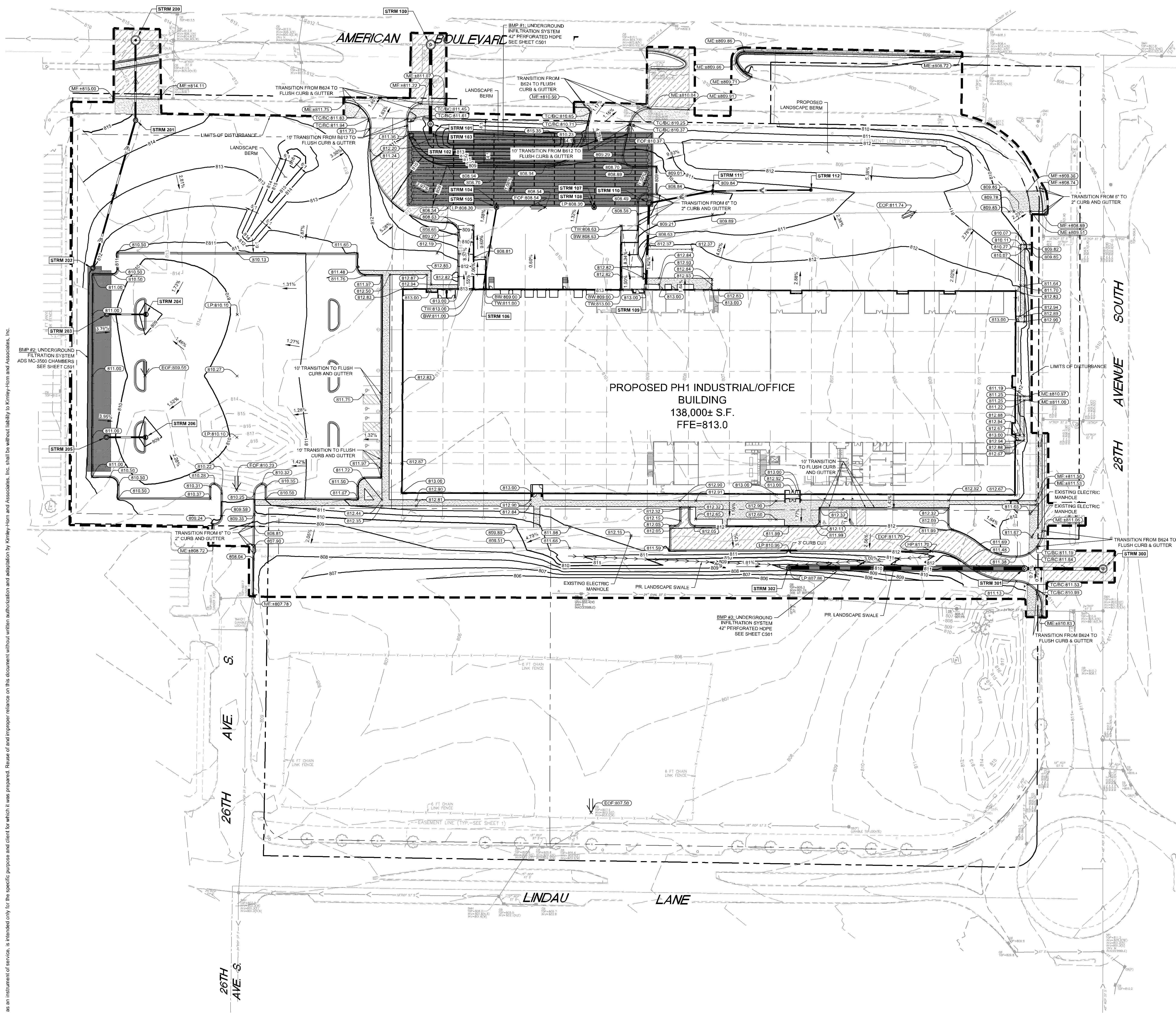
SICK - CAMPUS USA
PHASE 1

sheet title
SITE DETAILS

sheet number
C403

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LEGEND

---	PROPERTY LINE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED STORM MANHOLE (SOLID CASTING)
---	PROPOSED STORM MANHOLE (ROUND INLET CASTING)
---	PROPOSED STORM MANHOLE CATCH BASIN (CURB INLET CASTING)
---	PROPOSED STORM SEWER CLENOT
---	PROPOSED FLARED END SECTION
---	PROPOSED RIPRAP
---	PROPOSED STORM SEWER
---	PROPOSED STORM SEWER
---	EXISTING STORM SEWER
---	EXISTING STORM MANHOLE / STORM CATCH BASIN / SANITARY MANHOLE
---	EXISTING STORM CATCH BASIN (ON CURB)
---	PROPOSED SPOT ELEVATION
---	PROPOSED HIGH POINT ELEVATION
---	PROPOSED LOW POINT ELEVATION
---	PROPOSED UTILITY ELEVATION
---	PROPOSED TOP OF CURB ELEVATION
---	PROPOSED FLUSH PAVEMENT ELEVATION
---	MATCH EXISTING ELEVATION
---	PROPOSED EMERGENCY OVERFLOW
---	PROPOSED DRAINAGE DIRECTION
---	PROPOSED ADA SLOPE
---	RETAINING WALL
---	PROPOSED CURB AND GUTTER
---	PROPOSED LANDSCAPE SWALE

- GRADING PLAN NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF BLOOMINGTON, SPECIFICATIONS AND BUILDING DEPARTMENT REQUIREMENTS.
 - CONTRACTOR TO CALL GOWNE STATE CALL ONE (818) 800-2531-1196 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.
 - STORM SEWER PIPE SHALL BE AS FOLLOWS:
RCP PER ASTM C-76
HOPE 12" OR GREATER PER ASTM F-2306
PVC SCH 40 PER ASTM D-3034
STORM SEWER FITTINGS SHALL BE AS FOLLOWS:
RCP PER ASTM C-76, JOINTS PER ASTM C-381, C-490, AND C-443
HOPE PER ASTM D-3121
PVC PER ASTM D-3034, JOINTS PER ASTM D-3211
 - CONTRACTOR TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
 - SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF EXISTING PAVEMENT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
 - CONTRACTOR SHALL EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS.
 - GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL ROUGH GRADE TO SUBGRADE ELEVATION AND LEAVE STREET READY FOR SUBBASE.
 - ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSALEABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
 - REFER TO THE UTILITY PLAN FOR SANITARY SEWER MAIN, WATER MAIN SERVICE LAYOUT AND ELEVATIONS AND CASTING/STRUCTURE SCHEDULE.
 - CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENTS AND CURB AND GUTTER WITH SMOOTH UNIFORM SLOPES WITH PROVIDE POSITIVE DRAINAGE.
 - INSTALL A MINIMUM OF 4" CLASS 5 AGGREGATE BASE UNDER CURB AND GUTTER.
 - UPON COMPLETION OF EXCAVATION AND FILLING, CONTRACTOR SHALL RESTORE ALL STREETS AND DISTURBED AREAS ON SITE. ALL DISTURBED AREAS SHALL BE REVEGETATED WITH A MINIMUM OF 4" OF TOPSOIL.
 - ALL SPOT ELEVATIONS/CONTOURS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.
 - ALL SPOT ELEVATIONS ARE TO FLOW LINE UNLESS OTHERWISE NOTED.
 - GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATUTORY STANDARDS. SLOPES SHALL NOT EXCEED 5% LONGITUDINALLY OR EXCEED 2% CROSS SLOPE. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION.
 - "MAINTAIN A MINIMUM OF 0.5% GUTTER SLOPE TOWARDS LOW POINTS."
 - CONTRACTOR TO PROVIDE 3" INSULATION BY 5' WIDE CENTERED ON STORM PIPE IF LESS THAN 4' OF COVER IN PAVEMENT AREAS AND LESS THAN 3' OF COVER IN LANDSCAPE AREAS.
 - HOPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES MUST BE MADE WITH WATER TIGHT MATERIALS UTILIZING A JOCK 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. CONSISTENT WATERSTOP SEALANT OR APPROVED EQUAL WILL ONLY BE ALLOWED AS APPROVED BY THE ENGINEER.

