



U.S. Department of Veterans Affairs
Veterans Health Administration

PROJECT NAME:
CONSTRUCT NEW SPS

SITE ADDRESS:
2501 WEST 22ND STREET. SIOUX FALLS, SD 57105

VA PROJECT NUMBER:
438-460

OWNER AND CONSULTANTS:

VA COR:
CONTACT: Brooke White
ADDRESS: 2501 WEST 22ND STREET BUILDING 17
SIOUX FALLS, SD 57105
PHONE: 605.338.3233 EX 7693

ARCHITECT:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13065 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441
CONTACT: Giovanni Barbell
PHONE: 763-412-4000

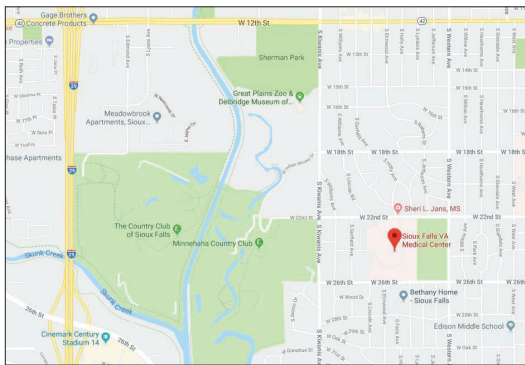
CIVIL ENGINEER:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13065 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441
CONTACT: EDWIN BROCKMARBLE
PHONE: 763-412-4000

STRUCTURAL ENGINEER:
NAME: IMEG Corp.
ADDRESS: 3410 WEST RUSSELL STREET
SIOUX FALLS, SD 57104
CONTACT: Michael Mason
PHONE: 605.331.2505

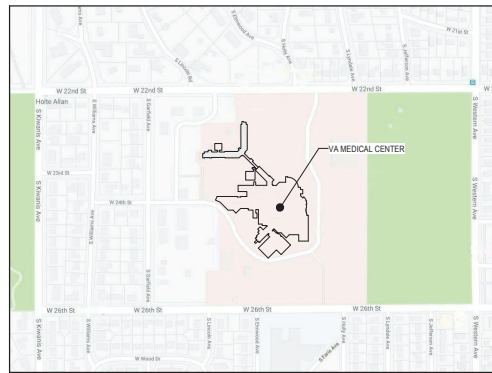
LANDSCAPE ARCHITECTURE:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13065 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441
CONTACT: CURT OLAFYS
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MICHELE/CLUMBER/FIRE ENGINEER:
NAME: IMEG Corp.
ADDRESS: 2882 16TH STREET
DES MOINES, IA 50322
CONTACT: Eric Henderson
PHONE: 603.717.2433

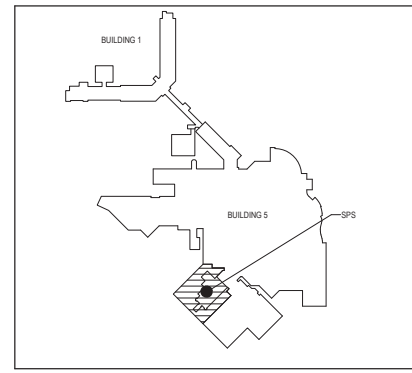
VICINITY MAP:



SITE LOCATION MAP:



KEY PLAN:



CONSULTANT

ARCHITECT/ENGINEER OF RECORD



STAMP

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 Architect under the laws of the State of Minnesota.
[Signature]
Date: 02/14/2025
License Number: 18157

Office of Construction and Facilities Management



Drawing Title

COVER SHEET

Approved:

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

Sioux Falls, SD
Issue Date: 02/14/2025
Checked: LA
Drawn: GJB

Project Number

438-460

Building Number

5

Drawing Number

GI000

28/02/2025 1:52:52 PM
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VA FORM 08 - 6221

SHEET ABBREVIATION AND NUMBERING

DISCIPLINE DESIGNATOR AE 111-01 ARCHITECTURAL ELEMENTS, PLAN, FIRST LEVEL, FLOOR PLAN, ZONE 1	SHEET TYPE DESIGNATOR AF 670 ARCHITECTURAL FINISHES, FINISH SCHEDULE
DISCIPLINE DESIGNATOR QH 110-01 EQUIPMENT HOSPITAL PLAN, FIRST LEVEL, ZONE 1	SHEET TYPE DESIGNATOR AE 512 ARCHITECTURAL ELEMENTS, EXTERIOR PLAN DETAILS

DISCIPLINE DESIGNATOR	SHEET TYPE DESIGNATOR	FLOOR LEVEL	SHEET GROUPING
GC - GENERAL CONTRACT GI - GENERAL INFORMATION AC - ARCHITECTURAL RCP AD - ARCHITECTURAL DEMOLITION AS - ARCHITECTURAL SITE AE - ARCHITECTURAL ELEMENTS AF - ARCHITECTURAL FINISHES IF - INTERIOR FURNISHINGS QC - EQUIPMENT LAUNDRY QF - EQUIPMENT FOOD SERVICE QH - EQUIPMENT HOSPITAL QL - EQUIPMENT LABORATORY	0 - GENERAL 1 - PLANS 2 - ELEVATIONS 3 - SECTIONS 4 - LARGE SCALE VIEWS 5 - DETAILS 6 - SCHEDULES & DIAGRAMS	0 - LOWER LEVEL 1 - FIRST LEVEL 2 - SECOND LEVEL 3 - THIRD LEVEL 4 - FOURTH LEVEL	GENERAL: 00-10 - TITLE SHEET, NOTES, ABBREVIATIONS, SYMBOLS, SCHEDULES PLANS: 1 - LEVEL FLOOR PLAN 2 - DIMENSION PLAN ELEVATIONS: 01-10 - BUILDING SECTIONS 11-19 - INTERIOR ELEVATION SECTIONS: 01-19 - WALL SECTIONS 20-29 - STAIR SECTIONS & PLANS DETAILS: 01-19 - EXTERIOR PLAN DETAILS 20-29 - STAIR SECTIONS & PLANS 30-39 - ROOF DETAILS 40-49 - INTERIOR PLAN DETAILS 50-59 - INTERIOR SECTION DETAILS 60-69 - CEILING DETAILS

NOT ISSUED	ISSUED
ISSUED FOR REFERENCE ONLY	ISSUED AS NOTED

SHEET INDEX - GENERAL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
C000	COVER SHEET	
C001	SHEET INDEX	
C002	ABBREVIATIONS	
C003	GROUND LEVEL LIFE SAFETY PLAN	
C011	INTERSTITIAL FIRST LEVEL LIFE SAFETY PLAN	
C012	GROUND LEVEL INSPECTION CONTROL & PHASING PLAN	
C013	FIRST LEVEL INSPECTION CONTROL & PHASING PLAN	

SHEET INDEX - CIVIL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
V001	SITE SURVEY & MAPPING	
C010	DEMOLITION PLAN	
C011	SITE LAYOUT PLAN	
C012	GRADING PLAN	
C013	EROSION CONTROL PLAN	
C014	STREET PLAN	
C015	STORM SEWER PLAN AND PROFILE	
C016	SANITARY SEWER PLAN AND PROFILE	
C017	STORM SEWER PLAN AND PROFILE	
C018	INTERIOR LAYOUT PLAN	
C019	PAVING & JOINT LAYOUT PLAN	
C020	RAMP SITE DETAILS	
C021	STAIR SITE DETAILS	
C022	RETAINING WALL SITE DETAILS	
C023	PILE DETAILS	
C024	CIVIL DETAILS	
C025	CIVIL DETAILS	
C026	CIVIL DETAILS	
L001	PLANTING PLAN	
L002	PLANTING DETAILS	
L003	SITE FURNISHINGS PLAN	
L004	SITE FURNISHINGS DETAILS	
L005	SITE FURNISHINGS DETAILS	
R001	IRIGATION PLAN	
R002	IRIGATION DETAILS	
R003	IRIGATION DETAILS	
R004	IRIGATION DETAILS	

SHEET INDEX - STRUCTURAL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
E000	GENERAL NOTES	
E001	LISTING SCHEDULES	
E010	PARTIAL BASEMENT FOUNDATION PLAN	
E011	GROUND LEVEL FOUNDATION PLAN	
E012	GROUND LEVEL COLUMN LOGS	
E013	ENLARGED PLANS AND SECTIONS	
E014	SECTIONS - FOUNDATION	
E015	SECTIONS - FOUNDATION	
E016	FIRST FLOOR & ROOF FRAMING PLAN	
E017	ROOF FRAMING PLAN	
E018	SECTIONS - FLOOR	
E019	SECTIONS - ROOF	
E020	SECTIONS - ROOF	
E021	SECTIONS - ROOF	
E022	BRACE FRAME ELEVATIONS & SECTIONS	

SHEET INDEX - HAZARDOUS MATERIALS

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
M001	ASBESTOS CONTAINING MATERIALS	
M002	LEAD CONTAINING MATERIAL	

SHEET INDEX - ARCHITECTURAL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
A001	GROUND LEVEL DEMOLITION PLAN	
A002	INTERSTITIAL FIRST LEVEL DEMOLITION PLAN	
A003	DEMOLITION WALL SECTIONS AND DETAILS	
A004	GROUND LEVEL FLOOR PLAN - FIRE PROTECTION	
A005	GROUND LEVEL DIMENSION PLAN	
A006	INTERSTITIAL FIRST LEVEL FLOOR PLAN	
A007	INTERSTITIAL FIRST LEVEL DIMENSION PLAN	
A008	GROUND LEVEL REFLECTED CEILING PLAN	
A009	INTERSTITIAL FIRST LEVEL REFLECTED CEILING PLAN	
A010	ROOF PLAN	
A011	EXTERIOR ELEVATIONS	
A012	INTERIOR ELEVATIONS	
A013	EXTERIOR SECTIONS	
A014	BUILDING SECTIONS	
A015	BUILDING SECTIONS	
A016	WALL SECTIONS	
A017	WALL SECTIONS	
A018	WALL SECTIONS	
A019	WALL SECTIONS	
A020	STAIR SECTIONS AND ENLARGED PLANS	
A021	STAIR SECTIONS - PARTITIONS AT EETING STAIR	
A022	ENLARGED PLANS & INTERIOR ELEVATIONS	
A023	ENLARGED PLANS & INTERIOR ELEVATIONS	
A024	ENLARGED PLANS & INTERIOR ELEVATIONS	
A025	EXTERIOR PLAN DETAILS	
A026	EXTERIOR PLAN DETAILS	
A027	EXTERIOR SECTION DETAILS	
A028	EXTERIOR SECTION DETAILS	
A029	EXTERIOR SECTION DETAILS	
A030	ROOF DETAILS	
A031	ROOF DETAILS	
A032	INTERIOR PLAN DETAILS	
A033	INTERIOR PLAN DETAILS	
A034	INTERIOR PLAN DETAILS	
A035	INTERIOR SECTION DETAILS	
A036	INTERIOR SECTION DETAILS	
A037	INTERIOR SECTION DETAILS	
A038	INTERIOR SECTION DETAILS	
A039	CEILING DETAILS	
A040	INTERIOR PARTITION & WALL FINISH DETAILS	
A041	THRESH	
A042	DOOR SCHEDULE AND ELEVATION - CAST STONE PROFILE AND WINDOW	
A043	THRESH	
A044	INSULATING HEIGHTS	

SHEET INDEX - INTERIOR

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
I001	FINISH PLANS	
I002	GROUND LEVEL WALL PROTECTION PLAN	
I003	ROOM FINISH SCHEDULE AND INTERIOR FINISH DETAILS	
I004	GROUND LEVEL WALL FINISHING PLAN	
I005	WALL FINISHING SCHEDULES & STORAGE DETAILS	

SHEET INDEX - EQUIPMENT

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
E001	GROUND LEVEL EQUIPMENT PLAN & SCHEDULE	
E002	INTERIOR EQUIPMENT PLAN & SCHEDULE	

SHEET INDEX - FIRE PROTECTION

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
FP00	FIRE PROTECTION COVER SHEET	
FP01	GROUND LEVEL DEMOLITION PLAN - FIRE PROTECTION	
FP02	GROUND LEVEL FLOOR PLAN - FIRE PROTECTION	
FP03	INTERSTITIAL FIRST LEVEL FLOOR PLAN - FIRE PROTECTION	
FP04	FIRE PROTECTION DETAILS	

SHEET INDEX - MECHANICAL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
M000	VENTILATION COVER SHEET	
M001	PIPE BASEMENT DEMOLITION PLAN - VENTILATION	
M002	GROUND LEVEL FLOOR DEMOLITION PLAN - VENTILATION	
M003	FIRST LEVEL DEMOLITION PLAN - VENTILATION	
M004	PIPE BASEMENT FLOOR PLAN - VENTILATION	
M005	GROUND LEVEL FLOOR PLAN - VENTILATION	
M006	INTERSTITIAL FIRST LEVEL FLOOR PLAN - VENTILATION	
M007	ROOF PLAN - VENTILATION	
M008	VENTILATION ENLARGED PLANS	
M009	VENTILATION ENLARGED PLANS	
M010	VENTILATION DETAILS	
M011	VENTILATION DETAILS	
M012	VENTILATION DETAILS	
M013	VENTILATION DETAILS	
M014	VENTILATION SCHEDULES	
M015	PIPING COVER SHEET	
M016	PIPE BASEMENT DEMOLITION PLAN - PIPING	
M017	GROUND LEVEL FLOOR DEMOLITION PLAN - PIPING	
M018	FIRST LEVEL DEMOLITION PLAN - PIPING	
M019	PIPE BASEMENT FLOOR PLAN - PIPING	
M020	GROUND LEVEL FLOOR PLAN - PIPING	
M021	INTERSTITIAL FIRST LEVEL FLOOR PLAN - PIPING	
M022	ROOF PLAN - PIPING	
M023	PIPING DETAILS	
M024	PIPING DETAILS	
M025	HEATING WATER FLOW DIAGRAM	
M026	CHILLED WATER FLOW DIAGRAM	
M027	PIPING SCHEDULES	
M028	CONTROLS COVER SHEET	
M029	GROUND LEVEL FLOOR PLAN - CONTROLS	
M030	FIRST LEVEL FLOOR PLAN - ROOM PRESSURIZATION PLAN	
M031	INTERSTITIAL FIRST LEVEL FLOOR PLAN - CONTROLS	
M032	ROOF PLAN - CONTROLS	
M033	CONTROL DIAGRAMS	
M034	CONTROL DIAGRAMS	
M035	CONTROL DIAGRAMS	
M036	CONTROL DIAGRAMS	

SHEET INDEX - PLUMBING

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
P000	PLUMBING COVER SHEET	
P001	PIPE BASEMENT DEMOLITION PLAN - PLUMBING	
P002	GROUND LEVEL FLOOR DEMOLITION PLAN - PLUMBING	
P003	FIRST LEVEL DEMOLITION PLAN - PLUMBING	
P004	PIPE BASEMENT FLOOR PLAN - PLUMBING	
P005	GROUND LEVEL FLOOR PLAN - PLUMBING	
P006	INTERSTITIAL FIRST LEVEL FLOOR PLAN - PLUMBING	
P007	ROOF PLAN - PLUMBING	
P008	PLUMBING ENLARGED PLANS	
P009	PLUMBING ENLARGED PLANS	
P010	PLUMBING DETAILS	
P011	PLUMBING DETAILS	
P012	PLUMBING DETAILS	
P013	PLUMBING MATERIAL LISTS	

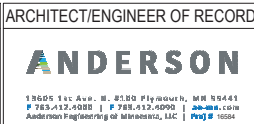
SHEET INDEX - ELECTRICAL

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
E000	ELECTRICAL COVER SHEET	
E001	ELECTRICAL THE RABBY COVER SHEET	
E002	NEW ELECTRICAL SITE PLAN	
E003	GROUND LEVEL FLOOR DEMOLITION PLAN - ELECTRICAL	
E004	ROOF DEMOLITION PLAN - ELECTRICAL	
E005	GROUND LEVEL FLOOR PLAN - LIGHTING	
E006	INTERSTITIAL FIRST LEVEL FLOOR PLAN - LIGHTING	
E007	GROUND LEVEL FLOOR PLAN - POWER	
E008	PARTIAL GROUND LEVEL FLOOR PLAN - POWER	
E009	INTERSTITIAL FIRST LEVEL FLOOR PLAN - POWER	
E010	FIFTH LEVEL FLOOR PLAN - POWER	
E011	GROUND LEVEL FLOOR PLAN - FIRE ALARM	
E012	INTERSTITIAL FIRST LEVEL FLOOR PLAN - FIRE ALARM	
E013	ELECTRICAL DETAILS	
E014	ELECTRICAL DETAILS	
E015	ELECTRICAL DETAILS	
E016	ELECTRICAL ONE LINE DIAGRAMS	
E017	ELECTRICAL ONE LINE DIAGRAMS	
E018	ELECTRICAL SCHEDULES	

SHEET INDEX - TECHNOLOGY

SHEET NO.	SHEET TITLE	ISSUED DOCUMENTS
T000	TECHNOLOGY COVER SHEET	
T001	GROUND LEVEL OVERALL PLAN - TECHNOLOGY	
T002	BASE OF OVERALL PLAN - TECHNOLOGY	
T003	GROUND LEVEL FLOOR DEMOLITION PLAN - TECHNOLOGY	
T004	INTERSTITIAL FIRST LEVEL FLOOR PLAN - TECHNOLOGY	
T005	TECHNOLOGY ROOM ENLARGEMENTS	
T006	TECHNOLOGY DETAILS	
T007	TECHNOLOGY ROOM DIAGRAMS	
T008	TECHNOLOGY SCHEDULES	

Revisions:	Date:



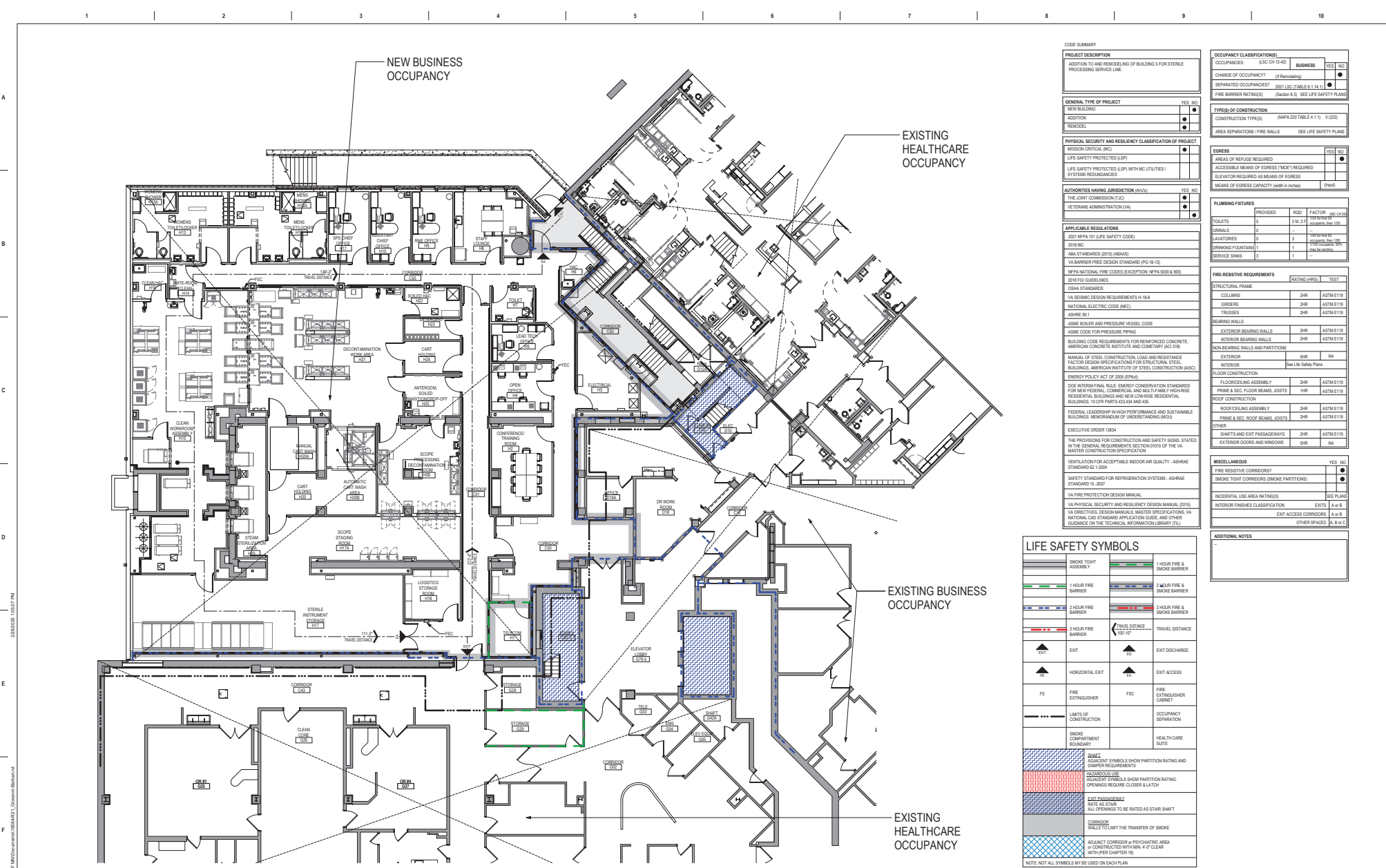
STAMP
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.
Name: *John*
Title: *Architect*

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
SHEET INDEX
Approved:

Phase
BID DOCUMENTS
FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS
Location
Sioux Falls, SD
Issue Date
02/14/2025
Checked
LA
Drawn
GJB
Drawing Number
GI001



CODE SUMMARY

PROJECT DESCRIPTION
ADDITION TO AND REMODELING OF BUILDING 5 FOR STERILE PROCESSING SERVICE LINE.

GENERAL TYPE OF PROJECT
NEW BUILDING: YES NO
ADDITION: YES NO
REMODEL: YES NO

PHYSICAL SECURITY AND RESILIENCY CLASSIFICATION OF PROJECT
MISSION CRITICAL (MC): YES NO
LIFE-SAFETY PROTECTED (LSP): YES NO
LIFE-SAFETY PROTECTED (LSP) WITH/OUT UTILITIES / SYSTEMS REDUNDANCY: YES NO

AUTHORITIES HAVING JURISDICTION (A/HJ)
THE STATE COMMISSION (SC): YES NO
VETERANS ADMINISTRATION (VA): YES NO

APPLICABLE REGULATIONS
2012 NFPA 101 (LIFE SAFETY CODE)
2018 IRC
ASBESTOS (2015) (ASAB)
VA BARRIER FREE DESIGN STANDARD (PG 18-13)
NFPA NATIONAL FIRE CODE (EXCEPTION NFPA 900 & 901)
2018 FGI GUIDELINES
OSHA STANDARDS
VA DESIGN CRITERIA REQUIREMENTS H-18A
NATIONAL ELECTRICAL CODE (NEC)
ASHRAE 90.1
ASME BOILER AND PRESSURE VESSEL CODE
ASME CODE FOR PRESSURE PIPING
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMETARY (ACI 318)
MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL, BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
ENERGY POLICY ACT OF 2005 (EPAC)
DOE INTERNATIONAL RULES ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW OR EXISTING RESIDENTIAL BUILDINGS, 10 CFR PARTS 431.434 AND 435
FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS, MEMORANDUM OF UNDERSTANDING (MOU)
EXECUTIVE ORDER 13526
THE PROVISIONS FOR CONSTRUCTION AND SAFETY BIDDING, STATED IN THE GENERAL REQUIREMENTS SECTION DIVID OF THE VA MASTER CONSTRUCTION SPECIFICATION
SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15-2007
VA FIRE PROTECTION DESIGN MANUAL
VA PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL (2010)
VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARDS APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)

OCCUPANCY CLASSIFICATION
LISC CH 12-42 BUSINESS YES NO
CHANGE OF OCCUPANCY? (If Remodeling) YES NO
SEPARATED OCCUPANCY? 2011 ILC TABLE 1.10.1.1 YES NO
FIRE BARRIER RATINGS (Sketch 8.3) SEE LIFE SAFETY PLANS

TYPES OF CONSTRUCTION
CONSTRUCTION TYPES (NFPA 220 TABLE 4.1.1) 0 (2022)
AREA SEPARATIONS / FIRE WALLS SEE LIFE SAFETY PLANS

EGRESS
AREA OF REFUGE REQUIRED YES NO
ACCESSIBLE MEANS OF EGRESS (MOR) REQUIRED YES NO
ELEVATION REQUIRED AS MEANS OF EGRESS YES NO
MEANS OF EGRESS CAPACITY (width in ft/door) 10/64

PLUMBING FIXTURES
TOILETS PROVIDED: 9 RIDG 2 1/2" x 2" (see sketch 10)
SINKS 2 2" x 2" (see sketch 10)
LAVATORIES 5 3" x 3" (see sketch 10)
DRINKING FOUNTAINS 1 1" (see sketch 10)
SERVICE SINKS 3 1" (see sketch 10)

FIRE RESISTIVE REQUIREMENTS
RATING (HRS) TEST
STRUCTURAL FRAME
COLUMNS 2HR ASTM E119
GIRDERS 2HR ASTM E119
TRUSSES 2HR ASTM E119
BEARING WALLS
EXTERIOR BEARING WALLS 2HR ASTM E119
INTERIOR BEARING WALLS 2HR ASTM E119
NON-BEARING WALLS AND PARTITIONS
EXTERIOR 0HR NA
INTERIOR 0HR NA
FLOOR CONSTRUCTION
FLOORING/CEILING ASSEMBLY 2HR ASTM E119
PRIME & SEC. FLOOR BEAMS, JOISTS 1HR ASTM E119
ROOF CONSTRUCTION
ROOFING/CEILING ASSEMBLY 2HR ASTM E119
PRIME & SEC. ROOF BEAMS, JOISTS 2HR ASTM E119
SHIFTS AND EXIT PASSAGEWAYS 2HR ASTM E119
EXTERIOR DOORS AND WINDOWS 0HR NA

MISCELLANEOUS
FIRE RESISTIVE CORRIDOR? YES NO
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS) YES NO
RESIDENTIAL USE AREA RATINGS SEE PLANS
INTERIOR FINISHES CLASSIFICATION EXITS A, B, C
EXIT ACCESS CORRIDORS A, B, C
OTHER SPACES A, B, C

ADDITIONAL NOTES

LIFE SAFETY SYMBOLS

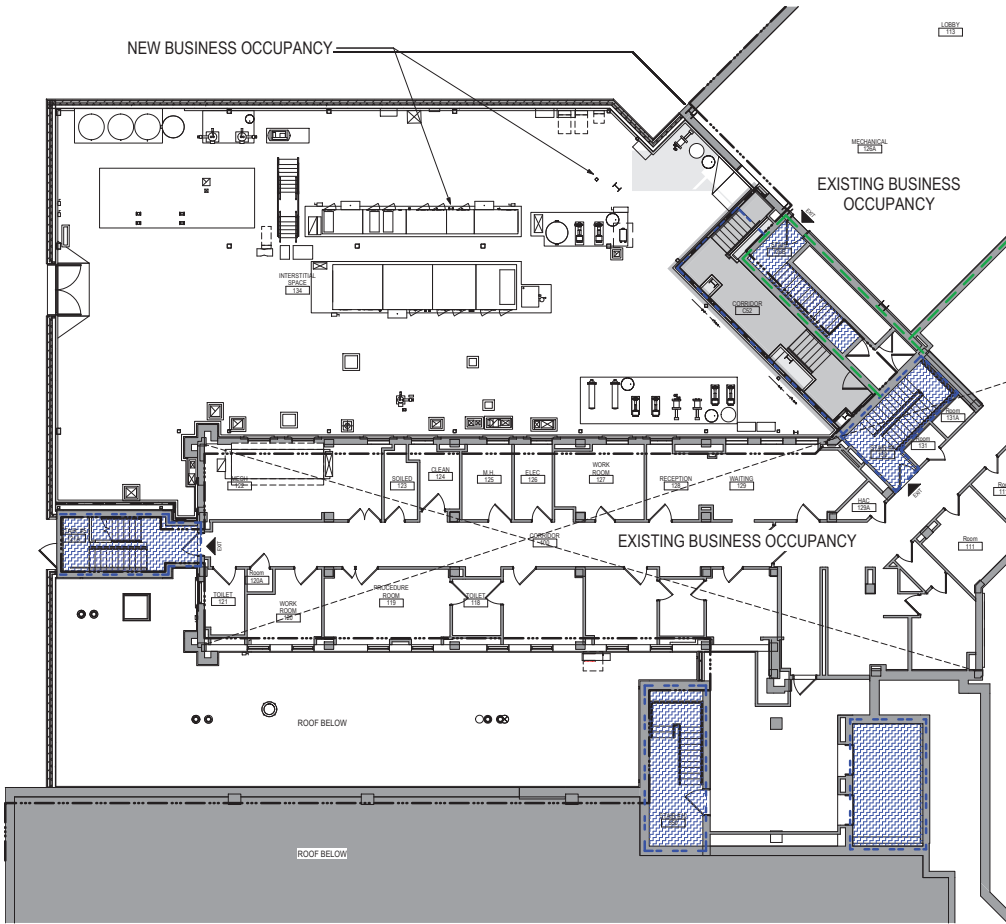
1 HOUR FIRE ASSEMBLY
1 HOUR FIRE BARRIER
2 HOUR FIRE BARRIER
3 HOUR FIRE BARRIER
4 HOUR FIRE BARRIER
TRAVEL DISTANCE 100'-0"

EXIT
EXIT DISCHARGE
HORIZONTAL EXIT
EXIT ACCESS
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
LIMITS OF CONSTRUCTION
SMOKE COMPARTMENT BOUNDARY
SMOKE BARRIER
SMOKE BARRIER WITH DAMPER REQUIREMENTS
ADJACENT SYMBOLS SHOW PARTITION RATINGS. OPENINGS REQUIRE CLOSER & LATCH
EXIT PASSAGEWAY
CORRIDOR
CORRIDOR WELLS TO LIMIT THE TRANSFER OF SMOKE
ADJACENT CORRIDOR or RECREATIVE AREA IS CONSTRUCTED WITH MIN. 4" CLEAR WITH (PER CHAPTER 18)

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

1 GROUND LEVEL FLOOR PLAN
1/8" = 1'-0"

Revisions: _____ Date: _____ _____ Date: _____	CONSULTANT 2002 North 9th Street, Arlington, VA 22202	ARCHITECT/ENGINEER OF RECORD 1960S 3rd Ave. W., 8120 Plymouth, MN 55441 P 763.432.9080 F 788.432.6900 www.a-m.com Anderson Engineering of Minnesota, LLC PWS 16064	STAMP 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 architect under the laws of the State of Minnesota. Name: <i>Michelle</i> Tom O'Neil Date: 02/14/2025 License Number: 18157	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title GROUND LEVEL LIFE SAFETY PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
					Approved: _____	FULLY SPRINKLERED	Location Sioux Falls, SD	Drawing Number G1101



