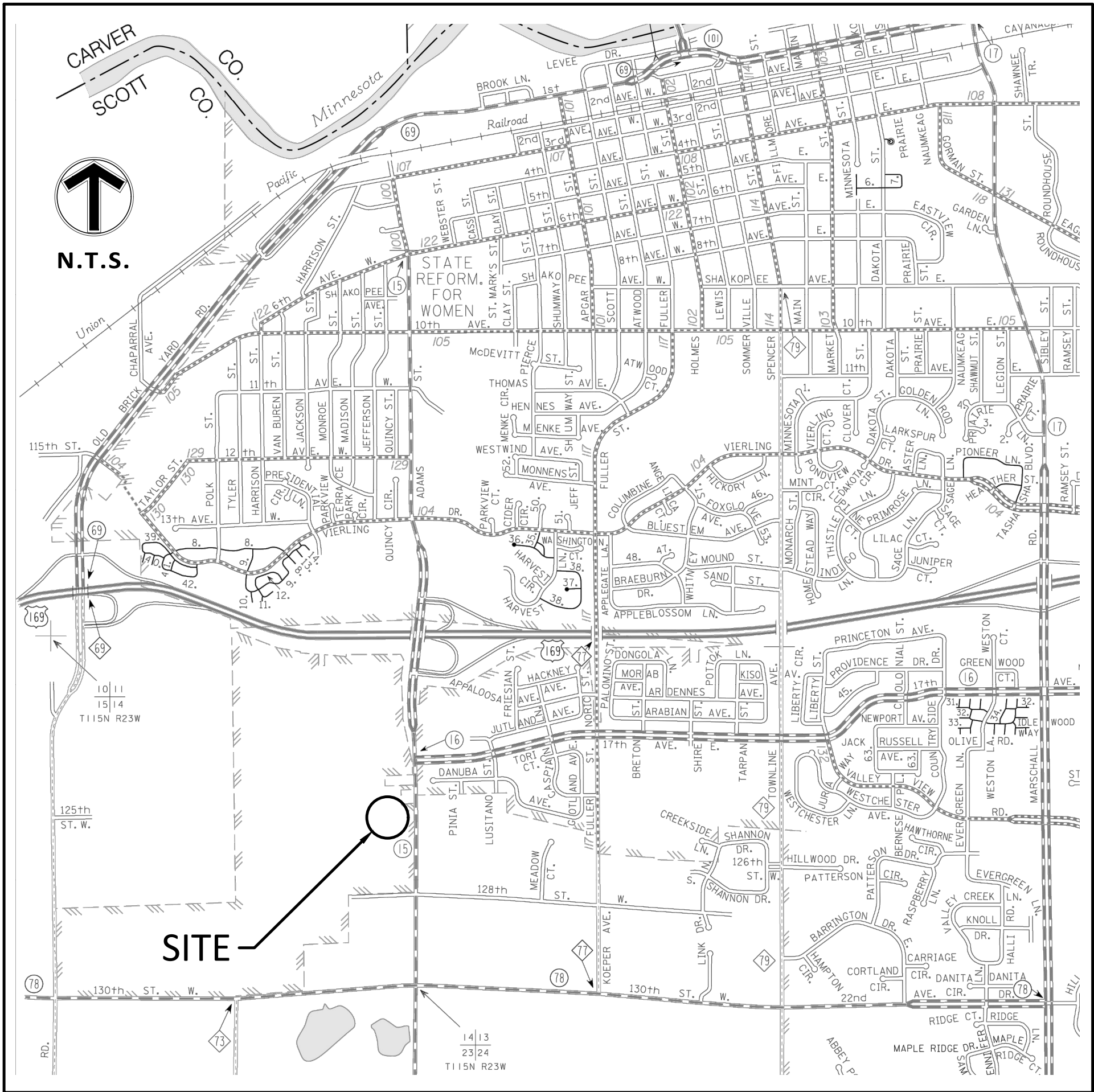


Construction Plans for Windermere Booster Station and Pump House

PROJECT NO. 2018-1
Shakopee, Minnesota
Prepared for:
Shakopee Public Utilities



VICINITY MAP
NO SCALE

BENCHMARKS	
BM NO. 1 - TBD	
BM NO. 2 - TBD	

GOVERNING SPECIFICATIONS

PERFORM CONSTRUCTION IN ACCORDANCE WITH THE OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) LAWS AND REGULATIONS. REFER TO PLANS FOR CIVIL, ARCHITECTURAL AND ELECTRICAL CODE AND SPECIFICATION REQUIREMENTS.

EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER ONE CALL (800) 252-1166 IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION

GOPHER ONE CALL TICKET NO. 170750716 WAS UTILIZED DURING SITE DESIGN.

SHEET INDEX	
SHEET	DESCRIPTION
	CIVIL
C1.01	TITLE SHEET
C1.02	ALTA/NSPS LAND TITLE SURVEY (INCLUDED AS A SEPARATE DOCUMENT)
C1.03	VICINITY PLAN AND GENERAL NOTES
C2.01	SITE PLAN
C3.01	GRADING PLAN OVERVIEW
C3.02	BUILDING AND PAVEMENT GRADING PLAN
C4.01	UTILITY PLAN
C5.01	EROSION CONTROL PLAN
C5.02	EROSION CONTROL NOTES & DETAILS
C6.01	BOOSTER STATION MECHANICAL KEY PLAN
C6.02	BOOSTER STATION INTERIOR LAYOUT PLAN
C7.01	PUMP HOUSE MECHANICAL KEY PLAN
C7.02	PUMP HOUSE INTERIOR LAYOUT PLAN
C8.01	PROCESS PIPING SECTION ELEVATIONS
C8.02	PROCESS PIPING DETAILS
C9.01	SITE PLAN DETAILS
L1.01	LANDSCAPE PLAN
L1.02	LANDSCAPE NOTES & DETAILS
	ARCHITECTURAL (NOT IN SUBMITTAL)
A1.1	GENERAL NOTES & CODE REVIEW
A2.1	1/4" PLAN
A2.2	1/4" PLAN
A2.3	DOORS & DETAILS
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING ELEVATIONS
A4.1	BUILDING SECTIONS
A4.2	BUILDING SECTIONS
A5.1	NOT USED
A6.1	DETAILS
A6.2	DETAILS
A6.3	DETAILS
A6.4	MASONRY BEST PRACTICES
	STRUCTURAL (NOT IN SUBMITTAL)
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	GENERAL NOTES
S1.1	GRADE BEAM PLAN
S1.2	FOUNDATION PLAN
S1.3	ROOF FRAMING
S2.1	BUILDING SECTIONS
S2.2	BUILDING SECTIONS
	ELECTRICAL (NOT IN SUBMITTAL)
E1.1	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.2	ELECTRICAL SITE PLAN
E1.3	GENERAL ELECTRICAL FLOOR PLAN
E1.4	PROCESS ELECTRICAL FLOOR PLAN
E2.1	ELECTRICAL ONE-LINE DIAGRAM
E2.2	BOOSTER STATION CONTROL PANEL SCHEMATIC
E2.3	BOOSTER STATION CONTROL PANEL SCHEMATIC
E2.4	WATER STORAGE TANK CONTROL PANEL SCHEMATIC
E3.1	ELECTRICAL DETAILS
E3.2	ELECTRICAL SCHEDULES AND SCHEMATICS
	MECHANICAL (NOT IN SUBMITTAL)
M1	MECHANICAL FLOOR PLAN

Client



SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN. 55379
TELEPHONE: 952-445-1988

UTILITIES MANAGER: JOHN CROOKS
PLANNING & ENGINEERING DIRECTOR: JOE ADAMS P.E.
WATER SUPERINTENDENT: LON SCHEMEL



Sambatek
www.sambatek.com

12800 Whitewater Drive, Suite 300
Minnetonka, MN 55343
763.476.6010 telephone
763.476.8532 facsimile

Engineering | Surveying | Planning | Environmental

PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WINDERMERE
BOOSTER
STATION AND
PUMP HOUSE

Location
SHAKOPEE, MN
BENTON DRIVE

Certification

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.

John Karwacki
Registration No. 16532 Date: XX/XX/2018
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

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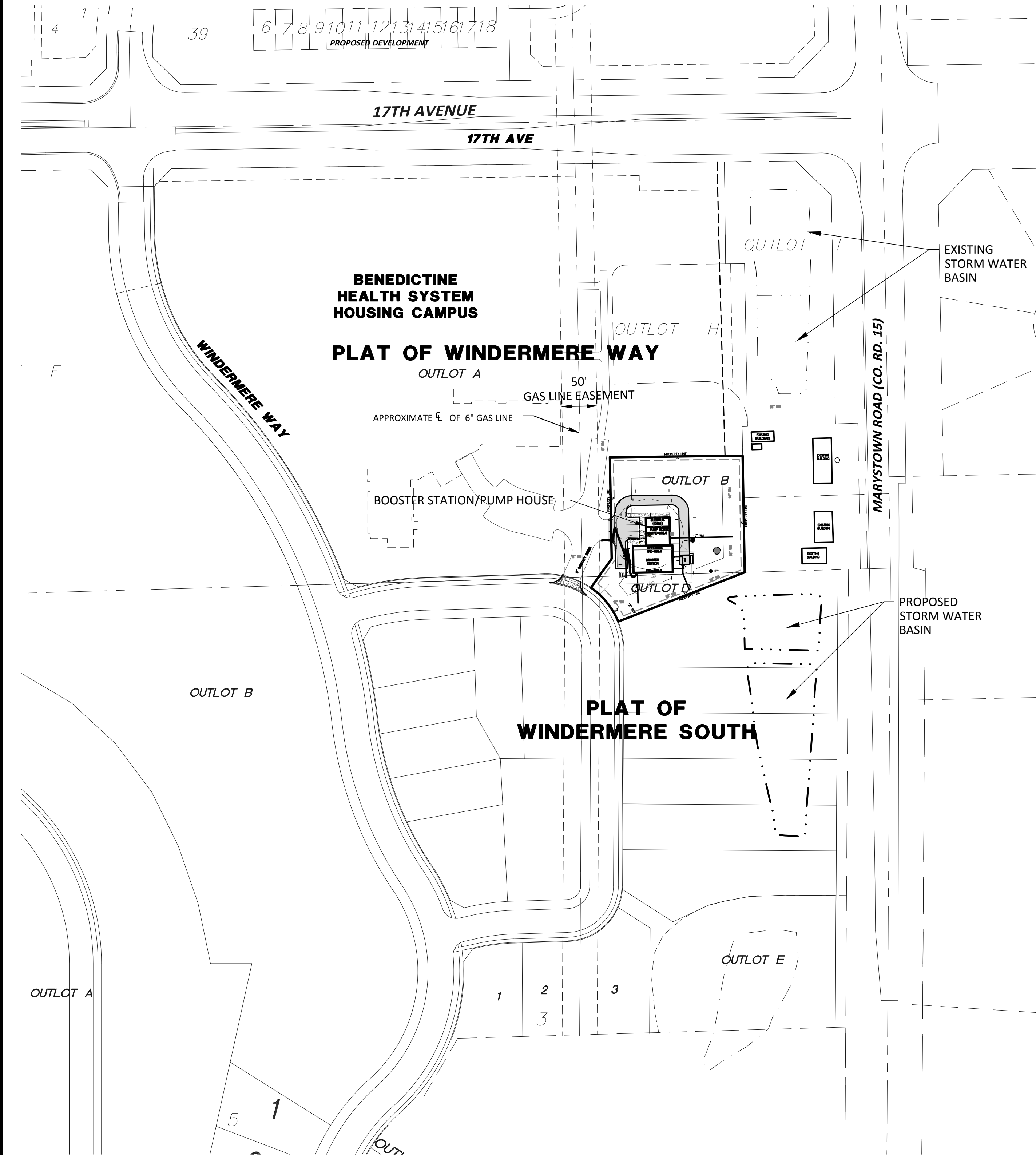
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City CUP
Application
Submittal
AUGUST 16, 2018

Sheet Title
TITLE SHEET

Sheet No. Revision
C1.01

Project No. 20709



VICINITY PLAN

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CONSULTANT CONTACT LIST:

OWNER
SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN 55379-0470
TEL 952-445-1988
FAX 952-445-7767
CONTACT: LON SCHEMEL

ARCHITECT
JAY P. NELSON ARCHITECT
7601 WAYZATA BOULEVARD., SUITE 250
ST. LOUIS PARK, MN 55426
TEL 612-812-4628
CONTACT: JAY NELSON

ELECTRICAL ENGINEER
BARR ENGINEERING, COMPANY
4700 WEST 77TH STREET
MINNEAPOLIS, MN 55435
TEL 952-832-2600
FAX 952-832-2601
CONTACT: STUART STEPHENS

MECHANICAL ENGINEER
SKARGES-FALCONBRIDGE, INC.
670 COUNTY ROAD B WEST
ST. PAUL, MN 55113
TEL 651-254-6934
CONTACT: DAN SIEBEN

CIVIL ENGINEER
SAMBATEK
12800 WHITEWATER DRIVE, SUITE 300
MINNETONKA, MN 55343
TEL 763-476-6010
FAX 763-476-8532
CONTACT: JOHN KARWACKI

SURVEYOR
SAMBATEK
12800 WHITEWATER DRIVE, SUITE 300
MINNETONKA, MN 55343
TEL 763-476-6010
FAX 763-476-8532
CONTACT: JASON LEMPOLA

LANDSCAPING
SAMBATEK
12800 WHITEWATER DRIVE, SUITE 300
MINNETONKA, MN 55343
TEL 763-476-6010
FAX 763-476-8532
CONTACT: BILL DELANEY

UTILITY & GOVERNING AGENCIES CONTACT LIST:

CITY ENGINEER/PUBLIC WORKS
500 GORMAN ST.
SHAKOPEE, MN 55379
TEL 952-233-9369
FAX 952-233-3803
CONTACT: N/A

PUBLIC SAFETY
475 GORMAN STREET
SHAKOPEE, MN 55379
TEL 952-233-9400
EMERGENCY TEL 911
CONTACT: N/A

BUILDING INSPECTOR
129 HOLMES STREET SOUTH
SHAKOPEE, MN 55379
TEL 952-233-9333
CONTACT: DAVE KRIESEL

FIRE
2700 VIERLING DRIVE
SHAKOPEE, MN 55379
TEL 952-233-9570
EMERGENCY TEL 911
CONTACT: TOM PITTSCHNEIDER,
FIRE MARSHAL

ELECTRIC COMPANY
SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN 55379-0470
TEL 952-445-1988
FAX 952-445-7767
CONTACT: GREG DRENT

NATURAL GAS COMPANY
XCEL ENERGY
ADDRESS 2
TEL 320-656-2407
CONTACT: PETE CLUEVER

UTILITY LOCATION
MINNESOTA
GOPHER STATE ONE CALL
(800) 252-1166

GENERAL NOTES

- A. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST TENTH FOOT.
- B. ALL AREAS ARE ROUNDED TO THE NEAREST SQUARE FOOT.
- C. REFER TO ALTA/NSPS SURVEY FOR PROPERTY DIMENSIONS AND EXISTING SURVEY INFORMATION.
- D. 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 COMPANY AT LEAST 48 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. THE LOCATIONS OF SMALL UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR, BY CALLING GOPHER STATE ONE CALL AT 1-800-252-1166.
- E. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- F. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- H. TEMPORARY CONSTRUCTION ACCESS TO BE OBTAINED FROM WINDERMERE WAY AND WINDERMERE SOUTH STREETS.
- I. CONSTRUCTION WITHIN THE CITY & COUNTY RIGHT-OF-WAY REQUIRES A PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND SCHEDULING REQUIRED INSPECTIONS.
- J. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIRING TO ANY ROADWAY DETERIORATION ON WINDERMERE WAY AND WINDERMERE SOUTH STREETS, CAUSED BY CONSTRUCTION ACTIVITY. BREAKUP, ALLIGATOR CRACKING OR RUTTING SHALL BE REPAIRED BY BITUMINOUS PATCHING AS DIRECTED BY THE ENGINEER. REPAIRS TO MATCH THE EXISTING PAVEMENT SECTION.
- K. REFER TO SHEETS C3.01 - C3.02 FOR GRADING AND DRAINAGE.
- L. REFER TO SHEETS C5.01 - C5.02 FOR EROSION CONTROL (SWPPP) PLANS.
- M. REFER TO SHEET C4.01 FOR WATERMAIN AND STORM SEWER PLAN.
- N. REFER TO SHEETS L1.01 - L1.02 FOR LANDSCAPE PLANS.
- O. PROPERTY, UTILITY AND FUTURE DEVELOPMENT PLAN INFORMATION PROVIDED BY WESTWOOD PROFESSIONAL SERVICES AND DR HORTON, INC.
- P. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- Q. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- R. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
- S.

Client

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255 SARAZIN STREET
SHAKOPEE, MN. 55379
TELEPHONE: 952-445-1988

UTILITIES MANAGER: JOHN CROOKS
PLANNING & ENGINEERING DIRECTOR: JOE ADAMS P.E.
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763.476.6010 telephone
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Engineering | Surveying | Planning | Environmental

PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WINDERMERE
BOOSTER
STATION AND
PUMP HOUSE

Location
SHAKOPEE, MN

BENTON DRIVE

Certification

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.

John Karwacki
Registration No. 16532 Date: XX/XX/2018
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

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AUGUST 16, 2018

Sheet Title
VICINITY PLAN
AND GENERAL
NOTES

Sheet No. Revision
C1.03

Project No. 20709

CONSTRUCTION NOTES

- A. FOR BUILDING CODE INFORMATION, REFER TO ARCHITECTS PLANS.
- B. REFER TO ARCHITECT PLANS FOR BUILDING LAYOUT AND DIMENSIONS.
- C. REFER TO ELECTRICAL PLANS FOR ELECTRICAL SERVICE.
- D. INSTALL SURMOUNTABLE CURB AND GUTTER PER MNDOT SPEC. 2538

LEGEND

	PROPOSED	EXISTING	
PROPERTY LIMIT			
CURB & GUTTER			
EASEMENT			
SETBACK LINE			
BUILDING			
TREE LINE			
SIGN			
PIPE BOLLARD			
KEY NOTE			
ELECTRIC TRANSFORMER			
RIP RAP			
SOIL BORINGS			
STORM SEWER			
			PROPOSED BITUMINOUS PAVING
			PROPOSED CONCRETE SIDEWALK/APRON
			LANDSCAPE MULCH (REFER TO LANDSCAPE PLANS)

DESCRIPTION

PROPOSED CONSTRUCTION:
OUTLOT B, WINDERMERE WAY
OUTLOT D, WINDERMERE SOUTH
ACCORDING TO THE RECORDED PLAT THEREOF, SCOTT COUNTY, MINNESOTA

PROPERTY SUMMARY

- The project will consist of a lot combination of Outlot B, Windermere Way and Outlot D, Windermere South.
- Subject combined property's address is TBD, its property identification number is TBD.
- The gross area of Outlot B and Outlot D is 0.91 Acres or 39,459 Square Feet.
- The subject properties are zoned R4 (OUTLOT B) and R1B (OUTLOT D), per City of Shakopee.
- Total Proposed Project Impervious = 0.21 AC Total Proposed Pervious = 0.70 AC

BENCH MARK

- Bench Mark = TBD

KEY NOTES

- BUILDING, STOOPS AND ENTRANCES - SEE ARCHITECTURAL PLANS
- BITUMINOUS DRIVEWAY: 2" WEAR COURSE SPWEA240B, MNDOT 2360
3" BASE COURSE SPNWB230B, MNDOT 2360
10" CL 5 AGGREGATE, 100% CRUSHED QUARRY STONE, MNDOT 3138
COMPACTED SUBGRADE
- PROPOSED TRANSFORMER
- PROPOSED GENERATOR AND CONCRETE PAD. REFER TO SHEET C4.01 FOR PAD
- REVERSE SURMOUNTABLE CURB. SLOPE TO DRAIN TO PAVEMENT
- CONSTRUCT 5' WIDE CONCRETE SIDEWALK, 5" THICK WITH 6" SAND CUSHION. CONSTRUCT IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATION 2521, BROOM FINISH.
- SCHEDULED CONSTRUCTION 2018-2019 WITH WINDERMERE SOUTH DEVELOPMENT CONSTRUCTION.
- OUTLOTS TO BE COMBINED.
- FINAL APPROVAL AND RECORDING OF PLAT IN PROCESS.
- MONITORING WELL. (DO NOT DISTURB)
- SHARED DRIVEWAY CONSTRUCTION TO BE COORDINATED BETWEEN SPU AND BHS.
- GENERATOR ACCESS DRIVEWAY: 3" WEAR COURSE SPWEA240B, MNDOT 2360
8" CL 5 AGGREGATE, 100% CRUSHED QUARRY STONE, MNDOT 3138
COMPACTED SUBGRADE
- 8" WATERMAIN WITH BHS PROJECT.