CLOW BERG
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Kimley-Horn
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PL202100026 Pre-App

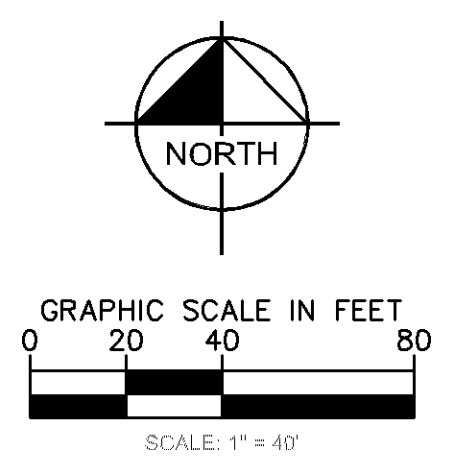
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 45790

phase: PRE-DRC
date: 02.09.2021
drawn by: LEC
checked by: WOM
project number: 160887009
project name:

**SICK - CAMPUS USA
PHASE 1**

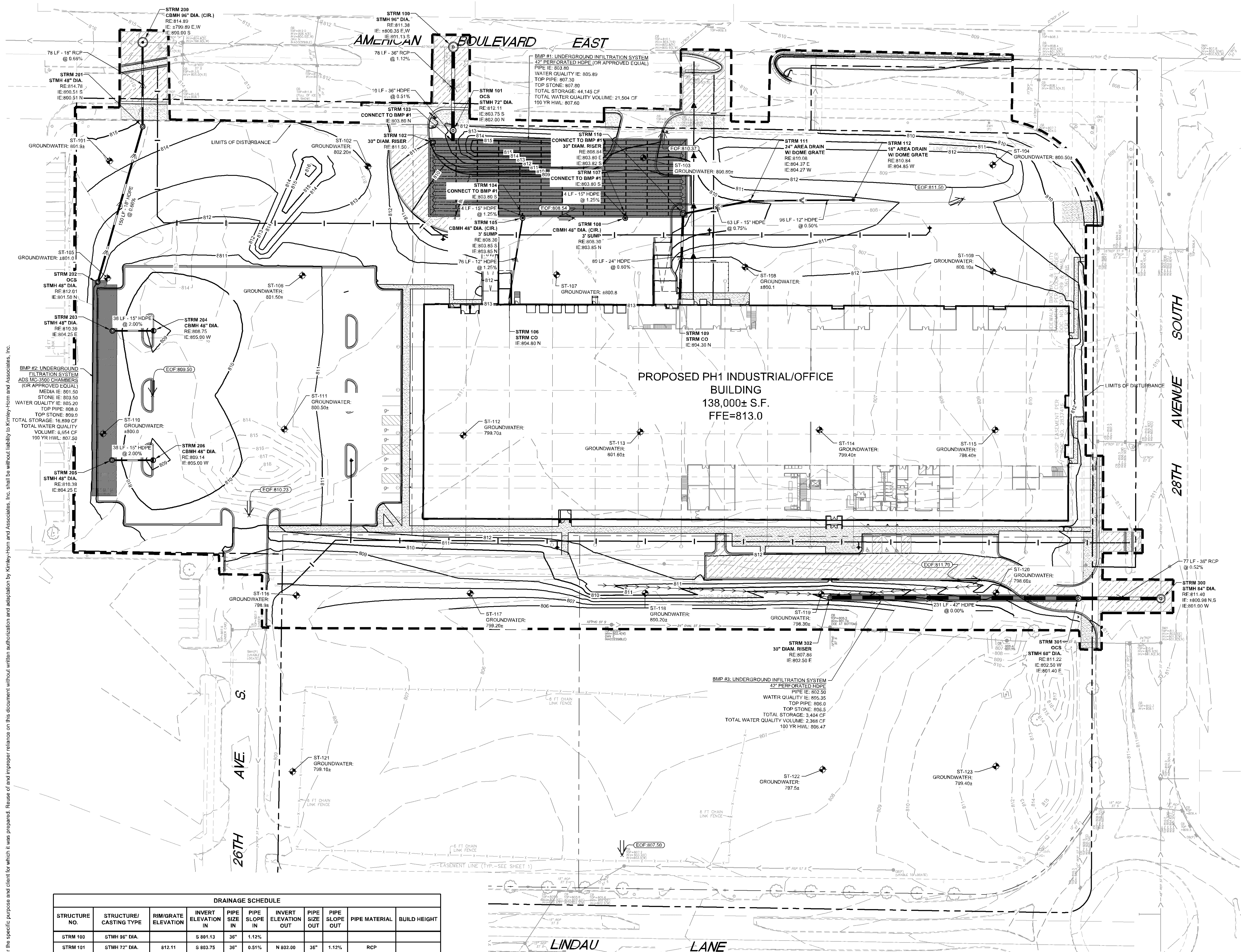
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sheet number
GRADING PLAN