CODE SUMMARY		OCCUPANCY CLASSIFICATION:	
PROJECT DESCRIPTION		OCCUPANCIES (SAC CH 12-42)	
ADDITION TO AND REMODELING OF BUILDINGS FOR STERILE PROCESSING SERVICE LINE		BUSINESS	
GENERAL TYPE OF PROJECT		CHARGE OF OCCUPANCY? (If Remodeling)	
NEW BUILDING		SEPARATED OCCUPANCIES? (2021 IBC TABLE 6.1.1.4)	
ADDITION		FIRE RISK RATING (Detail 6.3) SEE LIFE SAFETY PLANS	
REMODEL		FIRE RISK RATING	
PHYSICAL SECURITY AND RESILIENCY CLASSIFICATION OF PROJECT		TYPES OF CONSTRUCTION	
MISSION CRITICAL AND		CONSTRUCTION TYPE(S) (NFPA 220 TABLE 4.1.1) # (202)	
LIFE SAFETY PROTECTED (LSP)		AREA SEPARATIONS / FIRE WALLS	
LIFE SAFETY PROTECTED (LSP) WITH MISC UTILITIES / SYSTEMS REDUNDANCES		SEE LIFE SAFETY PLANS	
AUTHORITIES HAVING JURISDICTION (AHJ):		EGRESS	
THE JOINT COMMISSION (TJC)		AREA OF REFUGE REQUIRED	
VETERANS ADMINISTRATION (VA)		ACCESSIBLE MEANS OF EGRESS / MOEY REQUIRED	
APPLICABLE REGULATIONS		ELEVATOR REQUIRED AS MEANS OF EGRESS	
2021 NFPA 101 LIFE SAFETY CODE		MEANS OF EGRESS CAPACITY (width in inches) (Impd)	
2018 IBC		PLUMBING FIXTURES	
ABA STANDARDS (2018) (ABAS)		PROVIDED	
VA BARRIER FREE DESIGN STANDARD (PG-18.13)		TOILETS	
NFPA NATIONAL FIRE CODE (EXCEPTION NFPA 900 & 901)		URINALS	
2018 FGI GUIDELINES		SINKS	
OSHA STANDARDS		DRAINING FIXTURE(S)	
VA SEISMIC DESIGN REQUIREMENTS H-18.8		SERVICE SINKS	
NATIONAL ELECTRIC CODE (NEC)		ROOF CONSTRUCTION	
ASME B31		FLOORING ASSEMBLY	
ASME BOILER AND PRESSURE VESSEL CODE		ROOF CEILING ASSEMBLY	
ASME CODE FOR PRESSURE PIPING		PRIME & SEC. ROOF BEAMS, JOISTS	
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND CONCRETE ACI 318		SHAFTS AND EXIT PASSAGeways	
MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL, BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)		EXTERIOR DOORS AND WINDOWS	
ENERGY POLICY ACT OF 2005 (EPAC)		MISCELLANEOUS	
DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTIFAMILY HIGH-RISE RESIDENTIAL BUILDINGS, U.S. DEPARTMENT OF ENERGY		FIRE RESISTIVE CORRIDORS	
FEDERAL LEADERSHIP IN HIGH-PERFORMANCE AND SUSTAINABLE BUILDINGS MEMORANDUM OF UNDERSTANDING (MOU)		SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS)	
EXECUTIVE ORDER 13824		INCIDENTAL USE AREA RATINGS	
THE PROVISIONS FOR CONSTRUCTION AND SAFETY SICK, STATED IN THE GENERAL REQUIREMENTS SECTION 500.0 OF THE VA MASTER CONSTRUCTION SPECIFICATION		INTERIOR FINISHES CLASSIFICATION	
VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1-2004		EXIT ACCESS CORRIDORS	
SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15-2007		OTHER SPACES	
VA FIRE PROTECTION DESIGN MANUAL			
VA PHYSICAL SECURITY AND RESILIENCY DESIGN MANUAL (2015)			
VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)			

LIFE SAFETY SYMBOLS	
	1 HOUR FIRE BARRIER
	2 HOUR FIRE BARRIER
	3 HOUR FIRE BARRIER
	4 HOUR FIRE BARRIER
	EXIT
	HORIZONTAL EXIT
	FIRE EXTINGUISHER
	LIMITS OF CONSTRUCTION
	SMOKE COMPARTMENT BOUNDARY
	1 HOUR FIRE & SMOKE BARRIER
	2 HOUR FIRE & SMOKE BARRIER
	3 HOUR FIRE & SMOKE BARRIER
	TRAVEL DISTANCE
	EXIT DISCHARGE
	EXIT ACCESS
	FIRE EXTINGUISHER CABINET
	OCCUPANCY SEPARATION
	HEALTH CARE SUITE
	STAIR
	WINDOW USE
	EXIT PASSAGEWAY
	CORRIDOR
	ADJACENT CORRIDOR or PSYCHIATRIC AREA

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

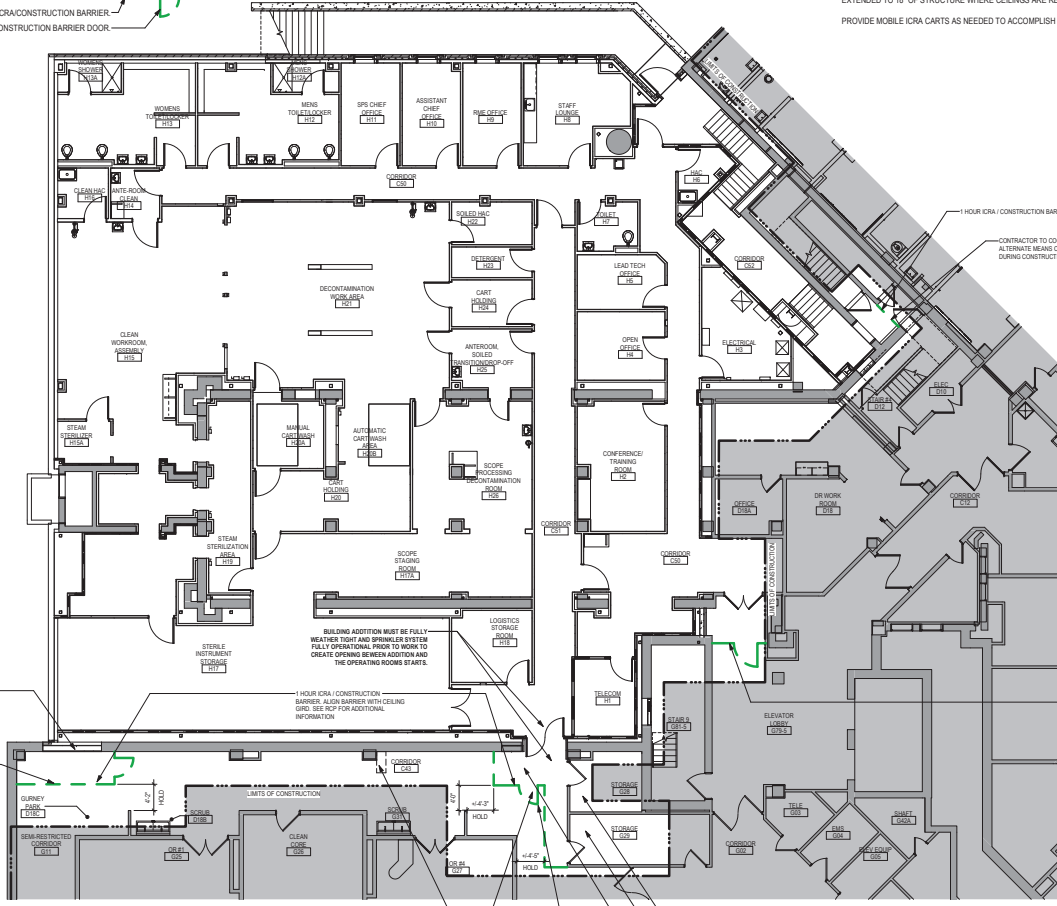
1 INTERSTITIAL / FIRST LEVEL LIFE SAFETY PLAN
18" = 1'-0"

Revisions: _____ Date: _____ CONSULTANT 2002 10th St, Virginia, VA 23222	ARCHITECT/ENGINEER OF RECORD 13605 3rd Ave. W. #1200 Plymouth, MN 55441 P 788.432.9080 F 788.432.5000 www.anderson-engineering.com Anderson Engineering of Minnesota, LLC PWS 16064	U.S. Department of Veterans Affairs Office of Construction and Facilities Management VA	Drawing Title INTERSTITIAL/FIRST LEVEL LIFE SAFETY PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460		
							Stamp 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 Architect under the laws of the State of Minnesota. Name: <i>John</i> Tom Olson Date: 02/14/2025 License Number: 18157	Drawing Number 5
Fully Sprinklered			Approved: _____		Location Sioux Falls, SD	Issue Date 02/14/2025	Checked LA	Drawn GJB

2502025 135115 PM

NOTE:
 PROVIDE 1 HOUR FIRE RATED, STARC SYSTEMS FIRE-ROCK WALL PANELS OR APPROVED EQUIV FOR ALL ICRA CONSTRUCTION BARRIERS.
 WHERE CEILING IS COMPLETELY REMOVED, MODIFY SPRINKLER HEADS TO BE UPLIFTED AND EXTENDED TO 18" OF STRUCTURE WHERE CEILING IS REMOVED.
 PROVIDE MOBILE ICRA CARTS AS NEEDED TO ACCOMPLISH WORK OR AS DIRECTED BY COR.

LIMITS OF CONSTRUCTION
 1 HOUR ICRA CONSTRUCTION BARRIER
 1 HOUR ICRA CONSTRUCTION BARRIER DOOR



1 GROUND LEVEL FLOOR PLAN
 1/8" = 1'-0"

INFECTION CONTROL & CONSTRUCTION BARRIER GENERAL NOTES

- SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION.
- THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA BARRIER NEEDS TO BE SEALED COMPLETELY. CONSTRUCTION BARRIER SPECIFIED AND DUCT TAPE DURING OPERATIONS. WHERE PERMITTED BY CLASS ICRA, CONSTRUCTION BARRIERS PROVIDED AS SPECIFIED AND LISTED IN ICRA CLASS.
- PROVIDE NEGATIVE PRESSURE MONITORS DURING CONSTRUCTION OPERATIONS AS SPECIFIED. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOMS AS DIRECTED BY VA.
- ALL CONSTRUCTION PROGRESS FROM TYPE III, TYPE II, AND TYPE I ARE THEREBY WAIVED. A REQUEST FOR INFECTION CONTROL CONSTRUCTION PERMIT TO THE VA FACILITY CONTROL NUMBER. SIGN AUTHORIZATION NUMBER MUST BE MET BY CONSTRUCTION. PROVIDE AT LEAST TEN (10) WORKING DAYS NOTICE FOR EACH PERMIT.
- CONSTRUCT ICRA CONSTRUCTION BARRIERS FROM FLOOR TO DECK FLOOR ABOVE. EXCEPTION, IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH MUST NOT BE DEMOLISHED AND TERMINATES TO FLOOR/DECK ABOVE, THEN CONSTRUCT DUST PROOF ICRA BARRIER. SEE DETAILS FOR TAPE, MESH, JOISTS AND PORT AND PANO CONSTRUCTION SIDE OF BARRIER.
- CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 AM AND AFTER 6:00 PM OR DIRECTED BY COR.
- DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS. MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF. (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 3000 SF. AND (3) THREE FOR AREAS BETWEEN 3000 SF AND 10000 SF.
- LIFE SAFETY EGRESS IS TO BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXHAUST THE REGULATED AREA AIR VOLUME IN FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUMULATIVE VOLUME OF THE REGULATED AREA BY (16) SIXTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUMULATIVE FLOW RATE FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED. EFFICIENCY FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED. EFFICIENCY FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED. EFFICIENCY FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED. EFFICIENCY FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED.
- PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED PARTITIONS, CONSTRUCT NEW SMOKE BARRIER APPROPRIATE FIRE RATED PARTITIONS PER 9.1 AND OR CONSTRUCTION INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.

CONSTRUCTION PHASING GENERAL NOTES

- THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES. A PHASE CAN INCLUDE MULTIPLE LOCATION AREAS. SEE SPECIFICATIONS SECTION 01 30 1.6 G PHASING.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE PLANS, VALUATING AREAS, AND SCHEDULES FOR PHASING AND SEQUENCING.
- THE GENERAL CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER SO DELAYING WORK UNDER THIS CONTRACT, OR OTHER CONTRACTS ON THE PROJECT BY WORKING BY OWNER.
- THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL INDICATE THE SEQUENCE, COMMITMENT AND COMPLETION DATES, OWNER INSPECTION AND ACCEPTANCE DATES AND WORK OUT AND MOVE IN DATES OF OWNER'S DESCRIPTION FOR ALL PHASES OF THE WORK.
- THE GENERAL CONTRACTOR SHALL PERFORM THE WORK IN EACH PHASE IN THE SEQUENCE SHOWN ON THE PHASING PLAN (DRAWING) AND CONSTRUCTION PHASING DESCRIPTION.
- THE GENERAL CONTRACTOR MUST COMPLETE ALL WORK IN EACH PHASE WITH THE VA INSPECTING AND ACCEPTING THE WORK PRIOR TO VA OCCUPANCY AND THE CONTRACTOR PROCEEDING TO THE NEXT SCHEDULED PHASE. UPON COMPLETION OF A PARTICULAR PHASE, THE ENTIRE AREA COVERED BY THAT PHASE CAN BE OCCUPIED BY THE VA PERSONNEL WITH ALL SYSTEMS FUNCTIONING PROPERLY.
- BEFORE COMMENCING WORK ON EACH SUCCESSIVE PHASE, THE GENERAL CONTRACTOR SHALL SUBMIT AN UPDATED COPY OF THE SCHEDULE.
- ANY ICRA CONSTRUCTION BARRIERS CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE START OF DEMOLITION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE REQUIRED.
- THE CONTRACTOR SHALL PERFORM ALL WORK ADJACENT TO OCCUPIED AREAS IN SUCH A MANNER TO ENSURE THE CONTINUOUS AND UNINTERRUPTED OPERATION OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.
- FOR ADDITIONAL NOTES AND INFORMATION REFER TO INFECTION CONTROL, DRAWINGS AND DEMOLITION PLANS.
- ANY INFORMATION REGARDING REQUIREMENTS PROVIDED IN THE DOCUMENTS IS FOR ARCHITECT OWNER PLANNING PURPOSES ONLY.
- THE CONTRACTOR SHALL PLAN FOR A MINIMUM OF 4 WEEKS TIME BETWEEN PHASES TO ALLOW THE VA TO OCCUPY THE NEWLY ACCEPTED PHASE AND VACUATE THE FOLLOW ON PHASES. THE VA WILL OCCUPY THIS TIME WHEN PHASES AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.

CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA)

TYPE	DESCRIPTION	RISK LEVEL	CONTROL MEASURES
TYPE A	INFECTIONS AND NON-RESPIRABLE ACTIVITIES INCLUDES, BUT NOT LIMITED TO: REMOVAL OF CURB TILES FOR VISUAL INSPECTION LIMITED TO 1 TILES PER 50 SQUARE FEET. PAINTING BUT NOT SANDING WALL COVERSING. ELECTRICAL TRIM WORK. WINDOW FLUSHING AND ACTIVITIES WHICH DO NOT GENERATE DUST OR RESPIRABLE PARTICLES OR WELLS ACCESS TO CEILING OTHER THAN FOR VISUAL INSPECTION.	GROUP 1 LOW RISK	MECHANICAL SPACES, AREAS NOT DIRECTLY ADJACENT TO PATIENT CARE. ISOLATE WETWORK SPACES. ENGINEERING OR ME OFFWORK AREA. SPRINKLER ROOMS NOT ATTACHED TO ADJACENT PATIENT CARE AREAS. NOT USED FOR PATIENT INTERVIEWS, EVALUATIONS OR PATIENT CARE. PUBLIC CORRIDORS SPACES NOT OR DIRECTLY ATTACHED TO PATIENT CARE OR TREATMENT LOCATIONS.
TYPE B	SMALL SCALE, SHORT DURATION ACTIVITIES WHICH CREATE MINIMAL DUST INCLUDES, BUT IS NOT LIMITED TO: INSTALLATION OF TELEPHONE AND COMPUTER CABLES. ACCESS TO SHAPE SPACES. CUTTING OF WALLS OR CEILING WHERE DUST MOTION CAN BE CONTROLLED. FLOOR COVERING REMOVAL, WITHOUT SANDING OR GRINDING.	GROUP 2 MEDIUM RISK	OUTPATIENT AREAS. PRIMARY CARE OR SPECIALTY CARE CLINIC AREAS. BEHAVIORAL MENTAL HEALTH AREAS. EXTENDED CARE / PAIN CLINIC AREAS. COMBUSTIBLE BASED OUT PATIENT CLINIC (CROSS).
TYPE C	ANY WORK THAT GENERATES MODERATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIBER BUILDING COMPONENTS OR ASBESTOS INCLUDES, BUT IS NOT LIMITED TO: SANDING OF WALLS FOR PAINTING OR WALL COVERING. REMOVAL OF FLOOR COVERING. CEILING TILES AND CASING. NEW WALL CONSTRUCTION. MINOR DUCTWORK OR ELECTRICAL WORK ABOVE CEILING. MAJOR CEILING ACTIVITIES, AND ANY ACTIVITY WHICH CANNOT BE COMPLETED WITHIN A SINGLE WORK SHIFT. FLOOR COVERING REMOVAL WITH SANDING OR GRINDING.	GROUP 3 HIGH RISK	INPATIENT UNITS. INCLUDES, BUT NOT LIMITED TO: DEMOGRAPHY OFFICE. SURGING UNITS. RADIOLOGY. MICROTUBING. NUCLEAR MEDICINE. CARCINOGEN/IONIZING RADIATION LABORATORIES. MODERNIZATION/DIALYSIS.
TYPE D	MAJOR DEMOLITION AND CONSTRUCTION PROJECTS INCLUDES, BUT IS NOT LIMITED TO: ACTIVITIES WHICH REQUIRE CONSTRUCTIVE WORK SHIFTS. REQUIRE HEAVY DEMOLITION OR REMOVAL OF A COMPLETE CEILING SYSTEM. FLOORING AND NEW CONSTRUCTION.	GROUP 4 HIGHEST RISK	ICUS/ICU ORP/OPERATING SERVICES (SPS) PHARMACY OUTPATIENT
CLASS I	KEEP AREAS FREE OF DEBRIS. TRASH FACILITY WORK TO MINIMIZE OR DUST MOTION (E.G. WET MOPPING, HEPA VACUUM) IMMEDIATELY REPLACE ANY CEILING TILE REPLACED FOR VISUAL INSPECTION (INCLUDING MINOR DEMOLITION MAINTENANCE OR REMEDIATION).		
CLASS II	SAME AS CLASS I PLUS: 1. ESTABLISH MATERIAL AND DEBRIS ROUTE USING NON-PATIENT/VIEWER PATHWAY 2. COMPLETE MET WORK SURFACE TO CONTROL DUST WHILE CUTTING OR DRILLING. 3. BLOCK OFF AND SEAL AIR VENTS 4. SEAL UNUSED DOORS WITH PLASTIC SHEATHING AND DUCT TAPE 5. CREATE BARRIERS AS DEFINED BY INFECTION PREVENTION 6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. TANK COVERING UNLESS SOLID LID. 7. NET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA. 8. PLACE STUCK MAT AT ALL WORK ENTRANCES AND EXITS 9. REMOVE OR ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA		
CLASS III	SAME AS CLASS I AND II PLUS: 1. ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA TO PREVENT DUST SYSTEM CONTAMINATION 2. COMPLETE CRITICAL BARRIERS (E.G. SHEETROCK, PLUMBING, PLASTIC) AT ALL CONSTRUCTION ENTRANCES AND EXITS. MONITOR FOR SEAL AND TAKE IMMEDIATE CORRECTIVE ACTION AS NEEDED 3. MAINTAIN AND MONITOR NEGATIVE AIR PRESSURE WITHIN CONSTRUCTION SITE (INCLUDING HEPA EQUIPPED AIR FILTRATION UNITS) 4. REMOVE OR ISOLATE HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED 5. CHECK AND REPLACE AIR FILTERS AS NEEDED REGULARLY 6. DO NOT REMOVE BARRIERS FROM WORK SITE UNTIL PROJECT IS COMPLETE. A HAS BEEN THOROUGHLY CLEANED. REMOVE BARRIERS CAREFULLY TO MINIMIZE SPREADING DUST DEBRIS 7. VACUUM WORK WITH HEPA FILTERED VACUUM 8. NET MOP AREA WITH CLEANER/DISINFECTANT 9. MINIMIZE VIBRATION AND NOISE TO LOWEST IMPACT WHERE POSSIBLE 10. DISPLAY ICRA AT SITE 11. SEAL HOLES, PIPES, CONDUITS AND PUNCTURES.		
CLASS IV	SAME AS CLASS I AND II PLUS: 1. INSPECT ADJACENT AREAS FOR DUST MOTION. TAKE IMMEDIATE CORRECTIVE AS NEEDED 2. USE HEPA VACUUM IN AREA PRIOR TO START OF CONSTRUCTION 3. CONSTRUCT ENTIRE ROOM. ALL PERSONNEL MUST ENTER THROUGH IT TO BE VACUUMED USING HEPA VACUUM BEFORE LEAVING OR TO DODOFF PPE		

INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE

PHASE: ALL CONSTRUCTION PROJECT ACTIVITY TYPE: D INFECTION CONTROL RISK GROUP: GROUP 4 HIGH RISK CONTROL PROCEDURE CLASS: IV
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Revisions:	Date:

CONSULTANT
IMEG
 2002 10th St, Virginia, VA 23222

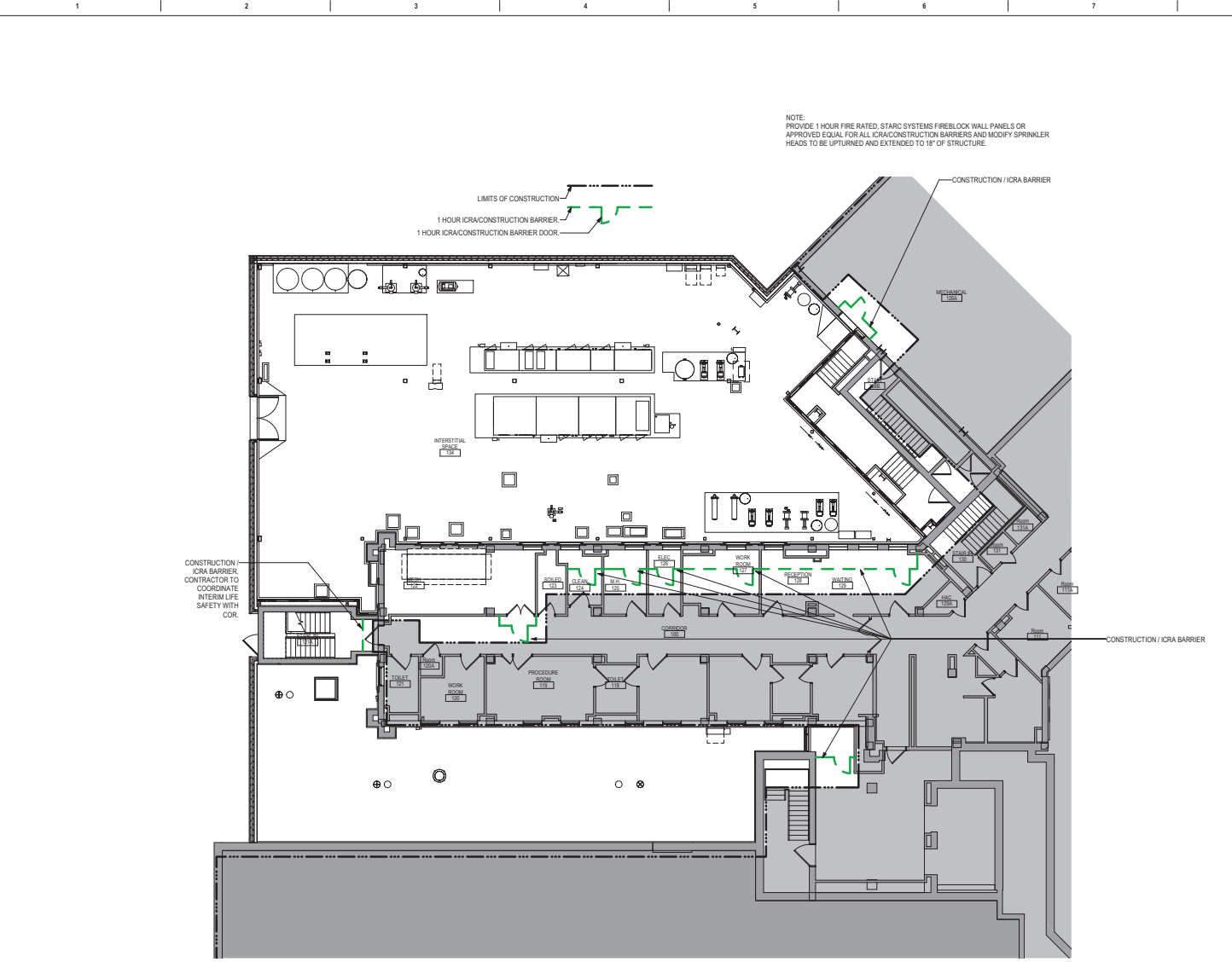
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 Anderson Engineering & Architecture, LLC | P 609 3 16504

STAMP
 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 architect under the laws of the State of Minnesota.
 Name: *Wade*
 Title: *Architect*
 Date: 02/14/2025
 License Number: 18157

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
GROUND LEVEL INFECTION CONTROL & LIFE SAFETY PLAN
 Approved: _____

Phase	BID DOCUMENTS	Project Title	CONSTRUCT NEW SPS	Project Number	438-460
	FULLY SPRINKLERED	Location	Sioux Falls, SD	Bidding Number	5
		Issue Date	02/14/2025	Drawing Number	GC101
		Checked	LA	Drawn	GJB



NOTE:
PROVIDE 1 HOUR FIRE RATED, STARC SYSTEMS FIREBLOCK WALL PANELS OR APPROVED EQUAL FOR ALL ICRA CONSTRUCTION BARRIERS AND MODIFY SPRINKLER HEADS TO BE UPLIFTED AND EXTENDED TO 18" OF STRUCTURE.

- ### INFECTION CONTROL & CONSTRUCTION BARRIER GENERAL NOTES
- SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION
 - THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH SHEET PLASTIC AS SPECIFIED AND DUCT TAPE DURING OPERATION, WHERE PERMITTED BY CLASS ICRA. CONSTRUCTION BARRIERS TO BE PROVIDED AS SPECIFIED AND LISTED IN ICRA CLASS.
 - PROVIDE NEGATIVE PRESSURE MONITORS DURING CONSTRUCTION OPERATIONS AS SPECIFIED. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOMS AS DIRECTED BY VA.
 - ALL CONSTRUCTION OPERATIONS FROM TYPE III TO THE CLASS THEREOF, PROVIDE A REQUEST VIA INFECTION CONTROL CONSTRUCTION PERMIT TO THE VA INFECTION CONTROL NURSE. SIGN AUTHORIZATION MUST BE MET FIRST BY CONSTRUCTION. PROVIDE AT LEAST TEN (10) WORKING DAYS NOTICE FOR EACH PERMIT.
 - CONSTRUCT ICRA INFECTION CONTROL BARRIERS FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION, IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WORK MUST NOT BE CLASSIFIED AND TERMINATED TO FLOOR/DECK ABOVE. THEN CONSTRUCT DUST PROOF ICRA BARRIER. SEE DETAILS TAP, MAC, DASH, JOINTS AND PART ON/NOX CONSTRUCTION SIDE OF BARRIER.
 - CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 AM AND AFTER 5:00 PM OR DIRECTED BY COR.
 - DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS, MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 3000 SF, AND (3) THREE FOR AREAS BETWEEN 3000 SF AND 10000 SF.
 - LIFE SAFETY EGRESS IS TO BE MAINTAINED AT ALL TIMES.
 - THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXHAUST THE REGULATED AREA AIR VOLUME IN FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUMULATIVE VOLUME OF THE REGULATED AREA BY (16) SIXTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUMULATIVE PER MINUTE FLOW EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED. EFFECTIVE FLOW RATE IS TO BE MAINTAINED AND PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY AIR ASSISTANCE.
 - PRIOR TO ANY REMOVAL OF BARRIER FIRE RATED PARTITIONS, CONSTRUCT NEW BARRIER APPROPRIATE FIRE RATED PARTITIONS PER CLASS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.

- ### CONSTRUCTION PHASING GENERAL NOTES
- THE WORK UNDER THIS CONTRACT SHALL BE DIVIDED INTO PHASES. A PHASE CAN INCLUDE MULTIPLE LOCATION AREAS. SEE SPECIFICATIONS SECTION 01 30 1.6 G PHASING.
 - THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER. THE GENERAL CONTRACTOR SHALL PROVIDE A BARRIER INDICATIVE TO THE PHASING CONSTRUCTION PHASING AND SEQUENCING PLAN, VALIDATING AND ENDORSEMENT ON THE PHASING DESCRIPTION.
 - THE GENERAL CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER SO DELAYING WORK UNDER THE CONTRACT, OR OTHER CONTRACTS ON THE PROJECT SITE UNDER THE OWNER'S CONTROL.
 - THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL INDICATE THE SEQUENCE, COMMENCEMENT AND COMPLETION DATES, OWNER INSPECTION AND APPROVAL DATES AND MOVE-OUT AND MOVE-IN DATES OF OWNER'S INSPECTION FOR ALL PHASES OF THE WORK.
 - THE GENERAL CONTRACTOR SHALL PERFORM THE WORK IN EACH PHASE IN THE SEQUENCE SHOWN ON THE PHASING PLAN (DRAWING) AND CONSTRUCTION PHASING DESCRIPTION.
 - THE GENERAL CONTRACTOR MUST COMPLETE ALL WORK IN EACH PHASE WITH THE VA INSPECTING AND ACCEPTING THE WORK PRIOR TO VA OCCUPANCY AND THE CONTRACTOR PROCEEDING TO THE NEXT SCHEDULED PHASE. UPON COMPLETION OF A PARTICULAR PHASE, THE ENTIRE AREA COVERED BY THAT PHASE CAN BE OCCUPIED BY THE VA PERSONNEL WITH ALL SYSTEMS FUNCTIONING PROPERLY.
 - BEFORE COMMENCING WORK ON EACH SUCCESSIVE PHASE, THE GENERAL CONTRACTOR SHALL SUBMIT AN UPDATED COPY OF THE SCHEDULE.
 - ANY ICRA CONSTRUCTION BARRIERS CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE START OF ISOLATION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE REQUIRED.
 - THE CONTRACTOR SHALL PERFORM ALL WORK ADJACENT TO ALL OCCUPIED AREAS IN SUCH A MANNER TO ENSURE THE CONTINUOUS AND UNINTERRUPTED USE OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.
 - FOR ADDITIONAL NOTES AND INFORMATION REFER TO INFECTION CONTROL DRAWINGS AND SPECIFICATIONS.
 - ANY INFORMATION REGARDING BARRIERS PROVIDED IN THE DOCUMENTS IS FOR ARCHITECT OWNER PLANNING PURPOSES ONLY.
 - THE CONTRACTOR DURING CONSTRUCTION SHALL MAINTAIN REQUIRED MEANS OF EGRESS THROUGHOUT ALL PHASING.
 - THE CONTRACTOR SHALL PLAN FOR A MINIMUM OF 4 WEEKS TIME BETWEEN PHASES TO ALLOW THE VA TO OCCUPY THE NEWLY ACQUIRED SPACE AND VACATE THE FOLLOWING PHASE. THE VA WILL ACCELERATE THIS TIME WHEN POSSIBLE AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.

CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA)

TYPE	DESCRIPTION	RISK GROUP
TYPE A	INFECTIONS AND NON-INDUSTRIAL ACTIVITIES INCLUDES, BUT NOT LIMITED TO: REMOVAL OF CURB TILES FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET. PAINTING BUT NOT SANDING WALL COVERS, ELECTRICAL TUBING WORK, WINDOW PLUMBING, AND ACTIVITIES WHICH DO NOT GENERATE DUST OR REQUIRE CUTTING OF WALLS OR ACCESS OPENINGS OTHER THAN FOR VISUAL INSPECTION.	GROUP 1 LOW RISK
TYPE B	SMALL SCALE, SHORT DURATION ACTIVITIES WHICH CREATE MINIMAL DUST INCLUDES, BUT IS NOT LIMITED TO: INSTALLATION OF WALLPHONE AND COMPUTER CABLES, ACCESS TO CHASE SPACES, CUTTING OF WALLS OR CEILING WHERE DUST MIGRATION CAN BE CONTROLLED, FLOOR COVERING REMOVAL, UNPAVED SANDING OR GRINDING.	GROUP 2 MEDIUM RISK
TYPE C	ANY WORK THAT GENERATES ADEQUATE TO HIGH LEVEL OF DUST OR REQUIRES DEMOLITION OR REMOVAL OF ANY FIBER-BUILDING COMPONENTS OR SURFACES INCLUDES, BUT IS NOT LIMITED TO: SANDING OF WALLS FOR PAINTING OR FLOOR COVERING, REMOVAL OF FLOOR COVERINGS, CEILING TILES AND CASINGS, NEW WALL CONSTRUCTION, MINOR DEMOLITION OR ELECTRICAL WORK ABOVE CEILING, MAJOR CEILING ACTIVITIES, AND ANY ACTIVITY WHICH CANNOT BE COMPLETED WITHIN A SINGLE WORK SHIFT. FLOOR COVERING REMOVAL, UNPAVED SANDING OR GRINDING.	GROUP 3 HIGH RISK
TYPE D	MAJOR DEMOLITION AND CONSTRUCTION PROJECTS INCLUDES, BUT IS NOT LIMITED TO: ACTIVITIES WHICH REQUIRE CONSTRUCTIVE WORK SHIFTS, REQUIRE HEAVY DEMOLITION OR REMOVAL OF A COMPLETE CEILING SYSTEM, FLOORING AND NEW CONSTRUCTION.	GROUP 4 HIGHEST RISK
CLASS I	KEEP AREAS FREE OF DEBRIS, TRASH FACILITY WORK TO MINIMIZE OR DUST MIGRATION (E.G. WET MOPPING, HEPA VACUUM) IMMEDIATELY REPLACE ANY CEILING TILE REPLACED FOR VISUAL INSPECTION (INCLUDING MINOR DEMOLITION OR MAINTENANCE OR REBUILDING)	
CLASS II	SAME AS CLASS I PLUS: 1. ESTABLISH MATERIAL AND DEBRIS ROUTE USING NON-PATENTED ENTRY PATHWAY 2. COMPLETE MET WORK SURFACE TO CONTROL DUST WHILE CUTTING OR DRILLING 3. BLOCK OFF AND SEAL AIR VENTS 4. SEAL UNPAVED DOORS WITH PLASTIC SHEATHING AND DUCT TAPE 5. CREATE BARRIERS AS DEFINED BY INFECTION PREVENTION 6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS, TARE COVERED UNLESS SOLD LO. 7. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA. 8. PLACE EGRESS MAT AT ALL WORK AREA ENTRANCES AND EXITS 9. REMOVE OR ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA	
CLASS III	SAME AS CLASS I AND II PLUS: 1. ISOLATE HVAC SYSTEM IN CONSTRUCTION AREA TO PREVENT DUCT SYSTEM CONTAMINATION 2. COMPLETE CRITICAL BARRIERS (E.G. SHEETROCK, PL WOOD, PLASTIC) AT ALL CONSTRUCTION ENTRIES AND EXITS, MONITOR FOR SEAL AND TAKE IMMEDIATE CORRECTIVE ACTION AS NEEDED 3. MAINTAIN AND MONITOR NEGATIVE AIR PRESSURE WITHIN CONSTRUCTION SITE INCLUDING HEPA EQUIPPED AIR FILTRATION UNITS 4. REMOVE OR ISOLATE HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED 5. CHECK AND REPLACE AIR FILTERS AS NEEDED REGULARLY 6. DO NOT REMOVE BARRIERS FROM WORK SITE UNTIL PROJECT IS COMPLETE. HAS BEEN THOROUGHLY CLEANED; REMOVE BARRIERS CAREFULLY TO MINIMIZE SPREADING DUST DEBRIS 7. VACUUM WORK WITH HEPA FILTERED VACUUM 8. WET MOP AREA WITH CLEANER/DISINFECTANT 9. PARTICULATE VENT AND NOISE TO LOWEST IMPACT WHERE POSSIBLE 10. DISPLAY ICRA AT SITE 11. SEAL HOLES, PIPES, CONDUITS AND PUNCTURES.	
CLASS IV	SAME AS CLASS I AND II PLUS: 1. INSPECT ADJACENT AREAS FOR DUST MIGRATION, TAKE IMMEDIATE CORRECTIVE AS NEEDED 2. USE HEPA VACUUM IN AREA PRIOR TO START OF CONSTRUCTION 3. INSTRUCT ANTE ROOM. ALL PERSONNEL MUST ENTER THROUGH IT TO BE VACUUMED USING HEPA VACUUM BEFORE LEAVING OR TO DODOFF PPE	

INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE

PHASE: ALL
CONSTRUCTION PROJECT ACTIVITY TYPE: 0
INFECTION CONTROL RISK GROUP: GROUP 4 - HIGH RISK
CONTROL PROCEDURE CLASS: IV

1 FIRST LEVEL ICRA, CONSTRUCTION BARRIER & PHASING PLAN
1/8" = 1'-0"

Revisions:	Date:

CONSULTANT

3002 10th St, Virginia, VA 22202

ARCHITECT/ENGINEER OF RECORD

1860S 3rd Ave. W., 8120 Plymouth, MN 55441
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Anderson Engineering of Minnesota, LLC | PWS 16064

STAMP

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 architect under the laws of the State of Minnesota.

Name: *Wade*
Title: *Architect*
Date: 02/14/2025
License Number: 18157

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST LEVEL INFECTION CONTROL & PHASING PLAN

Approved: _____

Phase
BID DOCUMENTS

FULLY SPRINKLERED

Project Title
CONSTRUCT NEW SPS

Location
Sioux Falls, SD

Issue Date
02/14/2025

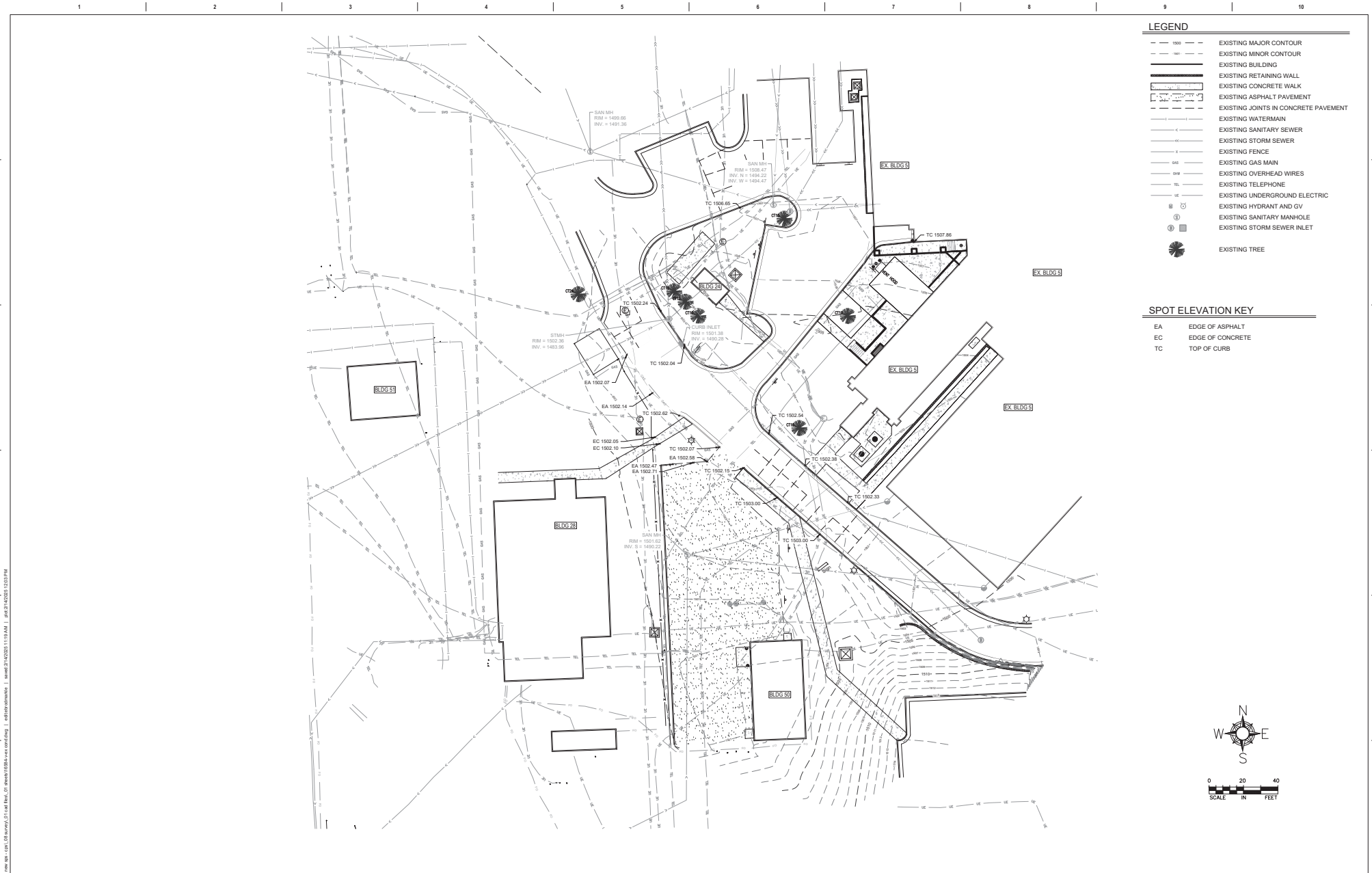
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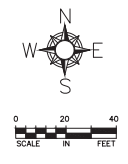
Project Number
438-460

Drawing Number
5

Drawing Number
GC111



Plot Date: 02/14/2025 12:56:45 PM; User: rick; Job Number: 438-460; Drawing Title: CONSTRUCT NEW SPS; Project Location: SIOUX FALLS, SOUTH DAKOTA; Issue Date: 02/14/2025; Issue Number: 5; Drawing Number: VB101; Revisions: 1; Date:



Revisions:	Date:

CONSULTANTS

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STAMP

Office of Construction and Facilities Management

Drawing Title

SITE SURVEY & MAPPING

Approved: Project Director

SIOUX FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

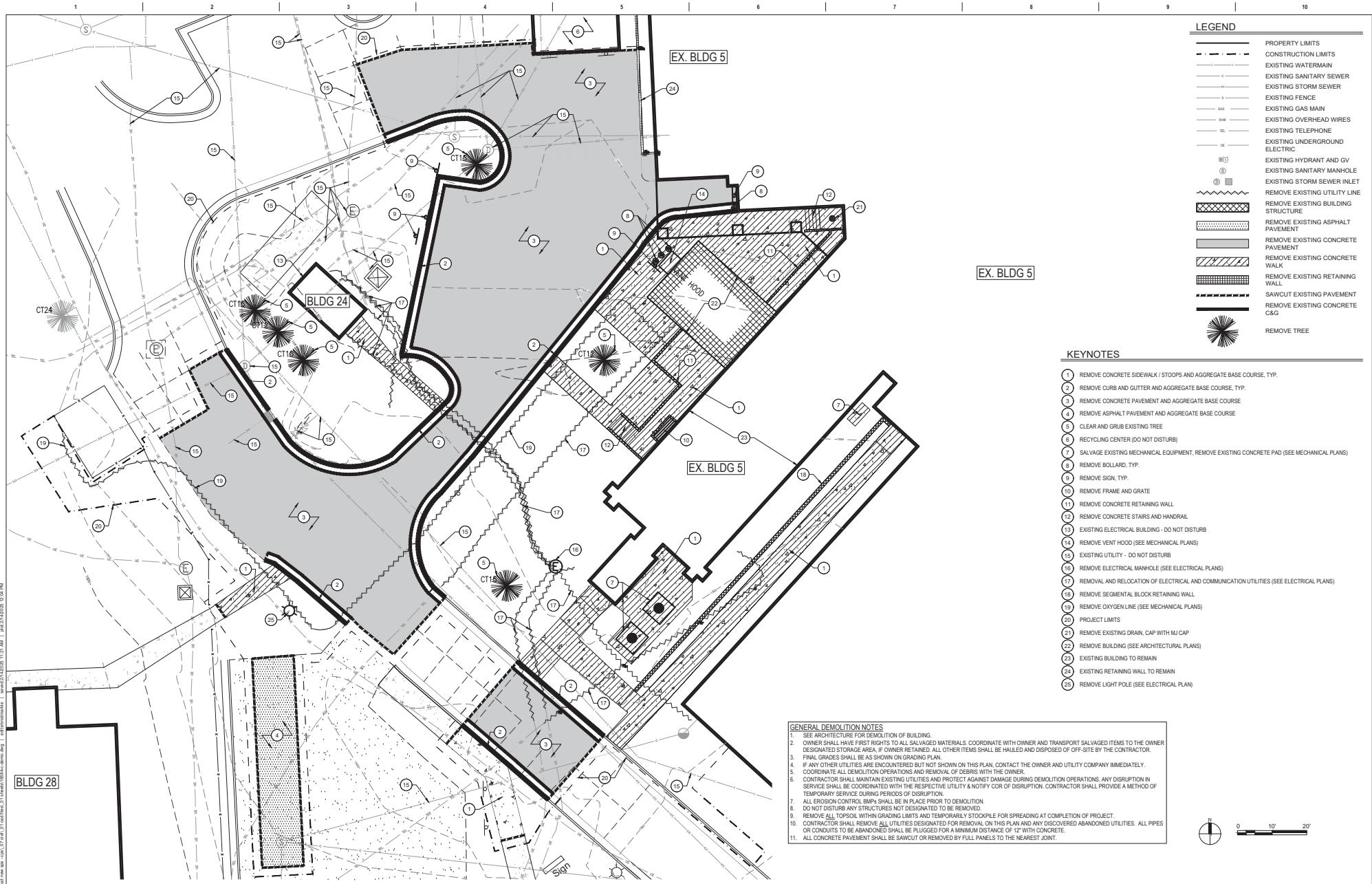
SIOUX FALLS, SOUTH DAKOTA

Issue Date 02/14/2025 **Checked** EB **Drawn** AB

Project Number 438-460

Building Number 5

Drawing Number VB101



LEGEND

---	PROPERTY LIMITS
- - -	CONSTRUCTION LIMITS
---	EXISTING WATERMAIN
---	EXISTING SANITARY SEWER
---	EXISTING STORM SEWER
---	EXISTING FENCE
---	EXISTING GAS MAIN
---	EXISTING OVERHEAD WIRES
---	EXISTING TELEPHONE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING HYDRANT AND GV
---	EXISTING SANITARY MANHOLE
---	EXISTING STORM SEWER INLET
---	REMOVE EXISTING UTILITY LINE
---	REMOVE EXISTING BUILDING STRUCTURE
---	REMOVE EXISTING ASPHALT PAVEMENT
---	REMOVE EXISTING CONCRETE PAVEMENT
---	REMOVE EXISTING CONCRETE WALK
---	REMOVE EXISTING RETAINING WALL
---	SAWCUT EXISTING PAVEMENT
---	REMOVE EXISTING CONCRETE C&G
---	REMOVE TREE

KEYNOTES

- REMOVE CONCRETE SIDEWALK / STOOPS AND AGGREGATE BASE COURSE, TYP.
- REMOVE CURB AND GUTTER AND AGGREGATE BASE COURSE, TYP.
- REMOVE CONCRETE PAVEMENT AND AGGREGATE BASE COURSE
- REMOVE ASPHALT PAVEMENT AND AGGREGATE BASE COURSE
- CLEAR AND GRUB EXISTING TREE
- RECYCLING CENTER (DO NOT DISTURB)
- SALVAGE EXISTING MECHANICAL EQUIPMENT, REMOVE EXISTING CONCRETE PAD (SEE MECHANICAL PLANS)
- REMOVE BOLLARD, TYP.
- REMOVE SIGN, TYP.
- REMOVE FRAME AND GRATE
- REMOVE CONCRETE RETAINING WALL
- REMOVE CONCRETE STAIRS AND HANDRAIL
- EXISTING ELECTRICAL BUILDING - DO NOT DISTURB
- REMOVE VENT HOOD (SEE MECHANICAL PLANS)
- EXISTING UTILITY - DO NOT DISTURB
- REMOVE ELECTRICAL MANHOLE (SEE ELECTRICAL PLANS)
- REMOVAL AND RELOCATION OF ELECTRICAL AND COMMUNICATION UTILITIES (SEE ELECTRICAL PLANS)
- REMOVE SEGMENTAL BLOCK RETAINING WALL
- REMOVE OXYGEN LINE (SEE MECHANICAL PLANS)
- PROJECT LIMITS
- REMOVE EXISTING DRAIN, CAP WITH MJ CAP
- REMOVE BUILDING (SEE ARCHITECTURAL PLANS)
- EXISTING BUILDING TO REMAIN
- EXISTING RETAINING WALL TO REMAIN
- REMOVE LIGHT POLE (SEE ELECTRICAL PLAN)

GENERAL DEMOLITION NOTES

- SEE ARCHITECTURE FOR DEMOLITION OF BUILDING.
- OWNER SHALL HAVE FIRST RIGHTS TO ALL SALVAGED MATERIALS. COORDINATE WITH OWNER AND TRANSPORT SALVAGED ITEMS TO THE OWNER DESIGNATED STORAGE AREA. IF OWNER RETAINED, ALL OTHER ITEMS SHALL BE HAULED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- FINAL GRADES SHALL BE AS SHOWN ON GRADING PLAN.
- IF ANY OTHER UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THIS PLAN, CONTACT THE OWNER AND UTILITY COMPANY IMMEDIATELY. COORDINATE ALL DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS WITH THE OWNER.
- CONTRACTOR SHALL MAINTAIN EXISTING UTILITIES AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. ANY DISRUPTION IN SERVICE SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY & NOTIFY COR OF DISRUPTION. CONTRACTOR SHALL PROVIDE A METHOD OF TEMPORARY SERVICE DURING PERIODS OF DISRUPTION.
- ALL EROSION CONTROL BMPs SHALL BE IN PLACE PRIOR TO DEMOLITION.
- DO NOT DISTURB ANY STRUCTURES NOT DESIGNATED TO BE REMOVED.
- REMOVE ALL TOPSOIL WITHIN GRADING LIMITS AND TEMPORARILY STOCKPILE FOR SPREADING AT COMPLETION OF PROJECT.
- CONTRACTOR SHALL REMOVE ALL UTILITIES DESIGNATED FOR REMOVAL ON THIS PLAN AND ANY DISCOVERED ABANDONED UTILITIES. ALL PIPES OR CONDUITS TO BE ABANDONED SHALL BE PLUGGED FOR A MINIMUM DISTANCE OF 12" WITH CONCRETE.
- ALL CONCRETE PAVEMENT SHALL BE SAWCUT OR REMOVED BY FULL PANELS TO THE NEAREST JOINT.

Revisions:	Date:

CONSULTANTS

IMEG *eco design*

ARCHITECT/ENGINEER OF RECORD

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR CONTRACT 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.

LEONARD J. WINDMILLER, P.E.
 DATE: 2024.02.14 LICENSE NO: 55469

Office of Construction and Facilities Management

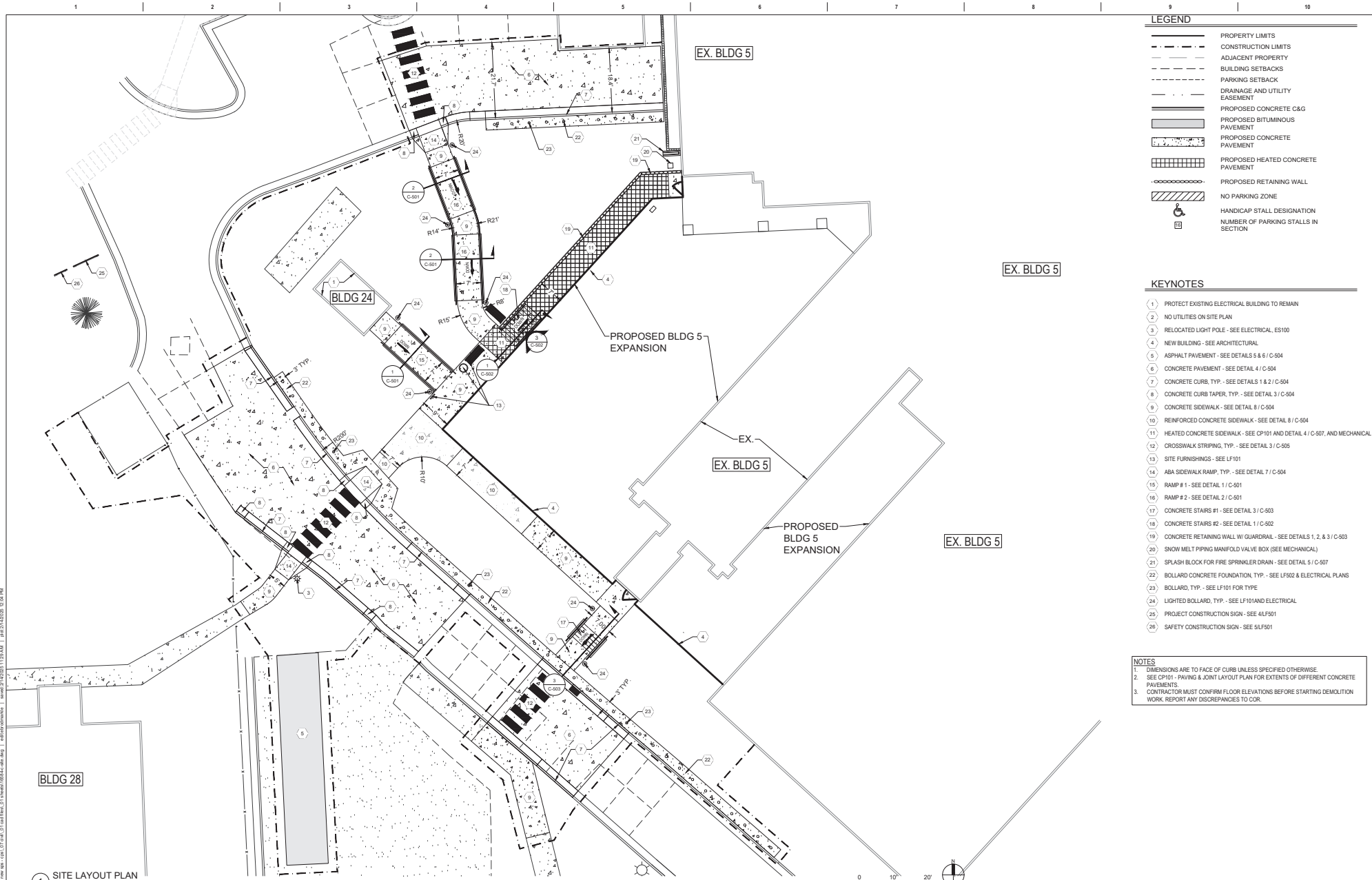
VA U.S. Department of Veterans Affairs

Drawing Title	DEMOLITION PLAN
Approved: Project Director	SIoux FALLS VA HEALTH CARE SYSTEM

Phase	BID DOCUMENTS
	FULLY SPRINKLERED

Project Title	CONSTRUCT NEW SPS
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	EB
Drawn	AB

Project Number	438-460
Building Number	5
Drawing Number	CD101



LEGEND

	PROPERTY LIMITS
	CONSTRUCTION LIMITS
	ADJACENT PROPERTY
	BUILDING SETBACKS
	PARKING SETBACKS
	DRAINAGE AND UTILITY EASEMENT
	PROPOSED CONCRETE C&G
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED HEATED CONCRETE PAVEMENT
	PROPOSED RETAINING WALL
	NO PARKING ZONE
	HANDICAP STALL DESIGNATION
	NUMBER OF PARKING STALLS IN SECTION

- KEYNOTES**
- 1 PROTECT EXISTING ELECTRICAL BUILDING TO REMAIN
 - 2 NO UTILITIES ON SITE PLAN
 - 3 RELOCATED LIGHT POLE - SEE ELECTRICAL, ES100
 - 4 NEW BUILDING - SEE ARCHITECTURAL
 - 5 ASPHALT PAVEMENT - SEE DETAILS 5 & 6 / C-504
 - 6 CONCRETE PAVEMENT - SEE DETAIL 4 / C-504
 - 7 CONCRETE CURB, TYP. - SEE DETAILS 1 & 2 / C-504
 - 8 CONCRETE CURB TAPER, TYP. - SEE DETAIL 3 / C-504
 - 9 CONCRETE SIDEWALK - SEE DETAIL 8 / C-504
 - 10 REINFORCED CONCRETE SIDEWALK - SEE DETAIL 9 / C-504
 - 11 HEATED CONCRETE SIDEWALK - SEE CP101 AND DETAIL 4 / C-507, AND MECHANICAL
 - 12 CROSSWALK STRIPING, TYP. - SEE DETAIL 3 / C-505
 - 13 SITE FURNISHINGS - SEE LF101
 - 14 ABA SIDEWALK RAMP, TYP. - SEE DETAIL 7 / C-504
 - 15 RAMP # 1 - SEE DETAIL 1 / C-501
 - 16 RAMP # 2 - SEE DETAIL 2 / C-501
 - 17 CONCRETE STAIRS #1 - SEE DETAIL 3 / C-503
 - 18 CONCRETE STAIRS #2 - SEE DETAIL 1 / C-502
 - 19 CONCRETE RETAINING WALL W/ GUARDRAIL - SEE DETAILS 1, 2, & 3 / C-503
 - 20 SNOW MELT PIPING MANIFOLD VALVE BOX (SEE MECHANICAL)
 - 21 SPLASH BLOCK FOR FIRE SPRINKLER DRAIN - SEE DETAIL 5 / C-507
 - 22 BOLLARD CONCRETE FOUNDATION, TYP. - SEE LF502 & ELECTRICAL PLANS
 - 23 BOLLARD, TYP. - SEE LF101 FOR TYPE
 - 24 LIGHTED BOLLARD, TYP. - SEE LF101 AND ELECTRICAL
 - 25 PROJECT CONSTRUCTION SIGN - SEE 4LF501
 - 26 SAFETY CONSTRUCTION SIGN - SEE 5LF501

- NOTES**
1. DIMENSIONS ARE TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.
 2. SEE CP101 - PAVING & JOINT LAYOUT PLAN FOR EXTENTS OF DIFFERENT CONCRETE PAVEMENTS.
 3. CONTRACTOR MUST CONFIRM FLOOR ELEVATIONS BEFORE STARTING DEMOLITION WORK. REPORT ANY DISCREPANCIES TO COR.