Client

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SHAKOPEE, MN. 55379
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PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WINDERMERE
BOOSTER
STATION AND
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Location
SHAKOPEE, MN

BENTON DRIVE

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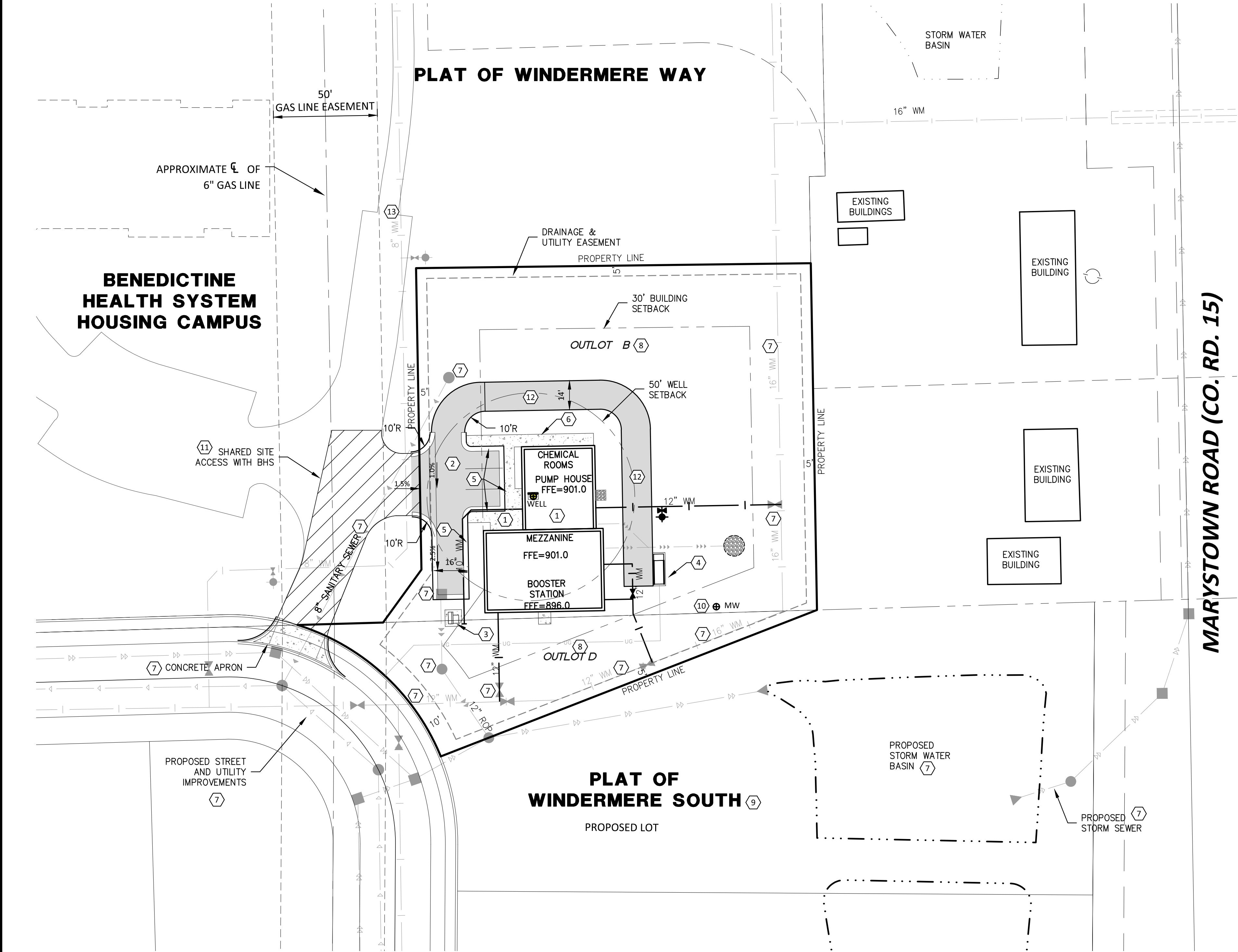
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AUGUST 16, 2018

Sheet Title
SITE PLAN

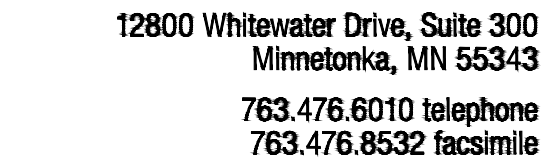
Sheet No. Revision
C2.01

Project No. 20709



SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN. 55379
TELEPHONE: 952-445-1988

UTILITIES MANAGER: JOHN CROOKS
PLANNING & ENGINEERING DIRECTOR: JOE ADAMS P.E.
WATER SUPERINTENDENT: LON SCHEMEL



Engineering | Surveying | Planning | Environmental

PROJECT MANAGER: JOHN KARWACKI P.E.

Location
SHAKOPEE, MN
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Sheet Title

GRADING PLAN

OVERVIEW

C3.01

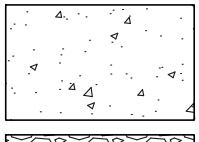
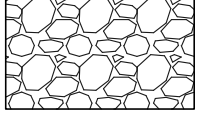
LEGEND

PROPERTY LIMIT	=====	PROPOSED	=====	EXISTING	=====
CURB & GUTTER	=====				
STORM SEWER	⊙	⊙	⊙	⊙	⊙
DRAINTILE	—	—	—	—	—
BUILDING	=====				
RETAINING WALL	=====				
WETLAND LIMITS	=====				
TREELINE	=====				
SPOT ELEVATION	902.5				
CONTOUR	902				
RIP RAP	EOG				
OVERFLOW ELEV.	XXX.X				
SOIL BORINGS	ST. 5				
CONSTRUCTION LIMITS	=====				
ELECTRIC TRANSFORMER	⊗				

PROPOSED ASPHALT PAVING

CONCRETE PAVING

LANDSCAPE MULCH (REFER TO LANDSCAPE PLANS)

GRADING NOTES

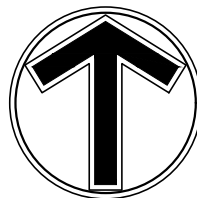
- A. PROPOSED CONTOURS TO FINISHED SURFACE ELEVATION. SPOT ELEVATIONS DENOTE FINISHED GRADE.
- B. THE CONTRACTOR IS CAUTIONED THAT "THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02 TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA AT 1-800-252-1166). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- C. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE DRIVEWAY AND PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
- D. REFER TO EROSION CONTROL SHEETS C5.01, C5.02 FOR EROSION CONTROL MEASURES.
- E. SALVAGE ALL TOPSOIL AND RE-SPREAD TO 6" DEPTH. SUPPLEMENT WITH TOPSOIL BORROW (MNDOT 3872).
- F. THE GRADING PLAN EARTHWORK WILL NOT BALANCE. STOCKPILE MATERIAL TO COMPLETE THE FINISHED SITE GRADING AND REMOVE AND DISPOSE OF THE EXCESS MATERIAL OFF-SITE.
- G. REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAS BECOME UNSUITABLE AND WILL NOT PASS A TEST ROLL. REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER. ALL AREAS OUTSIDE THE PROPERTY BOUNDARIES THAT ARE DISTURBED BY CONSTRUCTION TO BE RESTORED IN KIND.
- H. REFER TO LANDSCAPE PLANS FOR TURF RESTORATION, LANDSCAPING AND IRRIGATION. SHEETS L1.1 & L1.2.
- I. SUITABLE GRADING MATERIAL CONSISTS OF ALL SOIL ENCOUNTERED ON THE SITE WITH EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL. STOCKPILE TOPSOIL AND GRANULAR FILL.
- J. SUBGRADE EXCAVATION TO 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 THE EXISTING PAVEMENT.
- K. ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS, BECOMES THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF THE CONSTRUCTION SITE.
- L. COMPLETION OF SITE GRADING OPERATIONS SHALL RESULT IN ALL AREAS BEING GRADED TO 'PLAN FINISH ELEVATION'.
- M. CONTRACTOR IS RESPONSIBLE FOR GRADING AND SLOPING THE FINISHED GROUND SURFACE TO PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSITIVE DRAINAGE. CONTACT ENGINEER IF FIELD ADJUSTMENTS TO GRADING PLANS ARE REQUIRED.
- N. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENT WHICH PROVIDES SMOOTH UNIFORM SLOPES AND POSITIVE DRAINAGE. CONTACT ENGINEER IF FIELD ADJUSTMENTS ARE REQUIRED.
- O. FOR BUILDING FLOOR CONSTRUCTION, REFER TO ARCHITECTS PLANS.
- P. REFER TO UTILITY PLAN SHEET C4.01 FOR STORM SEWER.
- Q. REFER TO PROJECT SPECIFICATIONS FOR BUILDING AND PAVEMENT SUBGRADE AND BASE DENSITY COMPACTION REQUIREMENTS.
- R. REFER TO SHEET C3.02 FOR BUILDING AND PAVEMENT SPOT ELEVATIONS AND CONTOURS.

LANDSCAPE COMPACTION REQUIREMENTS

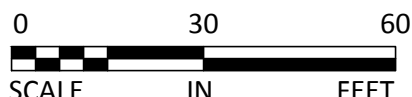
SOIL COMPACTION FOR ALL NON-STRUCTURAL LANDSCAPED AREAS (INCLUDING LANDSCAPING ISLANDS) SHALL BE BETWEEN 75%-80% OF STANDARD PROCTOR (MAXIMUM DRY DENSITY) FOR A MINIMUM OF THE TOP 18" OF SOIL. COMPACTION SAMPLES ARE TO BE TAKEN AFTER FINAL GRADING OF THE SITE IS COMPLETE. RESULTS OF THE COMPACTION SAMPLES ARE TO BE RECEIVED AND APPROVED BY THE NATURAL RESOURCE DEPARTMENT BEFORE INSTALLATION OF LANDSCAPING BEGINS. CONTACT CITY OF SHAKOPEE TO ARRANGE TESTING PRIOR TO FINAL GRADE.

KEY NOTES

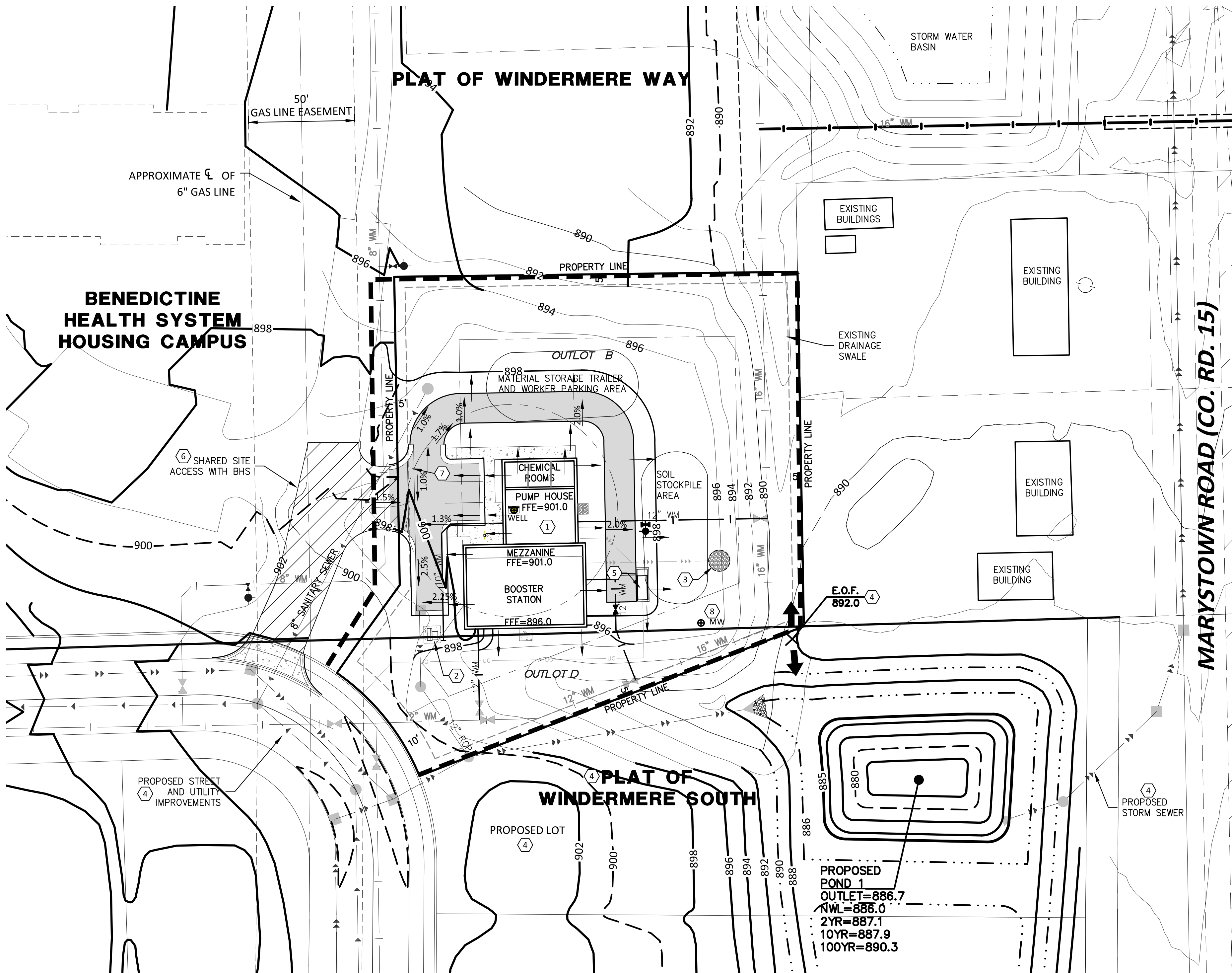
1. FOR BUILDING STOOPS, REFER TO ARCHITECTS PLANS.
2. ELECTRICAL TRANSFORMER PER ELECTRICAL SERVICE, REFER TO ELECTRICAL PLANS.
3. FLOOR DRAIN GRAVEL PIT. 5
C9.01
4. SCHEDULED CONSTRUCTION 2018-2019 WITH WINDERMERE SOUTH DEVELOPMENT CONSTRUCTION BHS PROJECT CONSTRUCTION.
5. PROPOSED GENERATOR AND PAD 3
C9.01
6. SHARED DRIVEWAY CONSTRUCTION TO BE COORDINATED BETWEEN SPU AND BHS PROJECTS.
7. VALLEY GUTTER 7
C9.01
8. MONITORING WELL (DO NOT DISTURB)

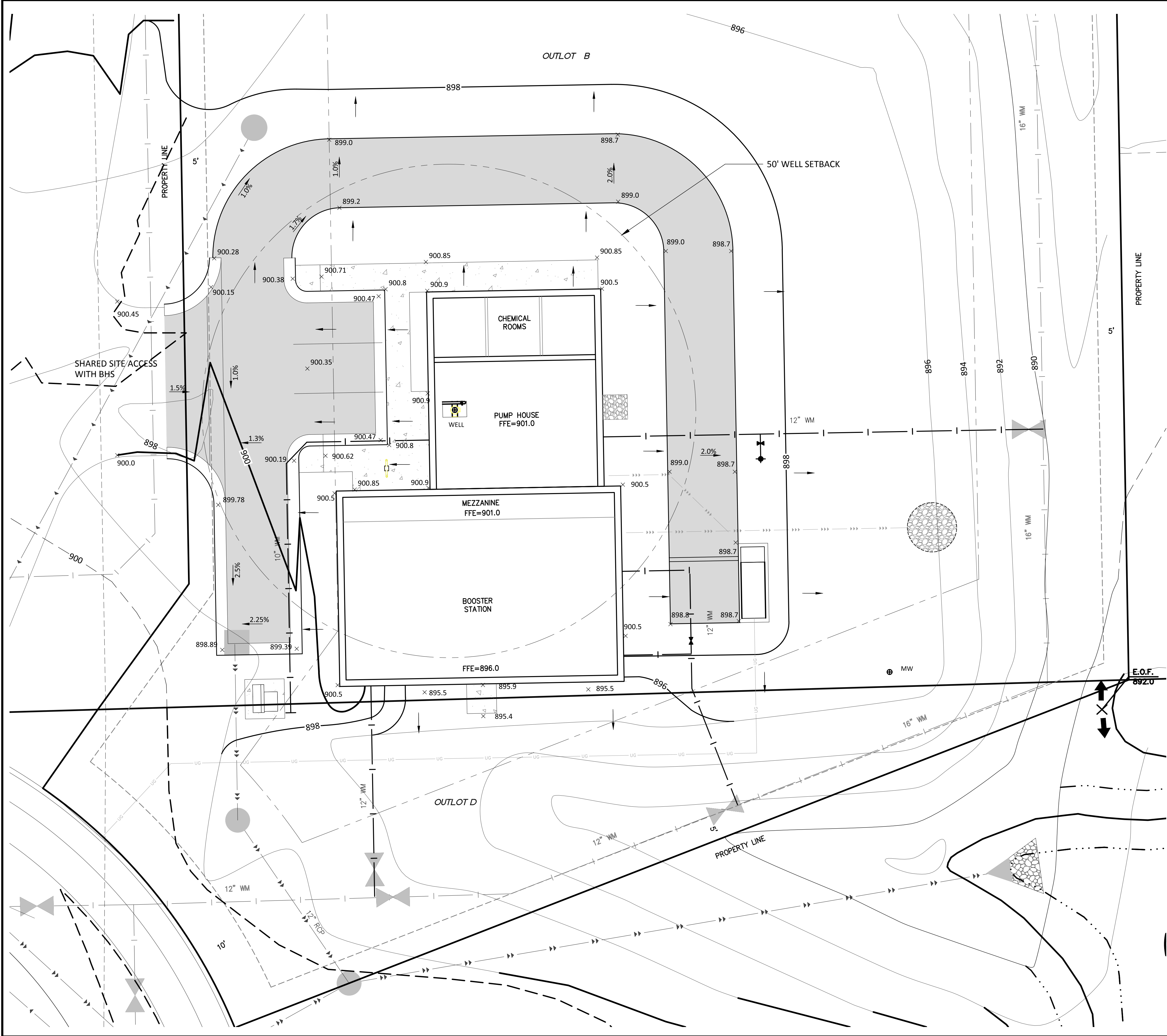


NORTH



0 30 60
SCALE IN FEET





LEGEND

	PROPOSED	EXISTING
PROPERTY LIMIT		
CURB & GUTTER		
STORM SEWER		
DRAINTILE		
BUILDING		
RETAINING WALL		
WETLAND LIMITS		
TREELINE		
SPOT ELEVATION		
CONTOUR		
RIP RAP		
OVERFLOW ELEV.		
SOIL BORINGS		
CONSTRUCTION LIMITS		
ELECTRIC TRANSFORMER		
PROPOSED ASPHALT PAVING		
CONCRETE PAVING		
LANDSCAPE MULCH (REFER TO LANDSCAPE PLANS)		

KEY NOTES

- FOR BUILDING STOOPS, REFER TO ARCHITECTS PLANS.
 - ELECTRICAL TRANSFORMER PER ELECTRICAL SERVICE, REFER TO ELECTRICAL PLANS.
 - FLOOR DRAIN GRAVEL PIT.
 - SCHEDULED CONSTRUCTION 2018-2019 WITH WINDERMERE SOUTH DEVELOPMENT CONSTRUCTION BHS PROJECT CONSTRUCTION.
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 - SHARED DRIVEWAY CONSTRUCTION TO BE COORDINATED BETWEEN SPU AND BHS PROJECTS.
 - VALLEY GUTTER.
 - MONITORING WELL (DO NOT DISTURB)
- REFER TO SHEET C3.01 FOR KEY NOTE LOCATIONS

GRADING NOTES

- A. REFER TO SHEET C3.01 FOR GRADING NOTES.
- B. REFER TO SHEET C3.01 FOR GRADING PLAN OF ENTIRE SITE.

Client

SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN. 55379
TELEPHONE: 952-445-1988

UTILITIES MANAGER: JOHN CROOKS
PLANNING & ENGINEERING DIRECTOR: JOE ADAMS P.E.
WATER SUPERINTENDENT: LON SCHEMEL

Sambatek
www.sambatek.com

12800 Whitewater Drive, Suite 300
Mimnetonka, MN 55343
763.476.6010 telephone
763.476.8532 facsimile

Engineering | Surveying | Planning | Environmental

PROJECT MANAGER: JOHN KARWACKI P.E.

Project
**WINDERMERE
BOOSTER
STATION AND
PUMP HOUSE**

Location
SHAKOPEE, MN
BENTON DRIVE

Certification

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.