C500

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DRAINAGE SCHEDULE									
STRUCTURE NO.	STRUCTURE/CASTING TYPE	RIM/GRATE ELEVATION	INVERT ELEVATION	PIPE SIZE IN	PIPE SLOPE IN	INVERT ELEVATION OUT	PIPE SIZE OUT	PIPE SLOPE OUT	PIPE MATERIAL
STRM 100	STRM 96" DIA.		S 891.13	36"	1.12%				
STRM 101	STRM 72" DIA.	812.11	S 893.75	36"	0.51%	N 892.00	36"	1.12%	RCP
STRM 102	30" DIAM. RISER	811.50							
STRM 103	CONNECT TO BMP #1								
STRM 104	CONNECT TO BMP #1		S 893.80	15"	1.25%	N 893.80	36"	0.51%	HDPE
STRM 105	CBMH 48" DIA. (CIR.) 3" SUMP	808.30	S 893.85	12"	1.25%	N 893.85	15"	1.25%	HDPE
STRM 106	STRM CO					N 894.80	12"	1.25%	HDPE
STRM 107	CONNECT TO BMP #1	805.17	S 893.80	15"	1.25%				
STRM 108	CBMH 48" DIA. (CIR.) 3" SUMP	808.30				N 893.85	15"	1.25%	HDPE
STRM 109	STRM CO					N 894.30	24"	0.60%	HDPE
STRM 110	CONNECT TO BMP #1	808.84	E 893.80 S 893.82	15" 24"	0.75% 0.60%				
STRM 111	24" AREA DRAIN W/ DOME GRATE	810.08	E 894.37	12"	0.50%	W 894.27	15"	0.75%	HDPE
STRM 112	16" AREA DRAIN W/ DOME GRATE	810.84				W 894.55	12"	0.50%	HDPE
STRM 200	CBMH 96" DIA. (CIR.)		S 890.00	18"	0.66%				
STRM 201	STRM 48" DIA.	814.76	S 890.51	18"	0.66%	N 890.51	18"	0.66%	RCP
STRM 202	OC	812.01				N 891.50	18"	0.66%	HDPE
STRM 203	STRM 48" DIA.	810.39	E 894.25	15"	2.00%				
STRM 204	CBMH 48" DIA.	808.75				W 895.00	15"	2.00%	HDPE
STRM 205	STRM 48" DIA.	810.39	E 894.25	15"	2.00%				
STRM 206	CBMH 48" DIA.	809.14				W 895.00	15"	2.00%	HDPE
STRM 300	STRM 94" DIA.		W 891.00	36"	0.52%				
STRM 301	OC	811.22	W 892.50	42"	0.00%	E 891.40	36"	0.52%	RCP
STRM 302	30" DIAM. RISER	807.86				E 892.50	42"	0.00%	HDPE

PL202100026 Pre-App

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM MANHOLE (SOLID CASTING)
- PROPOSED STORM MANHOLE (ROUND INLET CASTING)
- PROPOSED STORM MANHOLE CATCH BASIN (CURB INLET CASTING)
- PROPOSED STORM SEWER CLENOT
- PROPOSED FLARED END SECTION
- PROPOSED STORM SEWER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING STORM MANHOLE / (STORM CATCHBASIN / SANITARY MANHOLE)
- EXISTING STORM CATCHBASIN (ON CURB)
- PROPOSED DRAINAGE DIRECTION
- PROPOSED ADA SLOPE
- RETAINING WALL
- PROPOSED CURB AND GUTTER
- PROPOSED LANDSCAPE SWALE

PROPOSED STORM SEWER

PROPOSED STORM SEWER

EXISTING STORM SEWER

EXISTING STORM MANHOLE / (STORM CATCHBASIN / SANITARY MANHOLE)

EXISTING STORM CATCHBASIN (ON CURB)

PROPOSED DRAINAGE DIRECTION

PROPOSED ADA SLOPE

RETAINING WALL

PROPOSED CURB AND GUTTER

PROPOSED LANDSCAPE SWALE

STORMWATER MANAGEMENT PLAN NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF MINNAPOLIS SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS.
- CONTRACTOR TO CALL Gopher State Call One @ 1-800-252-1166 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING CONSTRUCTION FOR UTILITY LOCATIONS.
- STORM SEWER PIPE SHALL BE AS FOLLOWS:
 - RCP PER ASTM C-76
 - HOPE: 12" OR GREATER PER ASTM F-2306
 - PVC: 12" OR GREATER PER ASTM D-3034
 - DIP: 12" OR GREATER CLASS 5 PER ANSII/AWWA SPECIFICATION A-21.5/C151
 - DIP: 12" OR GREATER CLASS 5 PER ANSII/AWWA SPECIFICATION A-21.5/C151
 - DIP MECHANICAL JOINT PIPE TO COMPLY WITH ANSII/AWWA SPECIFICATION A-21.1/C111
- CONTRACTOR TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
- SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER STORAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROPERLY TO AVOID UNDERMINING OF EXISTING PAVEMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- CONTRACTOR SHALL EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS.
- ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
- REFER TO THE UTILITY PLAN FOR SANITARY SEWER MAIN, WATER MAIN SERVICE LAYOUT AND ELEVATIONS AND CASTING/STRUCTURE SCHEDULE.
- UPON COMPLETION OF EXCAVATION AND FILLING, CONTRACTOR SHALL RESTORE ALL STREETS AND DISTURBED AREAS ON SITE. ALL DISTURBED AREAS SHALL BE RE-VEGETATED WITH A MINIMUM OF 4" OF TOPSOIL.
- CONTRACTOR TO PROVIDE 3" INSULATION BY 5' WIDE CENTERED ON STORM PIPE IF LESS THAN 4" OF COVER IN PAVEMENT AREAS AND LESS THAN 3' OF COVER IN LANDSCAPE AREAS.
- ROOF DRAIN INVERT CONNECTIONS AT THE BUILDING SHALL BE AS SHOWN ON PLAN UNLESS OTHERWISE NOTED. REFERENCE MEP PLANS FOR ROOF DRAIN CONNECTION.
- ALL STORM SEWER CONNECTIONS SHALL BE GASKETED AND WATER TIGHT INCLUDING MANHOLE CONNECTIONS.
- ALL STORM SEWER PIPE SHALL BE AIR TESTED IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
- HOPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES MUST BE MADE WITH WATER TIGHT MATERIALS UTILIZING ALOK OR WATERSTOP GASKET OR BOOT. CAST-IN-PLACE RUBBER BOOT, OR APPROVED EQUAL, WHERE THE ALIGNMENT PRECLUDES THE USE OF THE ABOVE APPROVED WATERTIGHT METHODS, CONSEAL 231 WATERSTOP SEALANT OR APPROVED EQUAL WILL ONLY BE ALLOWED AS APPROVED BY THE ENGINEER.
- ALL STORMWATER MANAGEMENT AREAS SHALL BE KEPT OFF-LINE UNTIL DISTURBED AREAS ARE RESTORED. IF THIS IS NOT POSSIBLE, SYSTEMS MUST BE CLEANED OUT PRIOR TO CERTIFICATE OF OCCUPANCY.
- SEE SHEET C502 FOR UNDERGROUND STORMWATER MANAGEMENT NOTES AND REQUIREMENTS.