1 SITE LAYOUT PLAN
SCALE: 1" = 10' (30" x 42" PAPER SIZE)

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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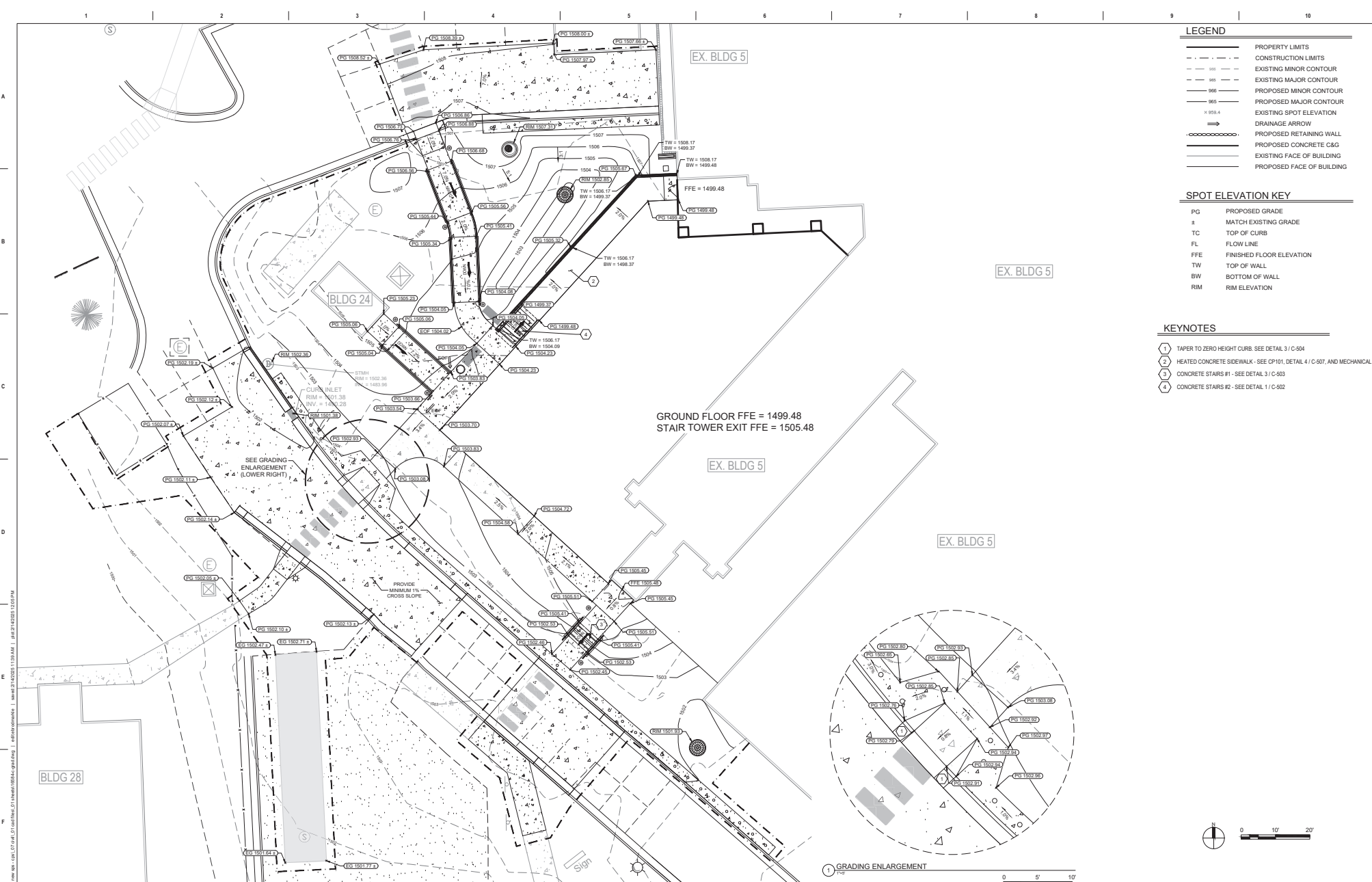
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Office of Construction and Facilities Management

Drawing Title	SITE LAYOUT PLAN
Phase	BID DOCUMENTS
Project Title	CONSTRUCT NEW SPS
Project Number	438-460
Building Number	5
Drawing Number	CS101
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	EB
Drawn	JD

Project Title	CONSTRUCT NEW SPS
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	EB
Drawn	JD

Project Title	CONSTRUCT NEW SPS
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	EB
Drawn	JD



LEGEND

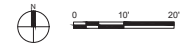
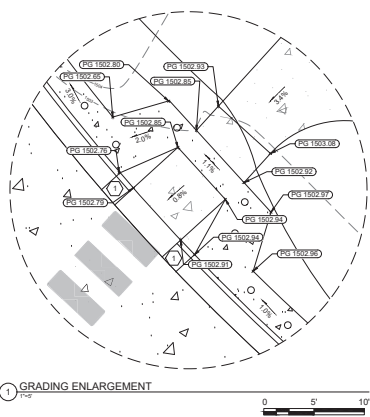
---	PROPERTY LIMITS
- - - -	CONSTRUCTION LIMITS
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
○ 959.4	EXISTING SPOT ELEVATION
→	DRAINAGE ARROW
○	PROPOSED RETAINING WALL
---	PROPOSED CONCRETE C&G
---	EXISTING FACE OF BUILDING
---	PROPOSED FACE OF BUILDING

SPOT ELEVATION KEY

PG	PROPOSED GRADE
±	MATCH EXISTING GRADE
TC	TOP OF CURB
FL	FLOW LINE
FFE	FINISHED FLOOR ELEVATION
TW	TOP OF WALL
BW	BOTTOM OF WALL
RIM	RIM ELEVATION

- KEYNOTES**
- 1 TAPER TO ZERO HEIGHT CURB. SEE DETAIL 3 / C-504
 - 2 HEATED CONCRETE SIDEWALK - SEE CP-101, DETAIL 4 / C-507, AND MECHANICAL
 - 3 CONCRETE STAIRS #1 - SEE DETAIL 3 / C-503
 - 4 CONCRETE STAIRS #2 - SEE DETAIL 1 / C-502

GROUND FLOOR FFE = 1499.48
STAIR TOWER EXIT FFE = 1505.48



Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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JOHN J. WOODWORTH, P.E.
DATE: 02/14/2025 | LICENSE NO. 95469

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

GRADING PLAN

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 02/14/2025

Checked: EB

Drawn: JD

Project Number

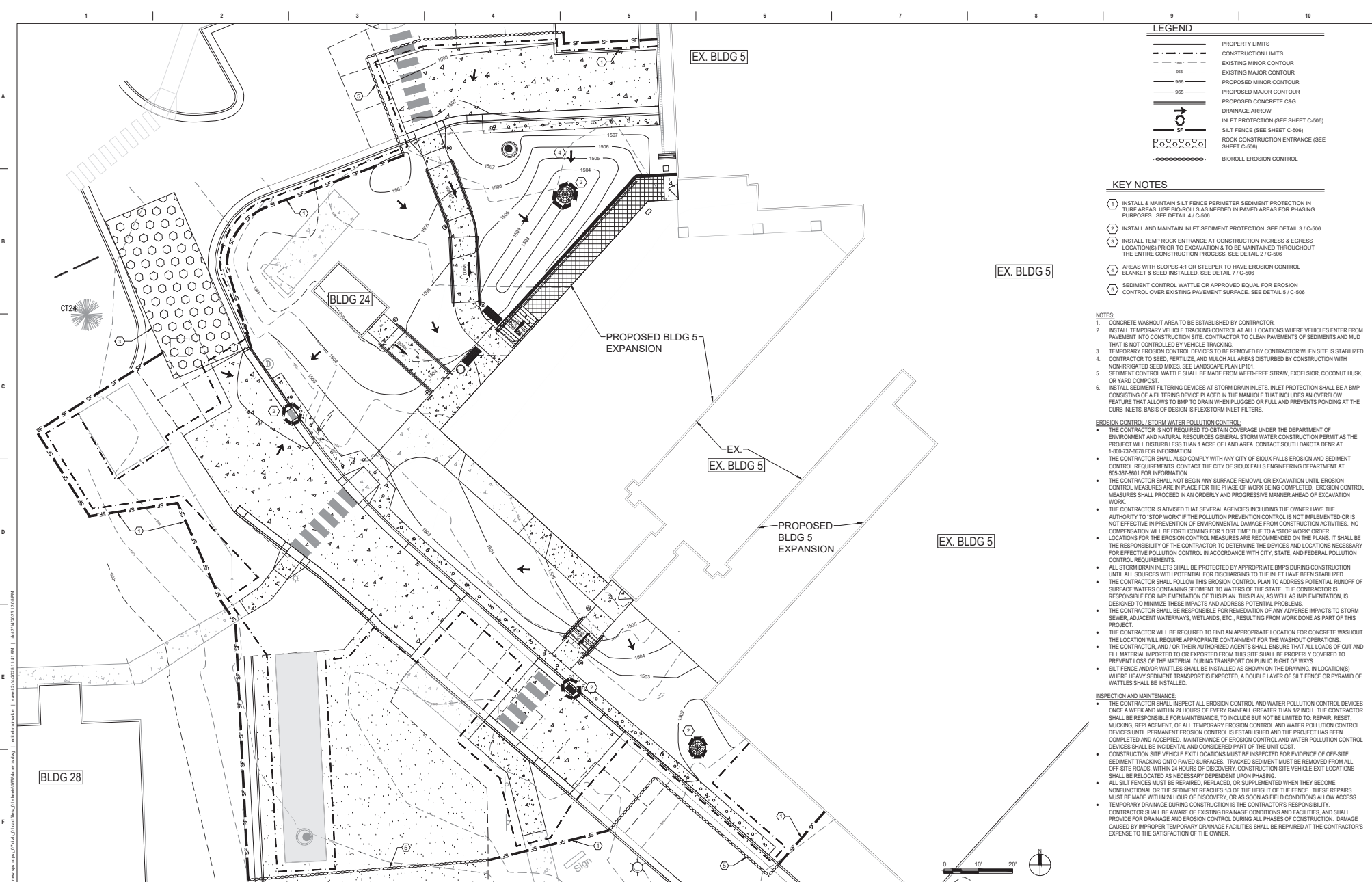
438-460

Building Number

5

Drawing Number

CG101



LEGEND	
---	PROPERTY LIMITS
---	CONSTRUCTION LIMITS
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED CONCRETE C&G
→	DRAINAGE ARROW
⊥	INLET PROTECTION (SEE SHEET C-506)
⊥	SILT FENCE (SEE SHEET C-508)
⊥	ROCK CONSTRUCTION ENTRANCE (SEE SHEET C-506)
⊥	BIOROLL EROSION CONTROL

- KEY NOTES**
- INSTALL & MAINTAIN SILT FENCE PERIMETER SEDIMENT PROTECTION IN TURF AREAS. USE BIO-ROLLS AS NEEDED IN PAVED AREAS FOR PHASING PURPOSES. SEE DETAIL 4 / C-509.
 - INSTALL AND MAINTAIN INLET SEDIMENT PROTECTION. SEE DETAIL 3 / C-508.
 - INSTALL TEMP ROCK ENTRANCE AT CONSTRUCTION INGRESS & EGRESS LOCATION(S) PRIOR TO EXCAVATION & TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. SEE DETAIL 2 / C-506.
 - AREAS WITH SLOPES 4:1 OR STEEPER TO HAVE EROSION CONTROL. BLANKET & SEED INSTALLED. SEE DETAIL 7 / C-508.
 - SEDIMENT CONTROL WATTLE OR APPROVED EQUAL FOR EROSION CONTROL OVER EXISTING PAVEMENT SURFACE. SEE DETAIL 5 / C-506.

- NOTES**
- CONCRETE WASHOUT AREA TO BE ESTABLISHED BY CONTRACTOR.
 - INSTALL TEMPORARY VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES ENTER FROM PAVEMENT INTO CONSTRUCTION SITE. CONTRACTOR TO CLEAN TRAVELWAYS OF SEEDINGS AND MUD THAT IS NOT CONTROLLED BY VEHICLE TRACKING.
 - TEMPORARY EROSION CONTROL DEVICES TO BE REMOVED BY CONTRACTOR WHEN SITE IS STABILIZED.
 - CONTRACTOR TO SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION WITH NON-IRRIGATED SEED MIXES. SEE LANDSCAPE PLAN LP101.
 - SEDIMENT CONTROL WATTLE SHALL BE MADE FROM WEED-FREE STRAW, EXCELSIOR, COCONUT HUSK, OR YARD COMPOST.
 - INSTALL SEDIMENT FILTERING DEVICES AT STORM DRAIN INLETS. INLET PROTECTION SHALL BE A BMP CONSISTING OF A FILTERING DEVICE PLACED IN THE MANHOLE THAT INCLUDES AN OVERFLOW FEATURE THAT ALLOWS TO BMP TO DRAIN WHEN PLUGGED. ON-FILL AND PREVENTS PONDING AT THE CURB INLETS. BASIS OF DESIGN IS FLEXSTORM INLET FILTERS.

- EROSION CONTROL / STORM WATER POLLUTION CONTROL:**
- THE CONTRACTOR IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES GENERAL STORM WATER CONSTRUCTION PERMIT AS THE PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND AREA. CONTACT SOUTH DAKOTA DENR AT 1-800-737-8678 FOR INFORMATION.
 - THE CONTRACTOR SHALL ALSO COMPLY WITH ANY CITY OF SIOUX FALLS EROSION AND SEDIMENT CONTROL REQUIREMENTS. CONTACT THE CITY OF SIOUX FALLS ENGINEERING DEPARTMENT AT 605-367-8601 FOR INFORMATION.
 - THE CONTRACTOR SHALL NOT BEGIN ANY SURFACE REMOVAL OR EXCAVATION UNTIL EROSION CONTROL MEASURES ARE IN PLACE FOR THE PHASE OF WORK BEING COMPLETED. EROSION CONTROL MEASURES SHALL PROCEED IN AN ORDERLY AND PROGRESSIVE MANNER AHEAD OF EXCAVATION WORK.
 - THE CONTRACTOR IS ADVISED THAT SEVERAL AGENCIES INCLUDING THE OWNER HAVE THE AUTHORITY TO "STOP WORK" IF THE POLLUTION PREVENTION CONTROL IS NOT IMPLEMENTED OR IS NOT EFFECTIVE IN PREVENTION OF ENVIRONMENTAL DAMAGE FROM CONSTRUCTION ACTIVITIES. NO COMPENSATION WILL BE FORTHCOMING FOR "LOST TIME" DUE TO A "STOP WORK" ORDER.
 - LOCATIONS FOR THE EROSION CONTROL MEASURES ARE RECOMMENDED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE DEVICES AND CONSTRUCTION NECESSARY FOR EFFECTIVE POLLUTION CONTROL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL POLLUTION CONTROL REQUIREMENTS.
 - ALL STORM DRAIN INLETS SHALL BE PROTECTED BY APPROPRIATE BMPs DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
 - THE CONTRACTOR SHALL FOLLOW THIS EROSION CONTROL PLAN TO ADDRESS POTENTIAL RUNOFF OF SURFACE WATERS CONTAINING SEDIMENT TO WATERS OF THE STATE. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN. THIS PLAN, AS WELL AS IMPLEMENTATION, IS DESIGNED TO MINIMIZE THESE IMPACTS AND ADDRESS POTENTIAL PROBLEMS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO STORM SEWER, ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
 - THE CONTRACTOR WILL BE REQUIRED TO FIND AN APPROPRIATE LOCATION FOR CONCRETE WASHOUT. THE LOCATION WILL REQUIRE APPROPRIATE CONTAINMENT FOR THE WASHOUT OPERATIONS.
 - THE CONTRACTOR, AND / OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL, IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC RIGHT OF WAYS.
 - SILT FENCE AND/OR WATTLES SHALL BE INSTALLED AS SHOWN ON THE DRAWING. IN LOCATIONS WHERE HEAVY SEDIMENT TRANSPORT IS EXPECTED, A DOUBLE LAYER OF SILT FENCE OR PYRAMID OF WATTLES SHALL BE INSTALLED.

- INSPECTION AND MAINTENANCE:**
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES ONCE A WEEK AND WITHIN 24 HOURS OF EVERY RAINFALL GREATER THAN 1/2 INCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, TO INCLUDE BUT NOT BE LIMITED TO: REPAIR, RESET, MUCKING, REPLACEMENT OF ALL TEMPORARY EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED AND THE PROJECT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE OF EROSION CONTROL AND WATER POLLUTION CONTROL DEVICES SHALL BE INCIDENTAL AND CONSIDERED PART OF THE UNIT COST.
 - 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 ROADS, WITHIN 24 HOURS OF DISCOVERY. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE RELOCATED AS NECESSARY DEPENDENT UPON PHASING.
 - 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.
 - TEMPORARY DRAINAGE DURING CONSTRUCTION IS THE CONTRACTORS RESPONSIBILITY. CONTRACTOR SHALL BE AWARE OF EXISTING DRAINAGE CONDITIONS AND FACILITIES, AND SHALL PROVIDE FOR DRAINAGE AND EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION. DAMAGE CAUSED BY IMPROPER TEMPORARY DRAINAGE FACILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE OWNER.



Revisions:	Date:

CONSULTANTS

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JOHN J. WOODRUFF, P.E.
 LICENSE NO. 55469
 DATE: 2023.02.14

Office of Construction and Facilities Management

Drawing Title: **EROSION CONTROL PLAN**

Approved: Project Director
SIOUX FALLS VA HEALTH CARE SYSTEM

Phase: **BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **CONSTRUCT NEW SPS**

Location: **SIOUX FALLS, SOUTH DAKOTA**

Issue Date: 02/14/2025

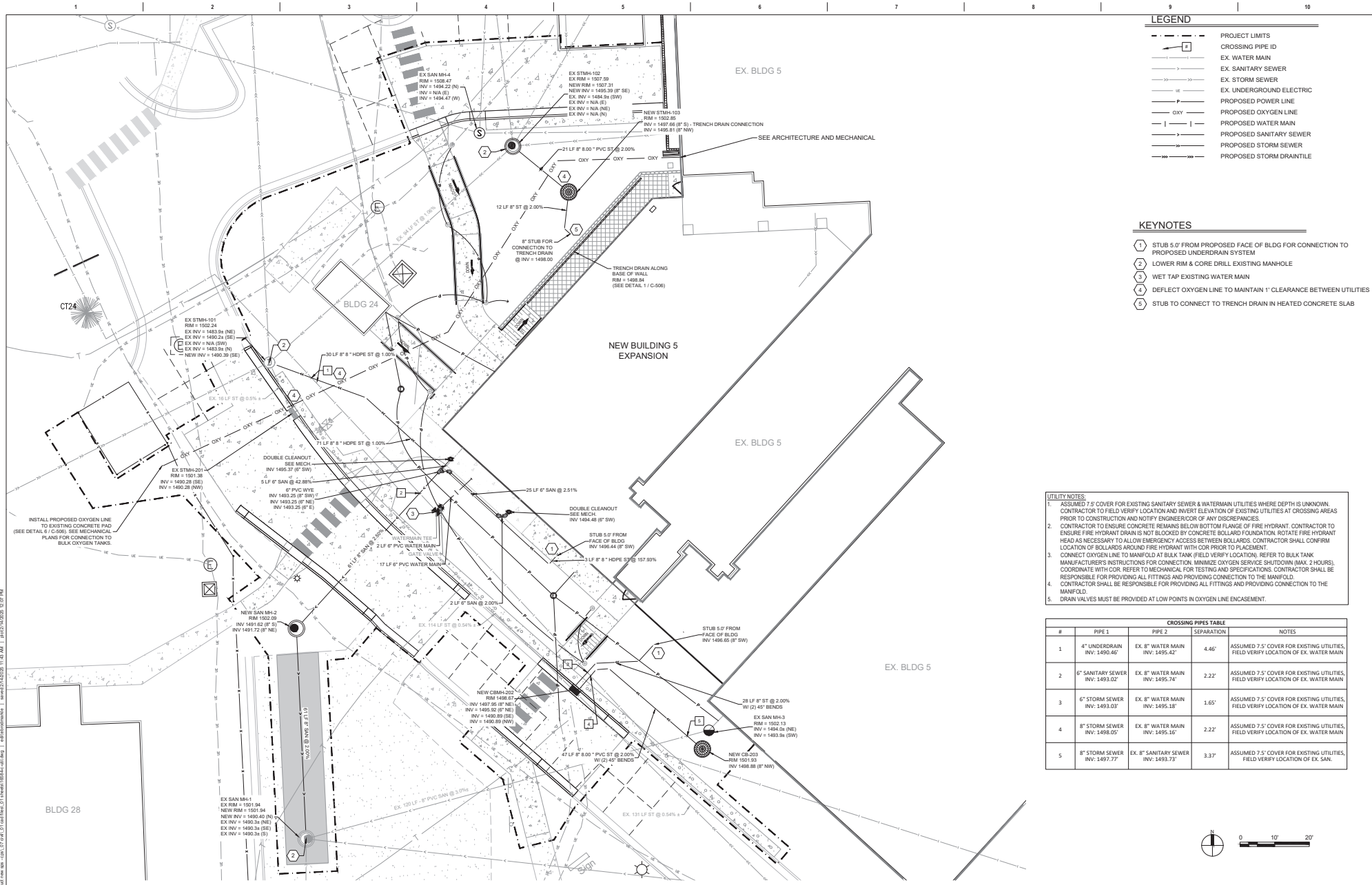
Checked: EB

Drawn: JMW

Project Number: **438-460**

Building Number: **5**

Drawing Number: **CG102**



LEGEND

	PROJECT LIMITS
	CROSSING PIPE ID
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAIN TILE

- KEYNOTES**
- 1 STUB 5.0' FROM PROPOSED FACE OF BLDG FOR CONNECTION TO PROPOSED UNDERDRAIN SYSTEM
 - 2 LOWER RIM & CORE DRILL EXISTING MANHOLE
 - 3 WET TAP EXISTING WATER MAIN
 - 4 DEFLECT OXYGEN LINE TO MAINTAIN 1' CLEARANCE BETWEEN UTILITIES
 - 5 STUB TO CONNECT TO TRENCH DRAIN IN HEATED CONCRETE SLAB

- UTILITY NOTES:**
1. ASSUMED 7.5' COVER FOR EXISTING SANITARY SEWER & WATERMAIN UTILITIES WHERE DEPTH IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION OF EXISTING UTILITIES AT CROSSING AREAS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 2. CONTRACTOR TO ENSURE CONCRETE REMAINS BELOW BOTTOM FLANGE OF FIRE HYDRANT. CONTRACTOR TO ENSURE FIRE HYDRANT DRAIN IS NOT BLOCKED BY CONCRETE BOLLARD FOUNDATION. ROTATE FIRE HYDRANT HEAD AS NECESSARY TO ALLOW EMERGENCY ACCESS BETWEEN BOLLARDS. CONTRACTOR SHALL CONFIRM LOCATION OF BOLLARDS AROUND FIRE HYDRANT WITH COR PRIOR TO PLACEMENT.
 3. CONNECT OXYGEN LINE TO MANIFOLD AT BULK TANK (FIELD VERIFY LOCATION). REFER TO BULK TANK MANUFACTURER'S INSTRUCTIONS FOR CONNECTION. MINIMIZE OXYGEN SERVICE SHUTDOWN (MAX 2 HOURS). COORDINATE WITH COR. REFER TO MECHANICAL FOR TESTING AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FITTINGS AND PROVIDING CONNECTION TO THE MANIFOLD.
 5. DRAIN VALVES MUST BE PROVIDED AT LOW POINTS IN OXYGEN LINE ENCASEMENT.

CROSSING PIPES TABLE

#	PIPE 1	PIPE 2	SEPARATION	NOTES
1	4" UNDERDRAIN INV: 1490.46'	EX. 8" WATER MAIN INV: 1495.42'	4.46'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES. FIELD VERIFY LOCATION OF EX. WATER MAIN
2	6" SANITARY SEWER INV: 1493.02'	EX. 8" WATER MAIN INV: 1495.74'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES. FIELD VERIFY LOCATION OF EX. WATER MAIN
3	6" STORM SEWER INV: 1493.02'	EX. 8" WATER MAIN INV: 1495.18'	1.65'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES. FIELD VERIFY LOCATION OF EX. WATER MAIN
4	8" STORM SEWER INV: 1498.05'	EX. 8" WATER MAIN INV: 1495.16'	2.22'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES. FIELD VERIFY LOCATION OF EX. WATER MAIN
5	8" STORM SEWER INV: 1497.77'	EX. 8" SANITARY SEWER INV: 1495.73'	3.37'	ASSUMED 7.5' COVER FOR EXISTING UTILITIES. FIELD VERIFY LOCATION OF EX. SAN.

Revisions:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

13605 31st Ave. N. #100 Plymouth, MN 55441
P 763.412.4000 | F 763.412.4050 | e-m-m.com
Anderson Engineering of Minnesota, LLC. P40 140364

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LEWIS J. WOODRUM, P.E.
DATE: 2023.02.14 LICENSE NO: 05469

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: **UTILITY PLAN**

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase: **BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **CONSTRUCT NEW SPS**

Location: **SIoux FALLS, SOUTH DAKOTA**

Issue Date: 02/14/2025

Checked: EB

Drawn: AB

Project Number: **438-460**

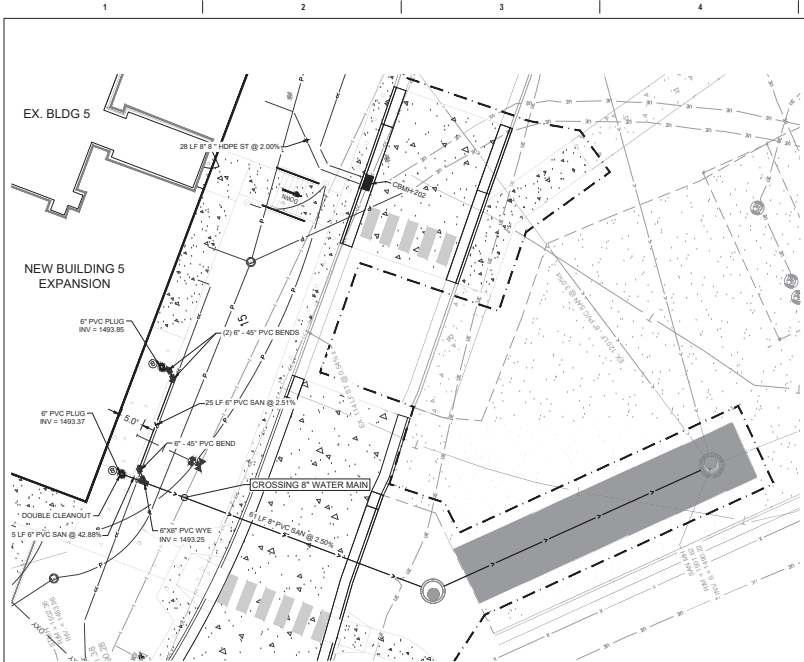
Building Number: **5**

Drawing Number: **CU101**

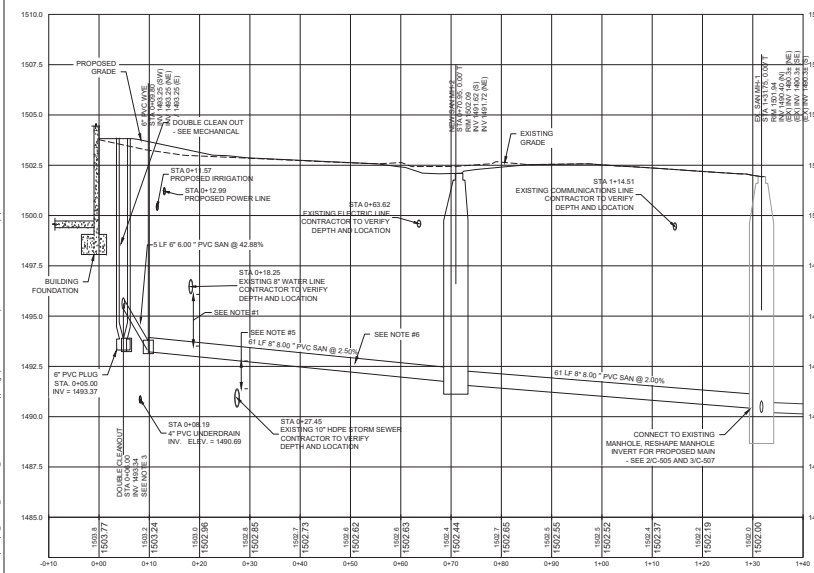
LEGEND	
	PROJECT LIMITS
	CROSSING PIPE
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAIN TILE

NOTE:

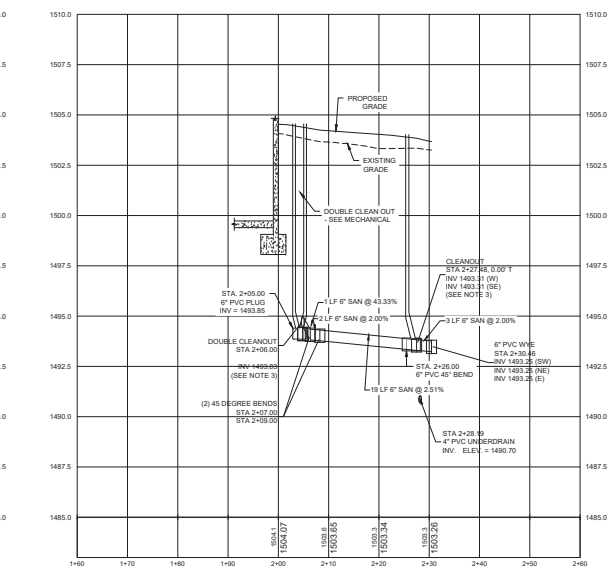
- IF LESS THAN 18" OF VERTICAL CLEARANCE IS PROVIDED BETWEEN WATER MAIN AND STORM / SANITARY SEWER OR IF WATER MAIN IS BENEATH STORM / SANITARY SEWER, ENCASE AS PER SDOENR REQUIREMENTS - SEE 71C-507
- SEE 21C-505 FOR MANHOLE DETAIL.
- SEE MECHANICAL FOR CLEAN OUT DETAIL.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED UTILITY AND ORDERING MATERIALS.
- MAINTAIN A MINIMUM OF 1" VERTICAL SEPARATION BETWEEN SANITARY AND STORM SEWER.
- CONTRACTOR MAY REVISE SLOPE OF SANITARY SERVICE FROM BUILDING TO MANHOLE TO MAINTAIN CLEARANCES SHOWN IN NOTE 1 AND NOTE 5. MAINTAIN A MINIMUM OF 2% SLOPE ON ALL SANITARY SEWER SERVICE AND MAINS OUTSIDE OF BUILDING.
- SEE 21C-507 FOR TRENCH DETAIL.
- CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING IN ACCORDANCE WITH CITY OF SIOUX FALLS REQUIREMENTS WHICH INCLUDES A BYPASS PUMPING PLAN.
- ONLY IRRIGATION MAINLINE IS SHOWN, IRRIGATION LATERALS ARE NOT SHOWN.