John Karwacki
Registration No. 16532 Date: XX/XX/2018
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

Summary
Designed: JRK Drawn: DJD
Approved: JRK Book / Page:
Phase: PRELIMINARY Initial Issue: X/XX/2018

Revision History
No. Date By Submittal / Revision

**City CUP
Application
Submittal
AUGUST 16, 2018**

**Sheet Title
BUILDING AND
PAVEMENT
GRADING PLAN**

Sheet No. Revision
C3.02

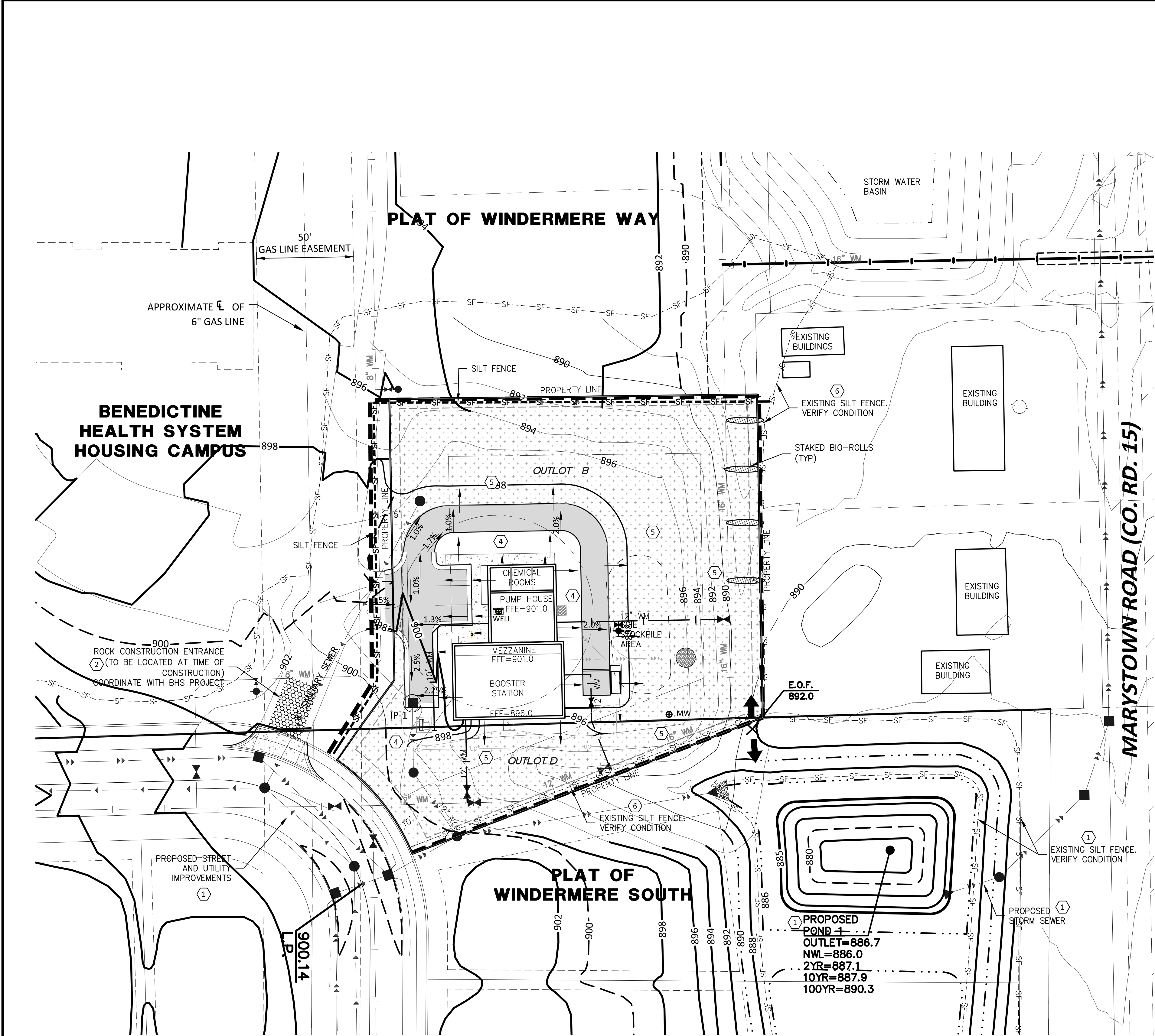
Project No. 20709



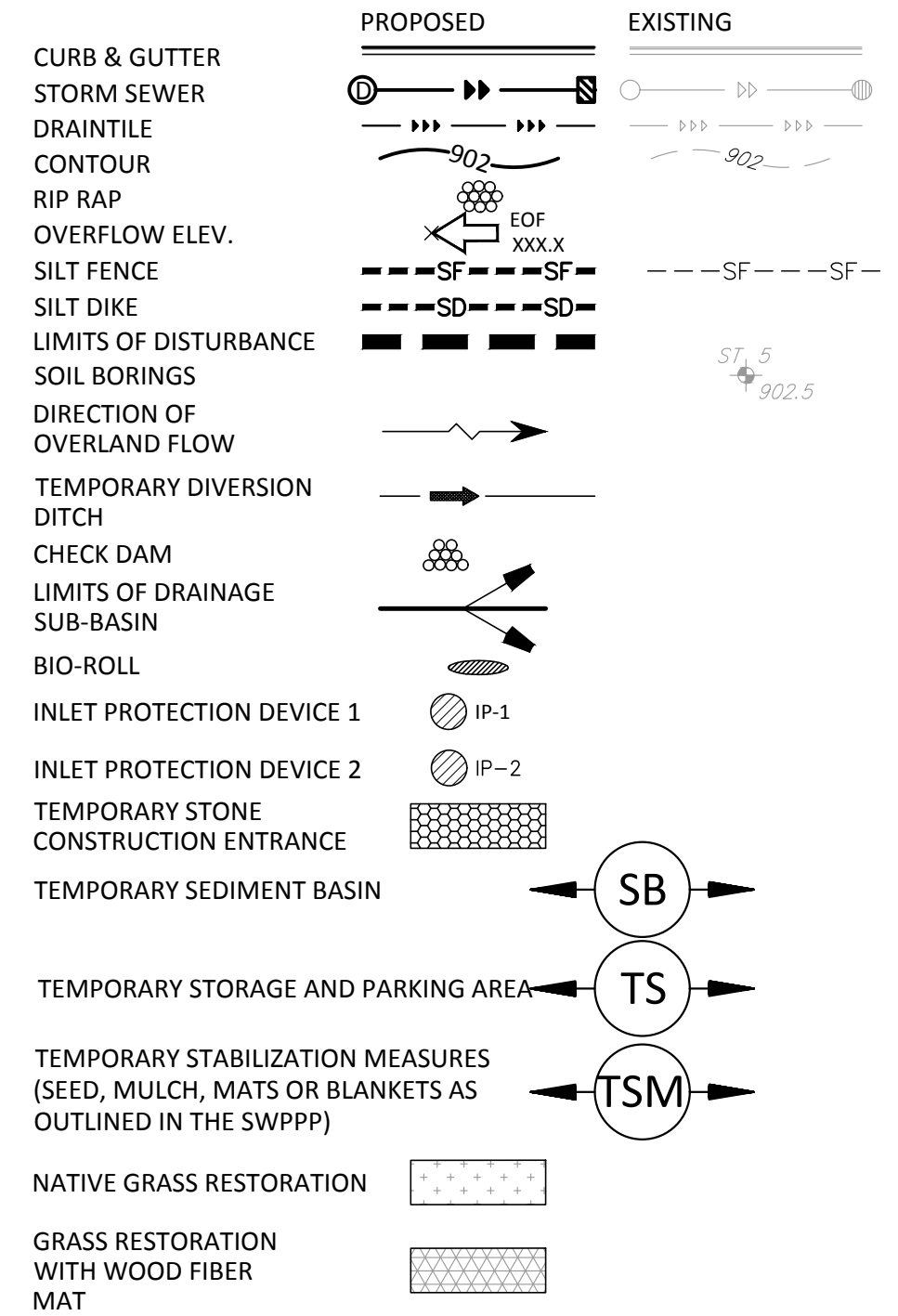
UTILITY CONSTRUCTION NOTES

- ===== KEY NOTES =====

-
- A north arrow pointing upwards, enclosed in a circle. Below it is a scale bar with markings for 0, 30, and 60 feet. The text "NORTH" is written below the arrow, and "SCALE IN FEET" is written below the scale bar.



LEGEND



EROSION CONTROL MATERIALS QUANTITIES

ITEM	UNIT	QUANTITY
SILT FENCE	LINEAR FEET	575
SILT DIKE	LINEAR FEET	N/A
BIO-ROLL	LINEAR FEET	80
CONSTRUCTION ENTRANCE	UNIT	1
INLET PROTECTION DEVICE (IP-1)	UNIT	1
INLET PROTECTION DEVICE (IP-2)	UNIT	N/A

* REFER TO SHEET C5.02 FOR GENERAL NOTES, MAINTENANCE NOTES, LOCATION MAPS, AND STANDARD DETAILS

AREA SUMMARY IN ACRES

PAVEMENT AREA	0.13 AC±
BUILDING AREA	0.08 AC±
SEEDDED/SODDED AREA	0.70 AC±
TOTAL DISTURBED	0.91 AC±
PRE - CONSTRUCTION IMPERVIOUS	0.0 AC±
POST - CONSTRUCTION IMPERVIOUS	0.21 AC±

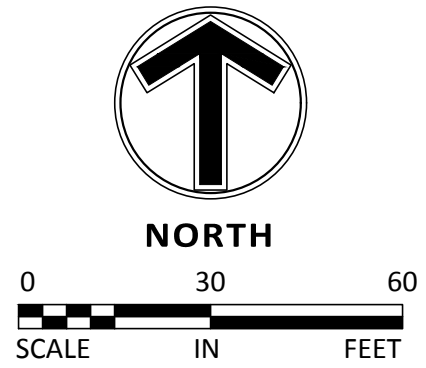
KEY NOTES

- SCHEDULED CONSTRUCTION 2018-2019 WITH WINDERMERE SOUTH DEVELOPMENT CONSTRUCTION.
- INSTALL ROCK CONSTRUCTION ENTRANCE AS DIRECTED BY ENGINEER.
- INSTALL STAKED BIO-ROLLS AROUND PERIMETER OF MATERIAL STOCKPILE, IF TO REMAIN FOR A PERIOD OF 10 DAYS OR LONGER.
- SOD TURF. REFER TO LANDSCAPE PLAN.
- LOW MAINTENANCE FESCUE TURF. REFER TO LANDSCAPE PLAN.
- INSTALLED 8-01-18. TO REMAIN. VERIFY CONDITION AND MAINTAIN.

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



Client

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PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WINDERMERE
BOOSTER
STATION AND
PUMP HOUSE

Location
SHAKOPEE, MN

BENTON DRIVE

Certification

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.

John Karwacki
Registration No. 16532 Date: XX/XX/2018
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

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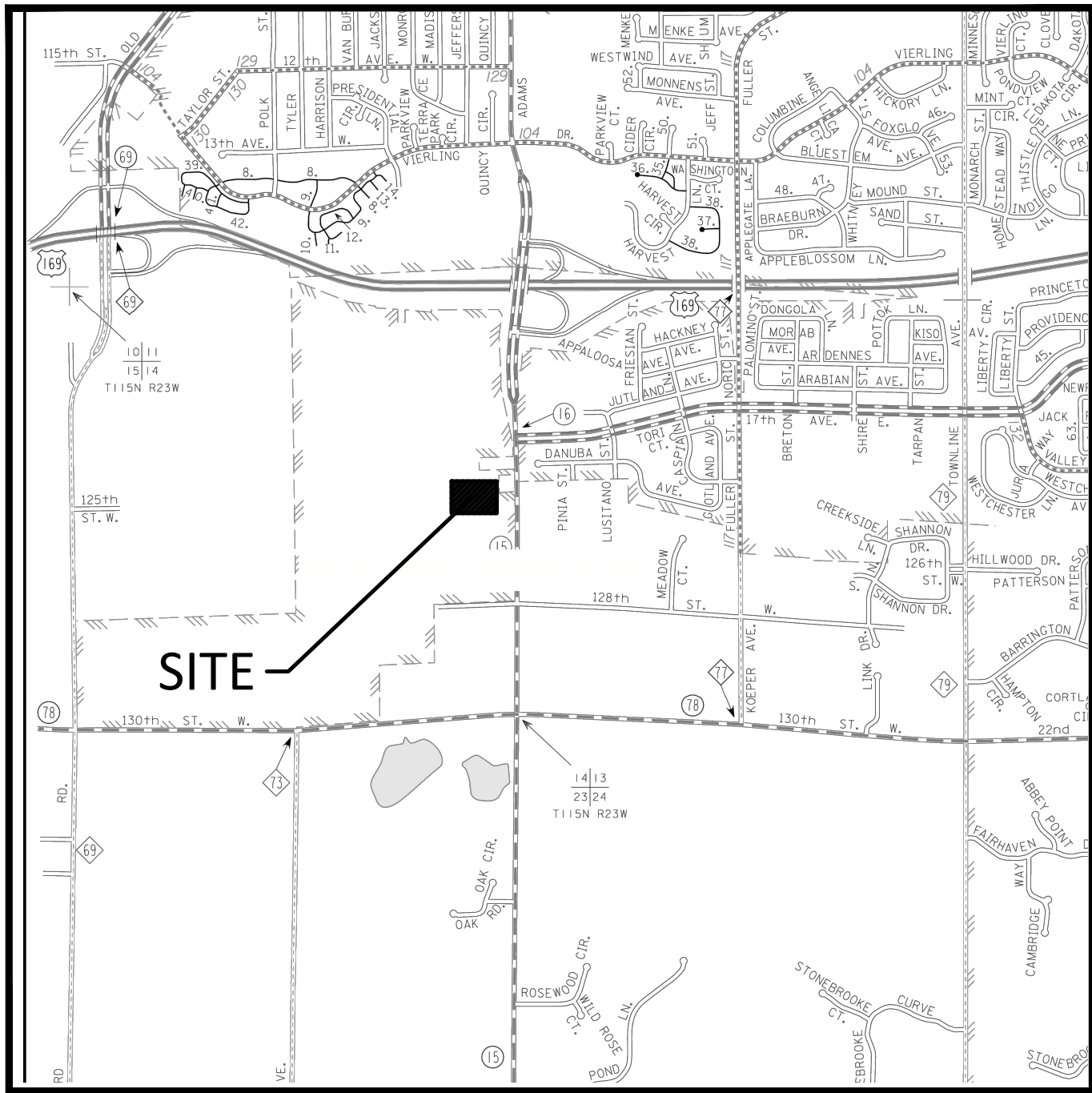
Revision History
No. Date By Submittal / Revision

City CUP
Application
Submittal
AUGUST 16, 2018

Sheet Title
EROSION
CONTROL
PLAN

Sheet No. Revision
C5.01

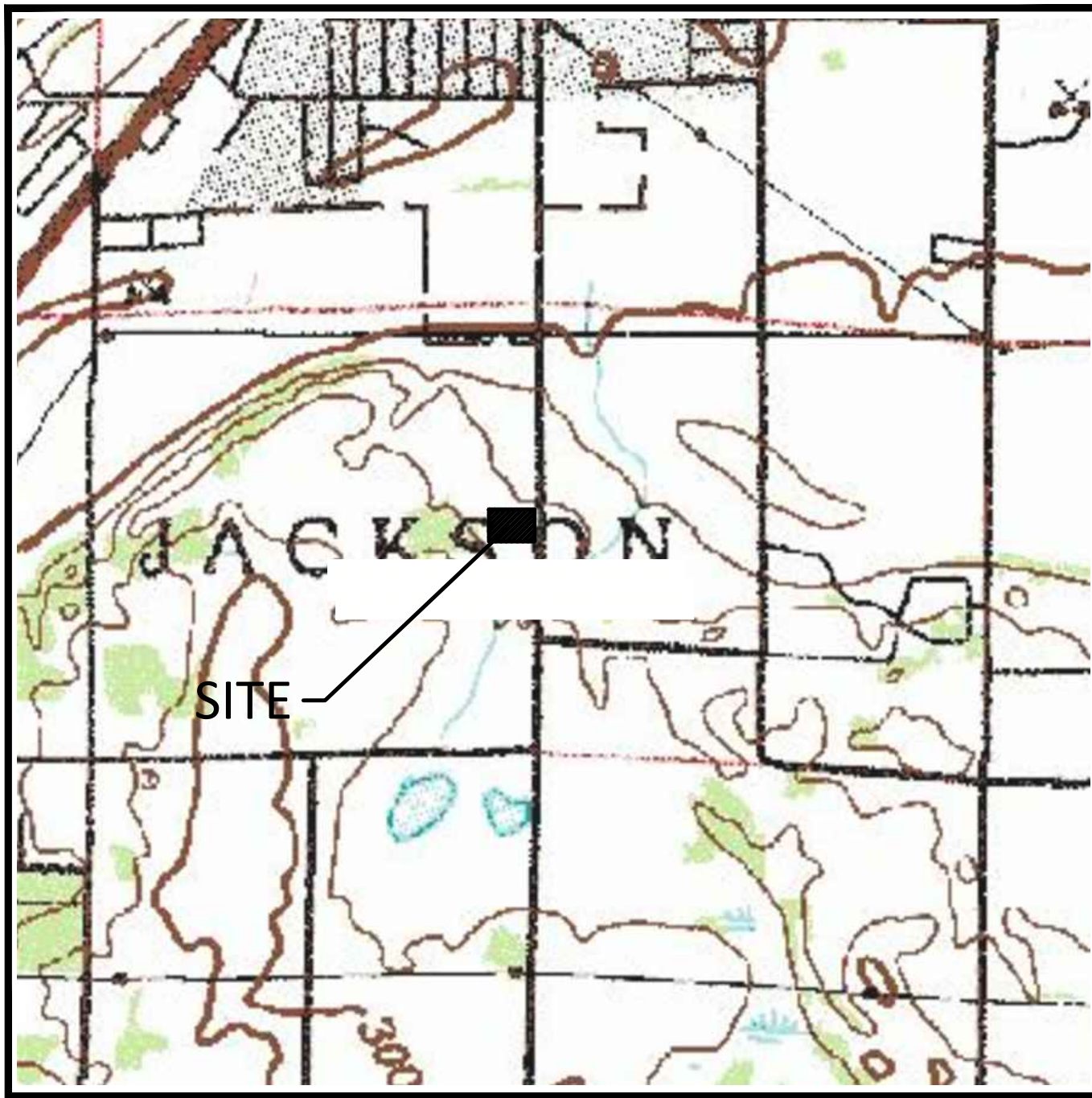
Project No. 20709



SITE

SITE LOCATION MAP

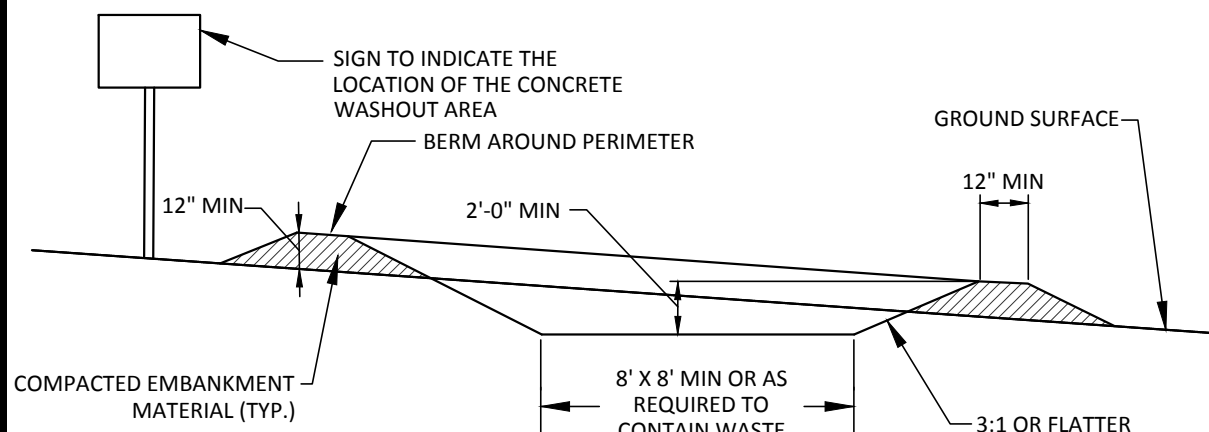
NOT TO SCALE



SITE

USGS MAP

NOT TO SCALE

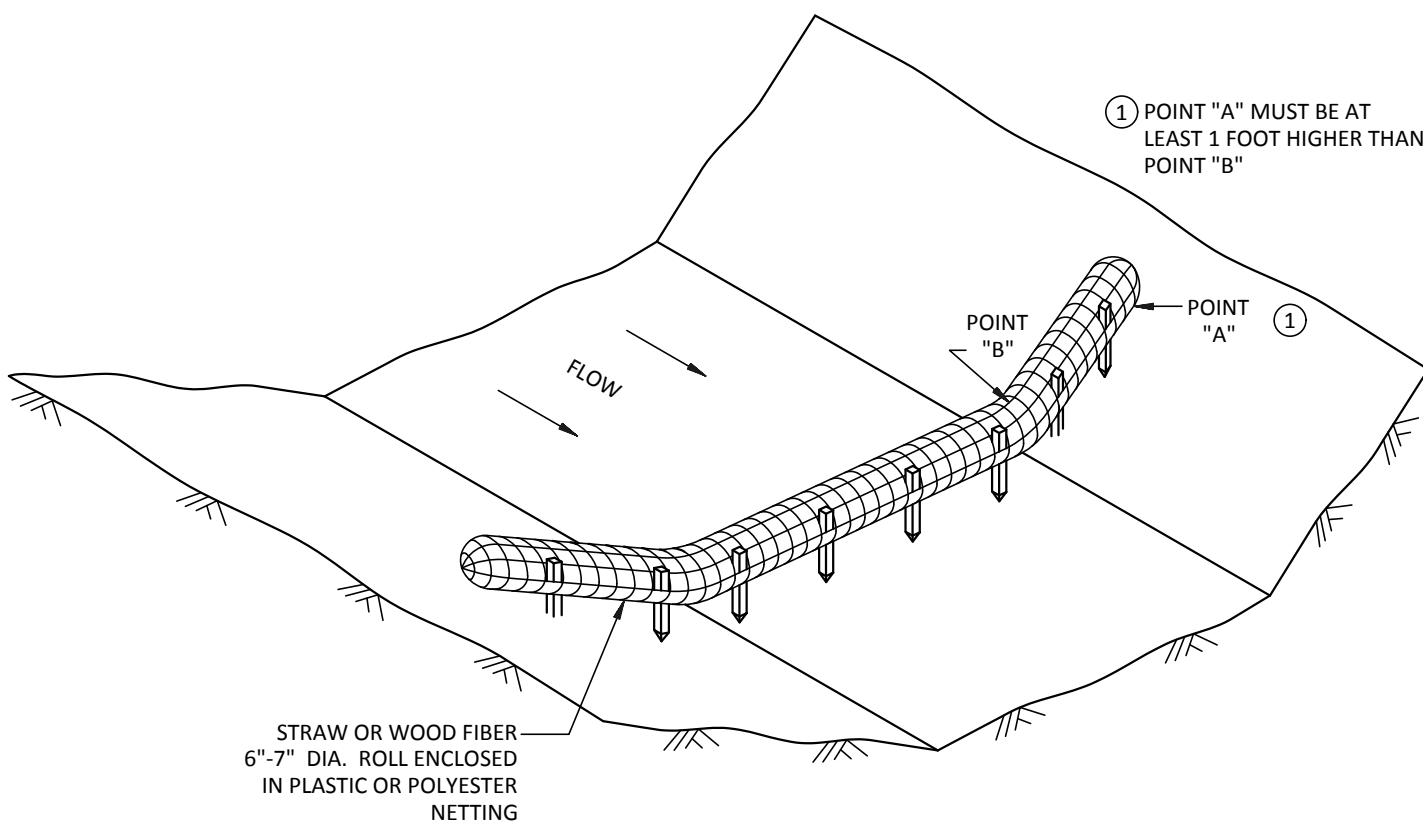


NOTES:

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. CONCRETE WASHOUT AREA SHALL BE LINED WITH MINIMUM 10 MIL THICK PLASTIC LINER.
3. VEHICLE TRACKING CONTROL IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