CLOW BERG

Kimley»Horn

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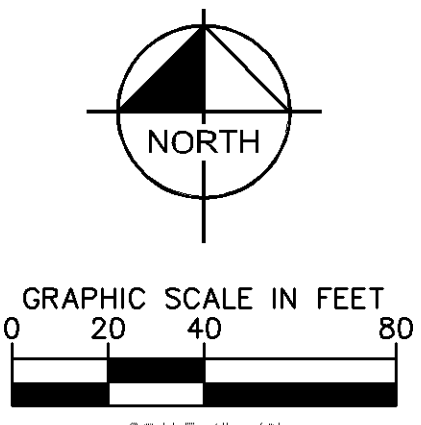
phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

SICK - CAMPUS USA
PHASE I

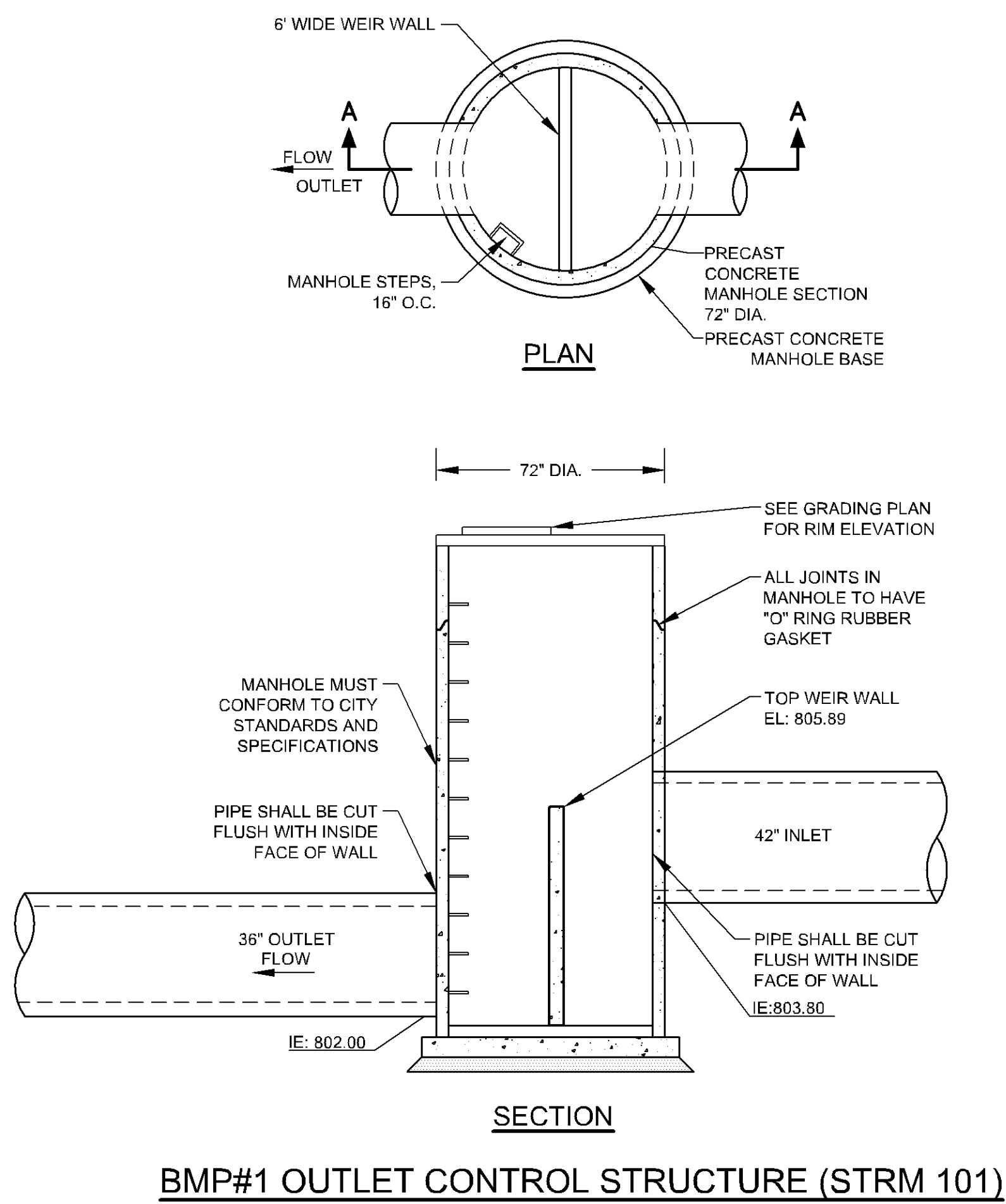