PROFILE VIEW OF SANITARY SEWER #1



PROFILE VIEW OF SANITARY SEWER #2



Revisions:	Date:

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DATE: 2023.02.14 LICENSE NO: 95469

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Project Title: SANITARY SEWER PLAN AND PROFILE

Phase: BID DOCUMENTS

Location: SIOUX FALLS VA HEALTH CARE SYSTEM

Project Title: CONSTRUCT NEW SPS

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 02/14/2025

Checked: EB

Drawn: AB

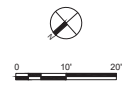
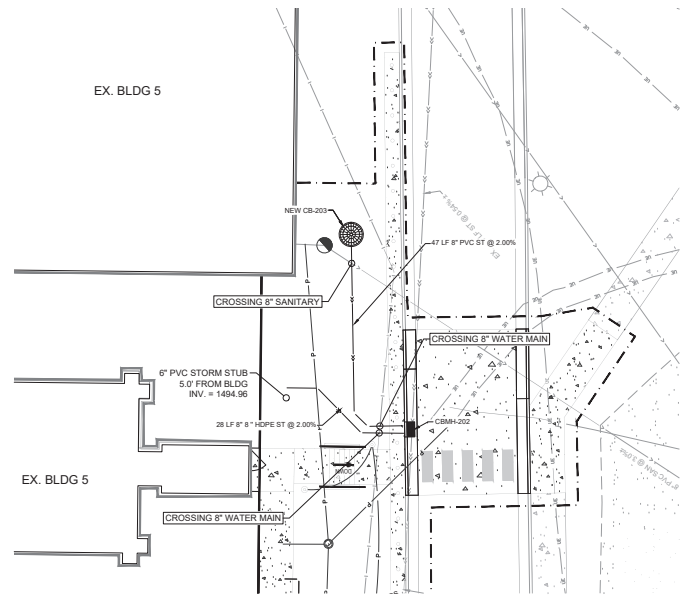
Project Number: 438-460

Building Number: 5

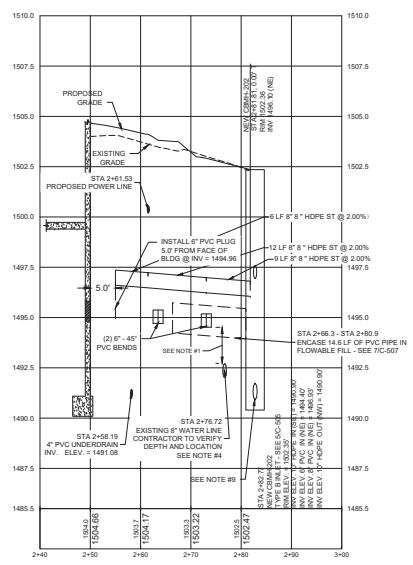
Drawing Number: CU103

LEGEND	
	PROJECT LIMITS
	CROSSING PIPE
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAIN TILE

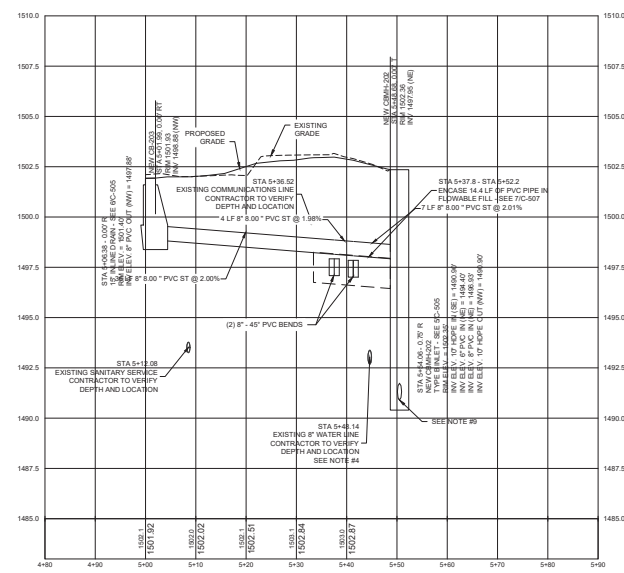
- NOTE:**
- IF LESS THAN 18" OF VERTICAL CLEARANCE IS PROVIDED BETWEEN WATER MAIN AND STORM / SANITARY SEWER OR IF WATER MAIN IS BENEATH STORM / SANITARY SEWER, ENCASE AS PER SDDENR REQUIREMENTS - SEE 7C-507
 - SEE 7C-505 FOR MANHOLE DETAIL
 - SEE MECHANICAL FOR CLEAN OUT DETAIL
 - CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED UTILITY AND ORDERING MATERIALS
 - MAINTAIN A MINIMUM OF 1" VERTICAL SEPARATION BETWEEN SANITARY AND STORM SEWER
 - CONTRACTOR MAY REVISE SLOPE OF SANITARY SERVICE FROM BUILDING TO MANHOLE TO MAINTAIN CLEARANCES SHOWN IN NOTE 1 AND NOTE 5. MAINTAIN A MINIMUM OF 2% SLOPE ON ALL SANITARY SEWER SERVICE AND MAINS OUTSIDE OF BUILDING.
 - SEE 7C-507 FOR TRENCH DETAIL
 - CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING IN ACCORDANCE WITH CITY OF SIOUX FALLS REQUIREMENTS WHICH INCLUDES A BYPASS PUMPING PLAN
 - ELEVATIONS OF PROPOSED STORM SEWER INLET ARE APPROXIMATE AND ARE BASED ON OWNER'S BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY EXACT LOCATION, DEPTH, AND SIZE OF EXISTING STORM SEWER. CONNECT EXISTING PIPING TO PROPOSED INLET BOX.
 - ONLY IRRIGATION MAINLINE IS SHOWN, IRRIGATION LATERALS ARE NOT SHOWN.



PROFILE VIEW OF STORM SEWER #1



PROFILE VIEW OF STORM SEWER #3



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Revisions:	Date:

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DATE: 02/14/2025

Office of Construction and Facilities Management

Drawing Title: **STORM SEWER PLAN AND PROFILE**

Approved: Project Director

SIOUX FALLS VA HEALTH CARE SYSTEM

Phase: **BID DOCUMENTS**

FULLY SPRINKLERED

Project Title: **CONSTRUCT NEW SPS**

Location: **SIOUX FALLS, SOUTH DAKOTA**

Issue Date: 02/14/2025

Checked: EB

Drawn: AB

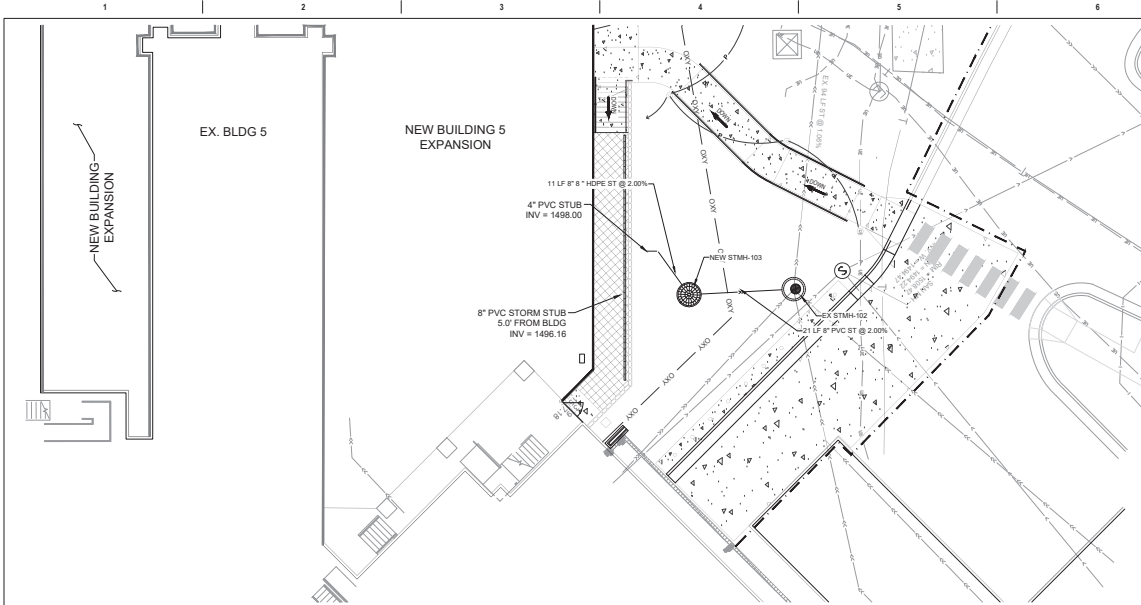
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Building Number: **5**

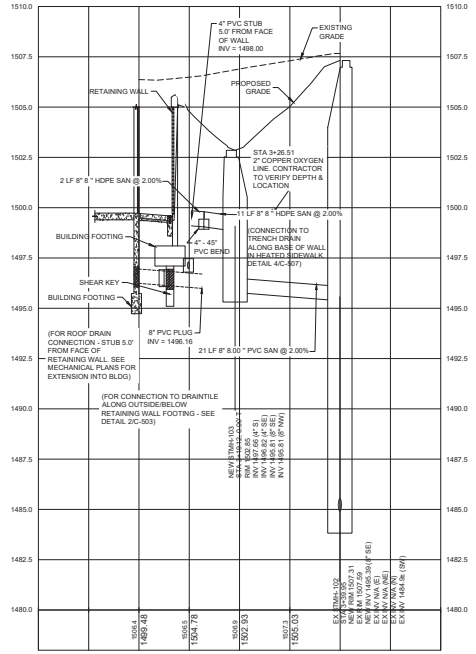
Drawing Number: **CU104**

LEGEND	
	PROJECT LIMITS
	CROSSING PIPE
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAIN TILE

- NOTE**
- IF LESS THAN 18" OF VERTICAL CLEARANCE IS PROVIDED BETWEEN WATER MAIN AND STORM / SANITARY SEWER OR IF WATER MAIN IS BENEATH STORM / SANITARY SEWER, ENCASE AS PER SDDENR REQUIREMENTS - SEE 7/C-507
 - SEE SHEET 7/C-505 FOR AREA INLET DETAIL.
 - CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED UTILITY AND ORDERING MATERIALS.
 - MAINTAIN A MINIMUM OF 1" VERTICAL SEPARATION SEE 2/C-507 FOR TRENCH DETAIL.
 - ONLY IRRIGATION MAINLINE IS SHOWN, IRRIGATION LATERALS ARE NOT SHOWN.



PROFILE VIEW OF STORM SEWER #2



Revisions:	Date:

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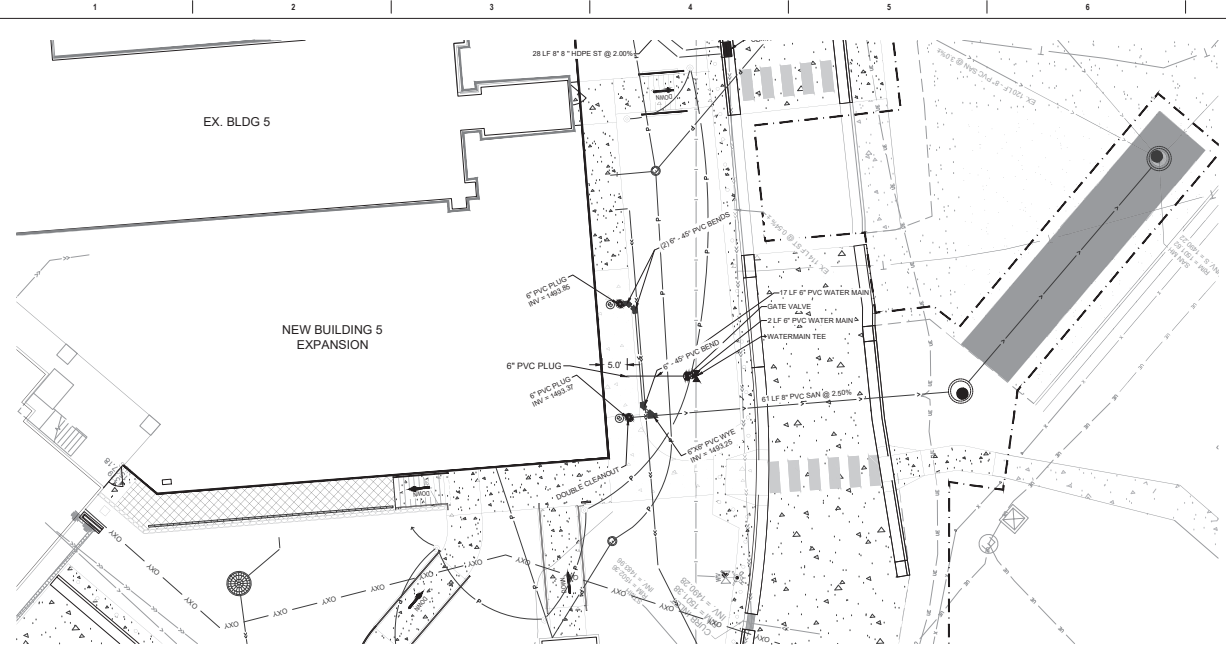
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U.S. Department of Veterans Affairs

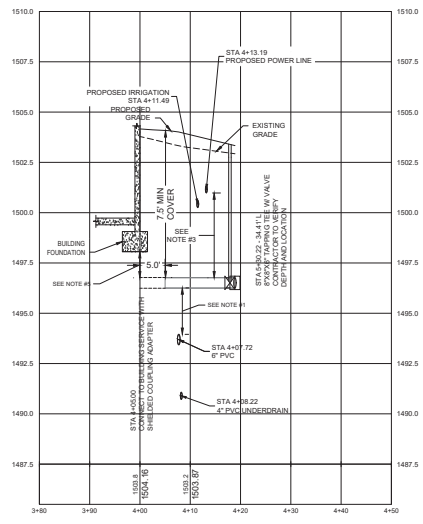
Drawing Title	STORM SEWER PLAN AND PROFILE	Phase	BID DOCUMENTS	Project Title	CONSTRUCT NEW SPS	Project Number	438-460
Approved: Project Director	SIoux FALLS VA HEALTH CARE SYSTEM	FULLY SPRINKLERED	Location	SIoux FALLS, SOUTH DAKOTA	Building Number	5	
			Issue Date	02/14/2025	Checked	EB	Drawn
							CU105

LEGEND	
	PROJECT LIMITS
	CROSSING PIPE
	EX. WATER MAIN
	EX. SANITARY SEWER
	EX. STORM SEWER
	EX. UNDERGROUND ELECTRIC
	PROPOSED POWER LINE
	PROPOSED OXYGEN LINE
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM DRAIN TILE

- NOTE:**
- IF LESS THAN 18" OF VERTICAL CLEARANCE IS PROVIDED BETWEEN WATER MAIN AND STORM / SANITARY SEWER OR IF WATER MAIN IS BENEATH STORM / SANITARY SEWER, ENCASE AS PER SDDENR REQUIREMENTS - SEE 7/C-507
 - CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING CROSSING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED UTILITY AND ORDERING MATERIALS
 - MAINTAIN A MINIMUM OF 1' VERTICAL SEPARATION WATER SERVICE MUST BE LAID FLAT TO ENSURE VALVE AND VALVE BOX ARE VERTICAL - COORDINATE ELEVATION OF CONNECTION WITH MECHANICAL CONTRACTOR
 - SEE 2/C-507 FOR TRENCH DETAIL
 - ENCASE WATER MAIN IN 6" OF FLOWABLE FILL FOR 3' EACH SIDE OF FOOTING IF SEPARATION IS < 1'
 - ONLY IRRIGATION MAINLINE IS SHOWN, IRRIGATION LATERALS ARE NOT SHOWN.



PROFILE VIEW OF WATER LINE #1



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Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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JOHN J. WOODHULL, P.E.
 DATE: 2025.07.14 | LICENSE NO: 95469

Office of Construction and Facilities Management

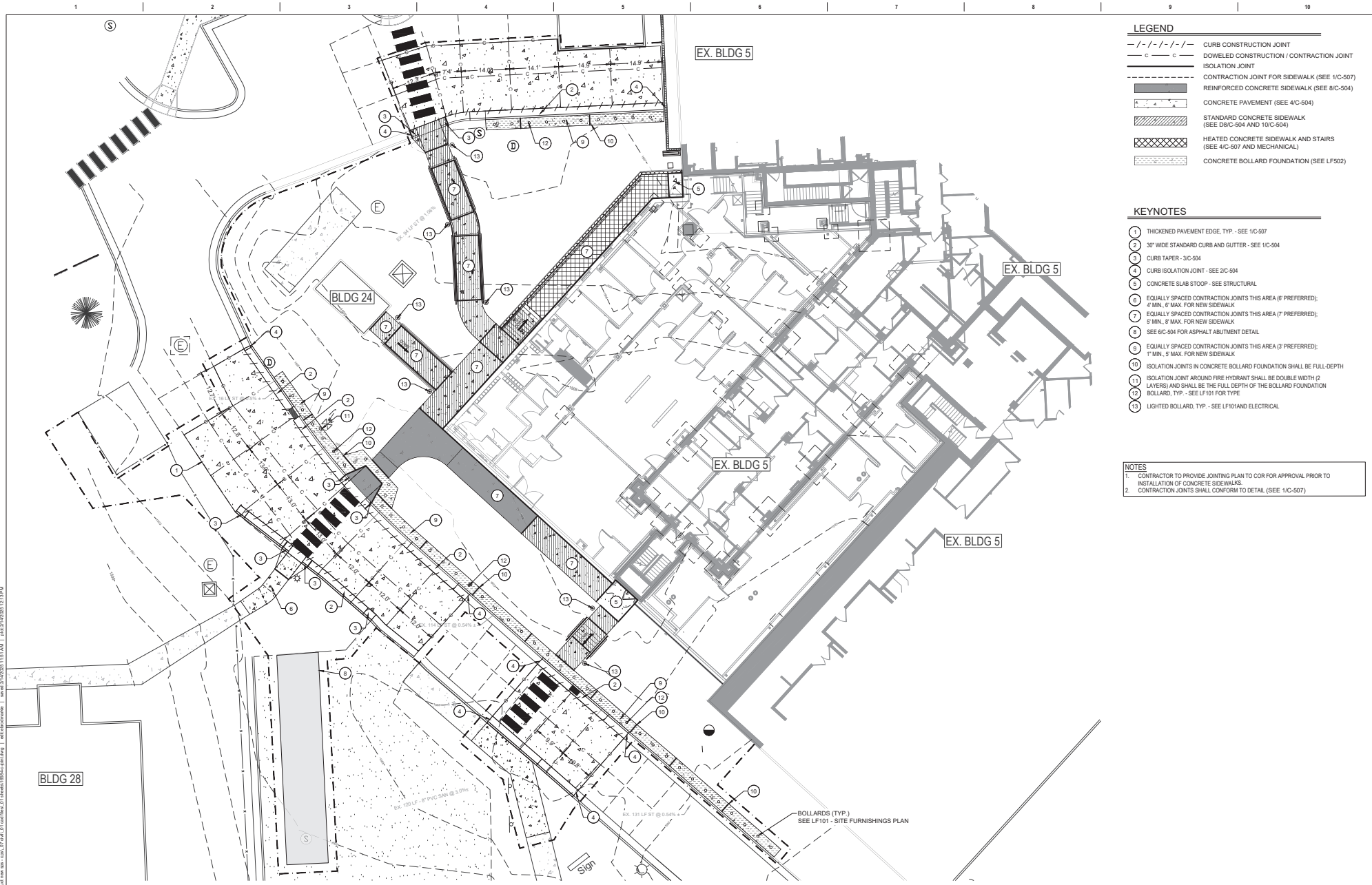
U.S. Department of Veterans Affairs

Drawing Title	WATER LINE PLAN AND PROFILE
Approved: Project Director	SIoux FALLS VA HEALTH CARE SYSTEM

Phase	BID DOCUMENTS
	FULLY SPRINKLERED

Project Title	CONSTRUCT NEW SPS
Location	SIoux FALLS, SOUTH DAKOTA
Issue Date	02/14/2025
Checked	EB
Drawn	AB

Project Number	438-460
Building Number	5
Drawing Number	CU106



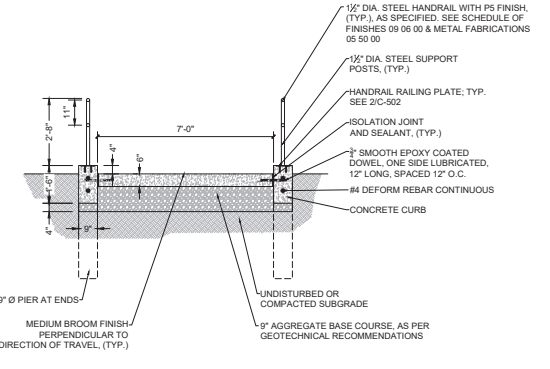
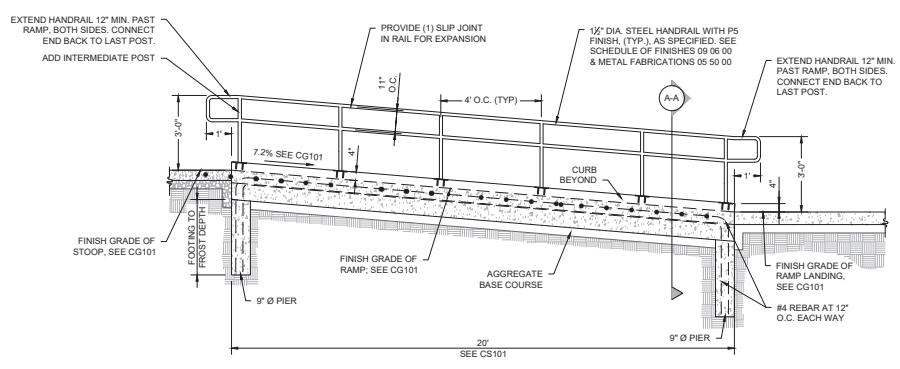
LEGEND

	CURB CONSTRUCTION JOINT
	DOWELED CONSTRUCTION / CONTRACTION JOINT
	ISOLATION JOINT
	CONTRACTION JOINT FOR SIDEWALK (SEE 11C-507)
	REINFORCED CONCRETE SIDEWALK (SEE 81C-504)
	CONCRETE PAVEMENT (SEE 41C-504)
	STANDARD CONCRETE SIDEWALK (SEE DB1C-504 AND 101C-504)
	HEATED CONCRETE SIDEWALK AND STAIRS (SEE 41C-507 AND MECHANICAL)
	CONCRETE BOLLARD FOUNDATION (SEE LF502)

- KEYNOTES**
- 1 THICKENED PAVEMENT EDGE, TYP. - SEE 11C-507
 - 2 30" WIDE STANDARD CURB AND GUTTER - SEE 11C-504
 - 3 CURB TAPER - 3C-504
 - 4 CURB ISOLATION JOINT - SEE 21C-504
 - 5 CONCRETE SLAB STOOP - SEE STRUCTURAL
 - 6 EQUALLY SPACED CONTRACTION JOINTS THIS AREA (6" PREFERRED); 4" MIN., 6" MAX. FOR NEW SIDEWALK
 - 7 EQUALLY SPACED CONTRACTION JOINTS THIS AREA (7" PREFERRED); 5" MIN., 8" MAX. FOR NEW SIDEWALK
 - 8 SEE 61C-504 FOR ASPHALT ABUTMENT DETAIL
 - 9 EQUALLY SPACED CONTRACTION JOINTS THIS AREA (3" PREFERRED); 1" MIN., 5" MAX. FOR NEW SIDEWALK
 - 10 ISOLATION JOINTS IN CONCRETE BOLLARD FOUNDATION SHALL BE FULL-DEPTH
 - 11 ISOLATION JOINT AROUND FIRE HYDRANT SHALL BE DOUBLE WIDTH (2 LAYERS) AND SHALL BE THE FULL DEPTH OF THE BOLLARD FOUNDATION
 - 12 BOLLARD, TYP. - SEE LF 101 FOR TYPE
 - 13 LIGHTED BOLLARD, TYP. - SEE LF101AND ELECTRICAL

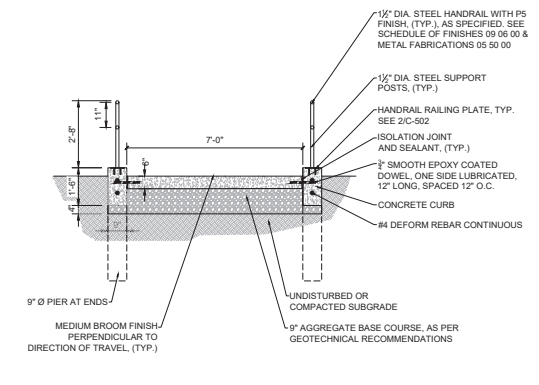
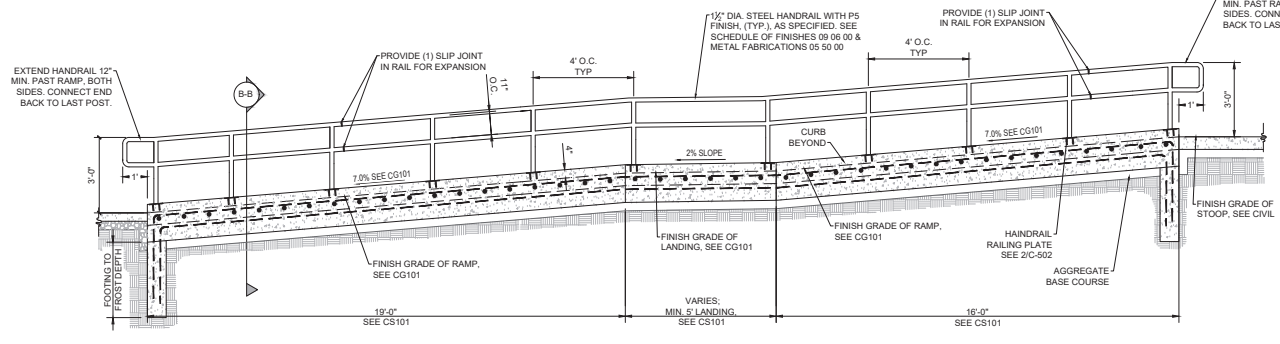
- NOTES**
- 1 CONTRACTOR TO PROVIDE JOINTING PLAN TO COR FOR APPROVAL PRIOR TO INSTALLATION OF CONCRETE SIDEWALKS.
 - 2 CONTRACTION JOINTS SHALL CONFORM TO DETAIL (SEE 11C-507)

<p>Revisions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50px; height: 20px;"> </td> <td style="width: 50px; height: 20px;"> </td> </tr> <tr> <td style="width: 50px; height: 20px;"> </td> <td style="width: 50px; height: 20px;"> </td> </tr> <tr> <td style="width: 50px; height: 20px;"> </td> <td style="width: 50px; height: 20px;"> </td> </tr> <tr> <td style="width: 50px; height: 20px;"> </td> <td style="width: 50px; height: 20px;"> </td> </tr> </table> <p>Date: _____</p>									<p>CONSULTANTS</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.432.4000 F 763.432.4050 e-m-n.com Anderson Engineering of Minnesota, LLC PWS 140364</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> U.S. Department of Veterans Affairs	<p>Drawing Title</p> <p>PAVING & JOINT LAYOUT PLAN</p> <p>Approved: Project Director</p> <p>SIoux FALLS VA HEALTH CARE SYSTEM</p>	<p>Phase</p> <p>BID DOCUMENTS</p> <p>FULLY SPRINKLERED</p>	<p>Project Title</p> <p>CONSTRUCT NEW SPS</p> <p>Location</p> <p>SIoux FALLS, SOUTH DAKOTA</p> <p>Issue Date</p> <p>02/14/2025</p>	<p>Project Number</p> <p>438-460</p> <p>Building Number</p> <p>5</p> <p>Drawing Number</p> <p>CP101</p>



1 RAMP #1 DETAIL
SCALE: 1/2" = 1'-0" (30" x 42" PAPER SIZE)

SECTION A-A



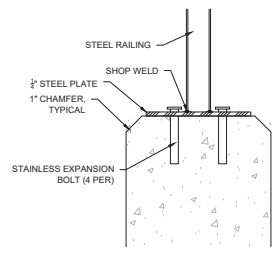
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SCALE: 1/2" = 1'-0" (30" x 42" PAPER SIZE)

SECTION B-B

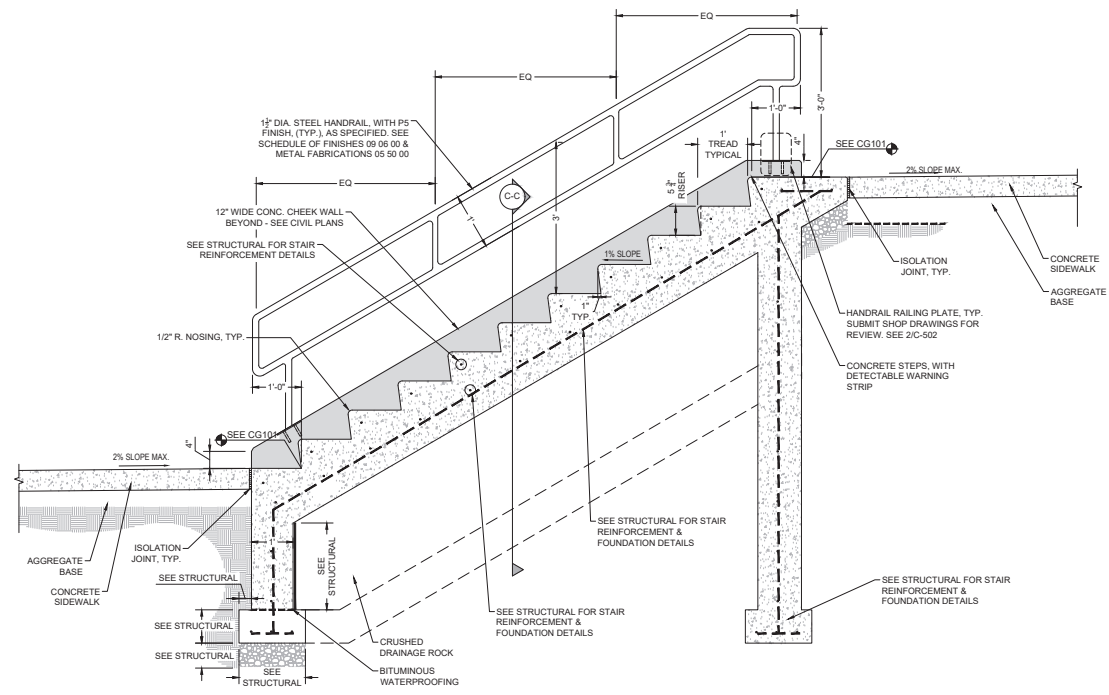
CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 31st Ave. N., #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4050 www.anderson-engineering.com Anderson Engineering of Minnesota, LLC. PWS# 143034		STAMP <small>I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA</small> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title RAMP SITE DETAILS	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
						Approved: Project Director SIoux FALLS VA HEALTH CARE SYSTEM	FULLY SPRINKLERED	Location SIoux FALLS, SOUTH DAKOTA	Building Number 5
						Issue Date 02/14/2025	Checked EB	Drawn AB	Drawing Number C-501
Revisions:									
Date:									

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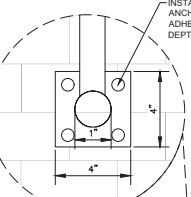
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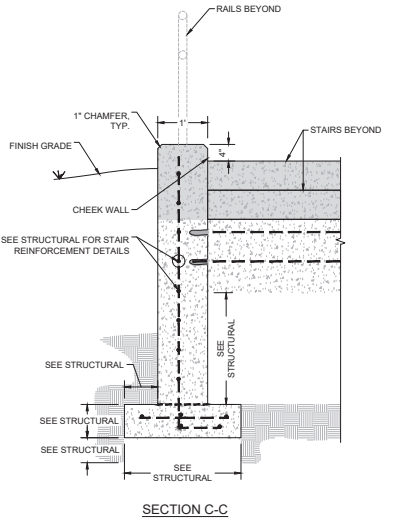
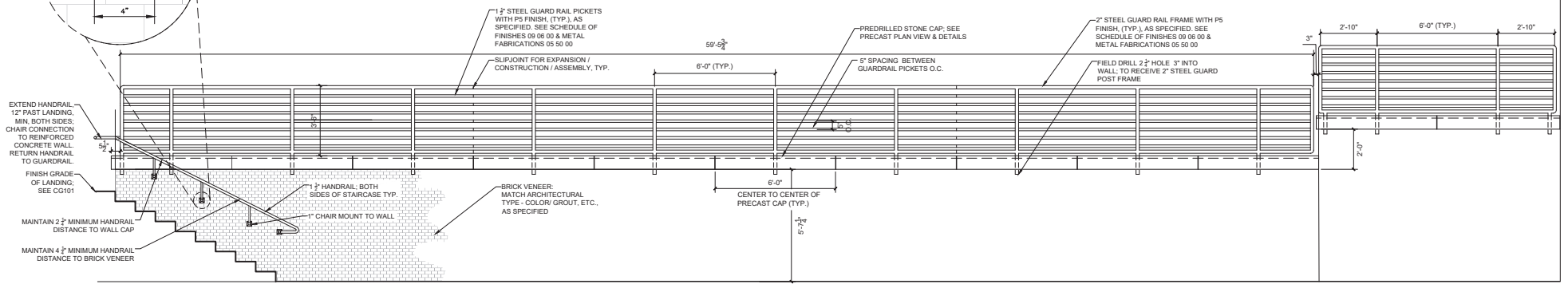
1 CONCRETE STAIR #2 DETAIL
SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)



INSTALL 3/8" DIA. STAINLESS STEEL ANCHORS WITH SET/95 EPOXY ADHESIVE OR EQUAL MINIMUM 1" DEPTH INTO CONCRETE WALL.