CONCRETE WASHOUT AREA

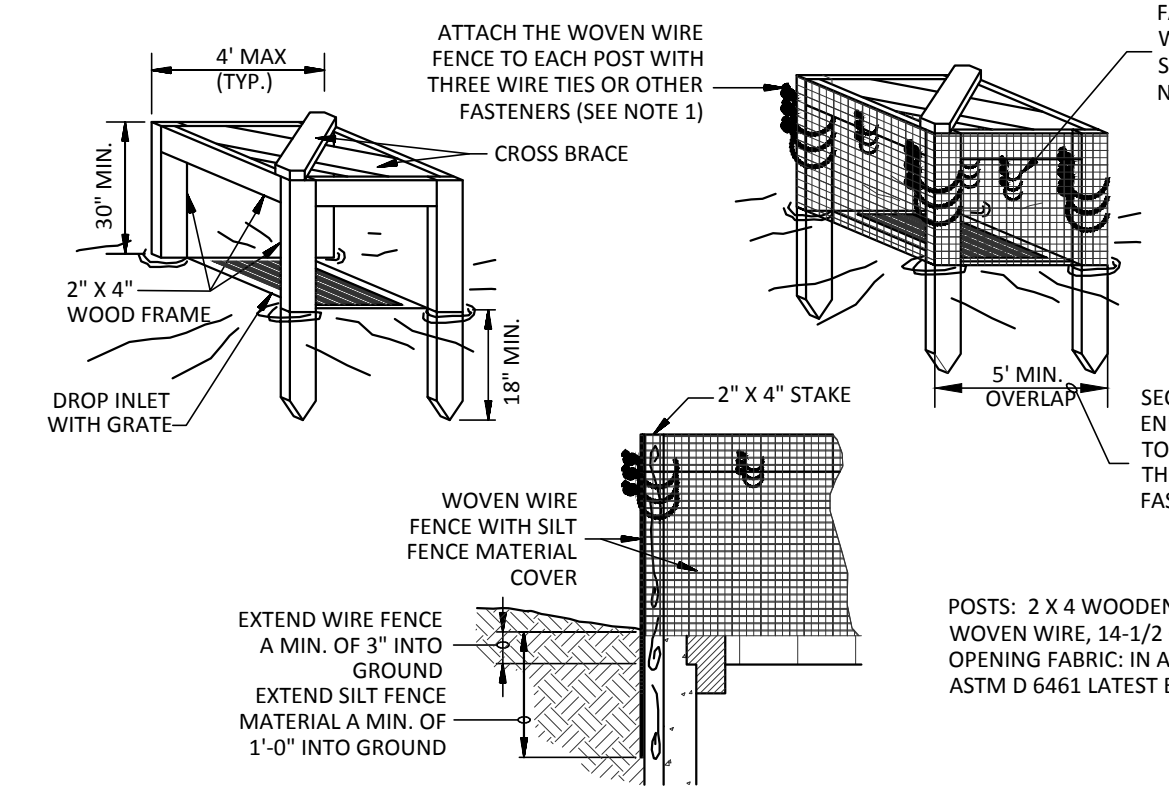
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USE AS DIRECTED BY ENGINEER

BIO-ROLLS

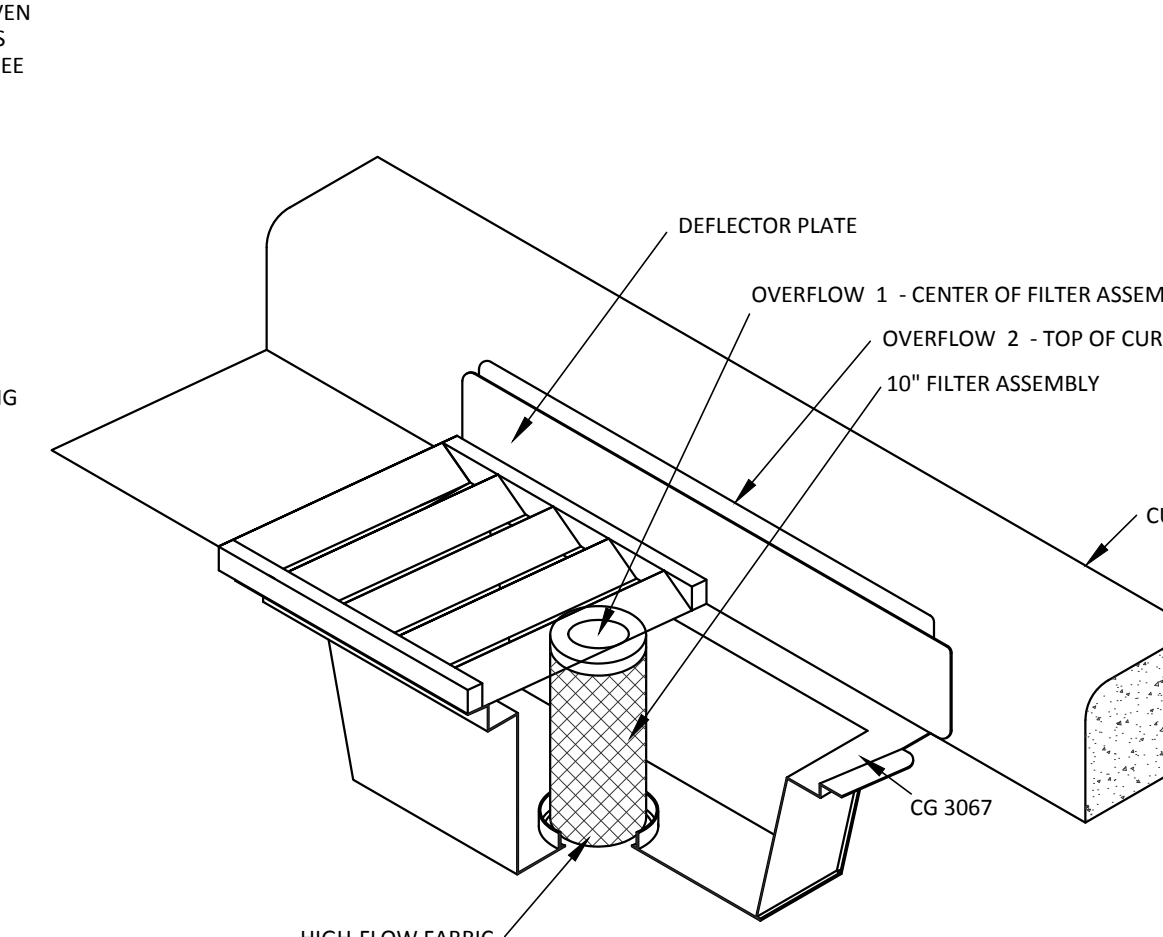
NOT TO SCALE



1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE. (SPACED EVERY 30" WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-HALF THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-HALF THE HEIGHT OF THE SILT FENCE MATERIAL ABOVE GRADE.
4. ALL SILT FENCE INLETS SHALL INCLUDE WIRE SUPPORT.

SILT FENCE INLET PROTECTION (IP-1)

NOT TO SCALE



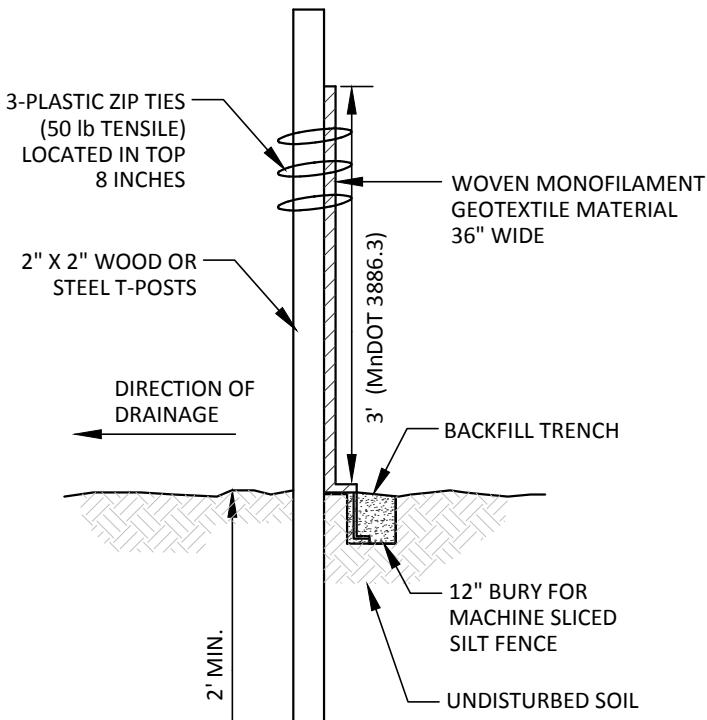
ROAD DRAIN CASTING APPLICABILITY
• NEENAH R-3067
• NEENAH R-3512

ROAD DRAIN INLET PROTECTION (IP-2)

NOT TO SCALE

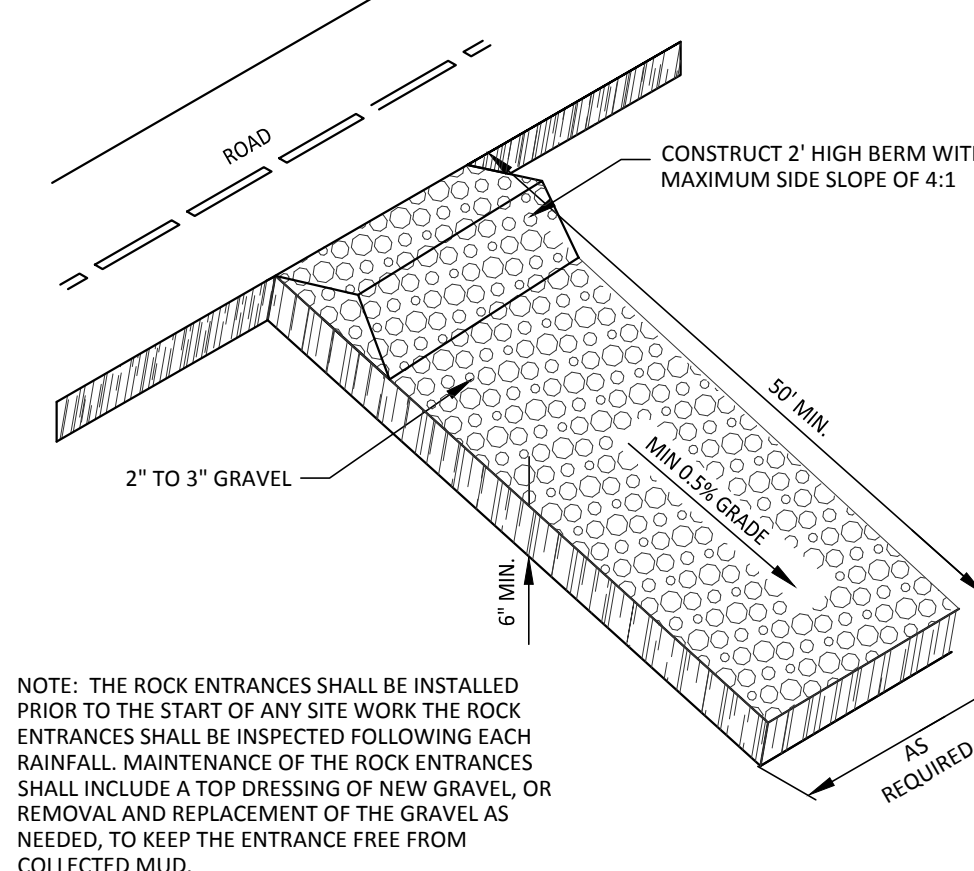
INSTALLED AS DIRECTED BY ENGINEER

OWNER: SHAKOPEE PUBLIC UTILITIES 255 SARAZIN STREET SHAKOPEE, MN 55379 952-445-1988
SITE OPERATOR / GENERAL CONTRACTOR TBD
SUPERINTENDENT: TBD



SILT FENCE DETAIL

NOT TO SCALE

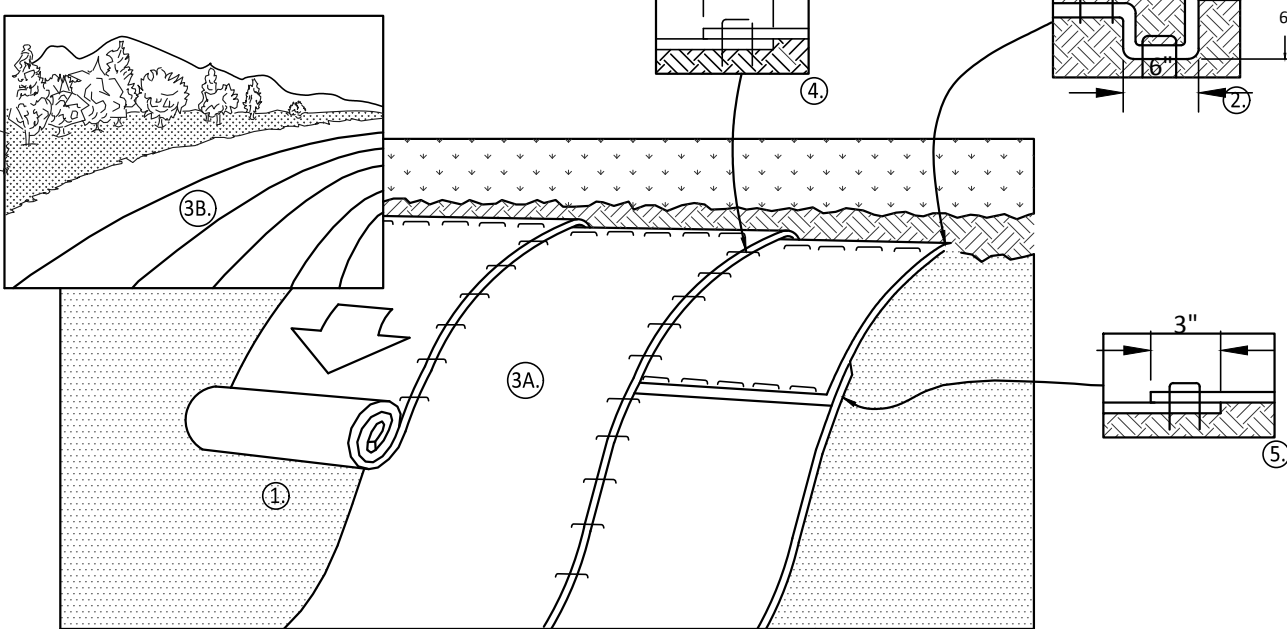


NOTE: THE ROCK ENTRANCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK THE ROCK ENTRANCES SHALL BE INSPECTED FOLLOWING EACH RAINFALL. MAINTENANCE OF THE ROCK ENTRANCES SHALL INCLUDE A TOP DRESSING OF NEW GRAVEL, OR REMOVAL AND REPLACEMENT OF THE GRAVEL AS NEEDED, TO KEEP THE ENTRANCE FREE FROM COLLECTED MUD.

INSTALL AS DIRECTED BY ENGINEER

ROCK ENTRANCE DRIVE

NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
7. EROSION CONTROL BLANKETS AND ANCHORS SHALL MEET MN/DOT 3885 CATEGORY 2, ONE SEASON REQUIREMENTS. A MN/DOT APPROVED PRODUCT IS REQUIRED. THE MAT SHALL BE FIRMLY SECURED TO GROUND WITH THE ANCHORS. WASHOUTS SHALL BE REPAIRED WITHIN 24 HOURS OF CONSTRUCTION.

NOTES:

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

EROSION CONTROL BLANKET

NOT TO SCALE

GENERAL EROSION NOTES:

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME. WHERE A CONFLICT EXISTS BETWEEN LOCAL JURISDICTIONAL STANDARD SPECIFICATIONS AND SAMBATEK STANDARD SPECIFICATIONS, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT ALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 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. THE LOCATIONS OF SMALL UTILITIES SHALL BE OBTAINED BY THE CONTRACTOR BY CALLING MINNESOTA Gopher State One Call AT 1-800-252-1166.
3. THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, THEY MAY, AT THEIR EXPENSE, OBTAIN A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
4. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO OWNER'S PROPERTY AND ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES OCCURRING TO THE ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. THE EROSION CONTROL PLAN IS COMPRISED OF THIS DRAWING (EROSION & SEDIMENTATION CONTROL PLAN), THE STANDARD DETAILS, THE PLAN NOTES, AND ITS APPENDICES, PLUS ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
6. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS INDICATED ON EROSION CONTROL PLAN. THE CONTRACTOR SHALL OVERSEE THE INSPECTION & MAINTENANCE OF THE BMP'S AND EROSION PREVENTION FROM BEGINNING OF CONSTRUCTION AND UNTIL CONSTRUCTION IS COMPLETED AND APPROVED BY ALL AUTHORITIES.
7. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
8. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TRACKED SEDIMENT FROM KELLY CIRCLE AS REQUIRED BY THE ENGINEER.
9. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THE EROSION CONTROL PLANS SHALL BE CLEARLY DELINEATED (E.G. WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) ON THE DEVELOPMENT SITE BEFORE WORK BEGINS. GROUND DISTURBING ACTIVITIES MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE.
10. GENERAL CONTRACTOR TO COORDINATE WITH OWNER, THE TEMPORARY PARKING AND STORAGE AREA, EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
11. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) MUST BE LIMITED TO A DEFINED AREA OF THE SITE AND SHALL BE CONTAINED AND PROPERLY TREATED OR DISPOSED. NO ENGINE DEGRASING IS ALLOWED ON SITE.
12. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
13. 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.
14. CONTROL DUST ON THE SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
15. SOLID WASTE: COLLECTED SEDIMENT, ASPHALT & CONCRETE MILLINGS, FLOATING DEBRIS, PAPER, PLASTIC, FABRIC, CONSTRUCTION & DEMOLITION DEBRIS & OTHER WASTES MUST BE DISPOSED OF PROPERLY & MUST COMPLY WITH MPCA DISPOSAL REQUIREMENTS.
16. HAZARDOUS MATERIALS: OIL, GASOLINE, PAINT & ANY HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE & DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.
17. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, TO BE INITIATED AS SOON AS PRACTICABLE AND PRIOR TO SOIL DISTURBING ACTIVITIES.
18. TEMPORARILY SEED DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED, WITHIN 14 DAYS OF INACTIVITY (IN ACCORDANCE WITH MPCA SEED MIXTURE 100 OR 110 DEFERENCE TO THE SEASON OF THE YEAR) (SEE MN/DOT SPECIFICATION SECTION 2575.3) SEEDING METHOD AND APPLICATION RATE SHALL CONFORM TO MN/DOT SPECIFICATION SECTION 2575.3. TEMPORARY MULCH TO BE APPLIED IN ACCORDANCE WITH MN/DOT SPECIFICATION SECTION 2575.3F1 AND 2575.3G. ALTERNATIVELY, HYDRAULIC SOIL STABILIZER IN ACCORDANCE WITH MN/DOT SPECIFICATION SECTION 2575.3H MAY BE USED IN PLACE OF TEMPORARY MULCH.
19. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM CONVEYANCES & FROM TEMPORARY SEDIMENTATION BASINS THAT ARE TO BE USED AS PERMANENT WATER QUALITY MANAGEMENT BASINS. SEDIMENT MUST BE STABILIZED TO PREVENT IT FROM BEING WASHED BACK INTO THE BASIN, CONVEYANCES, OR DRAINAGEWAYS DISCHARGING OFF-SITE OR TO SURFACE WATERS. THE CLEANOUT OF PERMANENT BASINS MUST BE SUFFICIENT TO RETURN THE BASIN TO DESIGN CAPACITY.
20. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S.
21. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS & CANNOT BE PLACED IN SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB & GUTTER SYSTEMS OR CONDUITS & DITCHES.
22. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
23. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, CHECK DAMS, INLET PROTECTION DEVICES, ETC.) TO PREVENT EROSION.
24. ALL CONSTRUCTION TO BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

GENERAL MAINTENANCE NOTES:

1. ALL SILT FENCES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE FENCE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
2. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT BEING DEPOSITED BY EROSION. THE CONTRACTOR MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, STORM SEWER PIPES AND OTHER DRAINAGE SYSTEMS. REESTABLISH THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. THE CONTRACTOR SHALL USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.
3. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE PAVED SURFACES, WITHIN 24 HOURS OF DISCOVERY, OR IF APPLICABLE, WITHIN A SHORTER TIME.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMP'S, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE.
5. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREETS COULD BE WASHED INTO STORM SEWERS BY THE NEXT RAIN AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS).

Client

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Sambatek
www.sambatek.com

12800 Whitewater Drive, Suite 300
Mimmetonka, MN 55343
763.476.6010 telephone
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PROJECT MANAGER: JOHN KARWACKI P.E.