STORMWATER MANAGEMENT
PLAN

sheet number

C501



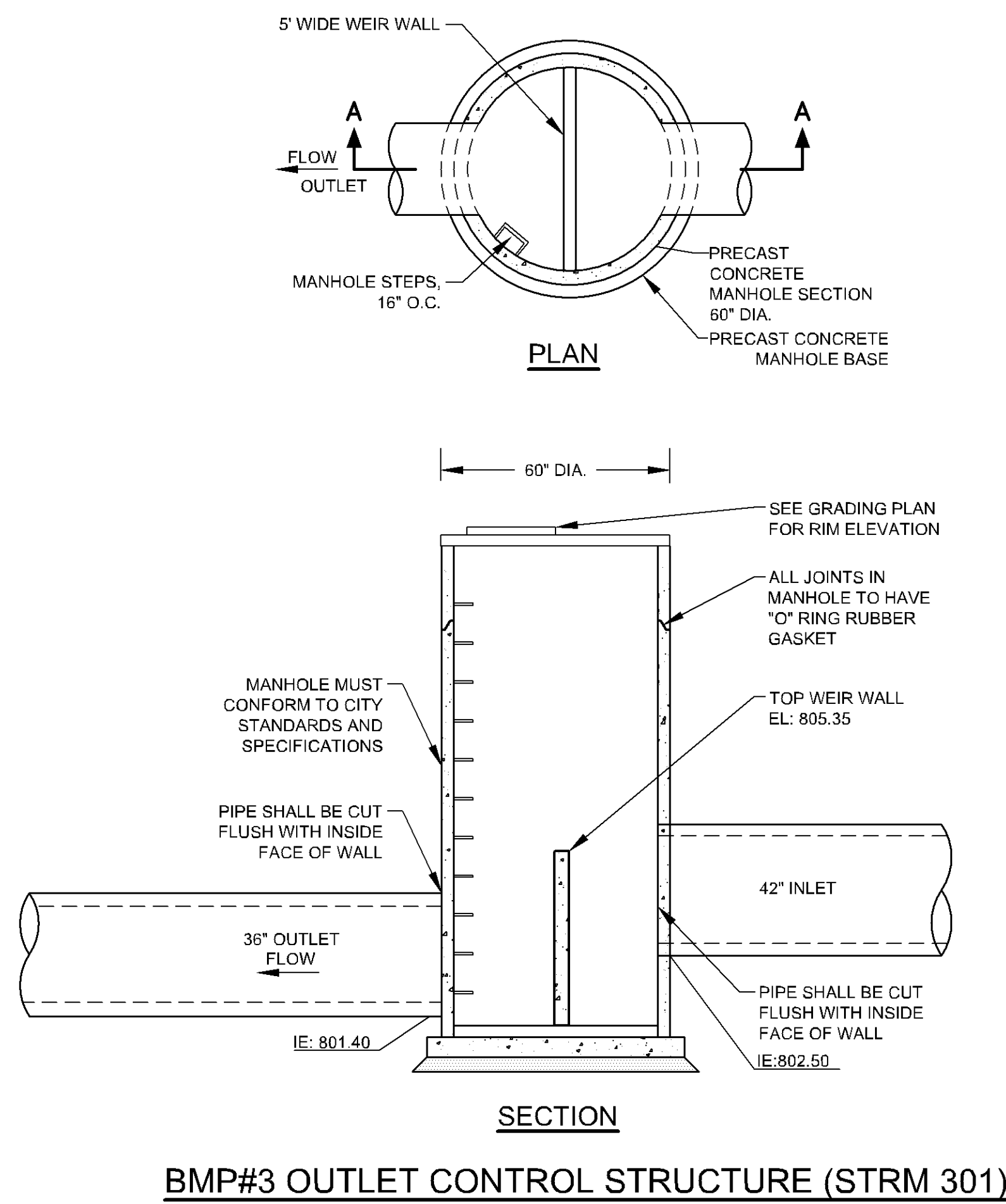
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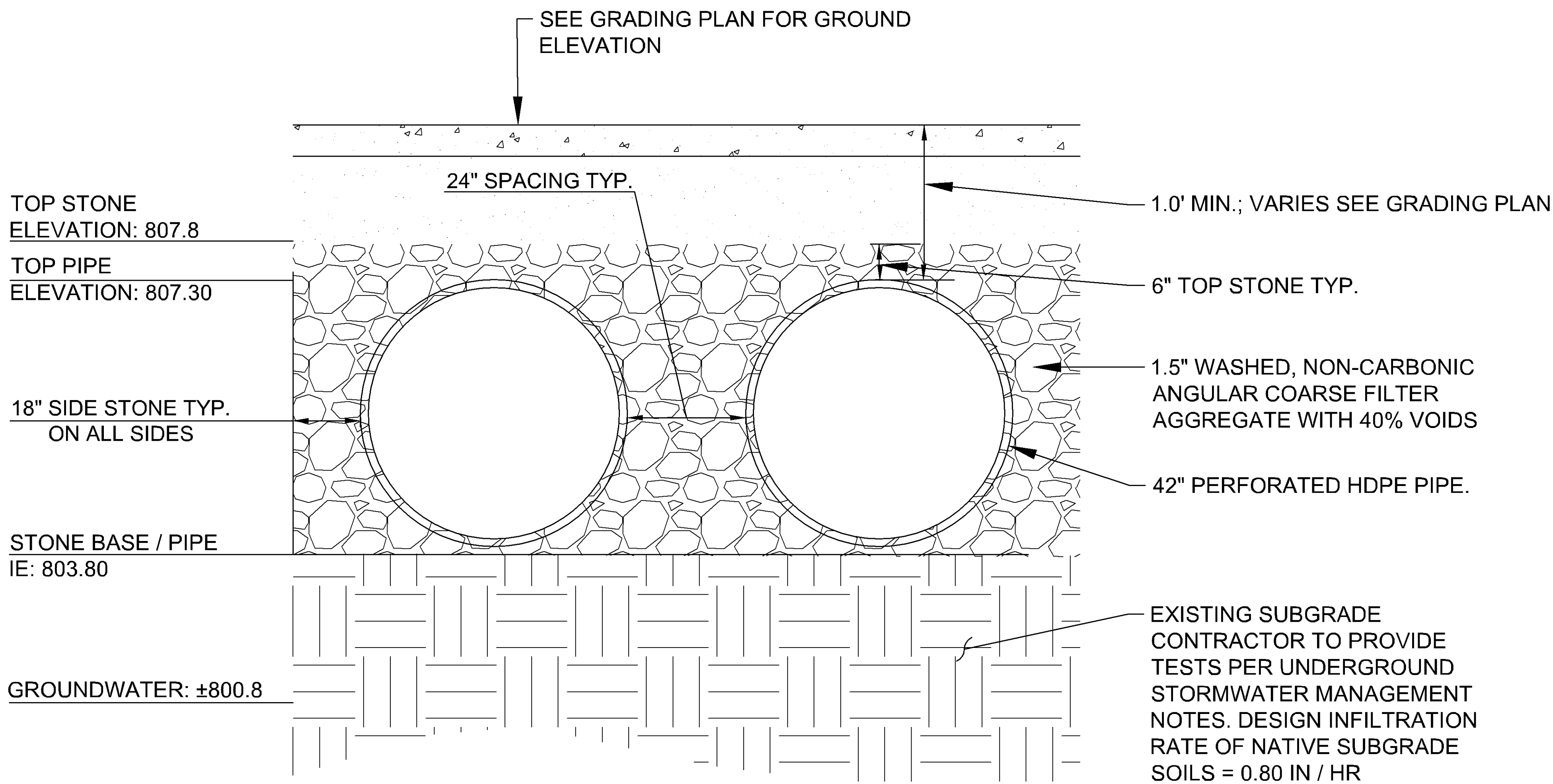
BMP#1 OUTLET CONTROL STRUCTURE (STRM 101)