3 CONCRETE STAIR #2 ELEVATION
SCALE: 1" = 1'-0" (30" x 42" PAPER SIZE)



Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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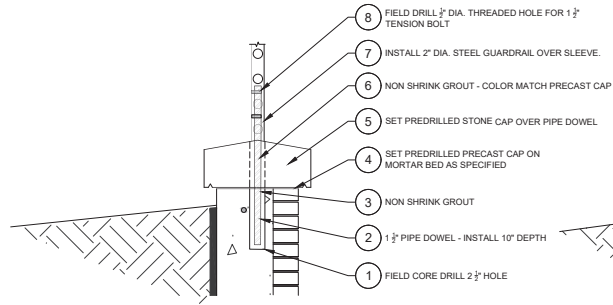
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

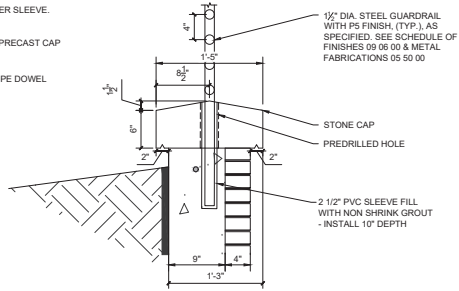
Drawing Title	STAIRS SITE DETAILS
Approved: Project Director	SIoux FALLS VA HEALTH CARE SYSTEM

Phase	BID DOCUMENTS
	FULLY SPRINKLERED

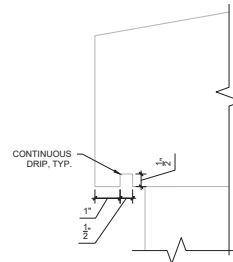
Project Title	CONSTRUCT NEW SPS	Project Number	438-460
Location	SIoux FALLS, SOUTH DAKOTA	Building Number	5
Issue Date	02/14/2025	Checked	EB
		Drawn	AB
		Drawing Number	C-502



CAP INSTALLATION

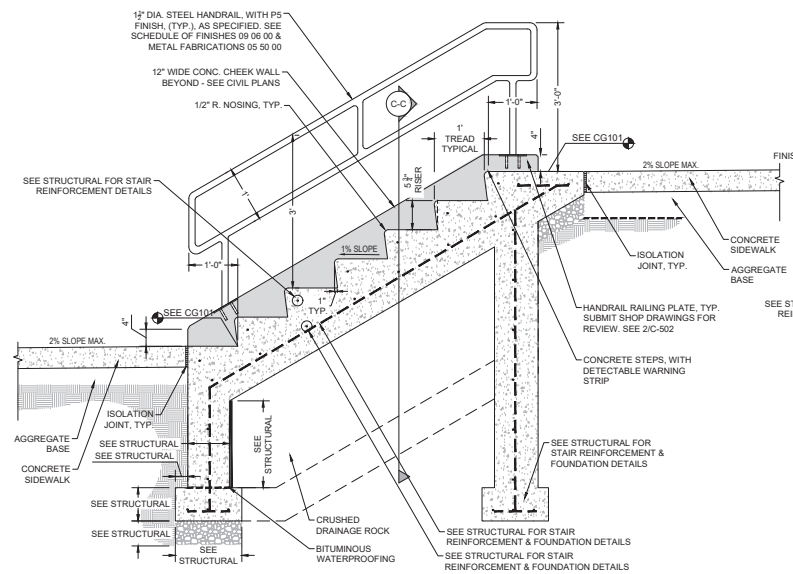


ENLARGED CAP AND RAIL DETAIL

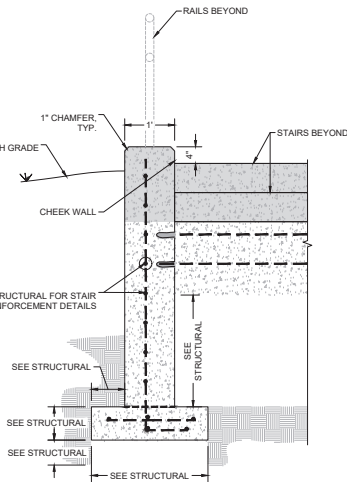


DRIP EDGE
N.T.S

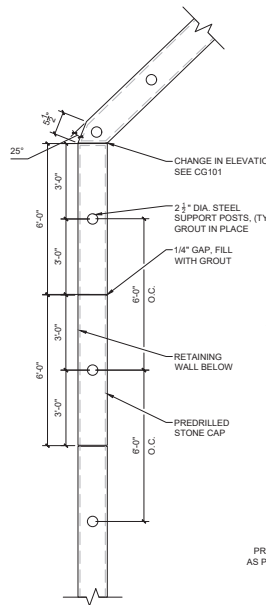
1 RETAINING WALL CAP & RAIL DETAIL
SCALE: 1" = 8" (30" x 42" PAPER SIZE)



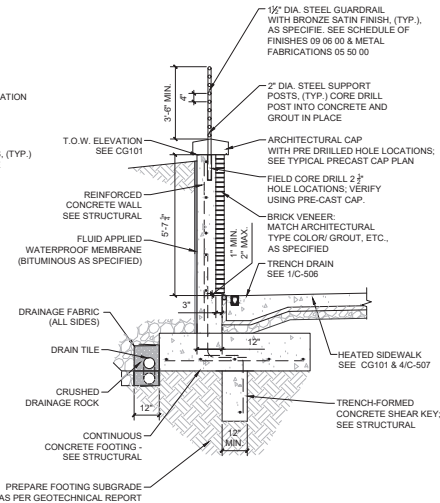
3 CONCRETE STAIR #1 DETAIL
SCALE: 1" = 12" (30" x 42" PAPER SIZE)



SECTION C-C



STONE CAP PLAN VIEW



SECTION ELEVATION VIEW

2 RETAINING WALL WITH GUARDRAIL
SCALE: 1" = 12" (30" x 42" PAPER SIZE)

Revisions:	Date:

CONSULTANTS

IMEG ECo design

ARCHITECT/ENGINEER OF RECORD

ANDERSON

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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.

BRUNNEN J. WOODHULL, PE
DATE: 2022.02.14 LICENSE NO. 95469

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **RETAINING WALL SITE DETAILS**

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase: **BID DOCUMENTS**

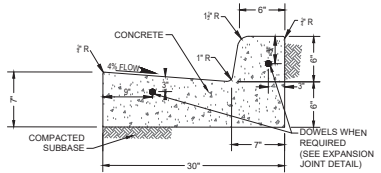
FULLY SPRINKLERED

Project Title: **CONSTRUCT NEW SPS**

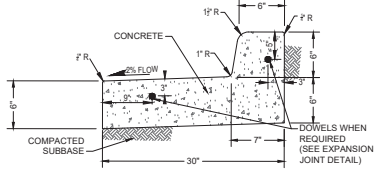
Location: **SIoux FALLS, SOUTH DAKOTA**

Issue Date: 02/14/2025 | Checked: EB | Drawn: AB

Project Number: 438-460 | Building Number: 5 | Drawing Number: C-503

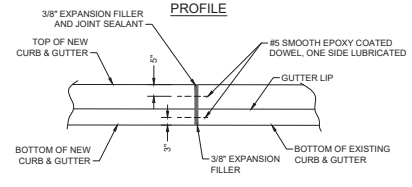
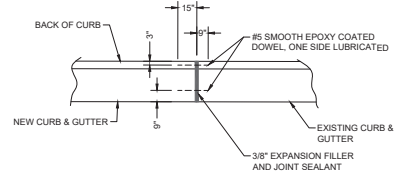


30" WIDE STANDARD CURB AND GUTTER
NTS

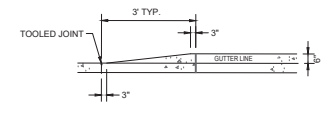


30" WIDE TIP-OUT CURB AND GUTTER
NTS

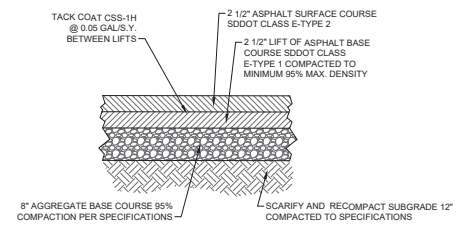
1 30" CURB TYPICAL SECTIONS
SCALE: NTS



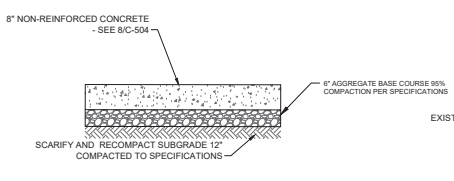
2 CURB AND GUTTER ISOLATION (EXPANSION) JOINT
SCALE: NTS



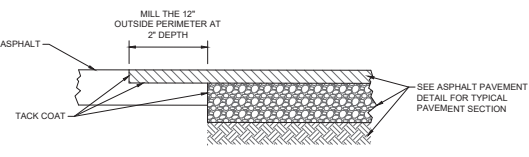
3 CURB TAPER DETAIL
SCALE: NTS



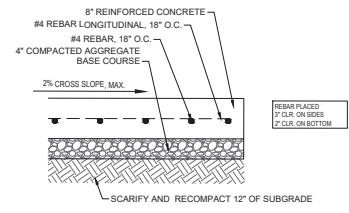
5 ASPHALT PAVEMENT DETAIL
SCALE: NTS



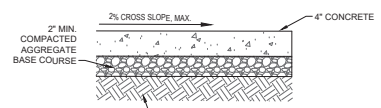
4 CONCRETE PAVEMENT DETAIL
SCALE: NTS



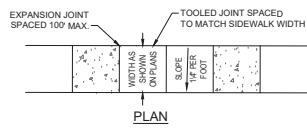
6 ASPHALT ABUTMENT DETAIL
SCALE: NTS



REINFORCED SECTION

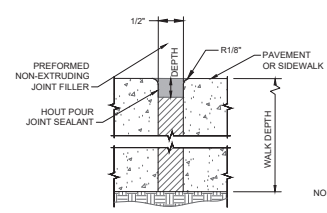


NON-REINFORCED SECTION

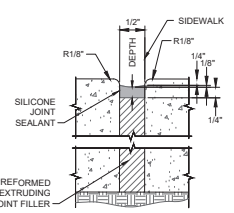


PLAN

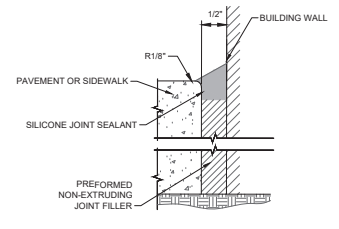
8 SIDEWALK DETAIL
SCALE: NTS



PAVEMENT ISOLATION JOINT W/ HOT POUR SEALANT

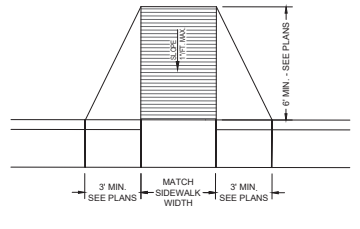


SIDEWALK OR PAVEMENT ISOLATION JOINT WITH SILICONE SEALANTS



BUILDING ISOLATION JOINT

10 SIDEWALK OR PAVEMENT ISOLATION (EXPANSION) JOINT DETAILS
SCALE: NTS

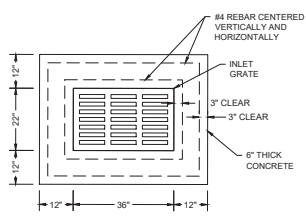


- NOTES:
1. SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY A COARSE BROOMING AND TRIMMING TRANSVERSE TO THE SLOPE OF THE RAMP.
 2. CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND SHORT GRADE CHANGES.
 3. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGHOUT THE AREA OF THE RAMP DURING.
 4. CROSS SLOPES SHALL NOT EXCEED 2%.

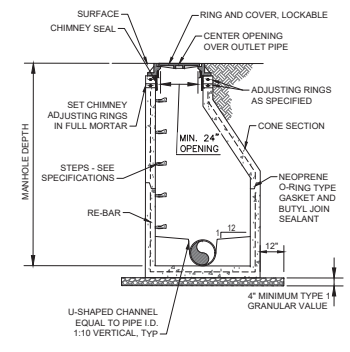
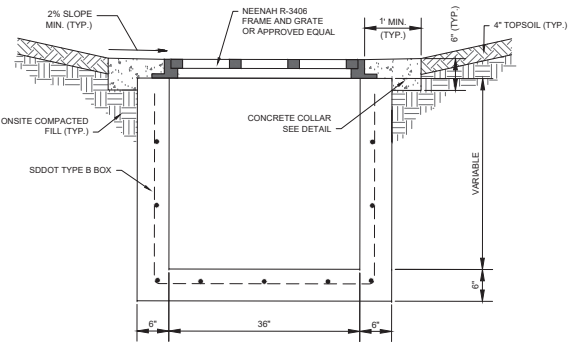
7 ABA CURB RAMPS
SCALE: NTS

CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4050 E mmn.com Anderson Engineering of Minnesota, LLC PWS # 140364		STAMP 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 JENNIFER J. WOODHARDELL, P.E. DATE: 02/23/2025 14 LICENSE NO: 95469	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title CIVIL DETAILS Approved: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM	Phase BID DOCUMENTS FULLY SPRINKLERED	Project Title CONSTRUCT NEW SPS Location SIOUX FALLS, SOUTH DAKOTA	Project Number 438-460 Building Number 5 Drawing Number C-504
Revisions: _____ Date: _____							Issue Date 02/14/2025	Checked EB	Drawn AB

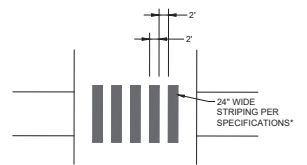
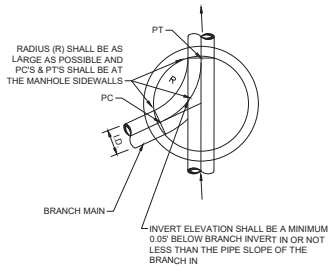
P:\24\11\2025\24111001\24111001.dwg | User: jwoodh@mmn.com | Date: 02/23/2025 11:15 AM | Plot: 02/23/2025 12:11 PM



- GENERAL NOTES:**
- CONCRETE SHALL BE CAST IN PLACE AND 4000 PSI.
 - COLLAR SHALL PROVIDE POSITIVE DRAINAGE TO INLET IN ALL DIRECTIONS, MIN. 2% TRANSITION TO ADJACENT PAVEMENT.
 - ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.



- NOTES:**
- P.C.S. & P.T.S. ARE TO BE WITHIN THE MANHOLE.
 - ALL INVERTS TO BE U-SHAPED CHANNEL EQUAL TO PIPE I.D. AND SHALL BE CONSTRUCTED WITH SWEEPS.
 - A MINIMUM RADIUS (R) OF 2.5 TIMES THE I.D. OF THE BRANCH MAIN IS REQUIRED FOR ALL SWEEPS. IF THE 2.5 TIMES THE I.D. OF THE BRANCH CAN'T BE MET, A LARGER DIAMETER MANHOLE SHALL BE REQUIRED. MANHOLE PIPE CONNECTOR SHALL BE A RESILIENT WATERTIGHT SEAL.



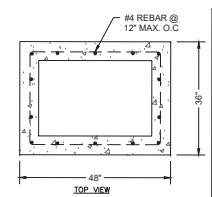
CROSSWALK WIDTH TO MATCH ADJACENT SIDEWALK OR PATH WIDTH, BUT NOT LESS THAN 6' MEASURED BETWEEN LINES.

NEENAH R-3406 FRAME AND GRATE FOR AREA STORM INLET
N.T.S.

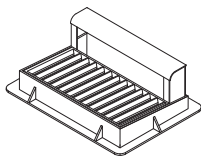
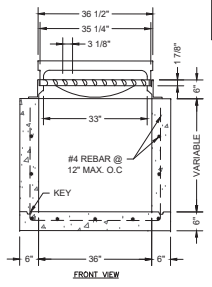
1 AREA INLET
SCALE: NTS

2 SANITARY SEWER MANHOLE
SCALE: NTS

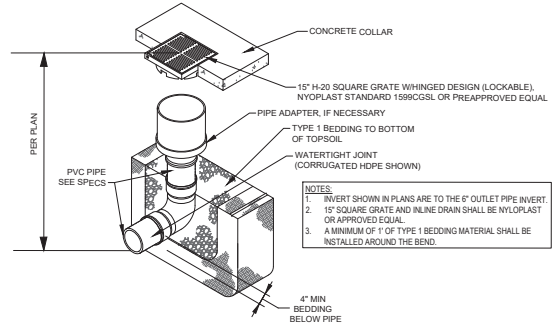
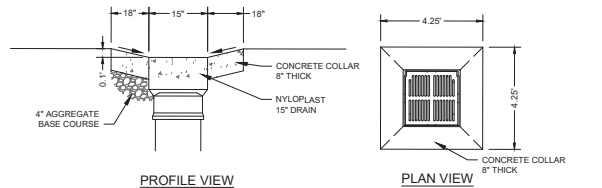
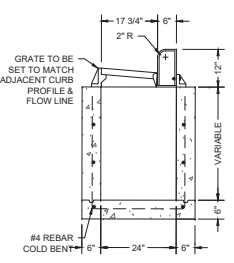
3 CROSSWALK DETAIL
SCALE: NTS



- GENERAL NOTES:**
- CONCRETE SHALL HAVE 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 - ALL STRUCTURAL JOINTS SHALL BE KEYED & WATER TIGHT.
 - EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. CUT AND BEND BARS AS REQUIRED TO PLACE PIPES THROUGH DROP INLET WALL.
 - PRECASTING OF TYPE "B" INLETS MAY BE PERMISSIBLE PRIOR TO RECASTING. THE CONTRACTOR SHALL SUBMIT DETAILS TO ENGINEER FOR APPROVAL.
 - MAXIMUM PIPE DIAMETER SHOULD NOT EXCEED 21 INCHES ON THE 3 FOOT WIDE SIDE OF THE TYPE "B" INLET.
 - IN SITUATIONS WHERE MULTIPLE INLETS ARE TO BE CONSTRUCTED ADJACENT TO ONE ANOTHER, THE COMMON INLET WALL SHALL BE CONSTRUCTED 12 INCHES THICK WITH THE EQUIVALENT AMOUNT OF REBAR AS IS REQUIRED FOR EACH INLET INDIVIDUALLY. THE CONVEYANCE OF STORM WATER THRU THE COMMON WALL SHALL BE BY INSTALLING THE APPROPRIATELY SIZED REINFORCED CONCRETE PIPE.



4 TYPE B INLET DETAIL
SCALE: NTS



- NOTES:**
- INVERT SHOWN IN PLANS ARE TO THE 6" OUTLET PIPE INVERT.
 - 15" SQUARE GRATE AND INLINE DRAIN SHALL BE NYLOPLAST OR APPROVED EQUAL.
 - A MINIMUM OF 1" OF TYPE 1 BEDDING MATERIAL SHALL BE INSTALLED AROUND THE BEND.

NOTE: BOX MANHOLE, TYPE "B" DETAILS

NEENAH R-3067 (V CURB INLET, FLOW-RIGHT SHOWN)

5 NYLOPLAST 15" SQUARE GRATE INLINE DRAIN
SCALE: NTS

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

Drawing Title

CIVIL DETAILS

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

02/14/2025

Checked

EB

Drawn

AB

Project Number

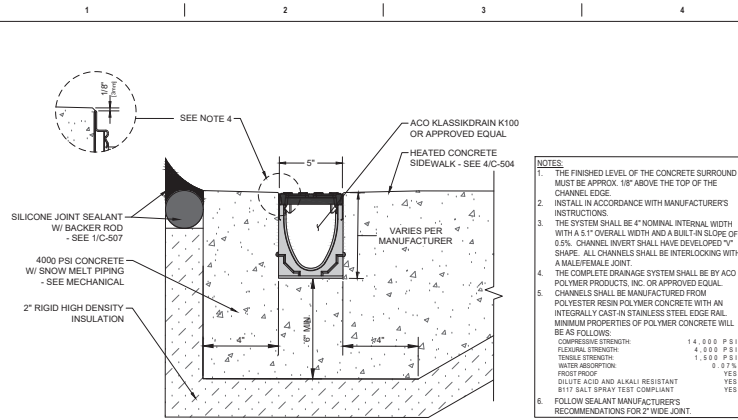
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Building Number

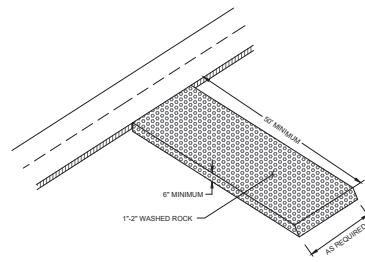
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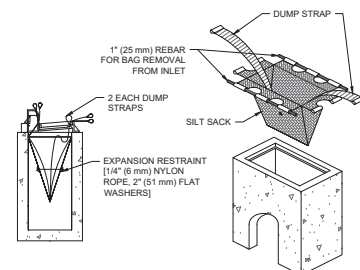
C-505



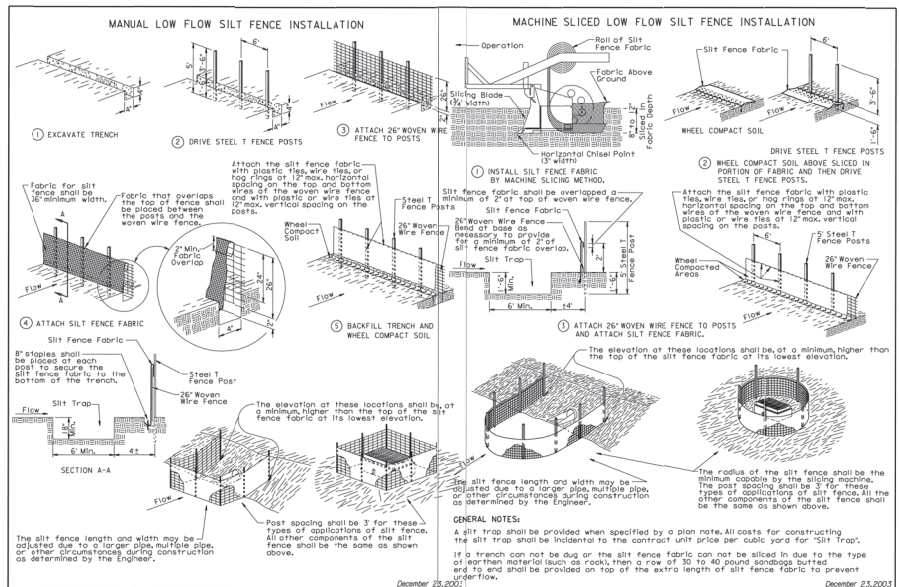
1 TRENCH DRAIN DETAIL
SCALE: NTS



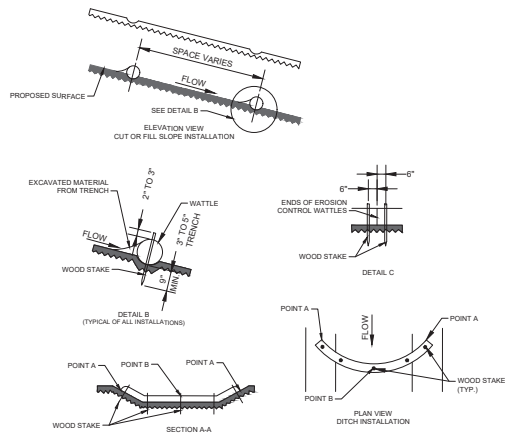
2 ROCK CONSTRUCTION ENTRANCE DETAIL
SCALE: NTS



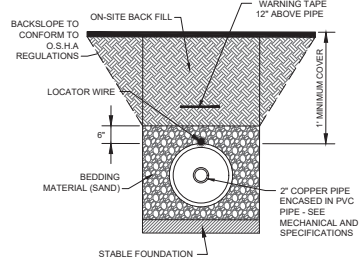
3 INLET PROTECTION DETAIL
SCALE: NTS



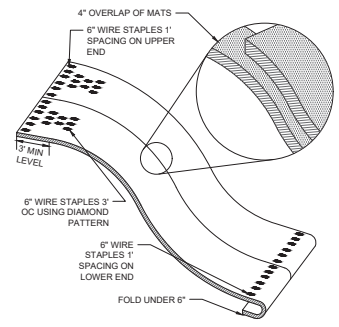
4 SILT FENCE DETAILS
SCALE: NTS



5 SEDIMENT CONTROL WATTLE
SCALE: NTS



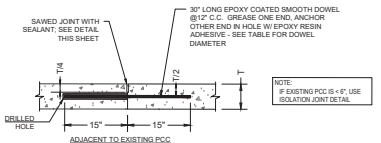
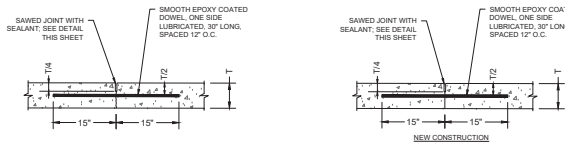
6 OXYGEN LINE TRENCH DETAIL
SCALE: NTS



7 EROSION CONTROL BLANKET
SCALE: NTS

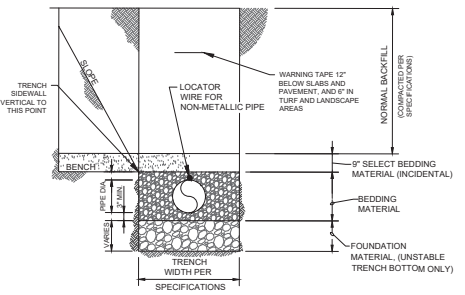
CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.432.4800 F 763.432.4050 e-m: mm.com Anderson Engineering of Minnesota, LLC. P#03 143634		STAMP I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA LICENSE NO. 105489	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title CIVIL DETAILS Approved: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM	Phase BID DOCUMENTS FULLY SPRINKLERED	Project Title CONSTRUCT NEW SPS Location: SIOUX FALLS, SOUTH DAKOTA Issue Date: 02/14/2025 Checked: EB Drawn: AB	Project Number 438-460 Building Number: 5 Drawing Number: C-506
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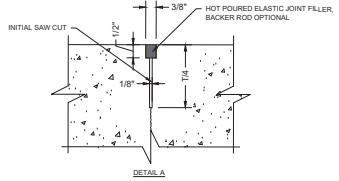
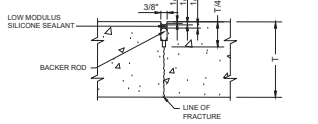
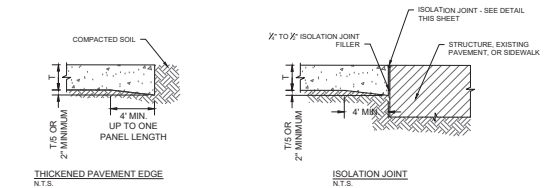


- NOTE:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH A0 308.10
 2. DOWEL BAR ASSEMBLY IS RECOMMENDED TO KEEP DOWELS IN PROPER ALIGNMENT
 3. DOWELS SHALL NOT BE PLACED CLOSER THAN 12" TO A JOINT INTERSECTION

PAVEMENT THICKNESS (IN)	DOWEL DIAMETER (IN)
6	3/4"
7	1
>8	1 1/4

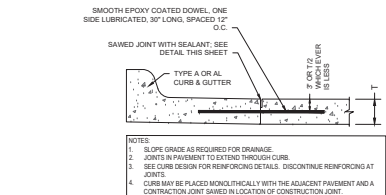


2 STANDARD PIPE TRENCH DETAIL
SCALE: NTS



- NOTE:
- THE FIRST SAW CUT TO CONTROL CRACKING SHALL BE A MINIMUM OF 1/4 THE DEPTH OF THE PAVEMENT. ADDITIONAL SAWING FOR WIDENING THE SAW CUT TO PROVIDE THE WIDTH FOR THE INSTALLATION OF THE LOW MODULUS SILICONE JOINT SEALANT WILL BE NECESSARY. BACKER ROD SHALL BE NON-MOISTURE ABSORBING RESILIENT MATERIAL, APPROXIMATELY 25% LARGER IN DIAMETER THAN THE WIDTH OF THE JOINT TO BE SEALED.

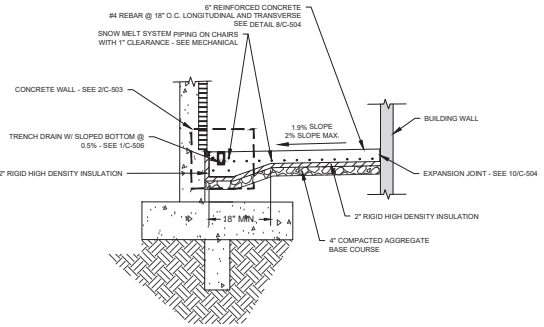
SAWED JOINT W/ BACKER ROD & SILICONE SEAL
PAVEMENT CONTRACTION JOINT DETAILS
N.T.S.



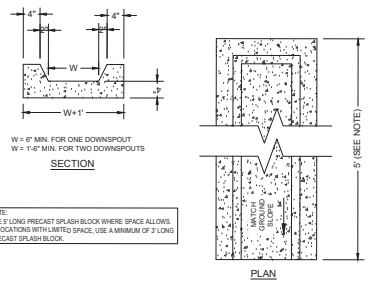
- NOTES:
1. SLOPE GRADE AS REQUIRED FOR DRAINAGE.
 2. JOINTS IN PAVEMENT TO EXTEND THROUGH CURB.
 3. SEE CURB DESIGN FOR REINFORCING DETAILS, DISCONTINUE REINFORCING AT JOINTS.
 4. CURB MAY BE PLACED MONOTHOICALLY WITH THE ADJACENT PAVEMENT AND A CONTRACTION JOINT SAVED IN LOCATION OF CONSTRUCTION JOINT.