Project
WINDERMERE
BOOSTER
STATION AND
PUMP HOUSE

Location
SHAKOPEE, MN

BENTON DRIVE

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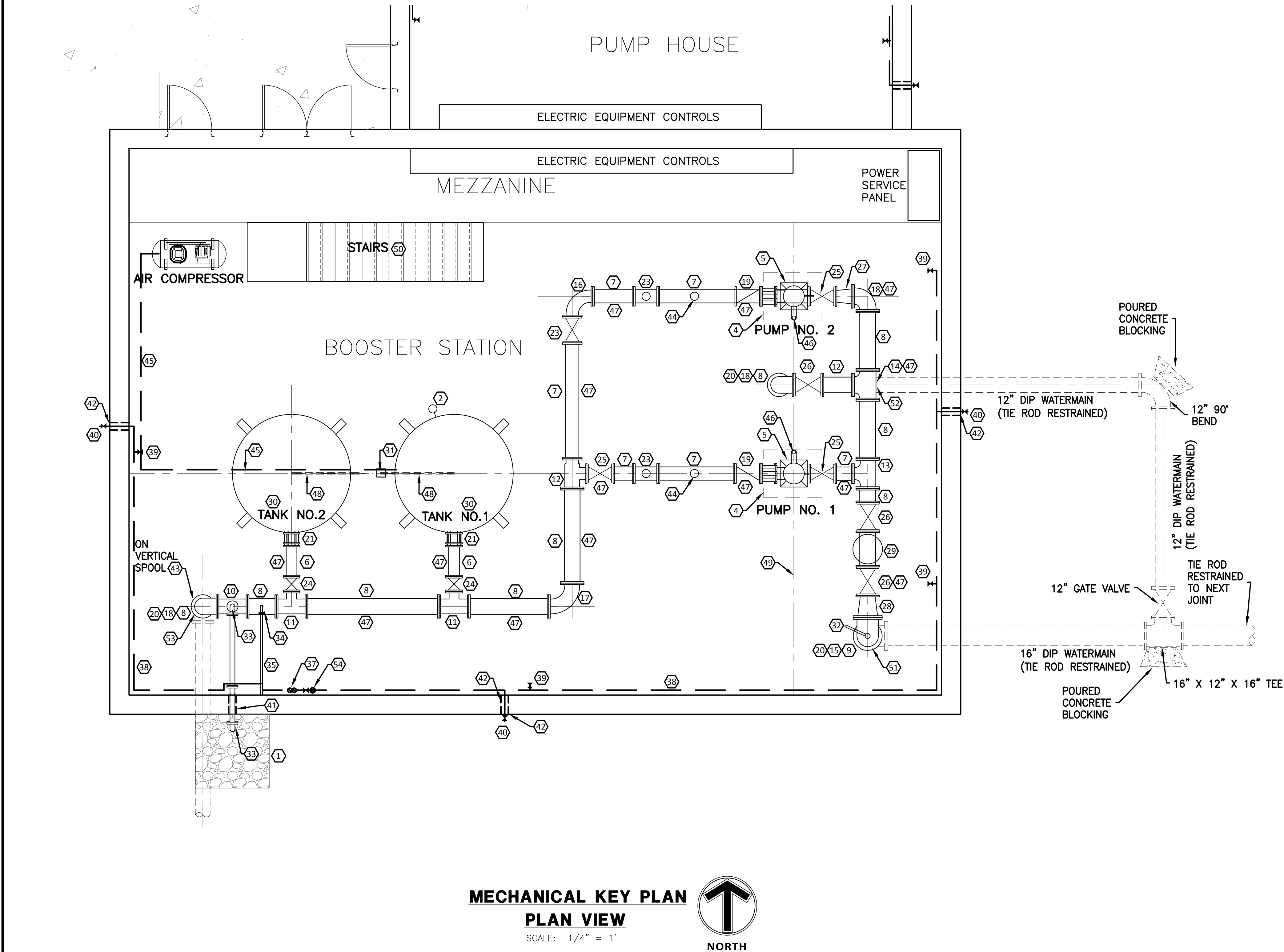
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EROSION
CONTROL
NOTES &
DETAILS

Sheet No. Revision

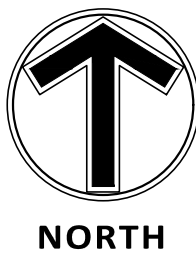
C5.02

Project No. 20709



MECHANICAL KEY PLAN
PLAN VIEW

SCALE: 1/4" = 1'



PROCESS PIPING KEY NOTES

1. SPLASH PAD, 5' x 5' - 6" (AVG) FIELD STONES X/CX.XX
2. PRESSURE GUAGE MOUNTED ON TANK
3. DEHUMIDIFIER (PROVIDE ELECTRICAL OUTLET)
4. CONCRETE FOUNDATION FOR PUMP DISCHARGE X/CX.XX
5. PUMP MOTOR DISCHARGE HEAD X/CX.XX
6. 8" SPOOL
7. 10" SPOOL
8. 12" SPOOL
9. 10" CHECK VALVE
10. 12" X 4" X 12" TEE
11. 12" X 8" X 12" TEE
12. 12" X 10" X 10" TEE
13. 12" X 10" X 12" TEE
14. 12" X 12" X 12" TEE
15. 16" X 16" X 4" TEE
16. 10" 90° BEND (LONG RADIUS)
17. 12" 90° BEND (LONG RADIUS)
18. 12" 90° BEND
19. 10" CHECK VALVE
20. FLOOR PENETRATION X/CX.XX
21. 8" FLANGED COUPLING ADAPTOR
22. 10" FLANGED COUPLING ADAPTER (RESTRAINED WITH 3 THREADED BOLTS)
23. 10" MAGNETIC FLOW METER
24. 8" GATE VALVE WITH HAND WHEEL OPERATOR
25. 10" GATE VALVE WITH HAND WHEEL OPERATOR
26. 12" GATE VALVE WITH HAND WHEEL OPERATOR
27. 12" X 10" REDUCER
28. 16" X 12" REDUCER
29. 12" PRESSURE REDUCING VALVE
30. 5000 GALLON, HYDROPNEUMATIC TANK WITH 8" FLANGED DISCHARGE
31. SIGHT GLASS LEVEL INDICATOR, AND PRESSURE TRANSDUCERS, MOUNTED ON TANK - COORDINATE INSTALLATION WITH MANUFACTURER AND ELECTRICAL INSTALLER
32. 4" BLIND FLANGE AND 2" NPT TAP, 2" SPOOL, 2" GLOBE VALVE, 2" COMBINATION AIR RELEASE/VACUUM VALVE, 2" DISCHARGE PIPE TO 18" ABOVE FLOOR, LOCATE TO FLOOR DRAIN OUTLET
33. 4" SPOOL, 4" GATE VALVE, 4" SURGE PROTECTION PRESSURE REGULATION VALVE, 90° BENDS, 45° BEND WITH STAINLESS STEEL INSECT SCREEN
34. 1 1/2" GALVANIZED STEEL TAP AND 1 1/2" BALL VALVE
35. 1 1/2" GALVANIZED PIPE
36. 1 1/2" TO 1" REDUCER
37. 1" RPZ CHECK VALVE WITH 2-1" BALL VALVES
38. 1" COPPER PIPE, BUILDING WATER SUPPLY (LOCATE ALONG WALL AS DIRECTED BY ENGINEER)
39. ANTI-SYPHON HOSE BIBS (18" ABOVE FLOOR MINIMUM)
40. ANTI-SYPHON/FROST FREE WALL HYDRANT
41. WALL SLEEVE, FLANGES 6" FROM WALL
42. WATERTIGHT WALL SLEEVE
43. 1/2" BRASS SAMPLING TAP (SMOOTH NOSE) WITH 1/2" ISOLATION BALL VALVE
44. PRESSURE GAUGE AND PRESSURE TRANSDUCER TAP AND ISOLATION BALL VALVE. FIELD VERIFY LOCATION
45. 5/8" PVC AIR SUPPLY LINE
46. 1" WATER PACKING DISCHARGE PIPE FROM DISCHARGE HEAD. LOCATE TO FLOOR DRAIN, MINIMUM 18" ABOVE FLOOR
47. PIPE SUPPORT X/CX.XX
48. 1 1/2" GALVANIZED DISCHARGE PIPE AND 1 1/2" BALL VALVE ATTACHED AT BOTTOM OF TANK. ALIGN TOWARDS DRAIN. TERMINATE WITH 90° ELBOW AT EDGE OF TANK
49. OVERHEAD BEAM FOR CRANE AND TROLLEY. WIDE FLANGE BEAM: W16x57. REFER TO ARCHITECTURAL DRAWINGS FOR ANCHORING INTO WALL.
50. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND SPECIFICATIONS
51. VERTICAL PIPE X/CX.XX
52. VERTICAL PIPE X/CX.XX
53. VERTICAL PIPE X/CX.XX
54. 1" METER WITH TWO CONNECTION COUPLINGS

CONSTRUCTION NOTES

- A. FOR ELECTRICAL SENSORS, CONTROLS AND CONDUIT LOCATIONS REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
- B. FOR MECHANICAL (HVAC) SYSTEMS, REFER TO MECHANICAL HVAC PLANS.
- C. REFER TO ARCHITECT'S PLANS FOR DOOR LOUVER, EXHAUST FAN LOCATIONS AND FOR BUILDING LAYOUT AND DIMENSIONING.
- D. SEE SHEET C9.03 FOR FLOOR DRAIN LAYOUT.
- E. PAINT NEW PIPING PRIOR TO INSTALLATION.
- F. WALL SLEEVES SHALL BE SEALED WATER TIGHT. SEAL SHALL BE APPROVED BY ENGINEER.
- G. LOCATE PRESSURE SWITCH SENSORS AS DETERMINED BY ENGINEER. LOCATE PRESSURE GAUGES AND SAMPLING TAPS BY ENGINEER.
- H. FIELD VERIFY PIPE LAYOUT DIMENSIONS AND LENGTH OF PIPE SPOOL PIECES.
- I. FLANGED BOLTS TO BE FLUORO CARBON COATED STUDS AND NUTS.
- J. ALL PROCESS PIPING TO BE FLANGED PIPE.

PRELIMINARY
FOR REFERENCE ONLY

Client

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Minnetonka, MN 55343
763.476.6010 telephone
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STATION AND
PUMP HOUSE**

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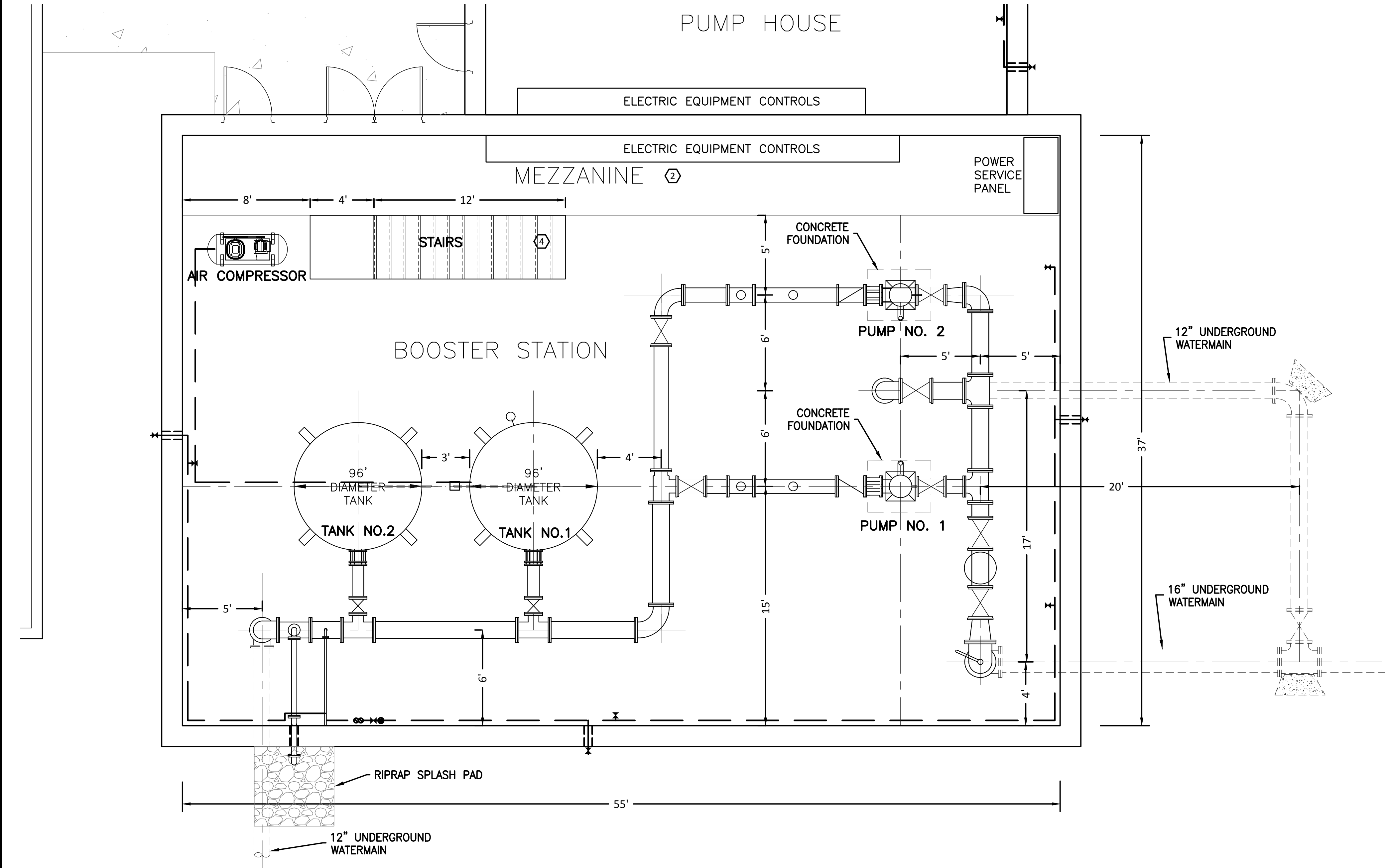
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Sheet Title
**BOOSTER
STATION
MECHANICAL
KEY PLAN**

Sheet No. Revision

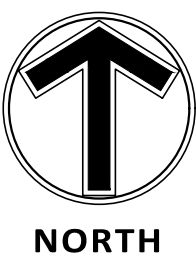
C6.01

Project No. 20709



INTERIOR LAYOUT PLAN VIEW

SCALE: 1/4" = 1'



CONSTRUCTION NOTES

- FOR ELECTRICAL SENSORS, CONTROLS AND CONDUIT LOCATIONS REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
- FOR PROCESS PIPING IDENTIFICATION REFER TO SHEET C6.01.
- REFER TO ARCHITECT'S PLANS FOR DOOR LOUVER, EXHAUST FAN LOCATIONS AND FOR BUILDING LAYOUT AND DIMENSIONING.
- SEE SHEET C9.03 FOR FLOOR DRAIN LAYOUT.
- COORDINATE THE FABRICATED HYDRO-PNEUMATIC TANK DIMENSIONS WITH PIPING LAYOUT.
- FIELD VERIFY PIPE LAYOUT DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING CONSTRUCTION DIMENSIONS AND SPECIFICATIONS.

KEY NOTES (X)

- REFER TO ELECTRICAL PLANS FOR IN-FLOOR AND WALL POWER, SENSOR AND CONTROL CONDUIT LOCATIONS.
- REFER TO SECTION VIEWS FOR FLOOR ELEVATIONS.
- OVERHEAD H-BEAM FOR A CRANE AND TROLLEY. REFER TO ARCHITECTURAL PLANS FOR SUPPORT AT WALLS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND SPECIFICATIONS.

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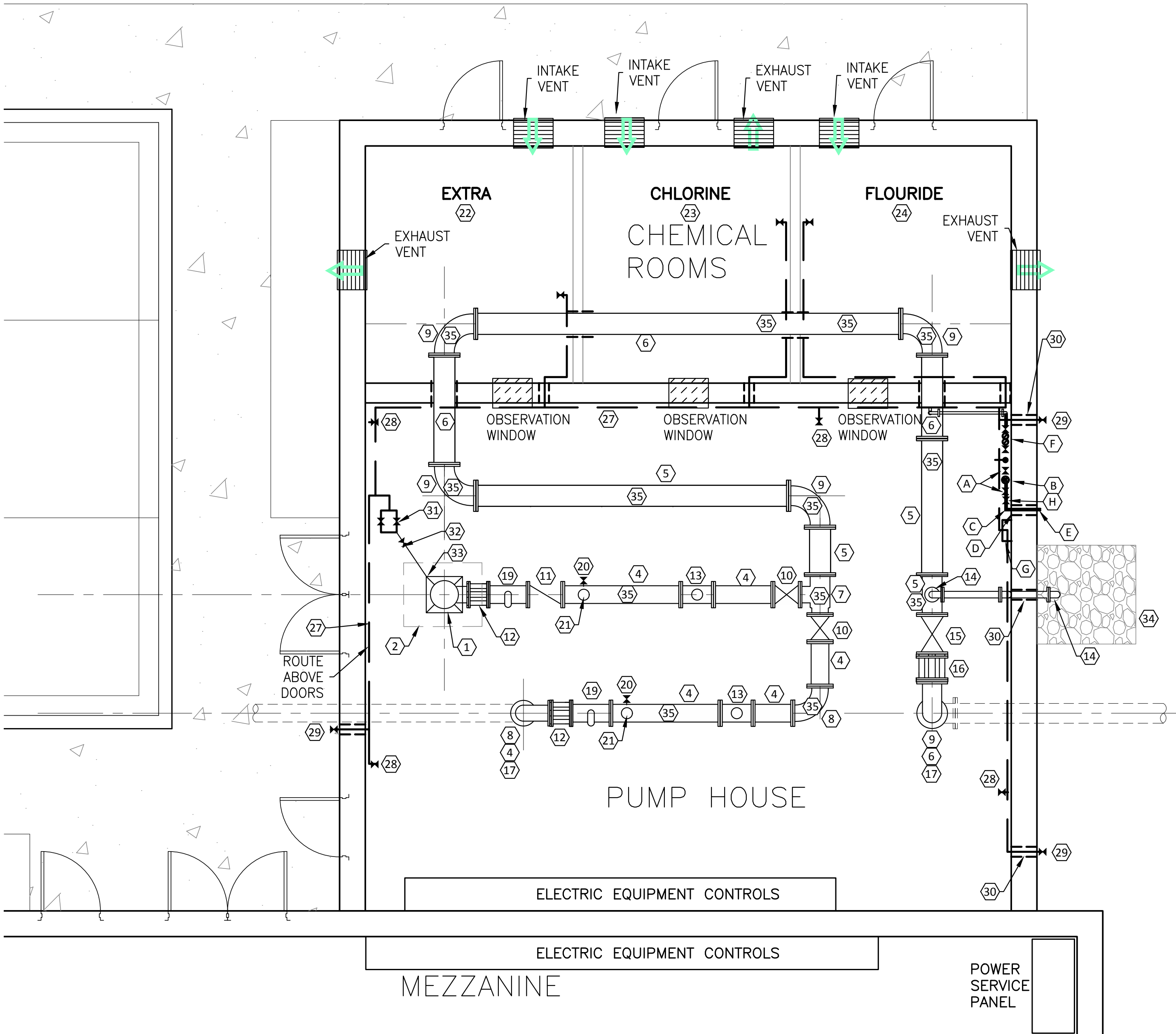
Sheet Title
**BOOSTER
STATION
INTERIOR
LAYOUT PLAN**

Sheet No. Revision

C6.02

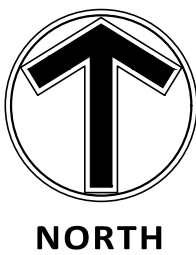
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MECHANICAL KEY PLAN
PLAN VIEW

SCALE: 1/4" = 1'



PROCESS PIPING NOTES

- 30"/24" DIAMETER WELL CASING, MOTOR, AND DISCHARGE HEAD.
- CONCRETE PUMP BASE
- DEHUMIDIFIER (PROVIDE ELECTRICAL OUTLET)
- 10" SPOOL
- 12" SPOOL
- 12" SPOOL, AND AIR TIGHT SLEEVE
- 10" X 10" X 12" TEE
- 10" 90° BEND (LONG RADIUS)
- 12" 90° BEND (LONG RADIUS)
- 10" GATE VALVE, HAND WHEEL OPERATOR
- 10" CHECK VALVE
- 10" FLANGED COUPLING ADAPTER
- 10" FLOW METER
- 4" SPOOL, 4" GATE VALVE, 4" SURGE PROTECTION PRESSURE REGULATION VALVE, 90° BENDS, 45° BEND WITH STAINLESS STEEL INSECT SCREEN
- 12" GATE VALVE, HAND WHEEL OPERATOR
- 12" FLANGED COUPLING ADAPTOR
- FLOOR PENETRATION
- 12" X 4" X 12" TEE
- 10" X 10" X 4" TEE, 2" AIR RELEASE AND VACUUM BREAKER VALVE, DISCHARGE PIPING TO 18" ABOVE FLOOR
- 1/2" BRASS SAMPLING TAP (SMOOTH NOSE) WITH 1/2" ISOLATION BALL VALVE
- PRESSURE GAUGE WITH 1/2" ISOLATION BALL VALVE
- EXTRA CHEMICAL ROOM
- CHLORINE CHEMICAL ROOM
- FLOURIDE CHEMICAL ROOM
- 1 1/2" GALVANIZED STEEL TAP, 1 1/2" BALL VALVE
- 1 1/2" GALVANIZED STEEL PIPE
- 1" COPPER PIP, BUILDING WATER SUPPLY (LOCATE ALONG WALL AS DIRECTED BY ENGINEER)
- ANTI-SIPHON HOSE BIBS (18" ABOVE FLOOR, MINIMUM)
- ANTI-SIPHON/FROST FREE WALL HYDRANT
- WATER-TIGHT WALL SLEEVE
- 1" HYDROMETER VALVE
- 1" BALL VALVE
- WELL PRE-LUBE CONNECTION
- SPLASH PAD 5' X 5' - 6" (AVG) FIELD STONES
- PIPE SUPPORTS

CONSTRUCTION NOTES

- FOR ELECTRICAL SENSORS, CONTROLS AND CONDUIT LOCATIONS REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
- FOR MECHANICAL (HVAC) SYSTEMS, REFER TO MECHANICAL HVAC PLANS.
- REFER TO ARCHITECT'S PLANS FOR DOOR LOUVER, EXHAUST FAN LOCATIONS AND FOR BUILDING LAYOUT AND DIMENSIONING.
- SEE SHEET C9.03 FOR FLOOR DRAIN LAYOUT.
- PAINT NEW PIPING PRIOR TO INSTALLATION.
- WALL SLEEVES SHALL BE SEALED WATER TIGHT. SEAL SHALL BE APPROVED BY ENGINEER.
- LOCATE PRESSURE SWITCH SENSORS AS DETERMINED BY ENGINEER. LOCATE PRESSURE GAUGES AND SAMPLING TAPS BY ENGINEER.
- FIELD VERIFY PIPE LAYOUT DIMENSIONS AND LENGTH OF PIPE SPOOL PIECES.
- FLANGED BOLTS TO BE FLUORO CARBON COATED STUDS AND NUTS.
- ALL PROCESS PIPING TO BE FLANGED PIPE.