UNDERGROUND STORMWATER MANAGEMENT NOTES

- CONTRACTOR TO PROVIDE (2) DOUBLE RING INFILTROMETER TESTS WITHIN THE UNDERGROUND SYSTEM EXCAVATION PRIOR TO INSTALLATION OF THE UNDERGROUND SYSTEM. THE CONTRACTOR SHALL PROVIDE THE RESULTS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE UNDERGROUND SYSTEM.
- CONTRACTOR SHALL OVER-EXCAVATE ALL FILL AS NECESSARY TO NATIVE POORLY GRADED SANDY SOILS. EXCAVATION SHALL BE REPLACED WITH SUITABLE ENGINEERED FILL MEETING THE MNDOT SPECIFICATION FOR COARSE FILTER AGGREGATE PER SECTION 3148.2H. DEPTHS OF FILL/URBAN FILL EXPECTED TO VARY. CONTRACTOR SHALL VERIFY DEPTHS OF EXCAVATION AND PERFORM INFILTROMETER TESTS PRIOR TO INSTALLING UNDERGROUND SYSTEM.
- IF NATIVE SUBGRADE SOILS BELOW FILL ARE DETERMINED TO NOT BE CONDUCTIVE TO THE DESIGN INFILTRATION REQUIREMENTS, THE CONTRACTOR SHALL REMOVE AND REPLACE THE POORLY INFILTRATING SOILS TO A DEPTH WHERE THE EXISTING NATIVE SUBGRADE SOILS MEET OR EXCEED THE DESIGN INFILTRATION RATE AS REVIEWED BY THE ENGINEER.
- UPON COMPLETION OF THE STORMWATER BMP AND FINAL STABILIZATION OF THE TRIBUTARY DRAINAGE AREA, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION THE BMP AFTER A SIGNIFICANT RAIN EVENT THAT SHOWS THE BMP'S DRAWS DOWN WITHIN 48 HOURS.
- NO CONSTRUCTION EQUIPMENT SHALL TRAVEL WITHIN THE UNDERGROUND INFILTRATION SYSTEM AREA. USE EXCAVATOR WITH TOOTHED BUCKET FOR INFILTRATION BASIN EXCAVATION TO AVOID COMPACTING OR SMEARING OF SOILS.
- FINAL EXCAVATION OF UNDERGROUND INFILTRATION SYSTEM AREA AND INSTALLATION OF ENGINEERED SOIL MUST OCCUR IN DRY SOIL CONDITIONS TO PREVENT SMEARING AND COMPACTION. DO NOT WORK IN INFILTRATION SYSTEM AREA IF SOIL CONDITIONS ARE WET.
- IMMEDIATELY FOLLOWING SYSTEM CONSTRUCTION, THE EXCAVATION FOR THE TRENCH SHALL BE IMMEDIATELY BACKFILLED WITH APPROVED BACKFILL MATERIAL PER MANUFACTURER'S RECOMMENDATION. OR THE EXCAVATION SHALL BE PROTECTED WITH SILT FENCE AND OR BIO-ROLLS SUCH THAT ON-SITE SOILS DO NOT ENTER THE TRENCH EXCAVATION AND CLOG UP THE BOTTOMSIDES OF THE TRENCH LIMITING THE INFILTRATION CAPACITY OF THE UNDERGROUND SYSTEM.
- IF ANY SOILS ENTER THE TRENCH PRIOR TO BACKFILLING, THE CONTRACTOR SHALL REMOVE SOILS AND CONFIRM THE INFILTRATION CAPACITY OF THE NATIVE SUBGRADE SOILS IS MET WITH INFILTROMETER TESTS.
- CONTRACTOR SHALL COORDINATE AND COMPLETE CERTIFIED AS-BUILT PLANS DEMONSTRATING ALL CONSTRUCTED STORMWATER CONVEYANCE STRUCTURES, AND STORMWATER MANAGEMENT FACILITIES (INCLUDING AS-BUILT VOLUMES) CONFORM TO DESIGN AND/OR PLANS AS APPROVED BY THE CITY.
- STORMWATER MANAGEMENT AREAS TO BE KEPT OFF-LINE UNTIL DISTURBED AREAS ARE RESTORED. IF NOT POSSIBLE, SYSTEMS MUST BE CLEANED OUT PRIOR TO CERTIFICATE OF OCCUPANCY.

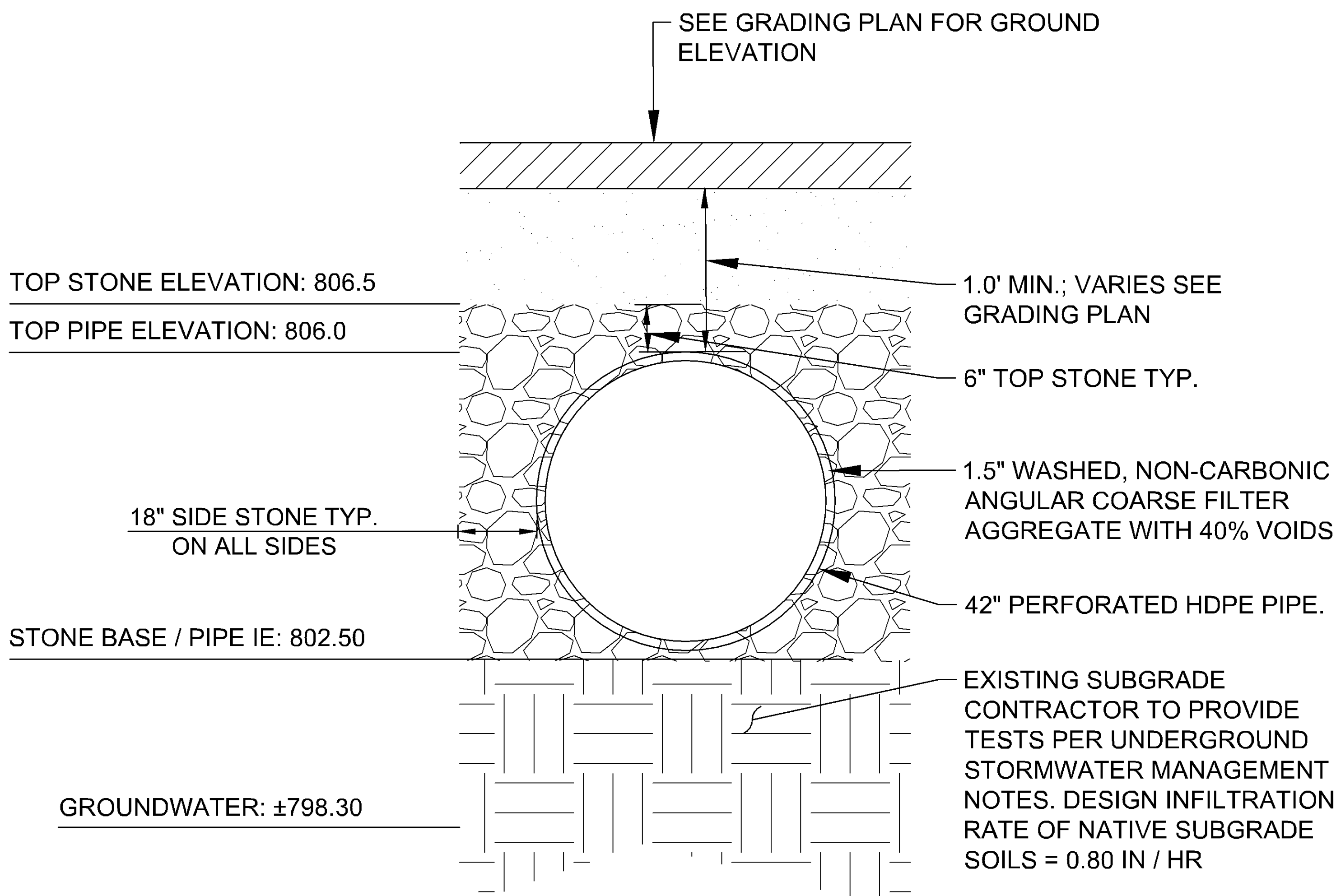


BMP#3 OUTLET CONTROL STRUCTURE (STRM 301)



BMP #1
UNDERGROUND INFILTRATION SYSTEM DETAILS
NOT TO SCALE

- NOTES:
- ALL HDPE CONNECTIONS SHALL BE MADE WITH WATERTIGHT MATERIALS.
 - THE CONTRACTOR SHALL TAKE CARE TO PREVENT SEDIMENT AND DEBRIS FROM CLOGGING THE PORE SPACE IN THE COARSE FILTER AGGREGATE.