CURB CONSTRUCTION JOINT
N.T.S.

1 JOINT DETAILS
SCALE: NTS

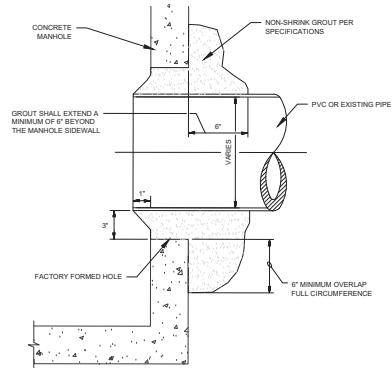


4 HEATED SIDEWALK DETAIL
SCALE: NTS

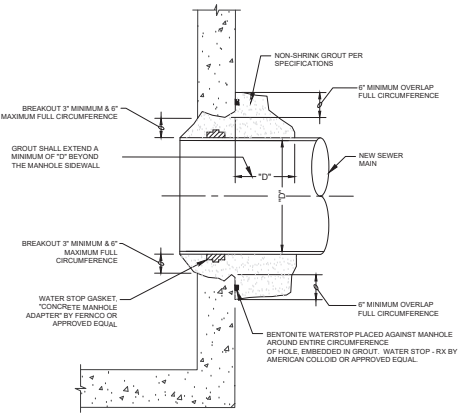


- NOTE:
- USE 5' LONG PRECAST SPLASH BLOCK WHERE SPACE ALLOWS IN LOCATIONS WITH LIMITED SPACE. USE A MINIMUM OF 3' LONG PRECAST SPLASH BLOCK.

5 PRECAST SPLASH BLOCK
SCALE: NTS

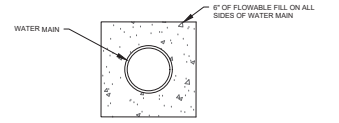


6 PIPE CONNECTION TO STORM MANHOLE
SCALE: NTS



- NOTE:
- AS AN ALTERNATIVE, THE CONTRACTOR MAY CORE THE EXISTING MANHOLE AND INSTALL A BOOT-TYPE FLEXIBLE CONNECTOR CONSISTING OF A RUBBER GASKET OR BOOT, METAL EXPANSION RING AND DOUBLE METAL TIE-UP CLAMPS, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, OR PRE-APPROVED EQUAL. A STAINLESS STEEL 'POWER BLEND' SHALL BE SAMPLED FOR CONNECTING THE BOOT TO THE MANHOLE. THE BOOTS SHALL BE TYPE PFA AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION OR APPROVED EQUAL. RUBBER BOOTS AND GASKET MATERIAL SHALL MEET OR EXCEED ASTM C582.

3 PIPE CONNECTION TO SANITARY MANHOLE
SCALE: NTS



7 ENCASUREMENT DETAIL
SCALE: NTS

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

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MINNESOTA
DATE: 2023.02.14 LICENSE NO: 95469

Office of Construction and Facilities Management

Drawing Title

CIVIL DETAILS

Approved: Project Director

SIoux FALLS VA HEALTH CARE SYSTEM

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

CONSTRUCT NEW SPS

Location

SIoux FALLS, SOUTH DAKOTA

Issue Date

02/14/2025

Checked

EB

Drawn

AB

Project Number

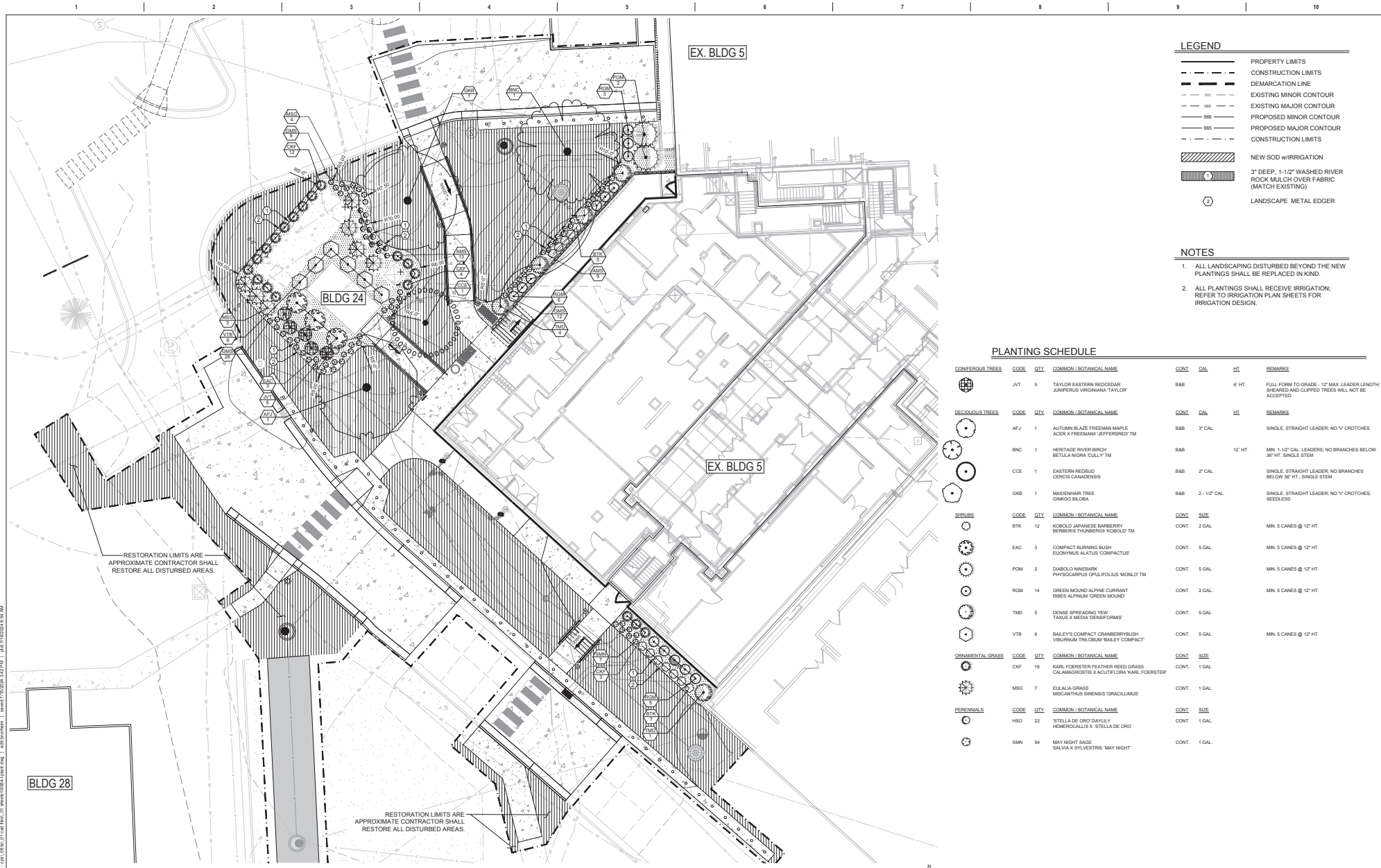
438-460

Building Number

5

Drawing Number

C-507



LEGEND

---	PROPERTY LIMITS
- - - -	CONSTRUCTION LIMITS
---	DEMARCATION LINE
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	CONSTRUCTION LIMITS
▨	NEW SOD w/IRRIGATION
①	3" DEEP, 1-1/2" WASHED RIVER ROCK MULCH OVER FABRIC (MATCH EXISTING)
②	LANDSCAPE METAL EDGER

- NOTES**
- ALL LANDSCAPING DISTURBED BEYOND THE NEW PLANTINGS SHALL BE REPLACED IN KIND.
 - ALL PLANTINGS SHALL RECEIVE IRRIGATION. REFER TO IRRIGATION PLAN SHEETS FOR IRRIGATION DESIGN.

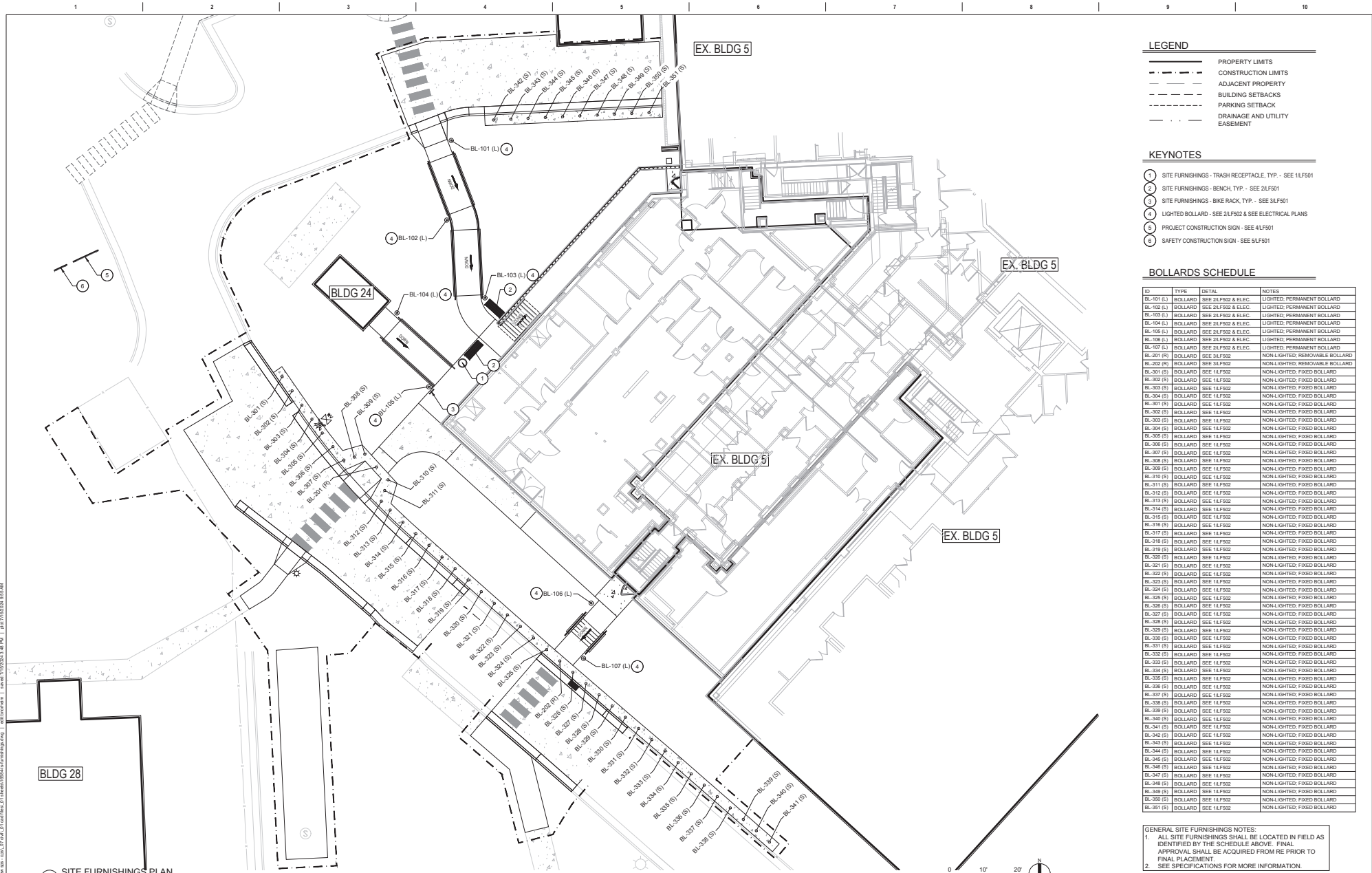
PLANTING SCHEDULE

CONFERIOUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT.	SIZE	HT.	REMARKS
⊗	JVT	5	TAYLOR EASTERN REDCEDAR JUNIPERUS VIRGINIANA 'TAYLOR'	BAB		6 FT.	FULL FORM TO GRADE - 12" MAX LEADER LENGTH. SHEARED AND CLIPPED TREES WILL NOT BE ACCEPTED
DECIDUOUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT.	SIZE	HT.	REMARKS
⊙	AFJ	1	AUTUMN BLAZE FREEMAN MAPLE ACER X FREDMANI 'JEFFERSON' TM	BAB	3" CAL.		SINGLE, STRAIGHT LEADER; NO "Y" CROTCHES
⊙	BNC	1	HERITAGE RIVER BIRCH BETULA NIGRA 'CULLY' TM	BAB		12' HT.	MIN. 1-1/2" CAL. LEADERS; NO BRANCHES BELOW 30" HT. SINGLE STEM
⊙	CCE	1	EASTERN REDBUD CERCIS CANADENSIS	BAB	2" CAL.		SINGLE, STRAIGHT LEADER; NO BRANCHES BELOW 30" HT. SINGLE STEM
⊙	OKB	1	MAIDENHAIR TREE ORNITHOGALON	BAB	2 - 1/2" CAL.		SINGLE, STRAIGHT LEADER; NO "Y" CROTCHES; SEEDLESS
SHRUBS	CODE	QTY	COMMON / BOTANICAL NAME	CONT.	SIZE		
⊙	BTX	12	KOBOLD JAPANESE BARBERRY BERBERIS THUNBERGII 'KOBOLD' TM	CONT.	2 GAL.		MIN. 5 CANES @ 12" HT.
⊙	EAC	3	COMPACT BURNING BUSH EUONYMUS ALATUS 'COMPACTUS'	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
⊙	POM	2	DWARF NINEBARK PHYSCALOPUS OPALIFOLIUS 'MONLO' TM	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
⊙	RDV	14	GREEN MOUND ALPINE CURRANT RIBES ALPIMUM 'GREEN MOUND'	CONT.	2 GAL.		MIN. 5 CANES @ 12" HT.
⊙	TMD	5	DENSE SPREADING YEW TAXUS X MEDIA 'DENSIFORMIS'	CONT.	5 GAL.		
⊙	VTB	6	BAILEY'S COMPACT CRANBERRYHUSH VIBURNUM TRICOLORUM 'BAILEY COMPACT'	CONT.	5 GAL.		MIN. 5 CANES @ 12" HT.
ORNAMENTAL GRASS	CODE	QTY	COMMON / BOTANICAL NAME	CONT.	SIZE		
⊙	CAF	19	KARL FOERSTER FEATHER REED GRASS CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	CONT.	1 GAL.		
⊙	MSG	7	ELALIA GRASS MISCANTHUS SINENSIS 'GRACILIMUS'	CONT.	1 GAL.		
PERENNIALS	CODE	QTY	COMMON / BOTANICAL NAME	CONT.	SIZE		
⊙	HSD	22	'STELLA DE ORO' DAYLILY HEMEROCALLIS X 'STELLA DE ORO'	CONT.	1 GAL.		
⊙	SAN	54	MAY NIGHT SAGE SALVIA X SYLVESTRIS 'MAY NIGHT'	CONT.	1 GAL.		

1 PLANTING PLAN
SCALE: 1" = 10' (30" x 42" PAPER SIZE)



Revisions: _____ Date: _____ CONSULTANTS 	ARCHITECT/ENGINEER OF RECORD 13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.432.4000 F 763.432.4050 e-mm.com Anderson Engineering of Minnesota, LLC. PEO# 16304	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title PLANTING PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
				Approved: Project Director SIoux FALLS VA HEALTH CARE SYSTEM	FULLY SPRINKLERED	Location SIoux FALLS, SOUTH DAKOTA	Building Number 5
				Issue Date 02/14/2025	Checked CC	Drawn JF	Drawing Number LP101



LEGEND

- PROPERTY LIMITS
- CONSTRUCTION LIMITS
- - - ADJACENT PROPERTY
- - - BUILDING SETBACKS
- - - PARKING SETBACK
- - - DRAINAGE AND UTILITY EASEMENT

- KEYNOTES**
- 1 SITE FURNISHINGS - TRASH RECEPTACLE, TYP. - SEE 1LF501
 - 2 SITE FURNISHINGS - BENCH, TYP. - SEE 2LF501
 - 3 SITE FURNISHINGS - BIKE RACK, TYP. - SEE 3LF501
 - 4 LIGHTED BOLLARD - SEE 2LF502 & SEE ELECTRICAL PLANS
 - 5 PROJECT CONSTRUCTION SIGN - SEE 4LF501
 - 6 SAFETY CONSTRUCTION SIGN - SEE 5LF501

BOLLARDS SCHEDULE

ID	TYPE	DETAIL	NOTES
BL-101 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-102 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-103 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-104 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-105 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-106 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-107 (L)	BOLLARD	SEE 2LF502 & ELEC.	LIGHTED; PERMANENT BOLLARD
BL-201 (R)	BOLLARD	SEE 3LF502	NON-LIGHTED; REMOVABLE BOLLARD
BL-301 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-302 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-303 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-304 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-305 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-306 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-307 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-308 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-309 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-310 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-311 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-312 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-313 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-314 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-315 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-316 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-317 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-318 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-319 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-320 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-321 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-322 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-323 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-324 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-325 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-326 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-327 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-328 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-329 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-330 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-331 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-332 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-333 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-334 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-335 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-336 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-337 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-338 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-339 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-340 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-341 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-342 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-343 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-344 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-345 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD
BL-346 (S)	BOLLARD	SEE 1LF502	NON-LIGHTED; FIXED BOLLARD

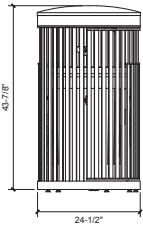
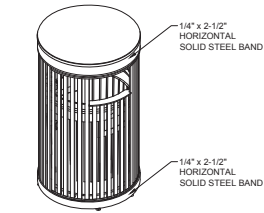
GENERAL SITE FURNISHINGS NOTES:

- ALL SITE FURNISHINGS SHALL BE LOCATED IN FIELD AS IDENTIFIED BY THE SCHEDULE ABOVE. FINAL APPROVAL SHALL BE ACQUIRED FROM RE PRIOR TO FINAL PLACEMENT.
- SEE SPECIFICATIONS FOR MORE INFORMATION.

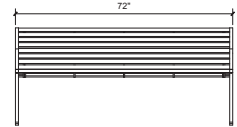
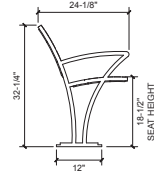
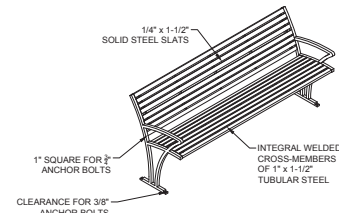
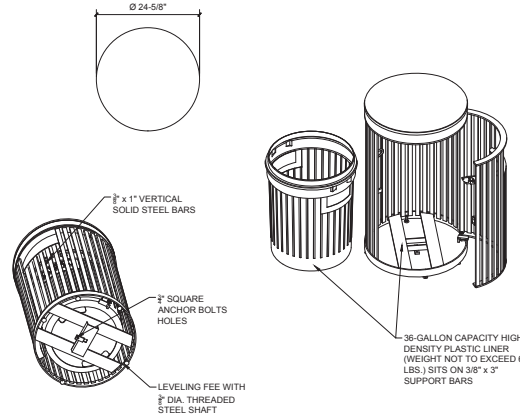
1 SITE FURNISHINGS PLAN
SCALE: 1" = 10' (35" X 42" PAPER SIZE)

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<p>Revisions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50px;"> </td><td style="width: 50px;"> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							<p>CONSULTANTS</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.432.4000 F 763.432.4050 e-mn.com Anderson Engineering of Minnesota, LLC P#013 16304</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> U.S. Department of Veterans Affairs	<p>Drawing Title</p> <p style="text-align: center;">SITE FURNISHINGS PLAN</p> <p>Approved: Project Director</p> <p style="text-align: center;">SIoux FALLS VA HEALTH CARE SYSTEM</p>	<p>Phase</p> <p style="text-align: center;">BID DOCUMENTS</p> <p style="text-align: center;">FULLY SPRINKLERED</p>	<p>Project Title</p> <p style="text-align: center;">CONSTRUCT NEW SPS</p> <p>Location: SIoux FALLS, SOUTH DAKOTA</p> <p>Issue Date: 02/14/2025</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Checked: CC</td><td>Drawn: JWF</td></tr> <tr><td> </td><td> </td></tr> </table>	Checked: CC	Drawn: JWF			<p>Project Number</p> <p style="text-align: center;">438-460</p> <p>Building Number</p> <p style="text-align: center;">5</p> <p>Drawing Number</p> <p style="text-align: center;">LF101</p>
Checked: CC	Drawn: JWF																	



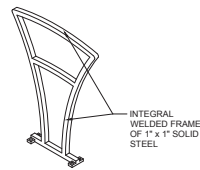
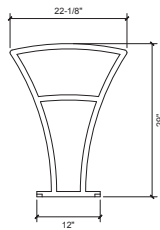
TRASH RECEPTACLE
BASIS FOR DESIGN
MODEL: 38" STEEL SITES
(SDC-38)
BY VICTOR STANLEY



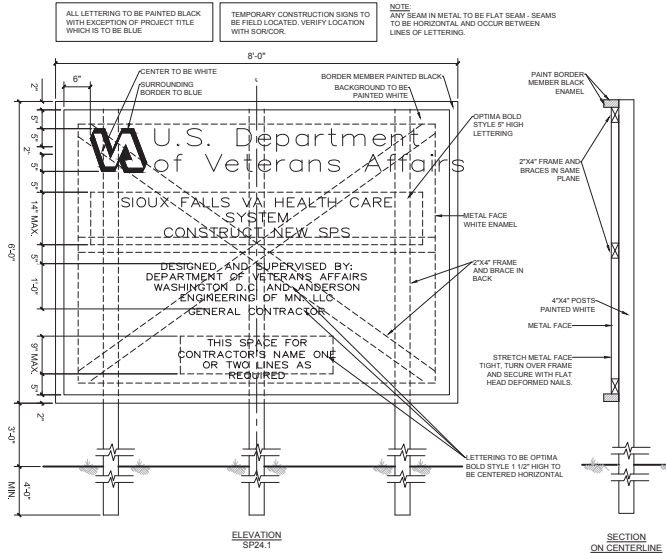
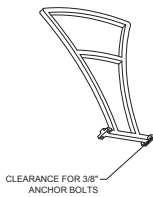
BENCH
BASIS FOR DESIGN
MODEL: 6" FREE-SIA WITH
END ARMRESTS
(FRE-20)
BY VICTOR STANLEY

1 TRASH RECEPTACLE (OWNER PROVIDED; CONTRACTOR INSTALLED)
SCALE: N.T.S. (30" x 42" PAPER SIZE)

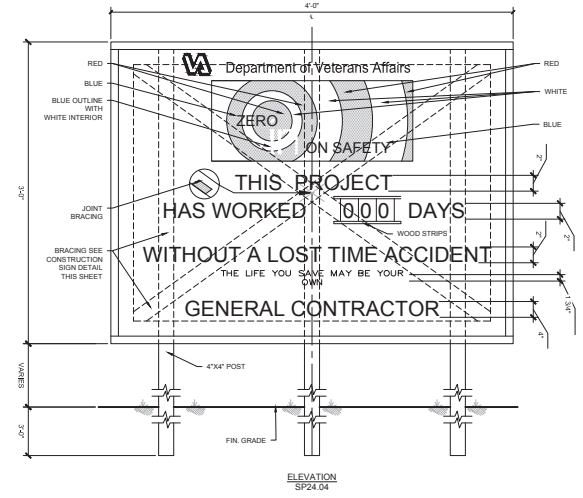
3 BENCH (OWNER PROVIDED; CONTRACTOR INSTALLED)
SCALE: N.T.S. (30" x 42" PAPER SIZE)



BIKE RACK
BASIS FOR DESIGN
MODEL: FRESIA BIKE RACK
SINGLE ARCH WITH CROSS BAR
(BFRE-181)
BY VICTOR STANLEY



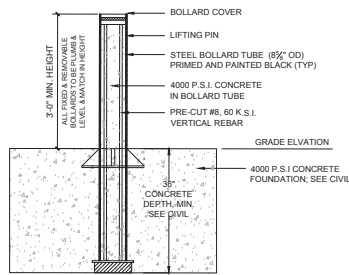
4 PROJECT CONSTRUCTION SIGN
SCALE: N.T.S. (30" x 42" PAPER SIZE)



5 SAFETY CONSTRUCTION SIGN
SCALE: N.T.S. (30" x 42" PAPER SIZE)

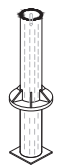
2 BIKE RACK (OWNER PROVIDED; CONTRACTOR INSTALLED)
SCALE: N.T.S. (30" x 42" PAPER SIZE)

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Revisions: _____ Date: _____		APPROVED: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM		FULLY SPRINKLERED	Location SIOUX FALLS, SOUTH DAKOTA	Issue Date 02/14/2025	Checked CC	Drawn JF	Drawing Number LF501



FIXED BOLLARD
BASIS FOR DESIGN
MODEL SPB-400 (SET & POUR)
RATED ASTM M30(K4)
BY IDEAL SHIELD

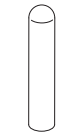
NOTE:
STANDARD FIXED BOLLARDS & REMOVABLE
BOLLARDS TO BE RATED ASTM M30(K4) PER VA
PHYSICAL SECURITY AND RESILIENCY DESIGN
MANUAL REQUIREMENTS



BOLLARD TUBE
(QTY 1) EACH BOLLARD

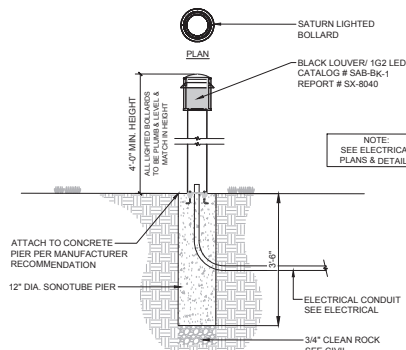


PRE-CUT VERTICAL REBAR
(QTY 6) EACH BOLLARD



BOLLARD COVER
(QTY 1) EACH BOLLARD

FIXED BOLLARD PREFABRICATED MATERIALS

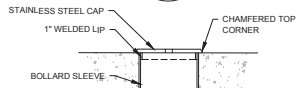


LIGHTED BOLLARD
BASIS FOR DESIGN
MODEL SATURN BOLLARD - SAB SERIES
BY SELUX CORP.

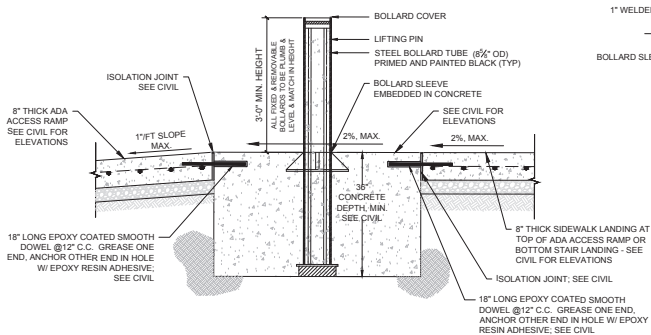
NOTE:
SEE ELECTRICAL
PLANS & DETAILS

1 FIXED BOLLARDS - RATED M30(K4)
SCALE: N.T.S. (30" x 42" PAPER SIZE)

2 LIGHTED BOLLARDS
SCALE: N.T.S. (30" x 42" PAPER SIZE)

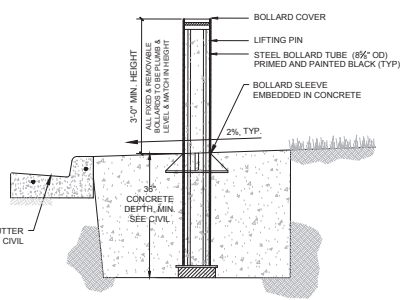


REMOVABLE BOLLARD CAP
BASIS FOR DESIGN MODEL SPB-400
RATED ASTM M30(K4)
BY IDEAL SHIELD

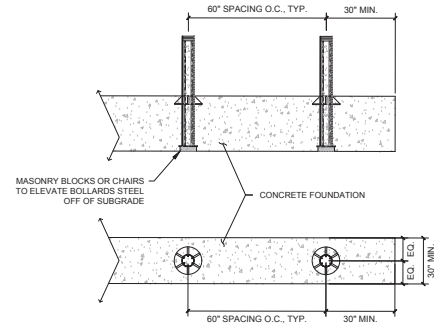


REMOVABLE BOLLARD
(AT TOP OF ABA ACCESS RAMP & BOTTOM STAIR LANDING)
BASIS FOR DESIGN MODEL SPB-400
RATED ASTM M30(K4)
BY IDEAL SHIELD

NOTE:
STANDARD FIXED BOLLARDS & REMOVABLE
BOLLARDS TO BE RATED ASTM M30(K4) PER VA
PHYSICAL SECURITY AND RESILIENCY DESIGN
MANUAL REQUIREMENTS