PROPOSED IRRIGATION SYSTEM

- 1 1/2" BALL VALVE
- 1 1/2" METER AND UPSTREAM STRAINER, OBTAIN METER FROM SPUC, CONTRACTOR TO PAY ALL COSTS
- 1 1/2" GALVANIZED PIPE
- 90° ELBOW THROUGH WALL SLEEVE, 90° ELBOW TO 3' BELOW GROUND, CAP
- CONNECTION TO IRRIGATION SYSTEM PIPING. INSTALL REMOVABLE CAP
- 1 1/2" BACKFLOW PREVENTER WITH 2 BALL VALVES
- IRRIGATION CONTROLLER - COORDINATE POWER WIRING WITH CONTRACTOR. RUN CONTROL WIRE WITH PIPING THROUGH WALL OR AT CONTRACTOR OPTION. VERIFY WITH OWNER.
- PRESSURE REDUCING VALVE. VERIFY WITH DESIGN WATER PRESSURE AT BOOSTER STATION.

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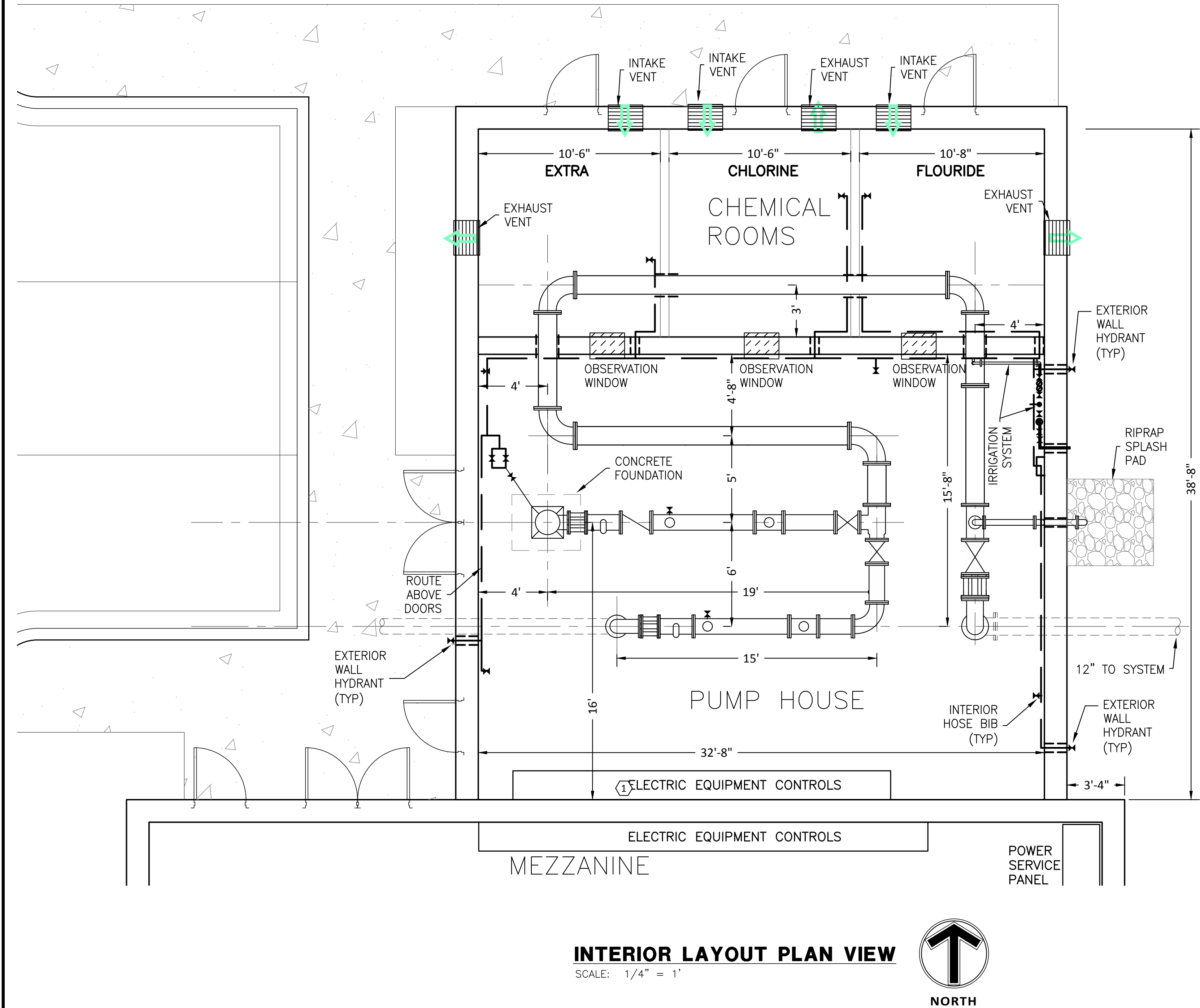
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PUMP HOUSE
MECHANICAL
KEY PLAN

Sheet No. Revision

C7.01

Project No. 20709



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- D. SEE SHEET C9.03 FOR FLOOR DRAIN LAYOUT.
- E. COORDINATE THE FABRICATED HYDRO-PNEUMATIC TANK DIMENSIONS WITH PIPING LAYOUT.
- F. FIELD VERIFY PIPE LAYOUT DIMENSIONS.
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KEY NOTES X

- 1. REFER TO ELECTRICAL PLANS FOR IN-FLOOR AND WALL POWER, SENSOR AND CONTROL CONDUIT LOCATIONS.
- 2. REFER TO SECTION VIEWS FOR FLOOR ELEVATIONS.
- 3. OVERHEAD H-BEAM FOR A CRANE AND TROLLEY. REFER TO ARCHITECTURAL PLANS FOR SUPPORT AT WALLS.
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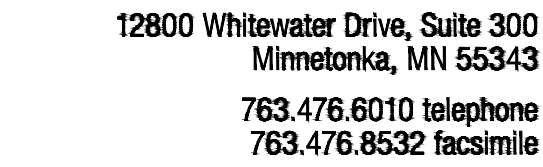
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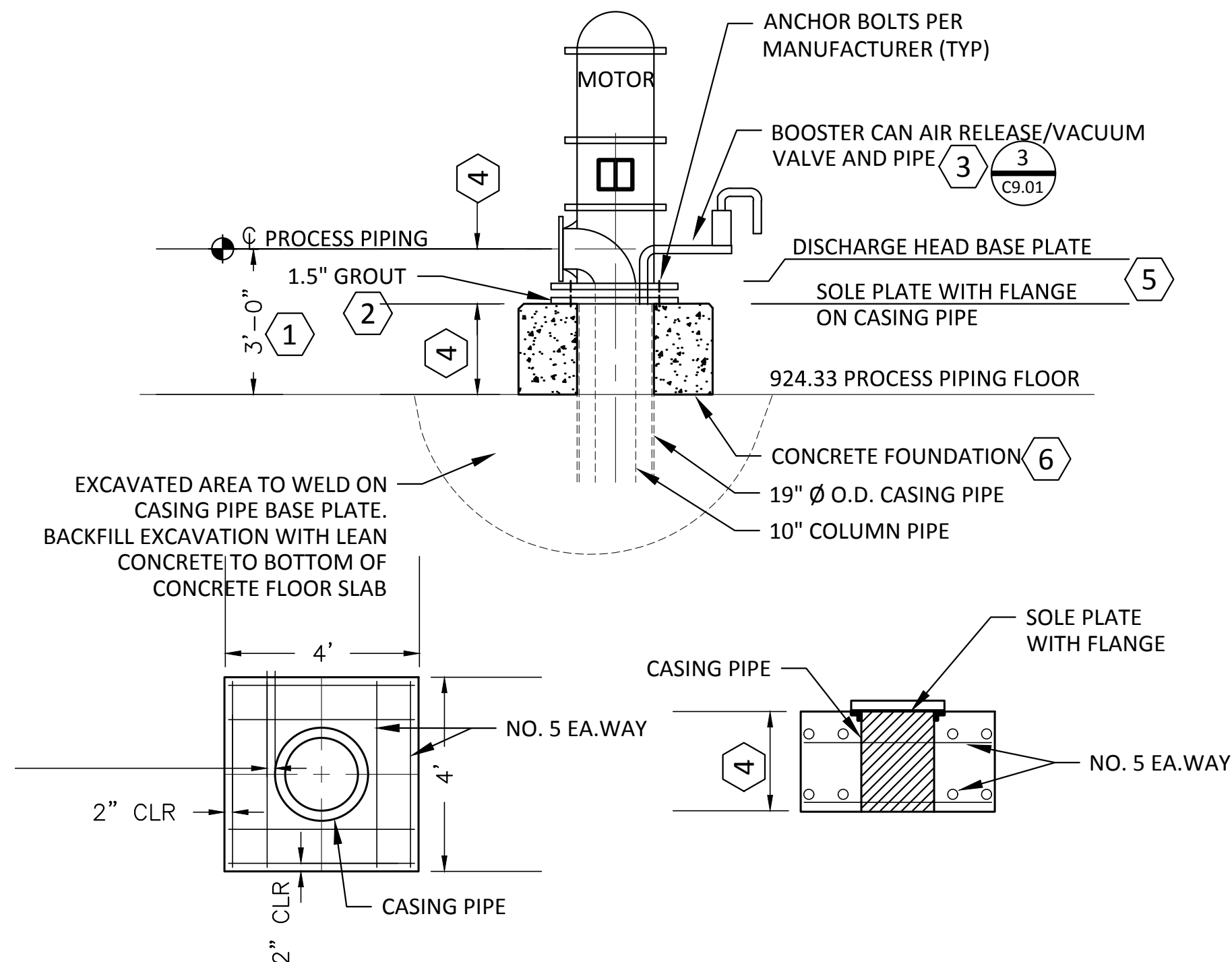
C8.01



1. ELEVATION VARIES. REFER TO ARCHITECTURAL PLANS FOR GARAGE FLOOR SLOPE
2. REFER TO ARCHITECTURAL BUILDING CONSTRUCTION PLANS FOR DIMENSIONING



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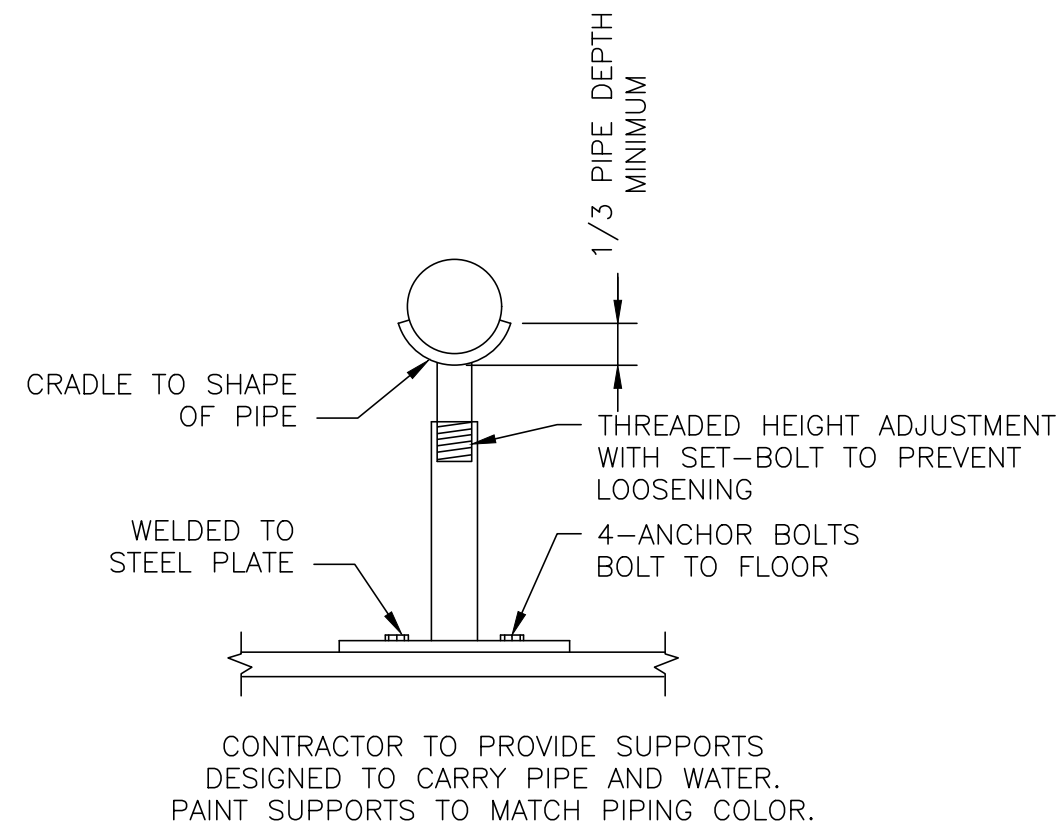


**FOUNDATION REINFORCEMENT
TOP VIEW**

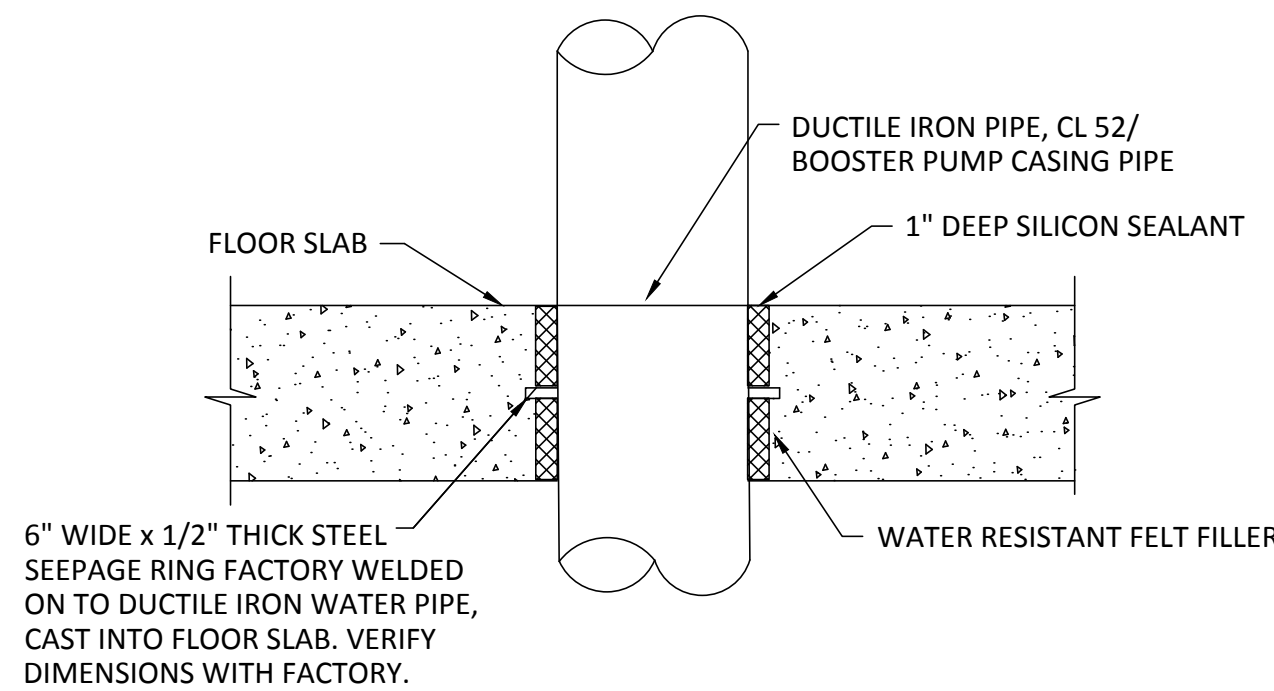
**FOUNDATION REINFORCEMENT
SIDE VIEW**

1. VERIFY WITH HYDRO-PNEUMATIC INTAKE/DISCHARGE PIPE INVERT.
2. GROUT AT CONTRACTOR'S OPTION.
3. INSTALL AS RECOMMENDED BY MANUFACTURER. SUBMIT INSTALLATION DRAWING FOR REVIEW AND APPROVAL BY ENGINEER.
4. VERIFY DIMENSIONS WITH DISCHARGE HEAD MANUFACTURER.
5. LEVEL BASE PLATE WITH A MACHINIST'S LEVEL TO 0.003 THOUSANDS OF AN INCH IN ALL DIRECTIONS. ALIGN BASE PLATE ACCORDING TO DISCHARGE HEAD MANUFACTURER'S RECOMMENDATIONS.
6. 4,000 PSI CONCRETE, 1" BEVEL FINISH EDGES

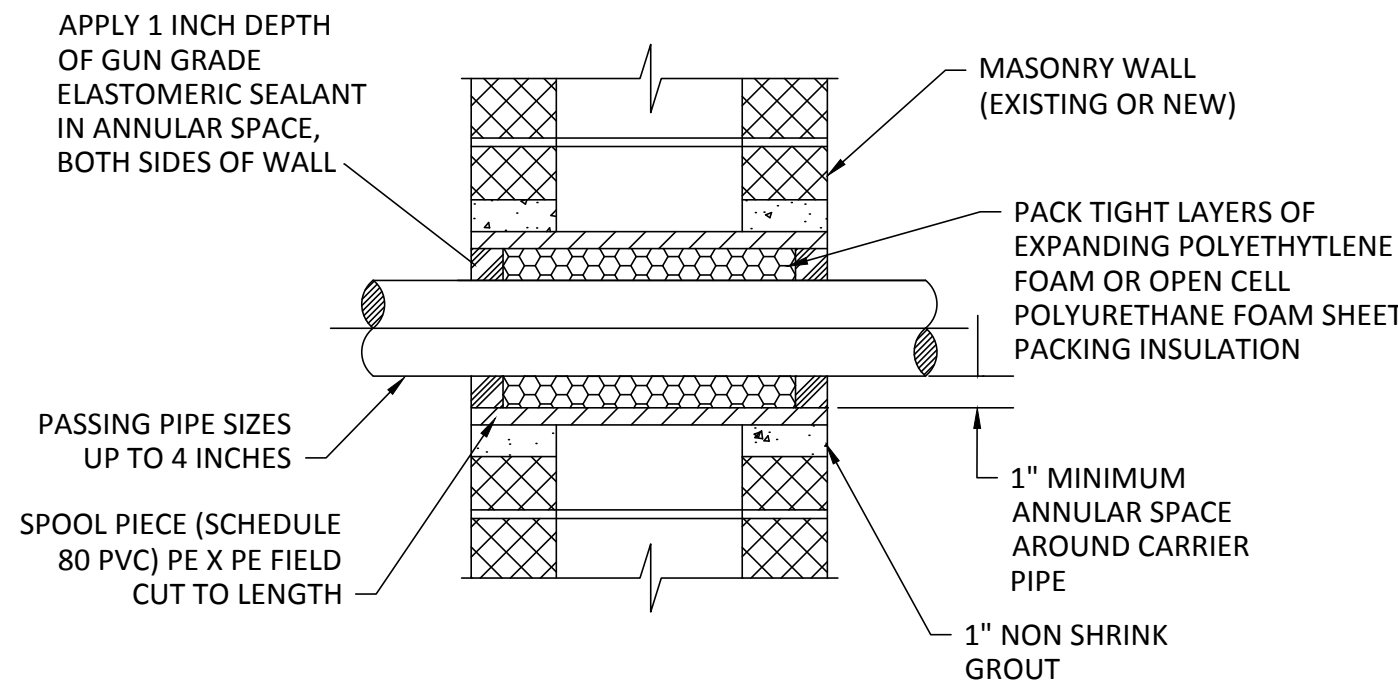
3 DISCHARGE HEAD AND FOUNDATION DETAIL
C9.02 SCALE: NONE



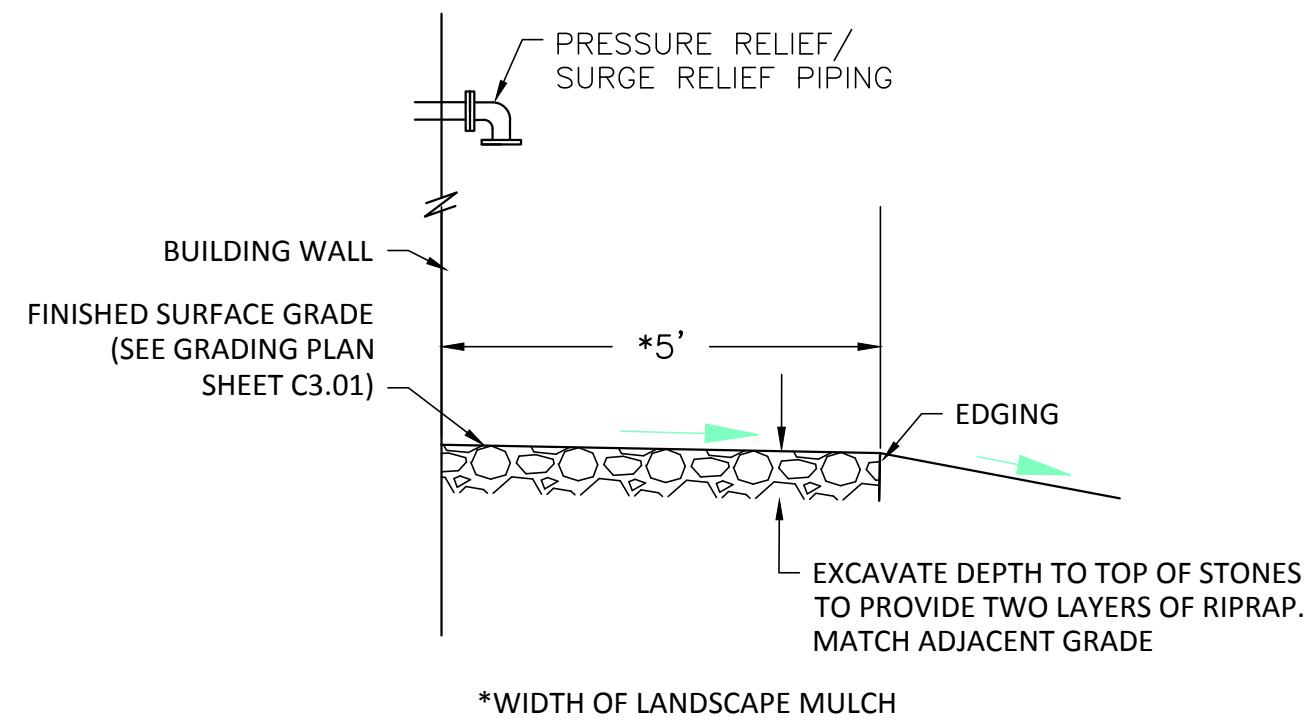
4 ADJUSTABLE PIPE SUPPORT DETAIL
C9.02 SCALE: NONE



5 FLOOR PENETRATION SEAL
C9.02 SCALE: NONE



6 PENETRATION SEAL, MASONRY WALL (SMALL DIAMETER)
C9.02 SCALE: NONE



7 SPLASH PAD
C9.02 SCALE: NONE

**PRELIMINARY
FOR REFERENCE ONLY**

Client

SHAKOPEE PUBLIC UTILITIES
255 SARAZIN STREET
SHAKOPEE, MN. 55379
TELEPHONE: 952-445-1988
UTILITIES MANAGER: JOHN CROOKS
PLANNING & ENGINEERING DIRECTOR: JOE ADAMS P.E.
WATER SUPERINTENDENT: LON SCHEMEL

Sambatek
www.sambatek.com

12800 Whitewater Drive, Suite 300
Minnetonka, MN 55343
763.476.6010 telephone
763.476.8532 facsimile

Engineering | Surveying | Planning | Environmental

PROJECT MANAGER: JOHN KARWACKI P.E.