BMP #3
UNDERGROUND INFILTRATION SYSTEM DETAILS
NOT TO SCALE

- NOTES:
- ALL HDPE CONNECTIONS SHALL BE MADE WITH WATERTIGHT MATERIALS.
 - THE CONTRACTOR SHALL TAKE CARE TO PREVENT SEDIMENT AND DEBRIS FROM CLOGGING THE PORE SPACE IN THE COARSE FILTER AGGREGATE.

phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160687009
project name

SICK - CAMPUS USA
PHASE 1

drawing GRADING AND DRAINAGE
DETAILS

sheet number
C502

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[illegible]

COVER PIPE CONNECTION TO END CAP WITH ADS
DESIGN THE LEFT HAND SIDE OF THE ISOLATOR

COVER PIPE

OPTIONAL INSPECTION PORT

MC3500 END CAP

MC3500 CHAMBER

**TWO LAYERS OF ADS GEOGRID WITH 3/8\"/>

CATCH BASIN OR MANHOLE

**24\"/>

**24\"/>

MC3500 ISOLATOR ROW DETAIL
NTE

STORMTECH HIGHLY RECOMMENDS FLEXSTORM PIPES INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

**SUMP DEPTH TIED BY SITE DESIGN ENGINEER (24\"/>

**24\"/>

MC3500 ISOLATOR ROW DETAIL
NTE

STORMTECH HIGHLY RECOMMENDS FLEXSTORM PIPES INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

**SUMP DEPTH TIED BY SITE DESIGN ENGINEER (24\"/>

**24\"/>

MC3500 ISOLATOR ROW DETAIL
NTE**************

The image contains two technical drawings. The left drawing is a cross-section of a standard manhole. It shows a circular manhole with a diameter specified as 'DIA. AS SPECIFIED'. The manhole is constructed from 'MN/DOT S.P. 4010' and 'MN/DOT S.P. 4011' pre-cast sections. A '27" ADJUSTING RINGS AS NEEDED (6" MIN. TO 12" MAX.)' are shown at the top. A '12" TOP SECTION REQUIRED' is indicated. The manhole is surrounded by 'PRECAST REINFORCED CONCRETE SECTIONS AS NEEDED'. A 'MN/DOT S.P. 4020 OFFSET HOLE COVER' is shown on top. An 'O-RING GASKET OR BITUMASTIC MATERIAL AT EACH BUTTED JOINT SURFACE' is indicated. A 'BREAKOUT TOP HALF PIPE GROUT AROUND PIPE & FORM INVERT AS SHOWN' is shown at the bottom. The right drawing is a cross-section of an 'UNDERGROUND FILTRATION TYPICAL SECTION'. It shows a 'STORM 202 OUTLET CONTROL STRUCTURE' with a 'STORMTECH END CAP'. A 'PRECAST WEIR WALL, TOP WALL EL. 805.20' is shown. A '18" OUTLET PIPE (IE: 801.50)' is shown. A '2.0' DEPTH SAND SHALL MEET M.S. SPECIFICATION FOR COARSE FILTER AGGREGATE PER 3140-29' is shown. A 'PROVIDE IMPERMEABLE LINER SEPERATE SUBGRADE/GROUNDWATER, LINER AND ASTM D-624; PROVIDE GEOTE' is shown. A 'CONNECT 6" DRAINILE TO OCS ON DOWNSTREAM SIDE OF WEIR WALL, IE: 801.50' is shown. The drawing is labeled 'BMP #2' and 'ADS STORMTECH MC-3500'.

**STANDARD MANHOLE
DESIGN SPEC X, X & X**

**UNDERGROUND FILTRATION TYPICAL SECTION
ADS STORMTECH MC-3500**

PLAN

FLOW 18" INLET

FLOW 18" OUTLET

MANHOLE STEPS, 16" O.C.

PRECAST CONCRETE MANHOLE SECTION 48" DIA.

PRECAST CONCRETE MANHOLE BASE

PHASE

PRE-DRG 02/29/2021

date

drawn by LEC

checked by WDM

project number 160687009

project name

SICK - CAMPUS USA PHASE 1

TOP STONE : 809.00

TOP CHAMBER : 808.00

PROVIDE GEOTEXTILE FABRIC AROUND PERIMETER OF STONE AND SAND PER ADS REQUIREMENTS

WATER QUALITY VOLUME DEPTH IE: 805.20, WQV PROVIDED BELOW 6,654 CF

CHAMBER IE : 804.25

TOP SAND/STONE IE: 803.50

STONE TO MEET ADS STORMTECH MANUFACTURED RECOMMENDATIONS.

NO LIMESTONE (OR RECYCLED CONCRETE) MATERIAL IS ALLOWED BENEATH, BETWEEN OR IMMEDIATELY ON TOP OF THE CHAMBER SYSTEM

SAND/DRAINLITE IE: 801.50

6" PVC SCHEDULE 40 DRAINLITE. SEE DRAINLITE BEDDING DETAIL.