Project WINDERMERE BOOSTER STATION AND PUMP HOUSE

Location SHAKOPEE, MN

BENTON DRIVE

Certification

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.

John Karwacki
Registration No. 16532 Date: XX/XX/2018
If applicable, contact us for a wet signed copy of this plan which is available upon request at Sambatek's Minnetonka, MN office.

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City CUP Application Submittal AUGUST 16, 2018

Sheet Title PROCESS PIPING DETAILS

Sheet No. Revision

C8.02

Project No. 20709



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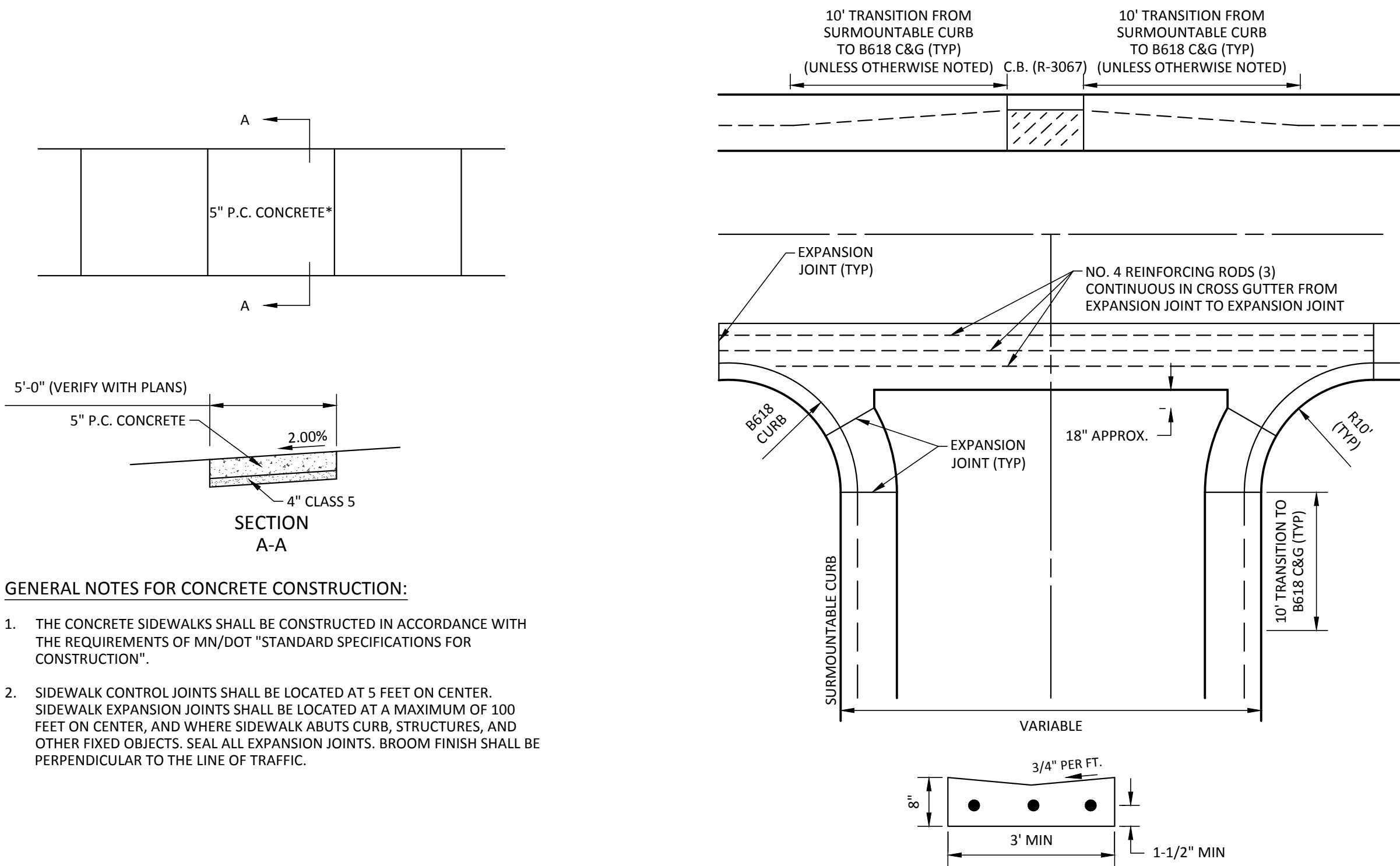
City CUP
Application
Submittal
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Sheet Title
**SITE PLAN
DETAILS**

Sheet No. Revision

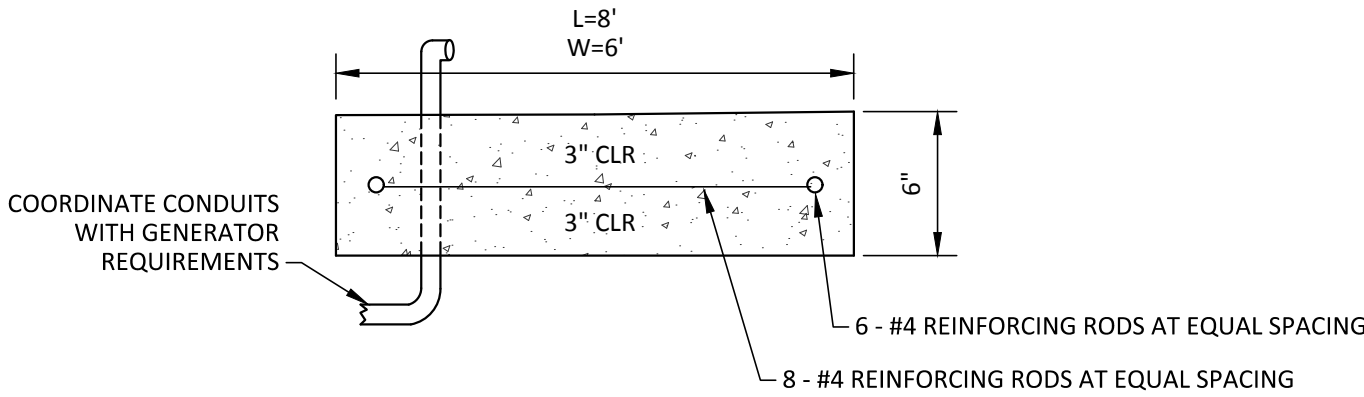
C9.01

Project No. 20709

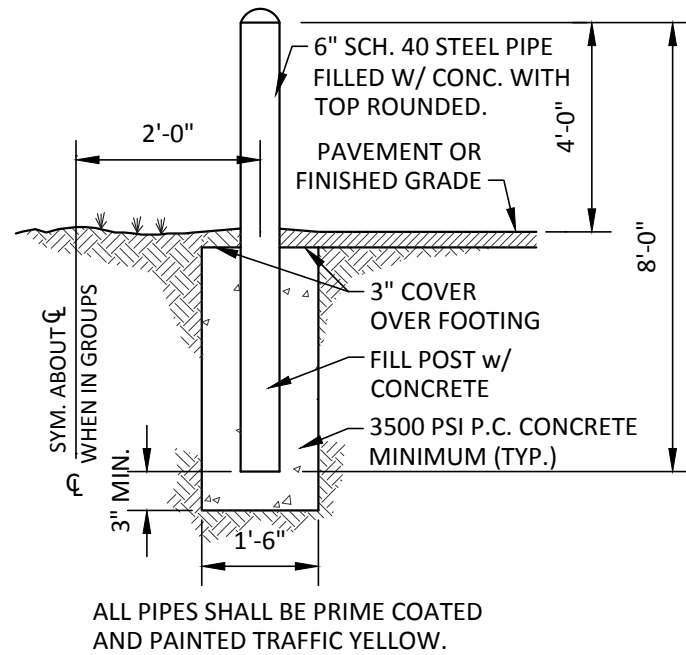


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C9.01
CONCRETE SIDEWALK
NOT TO SCALE

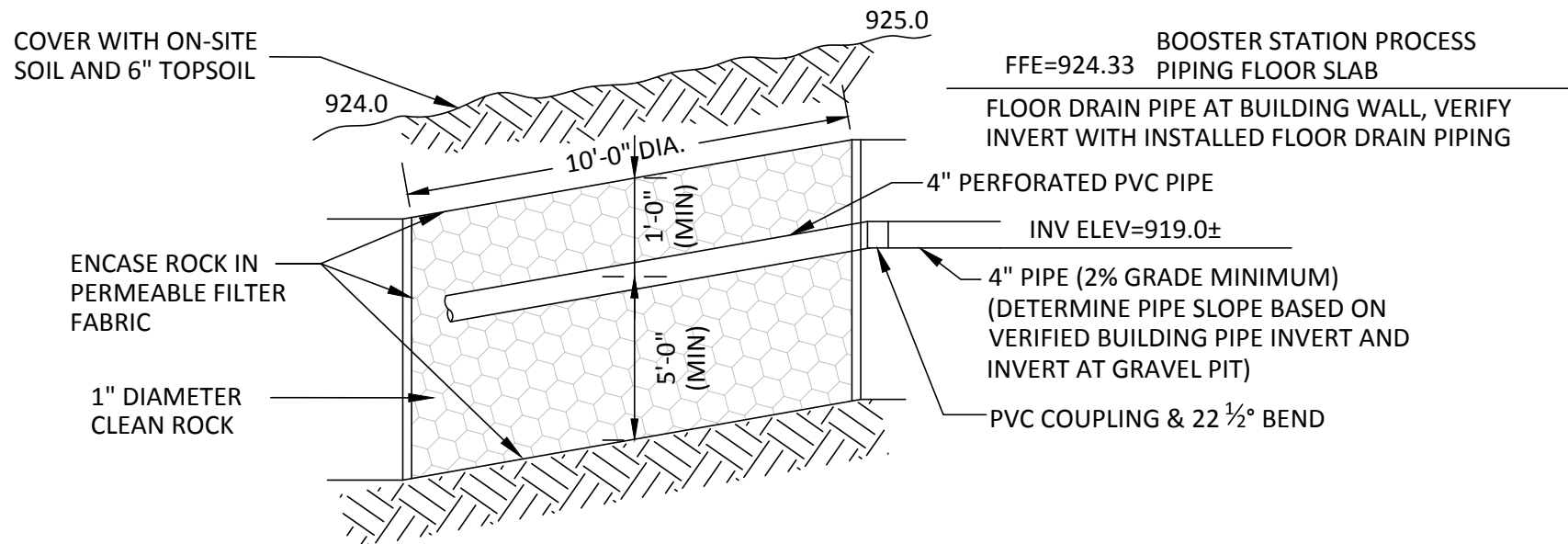
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CONCRETE VALLEY GUTTER
NOT TO SCALE



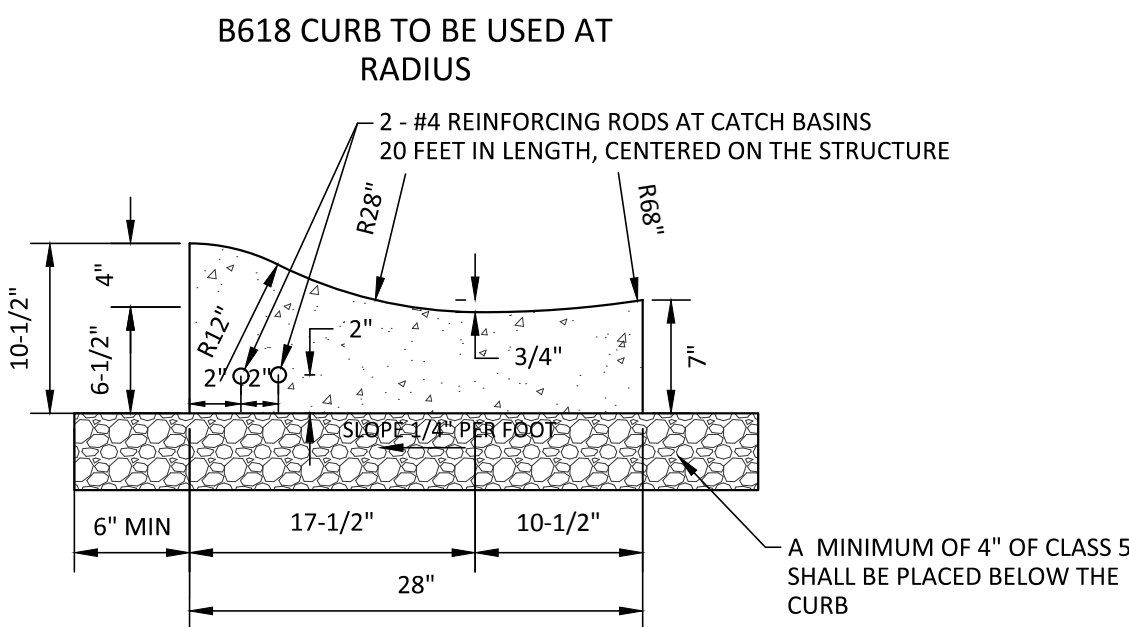
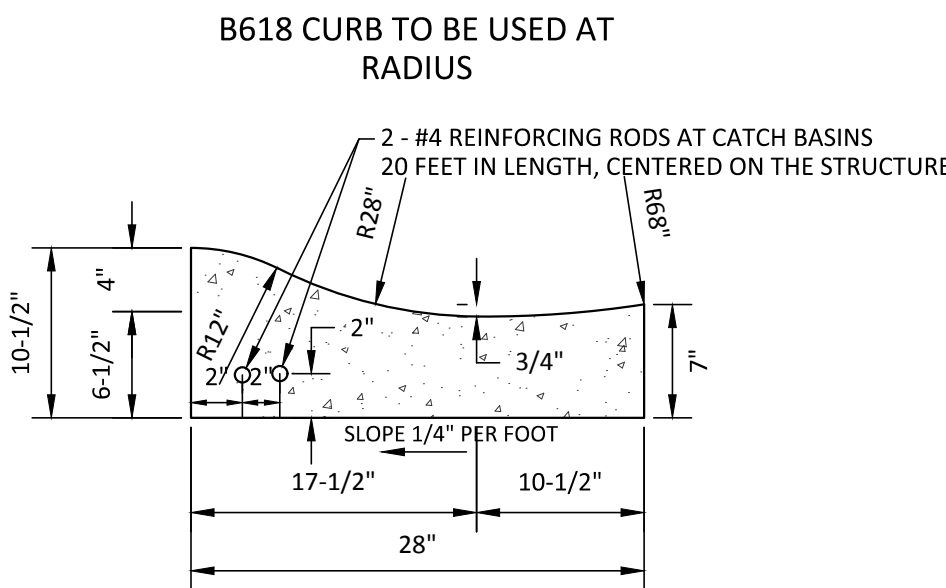
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C9.01
CONCRETE GENERATOR PAD
N.T.S.



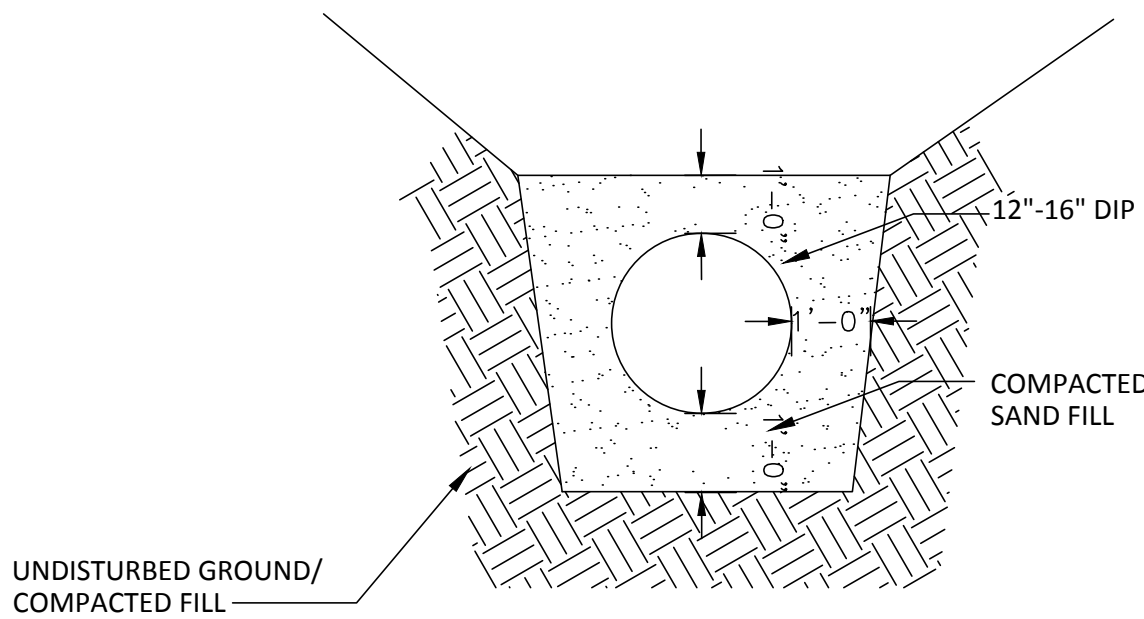
4
C9.01
PIPE BOLLARD
NOT TO SCALE



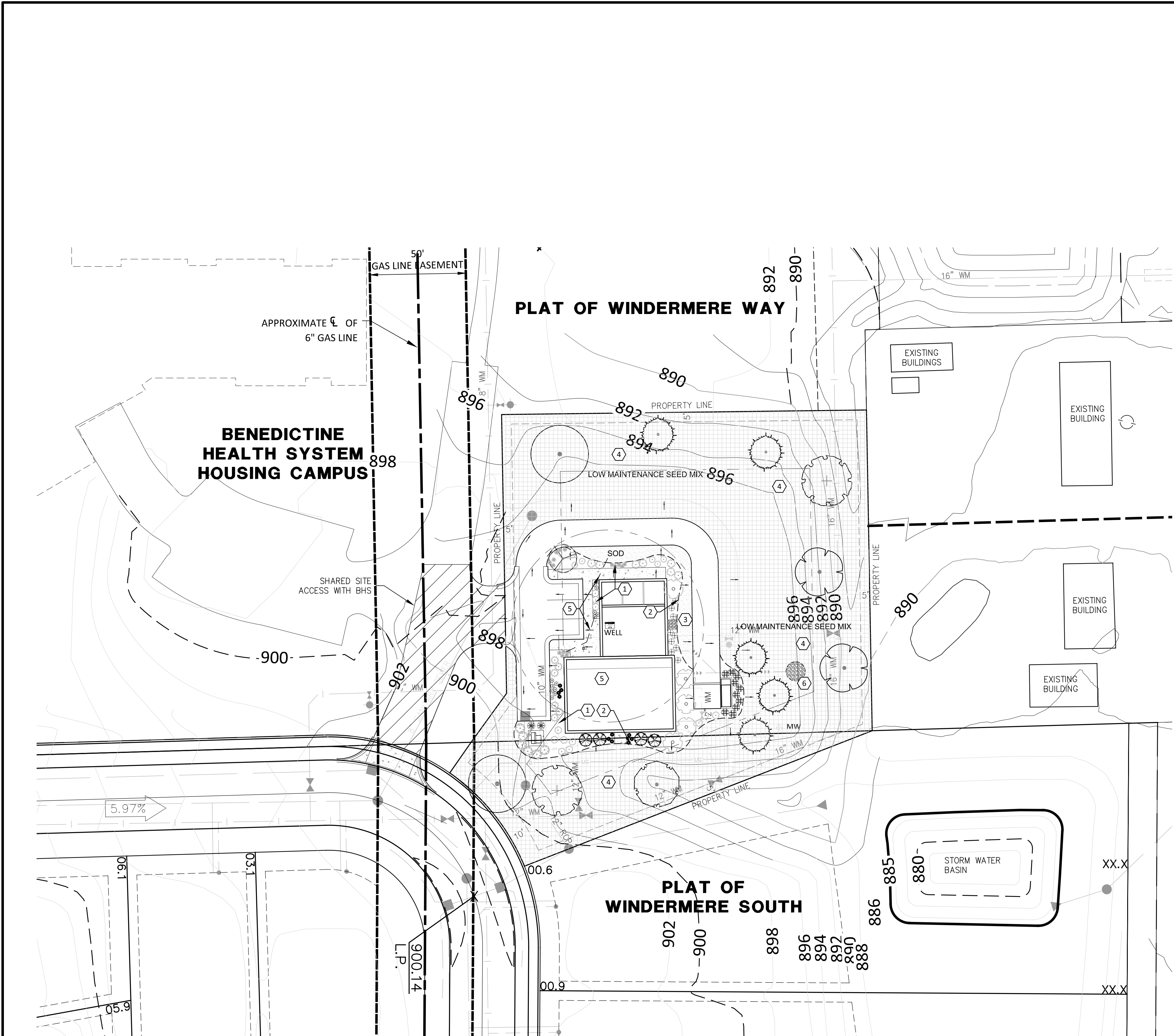
5
C9.01
GRAVEL PIT DETAIL
NOT TO SCALE



7
C9.01
SURMOUNTABLE CONCRETE CURB AND GUTTER
NOT TO SCALE



6
C9.01
DIP PIPE BEDDING DETAIL
NOT TO SCALE



PLANT SCHEDULE							
TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
	SG	Acer freemanii 'Sienna Glen'	Sienna Glen Maple	B & B	2.5"Cal		2
	DP	Betula platyphylla 'Fargo' TM	Dakota Pinnacle Birch	B & B	2"Cal		4
	HB	Celtis occidentalis	Common Hackberry	B & B	2.5"Cal		2
	SO	Quercus bicolor	Swamp White Oak	B & B	2.5"Cal		2
	BL	Tilia americana 'Boulevard'	Boulevard Linden	B & B	2.5"Cal		1
CONIFERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
	NS	Picea abies	Norway Spruce	B & B		6"	5
ORN. TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
	JL	Syringa reticulata	Japanese Tree Lilac	B & B	2"Cal		1
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT			QTY
	HC	Cotoneaster acutifolius lucidus	Hedge Cotoneaster	5 gal			6
	BH	Diervilla lonicera	Dwarf Bush Honeysuckle	5 gal			9
	WE	Euonymus alatus	Winged Euonymus	5 gal			5
	LH	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	5 gal			12
	MJ	Juniperus chinensis 'Mint Julep'	Mint Julep Juniper	5 gal			6
	SJ	Juniperus chinensis 'Spartan'	Spartan Juniper	5'			10
	BJ	Juniperus sabina 'Broadmoor'	Broadmoor Juniper	5 gal			2
	GL	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal			7
	TS	Spiraea betulifolia 'Tor'	Birchleaf Spirea	5 gal			6
GRASSES	CODE	BOTANICAL NAME	COMMON NAME	CONT			QTY
	KFG	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gal			10
PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	CONT			QTY
	BDL	Hemerocallis x 'Baja'	Baja Daylily	1 gal			16
	AFS	Sedum x 'Autumn Fire'	Autumn Fire Sedum	1 gal			13
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT			QTY
	LMF	LOW MAINT FESCUE MIX	MN STATE SEED MIX # 25-131	-			20,328 sf
	TUR HIG	Turf Sod Highland Sod	Sod	Sod			6,862 sf