ATION FROM SAND MEDIA AND EXISTING

0 BE 30 MIL AND MEET ASTM D-4853, ASTM D-412,

E FABRIC TO PROTECT LINER FROM PUNCTURE

CONSTRUCTION

PRELIMINARY - NOT FOR CONSTRUCTION

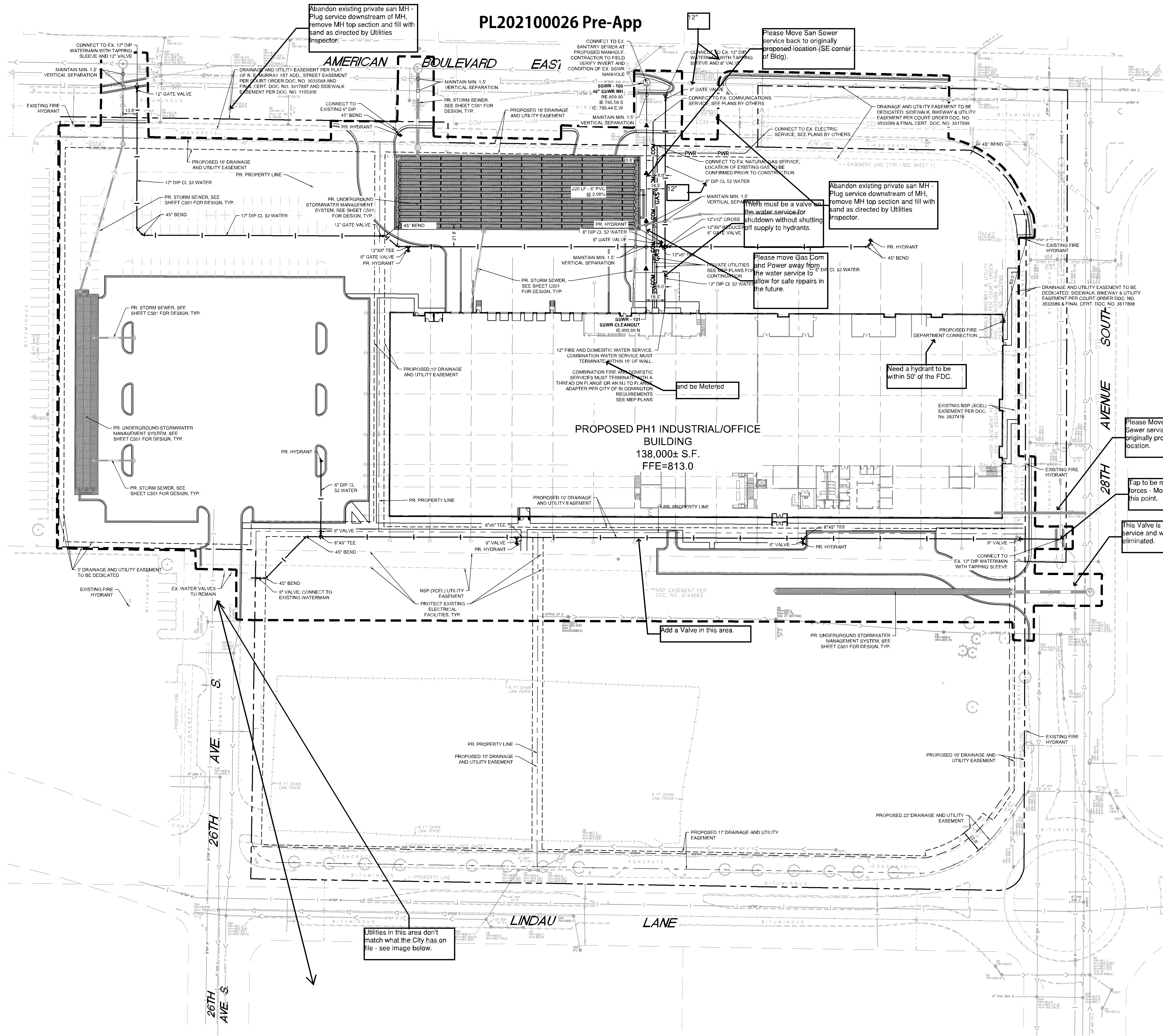
GRADING AND DRAINAGE DETAILS

sheet 950

sheet number

C503

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LEGEND	
	PROPOSED TEE
	PROPOSED GATE VALVE
	PROPOSED HYDRANT
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED SANITARY CLEANOUT
	PROPOSED WATERMAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM SEWER
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED TELEPHONE
	PROPOSED GAS MAIN
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING WATERMAIN
	EXISTING COMMUNICATIONS CABLE
	EXISTING STORM MANHOLE / STORM CATCHBASIN / SANITARY MANHOLE
	EXISTING STORM CATCHBASIN (ON CURB)
	EXISTING GATE VALVE
	EXISTING HYDRANT
	EXISTING ELECTRICAL TRANSFORMER
	EXISTING COMMUNICATIONS BOX
	EXISTING LIGHT POLE

- UTILITY PLAN NOTES**
1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 2. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
12" PVC SDRW, SCHEDULE 40, OR EQUIVALENT PER ASTM D 3034
16" PVC SDRW, SCHEDULE 40, OR EQUIVALENT PER ASTM D 3034
18" PVC SCHEDULE 40
DUCTILE IRON PIPE PER AWWA C150
 3. WATER LINES SHALL BE AS FOLLOWS:
8" AND LARGER DUCTILE IRON PIPE PER AWWA C150
12" AND SMALLER USE CLASS 52 DIP
A MINIMUM OF 8 MIL POLYWRAP IS REQUIRED ON ALL DIP
 4. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 5. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
 6. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 14" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
 7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 8'-0" COVER ON ALL WATER LINES.
 8. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE 5'-0" TO 4'-0" OR 6'-0" WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
 9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 10. TOPS OF EXISTING MANHOLES SHALL BE BASED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS, IN GREEN AREAS, WITH WATERTIGHT LIDS.
 11. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 13. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 14. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 15. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES.
 16. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 17. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 18. BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES) AND METERS ARE LOCATED IN THE INTERIOR OF THE BUILDING. REF. ARCH PLANS.
 19. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES BLOCKING WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
 20. ALL ON-SITE WATERMANS AND SANITARY SEWERS SHALL BE PRIVATELY OWNED AND MAINTAINED.
 21. ALL WATERMAIN STUBOUTS SHALL BE MECHANICALLY RESTRAINED WITH REACTION BLOCKING.
 22. HOPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES MUST BE MADE WITH WATER TIGHT MATERIALS UTILIZING AN A-1 OK OR WATERSTOP GASKET OR ROOT, CAST-IN-PLACE RUBBER ROOT, OR APPROVED EQUAL.
 23. TAPS OF LIVE WATER MAINS ARE DONE BY CITY FORCES AND PAID FOR AND COORDINATED WITH THE CONTRACTOR.
 24. UTILITY AND MECHANICAL CONTRACTORS MUST COORDINATE THE INSTALLATION OF ALL WATER AND SEWER SERVICE PIPES INTO THE BUILDING TO ACCOMMODATE CITY INSPECTION AND TESTING.
 25. ALL COMPONENTS OF THE WATER SYSTEM, UP TO THE WATER METER OR FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE INTERNAL COATINGS MEETING CURRENT AND AWWA STANDARDS FOR CEMENT MORTAR LINING OR SPECIAL COATINGS. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED.
 26. ALL UNUSED WATER SERVICES MUST BE PROPERLY ABANDONED AT THE MAIN. ALL UNUSED SANITARY SEWER SERVICES MUST PROPERLY ABANDONED AT THE PROPERTY LINE.
 27. UTILITY PERMITS ARE REQUIRED FOR CONNECTIONS TO THE PUBLIC STORM, SANITARY, AND WATER SYSTEM. CONTACT CITY OF BLOOMINGTON UTILITIES DIVISION (855-563-8777) FOR PERMIT INFORMATION.
 28. RESTORE UTILITY TRENCHES PER STANDARDS LISTED IN ARTICLE 5, CH. 17 OF THE BLOOMINGTON CITY CODE (SEE UTILITY DETAILS).
 29. INTERIOR CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY MANHOLES.

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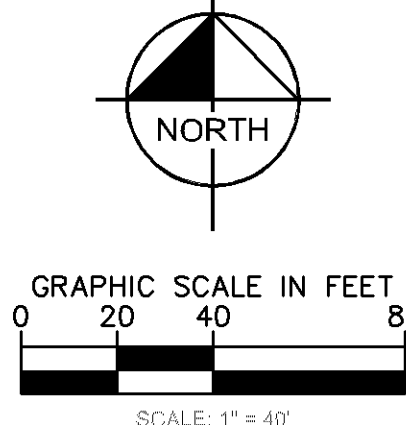
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

WILLIAM D. MATZEK, P.E.
DATE: _____ MIN. LIC. NO. 43790

phase PRE-DRG
date 02.09.2021
drawn by LEC
checked by WDM
project number 160897009
project name

SICK - CAMPUS USA
PHASE 1

PRELIMINARY - NOT FOR CONSTRUCTION



UTILITY PLAN

Sheet Number

C600