GATOR BAGS OR APPROVED EQUAL TREE WATERING SYSTEM TO BE INCLUDED AT EACH TREE - LANDSCAPE CONTRACTOR TO FILL BAGS ONCE A WEEK UNTIL DATE OF OWNER ACCEPTANCE

- GENERAL NOTES
1.

LOW MAINTENANCE GRASS MIX: MNDOT MIX 25-131
2.

COVER CROP: OATS @ 56 lb/AC
3.

COORDINATE GRASS MIX DESIGN WITH OWNER

- LANDSCAPE LEGEND
- 1

RIVER ROCK MULCH 1 1/2" @ 3" DEPTH (5' BED WIDTH AROUND PERIMETER)
- 2

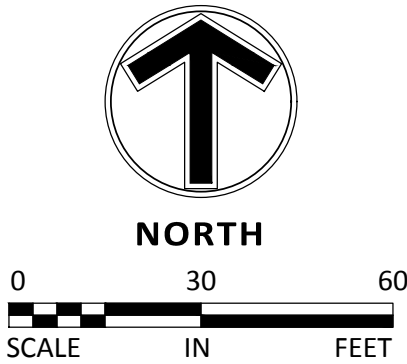
STEEL EDGER (") MULCH LIMITS
- 3

SOD - SEE EROSION CONTROL PLAN FOR SOD LIMITS
- 4

LOW MAINTENANCE GRASS SEED MIX- SEE EROSION CONTROL PLAN FOR SEED LIMITS
- 5

COORDINATE PVC CASING CONDUIT WITH CONTRACTOR
- 6

FLOOR DRAIN GRAVEL PIT. SEE UTILITY PLAN



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Registration No. 40252 Date: 8/14/2018
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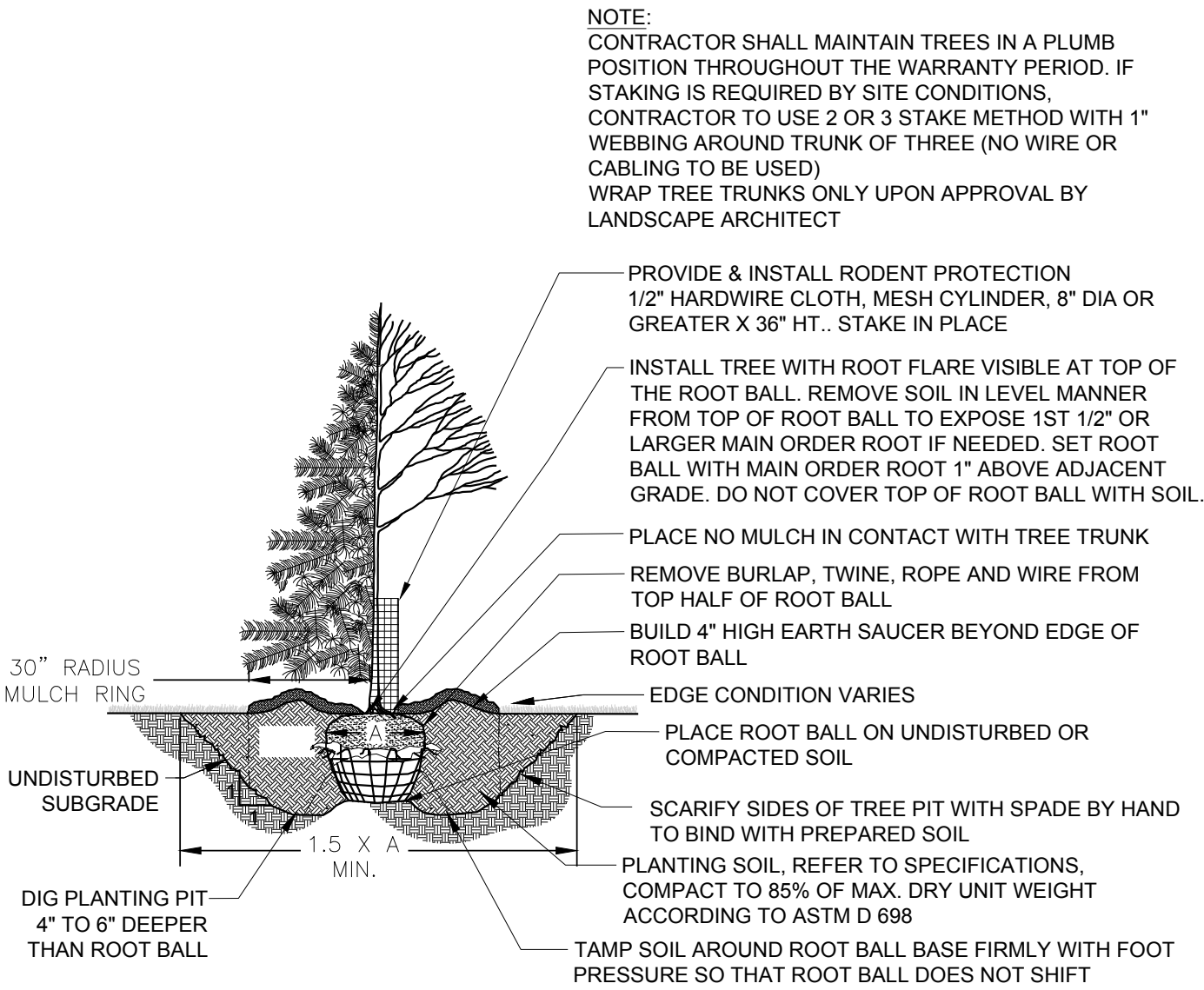
Sheet Title

LANDSCAPE PLAN

Sheet No. Revision

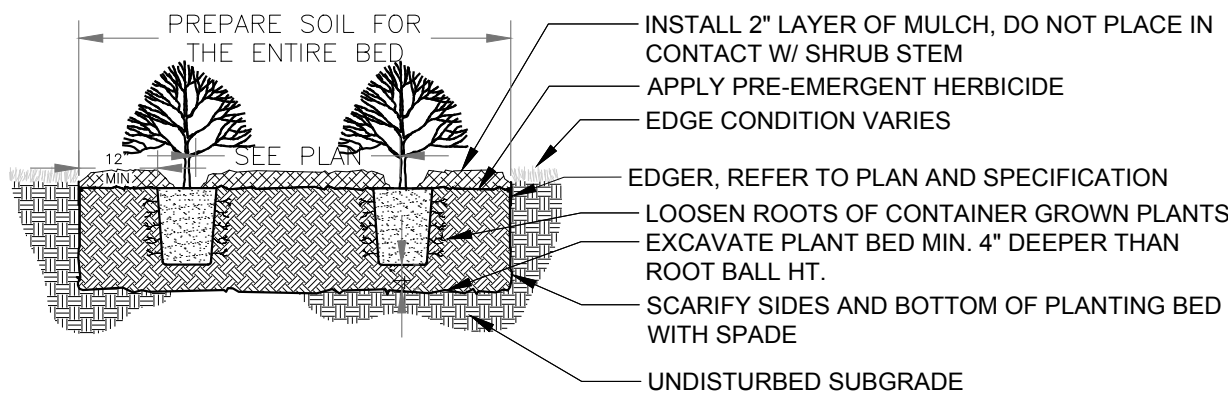
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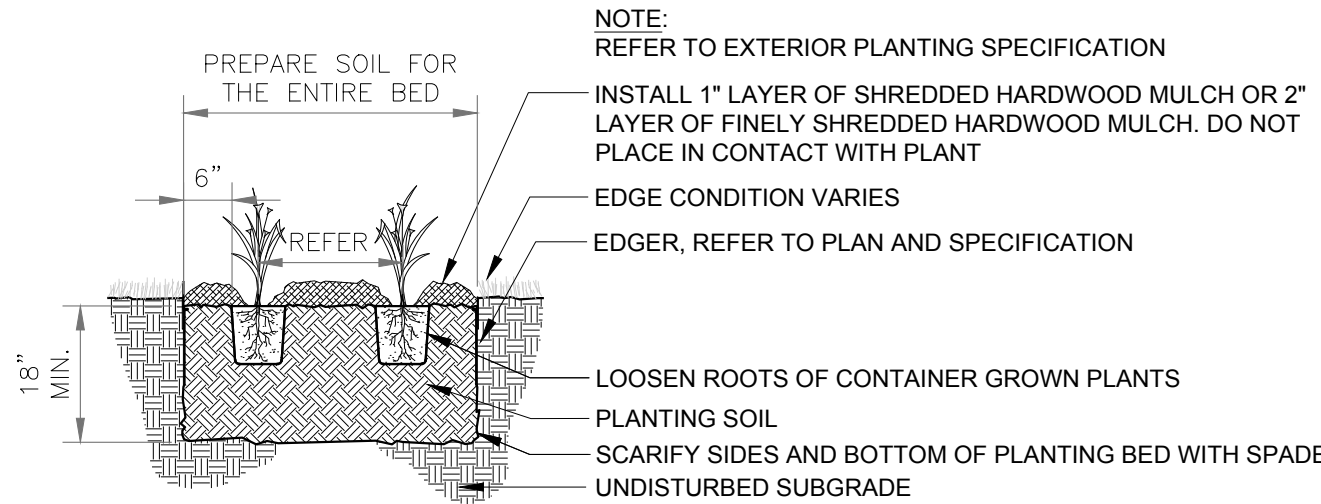
1 TREE PLANTING DETAIL

NTS



2 SHRUB PLANTING DETAIL2

NTS



3 PERENNIAL PLANTING DETAIL

NTS

NOTES

GENERAL NOTES:

- THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
- THE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
- THE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO SAME SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- LOCATE AND VERIFY ALL UTILITIES, INCLUDING IRRIGATION LINES, WITH THE OWNER FOR PROPRIETARY UTILITIES AND GOPHER STATE ONE CALL 48 HOURS BEFORE DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ANY DAMAGES TO SAME. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.**
- THE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
- THE PLAN TAKES PRECEDENCE OVER THE LANDSCAPE LEGEND IF DISCREPANCIES EXIST. QUANTITIES SHOWN IN THE PLANTING SCHEDULE ARE FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON THE PLAN.
- THE SPECIFICATIONS TAKE PRECEDENCE OVER THE PLANTING NOTES AND GENERAL NOTES.
- EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED TO THE DRIP LINE FROM ALL CONSTRUCTION TRAFFIC, STORAGE OF MATERIALS ETC. WITH 4' HT. ORANGE PLASTIC SAFETY FENCING ADEQUATELY SUPPORTED BY STEEL FENCE POSTS 6' O.C. MAXIMUM SPACING.
- LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.
- CONTRACTOR SHALL REQUEST IN WRITING, A FINAL ACCEPTANCE INSPECTION.

PLANTING NOTES:

- NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- A GRANULAR PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANT BEDS AT THE MANUFACTURERS RECOMMENDED RATE PRIOR TO PLANT INSTALLATION.
- ALL PLANTING STOCK SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK," ANSI-Z60, LATEST EDITION, OF THE AMERICAN ASSOCIATION OF NURSEYMEN, INC. AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS.
- OVERSTORY TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE PAVED SURFACES.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE AND BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE LANDSCAPE LEGEND.
- PLANT MATERIALS TO BE INSTALLED PER PLANTING DETAILS.
- ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING, OR AFTER INSTALLATION.
- NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL QUANTITIES, SHAPES OF BEDS AND LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN AND ADJUSTED TO CONFORM TO THE EXACT CONDITIONS OF THE SITE. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIALS PRIOR TO INSTALLATION.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- MULCH: SHREDDED HARDWOOD MULCH, CLEAN AND FREE OF NOXIOUS WEEDS OR OTHER DELETERIOUS MATERIAL, IN ALL MASS PLANTING BEDS AND FOR TREES, UNLESS INDICATED AS ROCK MULCH ON DRAWINGS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT PRIOR TO DELIVERY ON SITE FOR APPROVAL. DELIVER MULCH ON DAY OF INSTALLATION. USE 4" FOR SHRUB BEDS, AND 3" FOR PERENNIAL/GROUND COVER BEDS, UNLESS OTHERWISE DIRECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE THE WORK SHOWN ON THE PLAN.
- USE ANTI-DESICCANT (WILT-PRUF OR APPROVED EQUAL) ON DECIDUOUS PLANTS MOVED IN LEAF AND FOR EVERGREENS MOVED ANYTIME. APPLY AS PER MANUFACTURER'S INSTRUCTION. ALL EVERGREENS SHALL BE SPRAYED IN THE LATE FALL FOR WINTER PROTECTION DURING WARRANTY PERIOD.
- PLANTING SOIL FOR TREES, SHRUBS AND GROUND COVERS: FERTILE FRIABLE LOAM CONTAINING A LIBERAL AMOUNT (4% MIN.) OF HUMUS AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL COMPLY WITH MNDOT SPECIFICATION 3877 TYPE B SELECT TOPSOIL. MIXTURE SHALL BE FREE FROM HARDPACK SUBSOIL, STONES, CHEMICALS, NOXIOUS WEEDS, ETC. SOIL MIXTURE SHALL HAVE A PH BETWEEN 6.1 AND 7.5 AND 10-0-10 FERTILIZER AT THE RATE OF 3 POUNDS PER CUBIC YARD. IN PLANTING BEDS INCORPORATE THIS MIXTURE THROUGHOUT THE ENTIRE BED IN A 6" LAYER AND ROTO-TILLING IT INTO THE TOP 12" OF SOIL AT A 1:1 RATIO. ANY PLANT STOCK NOT PLANTED ON DAY OF DELIVERY SHALL BE HELED IN AND WATERED UNTIL INSTALLATION. PLANTS NOT MAINTAINED IN THIS MANNER WILL BE REJECTED.

- ALL PLANTS SHALL BE GUARANTEED FOR TWO COMPLETE GROWING SEASONS (APRIL 1 - NOVEMBER 1), UNLESS OTHERWISE SPECIFIED. THE GUARANTEE SHALL COVER THE FULL COST OF REPLACEMENT INCLUDING LABOR AND PLANTS.
- CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 3 DAYS PRIOR TO PLANNED DELIVERY. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 24 HOURS IN ADVANCE OF BEGINNING PLANT INSTALLATION.
- SEASONS/TIME OF PLANTING AND SEEDING: NOTE: THE CONTRACTOR MAY ELECT TO PLANT IN OFF-SEASONS ENTIRELY AT HIS/HER RISK. DECIDUOUS
 - POTTED PLANTS: 4/1 - 6/1; 9/21 - 11/1
 - DECIDUOUS /B&B: 4/1 - 6/1; 9/21 - 11/1
 - EVERGREEN POTTED PLANTS: 4/1 - 6/1; 9/21-11/1
 - EVERGREEN B&B: 4/1 - 5/1; 9/21 - 11/1
 - TURF/LAWN SEEDING: 4/1 - 6/1; 7/20 - 9/20
 - NATIVE MIX SEEDING: 4/1 - 7/20; 9/20-10/20
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PORTION OF THE WORK IS IN PLACE. PLANT MATERIAL SHALL BE PROTECTED AND MAINTAINED UNTIL THE INSTALLATION OF THE PLANTS IS COMPLETE. INSPECTION HAS BEEN MADE, AND PLANTINGS ARE ACCEPTED EXCLUSIVE OF THE GUARANTEE. MAINTENANCE SHALL INCLUDE WATERING, CULTIVATING, MULCHING, REMOVAL OF DEAD MATERIALS, RE-SETTING PLANTS TO PROPER GRADE AND KEEPING PLANTS IN A PLUMB POSITION. AFTER ACCEPTANCE, THE OWNER SHALL ASSUME MAINTENANCE RESPONSIBILITIES. HOWEVER, THE CONTRACTOR SHALL CONTINUE TO BE RESPONSIBLE FOR KEEPING THE TREES PLUMB THROUGHOUT THE GUARANTEE PERIOD.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL LANDSCAPE LEGEND SPECIFICATIONS.
- WATERING: MAINTAIN A WATERING SCHEDULE WHICH WILL THOROUGHLY WATER ALL PLANTS ONCE A WEEK. IN EXTREMELY HOT, DRY WEATHER, WATER MORE OFTEN AS REQUIRED BY INDICATIONS OF HEAT STRESS SUCH AS WILTING LEAVES. CHECK MOISTURE UNDER MULCH PRIOR TO WATERING TO DETERMINE NEED. CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR WATER.

TURF NOTES:

- TURF ESTABLISHMENT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROVISIONS OF THE MNDOT 210S AND 257S EXCEPT AS MODIFIED BELOW:
- ALL AREAS TO RECEIVE SOD SHALL ALSO RECEIVE 6" OF TOPSOIL PRIOR TO INSTALLING SOD. TOPSOIL SHALL BE FREE OF TREE ROOTS, STUMPS, BUILDING MATERIAL, AND TRASH, AND SHALL BE FREE OF STONES LARGER THAN 1 3/4" INCHES IN ANY DIMENSION.
 - WHERE SOD ABUTS PAVED SURFACES, FINISHED GRADE OF SOD/SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.
 - SOD SHALL BE LAID PARALLEL TO THE CONTOURS AND SHALL HAVE STAGGERED JOINTS. ON SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES, SOD SHALL BE STAKED SECURELY.
 - TURF ON ALL OTHER AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY SEEDING, MULCHING AND FERTILIZING. SEED MIXTURE NO.25-121 (FORMERLY MNDOT 240) WILL BE PLACED AT THE RATE OF 70 POUNDS PER ACRE.
 - ALL DISTURBED AREAS TO BE TURF SEED, ARE TO RECEIVE 46" TOP SOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. FOR SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES INSTALL EROSION CONTROL BLANKET.
 - ALL DISTURBED AREAS TO RECEIVE NATIVE SEED, ARE TO RECEIVE PLANTING SOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. FOR SLOPES STEEPER THAN 3:1 OR IN DRAINAGE SWALES INSTALL EROSION CONTROL BLANKET.
 - SUPPLEMENT SALVAGED TOPSOIL WITH MNDOT TOPSOIL BORROW (3877)

IRRIGATION NOTES:

- IRRIGATION SYSTEM TO BE DESIGN/BUILD. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL OF SYSTEM LAYOUT PRIOR TO INSTALLATION. ZONE AS REQUIRED FOR A 1 1/2" SOURCE PIPE.
- ALL SOD TO RECEIVE SPRAY OR ROTOR IRRIGATION HEADS WITH MINIMUM DESIGN OF 1" IRRIGATION PER WEEK. PROVIDE A 10' OVERLAP ONTO THE NATIVE GRASS ADJACENT TO SOD.
- ALL PLANT BEDS TO RECEIVE DRIP LINE IRRIGATION, WITH A MINIMUM DESIGN OF .25" IRRIGATION PER WEEK.
- CONTRACTOR TO INSTALL A TOTAL OF 4 QUICK COUPLERS AT THE CORNERS OF THE PROPERTY.
- INSTALL A SYSTEM BLOWOUT BUILDING CONNECTION.

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