REMOVABLE BOLLARD
(BEHIND CURB AND GUTTER)
BASIS FOR DESIGN MODEL SPB-400
RATED ASTM M30(K4)
BY IDEAL SHIELD

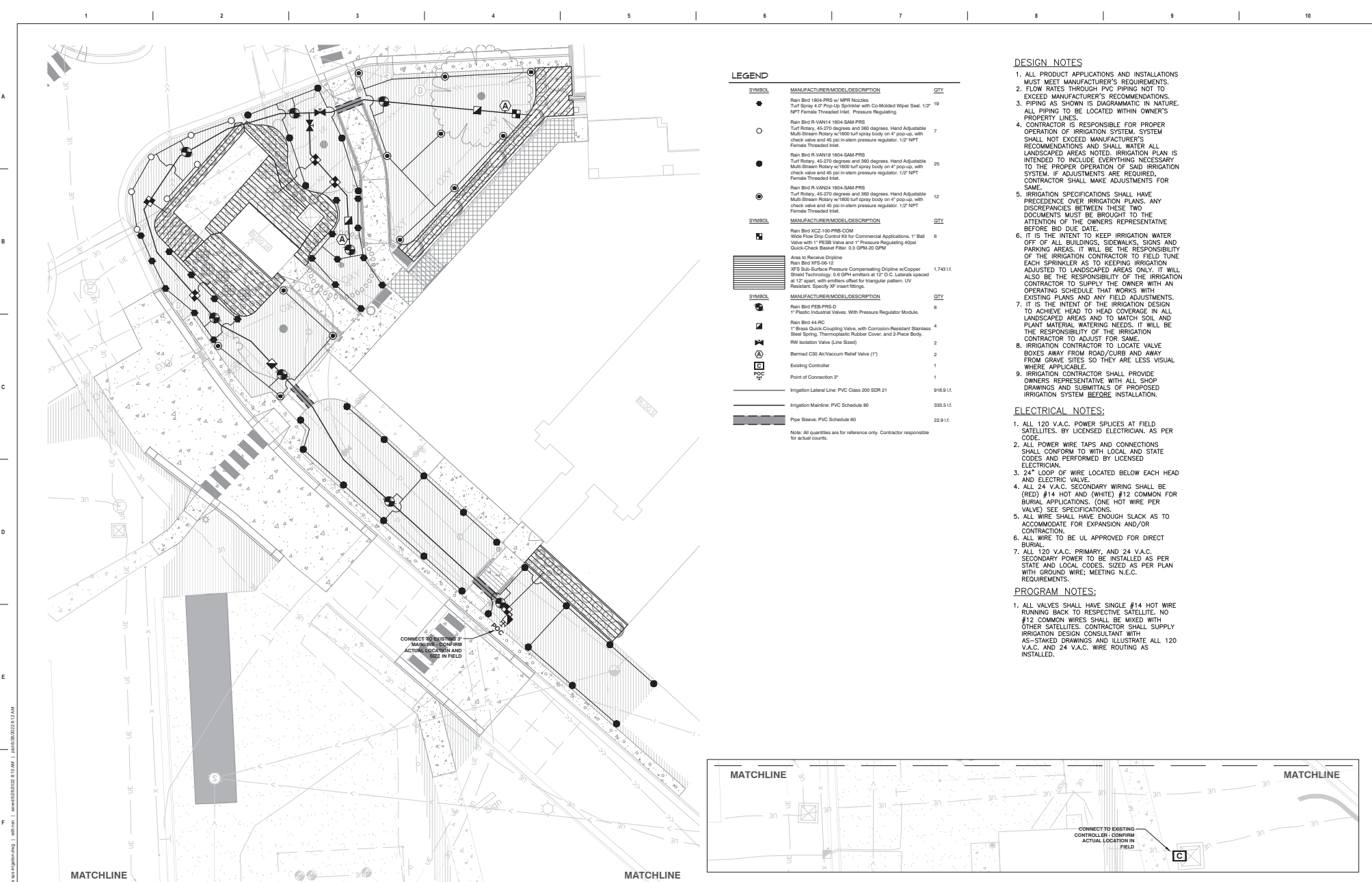


FIXED AND REMOVABLE BOLLARD ARRAY

3 REMOVABLE BOLLARDS - RATED M30(K4)
SCALE: N.T.S. (30" x 42" PAPER SIZE)

4 FIXED & REMOVABLE BOLLARDS SPACING
SCALE: N.T.S. (30" x 42" PAPER SIZE)

Revisions: Date:	CONSULTANTS  		ARCHITECT/ENGINEER OF RECORD  13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4050 e-mn.com Anderson Engineering of Minnesota, L.L.C. P#0 16364		STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title SITE FURNISHINGS DETAILS Approved: Project Director SIoux FALLS VA HEALTH CARE SYSTEM		Phase BID DOCUMENTS FULLY SPRINKLERED		Project Title CONSTRUCT NEW SPS Location SIoux FALLS, SOUTH DAKOTA		Project Number 438-460 Building Number 5 Drawing Number LF502	



LEGEND

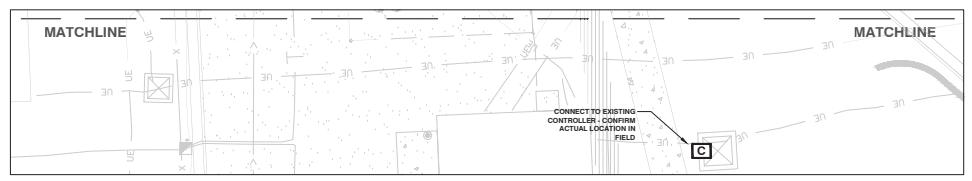
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
●	Rain Bird 1804-PR8 w/ MPR Nozzles	19
○	Turf Spray 4.2 Pop-Up Sprinkler with Co-Modded Wiper Seal, 1/2" NPT Female Threaded Inlet, Pressure Regulating	7
○	Rain Bird R-WAN14 1804-SAM-PR8	7
○	Turf Rotary 45-270 degree and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1500 surf spray body on 4" pop-up, with check valve and 45 psi in-line pressure regulator, 1/2" NPT Female Threaded Inlet	25
○	Rain Bird R-WAN18 1804-SAM-PR8	12
○	Turf Rotary 45-270 degree and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1500 surf spray body on 4" pop-up, with check valve and 45 psi in-line pressure regulator, 1/2" NPT Female Threaded Inlet	12
○	Rain Bird R-WAN24 1804-SAM-PR8	6
○	Turf Rotary 45-270 degree and 360 degrees, Hand Adjustable Multi-Stream Rotary w/1500 surf spray body on 4" pop-up, with check valve and 45 psi in-line pressure regulator, 1/2" NPT Female Threaded Inlet	6
■	Rain Bird XCC-100-PR8-DCOM	1,743 L.F.
■	Wide Flow Emul Control Kit for Commercial Applications, 1" Ball Valve with 1" PESS Valve and 1" Pressure Regulating 40psi Quick-Check Bleed Filter, 0.3 GPM @ 50 PSI	8
■	Area to Receive Drip Line	1,743 L.F.
■	Rain Bird 378-304-12	4
■	XFS Sub-Surface Pressure Compensating Drip Line w/Copper (Shed) Technology, 0.6 GPM emitters at 12" C.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern, UV Resistant, Specify XF insert fittings	2
■	Rain Bird PE8B-13	1
■	1" Plastic Industrial Valves, With Pressure Regulator Module	2
■	Rain Bird 44-RC	1
■	1" Brass Gate-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body	1
■	Bernad C30 Air/Vacuum Relief Valve (1")	1
■	Existing Controller	1
■	Point of Connection 3"	1
■	Irrigation Lateral Line: PVC Class 200 SDR 21	918.9 L.F.
■	Irrigation Mainline: PVC Schedule 80	383.5 L.F.
■	Pipe Sleeve: PVC Schedule 80	22.9 L.F.

Note: All quantities are for reference only. Contractor responsible for actual counts.

- DESIGN NOTES**
- ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS.
 - FLOW RATES THROUGH PVC PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
 - PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. IF ANY ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
 - CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL LANDSCAPED AREAS NOTED. IRRIGATION PLAN IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.
 - IRRIGATION SPECIFICATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION PLANS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE BID DUE DATE.
 - IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS, SIGNS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION RESTRICTED TO LANDSCAPED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND ANY FIELD ADJUSTMENTS.
 - IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL LANDSCAPED AREAS AND TO MATCH SOIL AND PLANT MATERIAL WATERING NEEDS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.
 - IRRIGATION CONTRACTOR TO LOCATE VALVE BOXES AWAY FROM ROAD/CURB AND AWAY FROM GRAVE SITES SO THEY ARE LESS VISUAL WHERE APPLICABLE.
 - IRRIGATION CONTRACTOR SHALL PROVIDE OWNER'S REPRESENTATIVE WITH ALL SHOP DRAWINGS AND SUBMITTALS OF PROPOSED IRRIGATION SYSTEM BEFORE INSTALLATION.

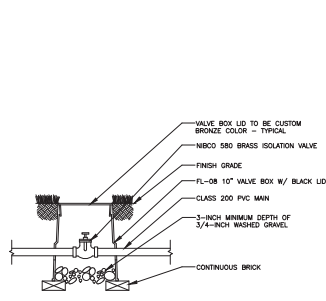
- ELECTRICAL NOTES:**
- ALL 120 V.A.C. POWER SPLICES AT FIELD SATELLITES. BY LICENSED ELECTRICIAN, AS PER CODE.
 - ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO WITH LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.
 - 24" LOOP OF WIRE LOCATED BELOW EACH HEAD AND ELECTRIC VALVE.
 - ALL 24 V.A.C. SECONDARY WIRING SHALL BE (RED) #14 HOT AND (WHITE) #12 COMMON FOR BURIAL APPLICATIONS. (ONE HOT WIRE PER VALVE) SEE SPECIFICATIONS.
 - ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION.
 - ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.
 - ALL 120 V.A.C. PRIMARY, AND 24 V.A.C. SECONDARY POWER TO BE INSTALLED AS PER STATE AND LOCAL CODES, SIZED AS PER PLAN WITH GROUND WIRE; MEETING N.E.C. REQUIREMENTS.

- PROGRAM NOTES:**
- ALL VALVES SHALL HAVE SINGLE #14 HOT WIRE RUNNING BACK TO RESPECTIVE SATELLITE. NO #12 COMMON WIRES SHALL BE MIXED WITH OTHER SATELLITES. CONTRACTOR SHALL SUPPLY IRRIGATION DESIGN CONSULTANT WITH AS-STAKED DRAWINGS AND ILLUSTRATE ALL 120 V.A.C. AND 24 V.A.C. WIRE ROUTING AS INSTALLED.

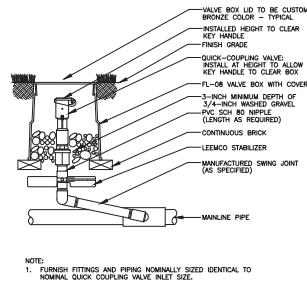


CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.432.4000 F 763.432.4050 ee-mn.com Anderson Engineering of Minnesota, LLC. Proj # 16354		STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title IRRIGATION PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460	
Revisions: _____ Date: _____					Approved: Project Director SIoux FALLS VA HEALTH CARE SYSTEM	Location SIoux FALLS, SOUTH DAKOTA	Issue Date 02/14/2025	Checked <input type="checkbox"/>	Drawn <input type="checkbox"/>	Drawing Number IR101

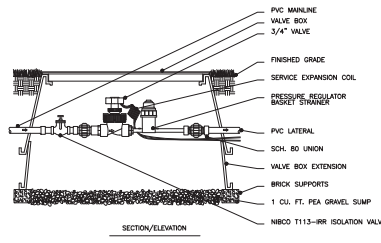
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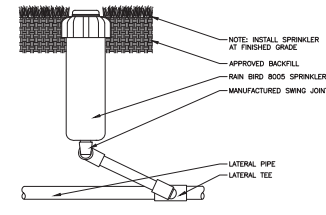
1 ISOLATION VALVE WITH BOX
SCALE: NONE



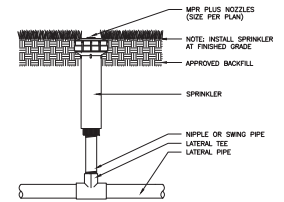
2 QUICK-COUPLING VALVE WITH STABILIZER
SCALE: NONE



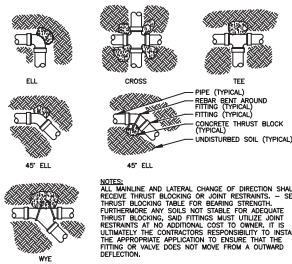
3 REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
SCALE: NONE



4 TURF ROTOR
SCALE: NONE



5 FIXED-SPRAY SPRINKLER
SCALE: NONE



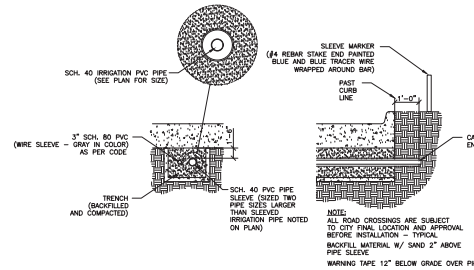
6 THRUST BLOCK DETAIL
SCALE: NONE

THRUST BLOCKING			
STEP 1. MULTIPLY THE PRESSURE LEVEL DESIRED FOR TESTING BY THE APPROPRIATE VALUE SHOWN IN THE FOLLOWING TABLE:			
PIPE SIZE OR TEE	90° ELBOW	45° ELBOW	22.5° ELBOW
1.5"	2.94	4.16	2.25
2"	4.58	6.45	3.50
2.5"	6.85	9.40	5.10
3"	9.80	13.9	7.51
3.5"	12.8	18.1	9.81
4"	16.2	23.0	12.4
5"	24.7	35.0	18.9
6"	34.8	49.2	26.7

SIDE THRUST ON CURVES	
AN OUTWARD PRESSURE EXISTS ON ALL DEFLECTIONS FROM A STRAIGHT LINE. GOOD SOIL, PROPERLY TAMPED, IS SUFFICIENT TO HOLD SIDE THRUST - UNLESS SOIL CONDITIONS ARE UNDESIRABLE. IN THAT CASE, TO ANCHOR AGAINST THIS SIDE THRUST, THE BLOCKING SHOULD BE PLACED AGAINST THE PIPE ON EACH SIDE OF THE COUPLING. DO NOT THRUST BLOCK THE COUPLING ITSELF.	
PIPE SIZE INCHES	SIDE THRUST POUNDS PER DEGREE
1.5"	5.1
2"	7.9
2.5"	11.6
3"	17.1
3.5"	22.4
4"	28.3
5"	43.1
6"	60.8

BEARING STRENGTH OF SOILS	
BASED ON POUNDS PER PSI WORKING PRESSURE.	
SOILS AND SAFE BEARING LOADS LBS. SQ. FT.	
SOUND SHALE	10,000
CEMENTED GRAVEL AND SAND-DIFFICULT TO PICK	4,000
COMPACT SAND	3,000
MEDIUM CLAY	2,000
SOFT CLAY	1,000
MUCK	0

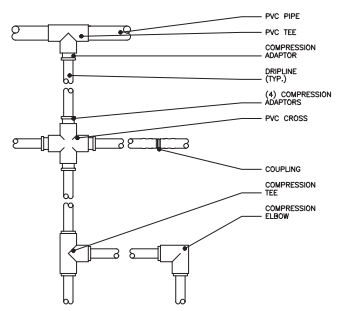
SLEEVING DETAIL	
STEP 3. DETERMINE THE BEARING STRENGTH OF THE SOIL FROM THE TABLE BELOW.	
BASED ON SIDE THRUST PER 100 LBS./SQUARE INCH PRESSURE PER DEGREE OF DEFLECTION.	
NOTE: MULTIPLY SIDE THRUST POUNDS BY DEGREES OF DEFLECTION TIMES POUNDS OF PRESSURE DIVIDED BY 100 TO OBTAIN TOTAL SIDE THRUST IN POUNDS.	



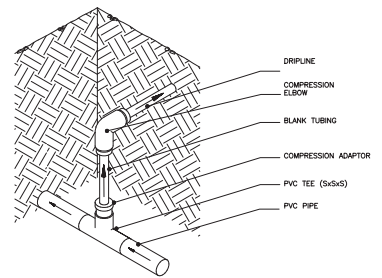
7 SLEEVING DETAIL
SCALE: NONE

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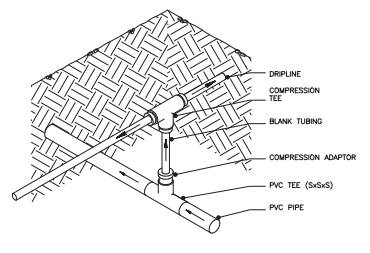
CONSULTANTS 		ARCHITECT/ENGINEER OF RECORD 13605 31st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC PWA # 16304		STAMP	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title IRRIGATION DETAILS	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460 Building Number
Revisions: _____ Date: _____		U.S. Department of Veterans Affairs		Approved: Project Director SIOUX FALLS VA HEALTH CARE SYSTEM	Location SIOUX FALLS, SOUTH DAKOTA	Issue Date 02/14/2025	Checked <input type="checkbox"/>	Drawn <input type="checkbox"/>	Drawing Number IR501



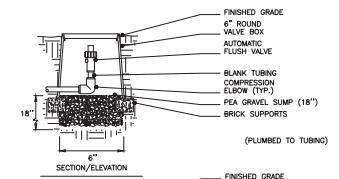
1 5/8" FITTINGS
SCALE: NONE



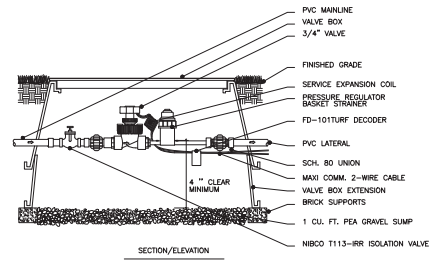
2 MANIFOLD-TO-ELBOW CONNECTION
SCALE: NONE



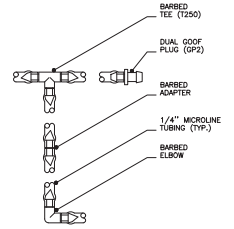
3 MANIFOLD-TO-TEE CONNECTION
SCALE: NONE



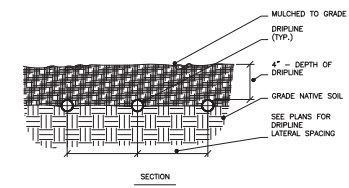
4 AUTOMATIC FLUSH VALVE
SCALE: NONE



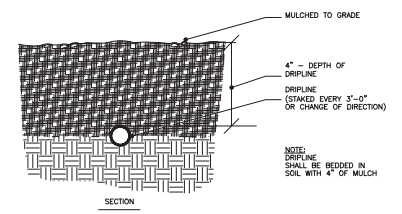
5 REMOTE CONTROL VALVE, PRESSURE REGULATOR & FILTER
SCALE: NONE



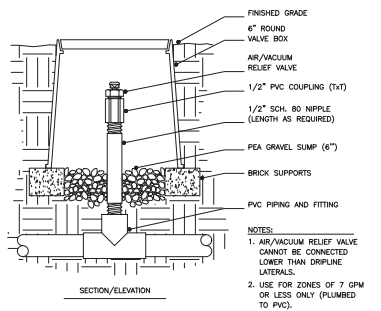
6 1/4" MICRO FITTINGS
SCALE: NONE



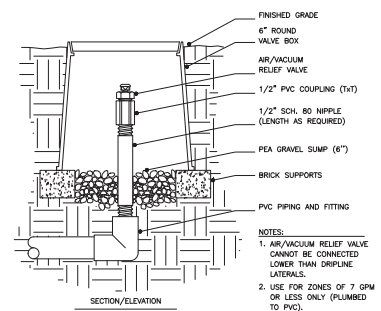
7 SUB-GRADE LAYOUT
SCALE: NONE



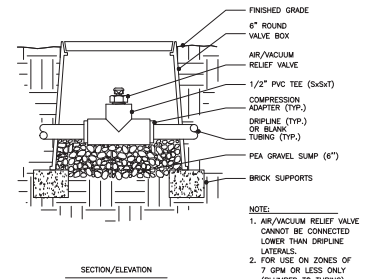
8 DRIPLINE TRENCH
SCALE: NONE



9 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE



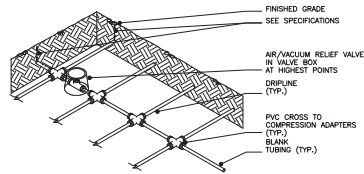
10 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE



11 1/2" AIR/VACUUM RELIEF VALVE
SCALE: NONE

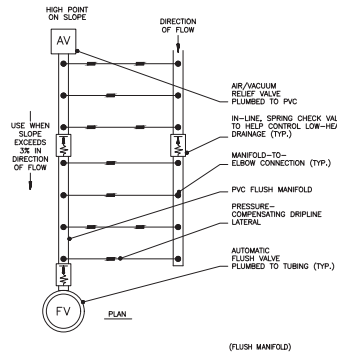
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CONSULTANTS		ARCHITECT/ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number	
						IRRIGATION DETAILS	BID DOCUMENTS	CONSTRUCT NEW SPS	438-460	
		13605 3rd Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 e@mn.com Anderson Engineering of Minnesota, LLC P#0 # 16364			Approved: Project Director	SIOUX FALLS VA HEALTH CARE SYSTEM		Location	SIoux FALLS, SOUTH DAKOTA	Building Number
							Issue Date	02/14/2025	Checked	Drawn
										Drawing Number
										IR502

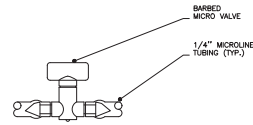


NOTES:
 1. SEE PLANS & LEGEND FOR ALL DIMENSIONS AND LATERAL SPACING.
 2. RATIO OF LATERALS TO START MAY VARY PER HYDRAULIC DEMAND AT THE START CONNECTION (SEE PLANS & LEGEND).

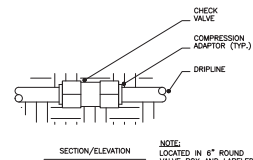
1 AIR/VACUUM RELIEF LATERAL
 SCALE: NONE



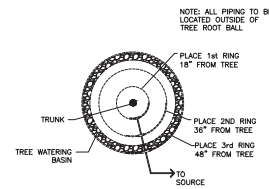
5 END-FEED LAYOUT
 SCALE: NONE



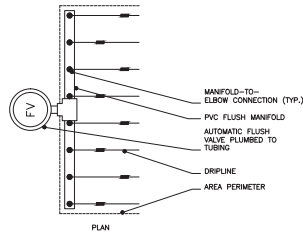
2 1/4" MICRO VALVE
 SCALE: NONE



3 CHECK VALVE
 SCALE: NONE



4 TEMPORARY TREE EMITTER LAYOUT FOR ESTABLISHMENT
 SCALE: NONE



6 CENTER-FEED LAYOUT
 SCALE: NONE

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Revisions:	Date:

CONSULTANTS

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 Anderson Engineering of Minnesota, LLC | PEO # 16354

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	Phase
IRRIGATION DETAILS	BID DOCUMENTS
Approved: Project Director	
SIoux FALLS VA HEALTH CARE SYSTEM	

Project Title	Location
CONSTRUCT NEW SPS	SIoux FALLS, SOUTH DAKOTA
Issue Date	Checked
02/14/2025	
Drawn	

Project Number	Building Number
438-460	
Drawing Number	
IR504	

GENERAL CONSTRUCTION NOTES:

- 1. Reference Specifications: Unless noted otherwise, all standards shall be current edition, with latest addenda. If applicable, 2. Contractor shall verify all dimensions, member sizes, and field conditions prior to any demolition, fabrication, construction, or installation of any Structural Engineer of Record (SEOR) materials, loads, and dimensions as different from those shown.

TEMPORARY BRACING:

- 1. Provide temporary lateral support for all walls where grade varies on the two sides until side has reached to design strength. 2. Provide temporary bracing for structural steel until permanent bracing and walls are in place.

F = 9000 PSI

Table with 4 columns: Bar Size, Case 1, Case 2, Other Bars. Rows include #3, #4, #5, #6, #7, #8, #9, #10, #11.

Notes: 1. Tables are for normal weight concrete with Grade 60 uncoated reinforcing bars. For lightweight aggregate, multiply the values in the table by 1.35.

GENERAL FOUNDATION NOTES:

- 1. All foundation excavations, basements, and compaction shall be inspected and certified by a qualified soils testing firm prior to the construction of any footing. All reports are to be submitted to Structural Engineer of Record in a timely manner.

CONCRETE SLAB AND JOINT NOTES AND DETAILS:

- 1. Control Joints (C.J.): Locate over end control joints at column centerlines and at the following maximum spacing to create approximately equal spans: a. Concrete slabs on grade: 12'-0" max. b. Control joints shall be placed at an early stage.

DESIGN CRITERIA LOADS AND STRESSES:

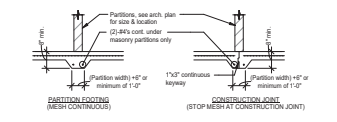
- CODES: 1. International Building Code (2018) 2. Minimum Design Loads for Buildings and Other Structures (ASCE 7-16)

DESIGN LOADS:

Table with 2 columns: Risk Category, Seismic Design Criteria. Rows include Risk Category, Seismic Importance Factor, Seismic Response, etc.

GENERAL CONCRETE NOTES:

- 1. Concrete construction shall comply with the provisions of the "Building Code Requirements for Structural Concrete." 2. The "ACI Casting Manual" shall govern detailing and fabrication of all reinforcing steel, unless noted otherwise.



STEEL DECK NOTES:

- 1. All steel decking shall comply with the specifications of the Steel Deck Institute (SDI). Thickness, type, and properties of decks shall be shown on shop drawings. 2. All steel deck spans a minimum of three spans, unless otherwise approved.

ROOF BEAM/ GIRDER BLAST REACTION TABLE

Table with 4 columns: DESCRIPTION, SPAN, END REACTION (kips, LRFD), PER MARK. Rows include W12x14 BEAM, W12x20 BEAM, W14x22 BEAM, etc.

ROOF MEMBER REACTION TABLE NOTES:

- 1. CONNECTIONS MUST BE DESIGNED FOR THE REACTION LOADS LISTED IN THE TABLE AT A MINIMUM. THESE SHOULD NOT BE COMBINED WITH OTHER LOADS (I.E., BLAST DESIGN COMB-1+BLAST).

ROOF SNOW LOAD DATA:

Table with 2 columns: Snow Load Factor, Wind Exposure Factor. Rows include Snow Load Factor, Wind Exposure Factor, etc.

FLOOR LIVE LOADS:

- 1500 PSF Mechanical/Electrical areas 100 PSF Stairs, walkways

CONCRETE: (F) = 9000 PSI

- 3000 PSF Footings 3000 PSF Slab on grade (max. wet = 0.45, for ash not permitted, no reinforcement) 4000 PSF Slab on steel deck, topsoil (slab min. wet = 0.45, for ash not permitted, no reinforcement)

STEEL: (Fy)

- 60,000 PSI AISC A572 grade 50 reinforcement 60,000 PSI AISC A572 wide-flange reinforcement

FOUNDATION LOADS:

- 2,000 PSF soil bearing, based on soil report prepared by Geotec Engineering & Testing Services, Inc. dated April 17, 2019, report # 19-021. See Geotech report for required soil parameters. Steel helical piles and micropiles shall be designed for unfactored load indicated on sheet SS102.

LATERAL EARTH PRESSURE:

- 35 PSF Active Lateral Earth Pressure (Equivalent Fluid Density)

STEEL HELICAL PILES AND MICROPILES:

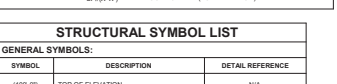
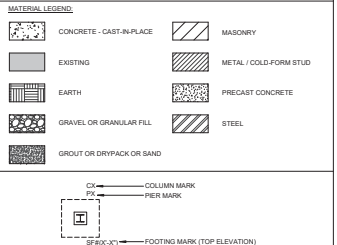
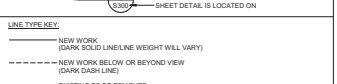
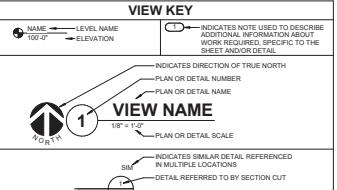
- 1. Piles shall be installed within the following tolerances: Top Elevation +/- 1/2" Plan: within 1" Pile Continuity within 3"

F = 3000 PSI

Table with 4 columns: Bar Size, Case 1, Case 2, Other Bars. Rows include #3, #4, #5, #6, #7, #8, #9, #10, #11.

F = 4000 PSI

Table with 4 columns: Bar Size, Case 1, Case 2, Other Bars. Rows include #3, #4, #5, #6, #7, #8, #9, #10, #11.



STRUCTURAL ABBREVIATION KEY

Table with 2 columns: ABBR., DESCRIPTION. Rows include #, NUMBER OR POUNDS, DIMENSION, etc.

STRUCTURAL SYMBOL LIST

Table with 3 columns: SYMBOL, DESCRIPTION, DETAIL REFERENCE. Rows include TOP OF ELEVATION, N/A.

FOUNDATION SYMBOLS:

Table with 3 columns: SYMBOL, DESCRIPTION, DETAIL REFERENCE. Rows include STEP IN FOOTING, 1/8R200.

STEEL SYMBOLS:

Table with 3 columns: SYMBOL, DESCRIPTION, DETAIL REFERENCE. Rows include STEEL DECK (DIRECTION), SEE PLAN NOTES, etc.

SHEET INDEX - STRUCTURAL

Table with 2 columns: SHEET NO., SHEET TITLE. Rows include GENERAL NOTES, TESTING SCHEDULES, etc.

CONSULTANT logo for IMEG with contact information and project details.

ARCHITECT/ENGINEER OF RECORD logo for ANDERSON with contact information and project details.

Office of Construction and Facilities Management logo with project details.

Project information table including Project Name (CONSTRUCT NEW SP), Location (Sioux Falls, SD), and other details.

STATEMENT OF SPECIAL INSPECTION:

Special Inspection and Testing requirements per Chapter 17 of the BC in addition to Section 110 of the BC (Inspection prepared by the Building Official). See Specs. for additional information.

Structural Testing & Special Inspection Program Summary Schedule table with columns: IBC Section, Material, Type of Inspection, Report Frequency.

SI-8 Special Inspects Structural SI-7 Special Inspects Technical

- 1. Agency must be approved by the Building Official or AHI. 2. Agency must be independent of the contractor responsible for work and disclose possible conflicts of interests.

1704.2.4 - SPECIAL INSPECTOR RESPONSIBILITIES

- 1. Submit inspection reports to the Building Official, Architect, Engineer of Record (EOR), and Contractor, stating the work was or was not in conformance with construction documents. 2. Discrepancies shall be brought to the immediate attention of the contractor for correction.

1704.3.3 - FABRICATION

Where fabrication of structural members and assemblies are being fabricated on the premises of a fabricator's shop, special inspection is required of the fabricated item.

Note: Where Special Inspection and Testing of Shop Fabricated Components is required, a shall conform to the Special Inspection and Testing required in the fact for the material specific section the component is fabricated from.

Exception: Special Inspection of the Fabricator's shop is not required if approved per Section 1704.2.1.2.

TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION SOILS table with columns: Verification and Inspection Task, Continuous During Task Listed, Periodically During Task Listed.

TABLE 1705.7 REQUIRED VERIFICATION AND INSPECTION OF DEEP FOUNDATION ELEMENTS table with columns: Verification and Inspection Task, Continuous During Task Listed, Periodically During Task Listed.

HELICAL & MICROPILE PILE FOUNDATIONS: table with columns: Verification and Inspection Task, Continuous, Periodic.

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION table with columns: Verification and Inspection, Continuous, Periodic, Referenced Standard (s), IBC Reference.

- 4. Where applicable, see also Section 1705.11, Special Inspections for seismic resistance. 5. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 308.2 or other available information.

Engraving: 1. Non-structural concrete slabs supported directly on the ground. 2. Concrete patios, driveways and sidewalks on grade.

In addition to the requirements below also comply w/ ASCE 305-10 Chapter N

Welding Inspection Tasks table with columns: Task, P/F, O, D.

NS.5 Non-destructive Testing (NDT) of Welds shall be performed in accordance with AWS D1.1D1.1M based on the following criteria: 1. For structures in Risk Category II or IV, Ultrasonic Testing (UT) shall be performed on all Complete Joint Penetration (CJP) groove welds for materials 5/16" thick or greater.

TABLE 1705.2.2 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL table with columns: Verification and Inspection, Continuous, Periodic, Referenced Standard (s).

(4). Where applicable, see also Section 17.05.11, Special Inspections for seismic resistance.

OPEN-WEB STEEL JOISTS table with columns: Verification and Inspection, Continuous, Periodic, IBC Reference.

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Revisions table with columns: Revisions, Date.

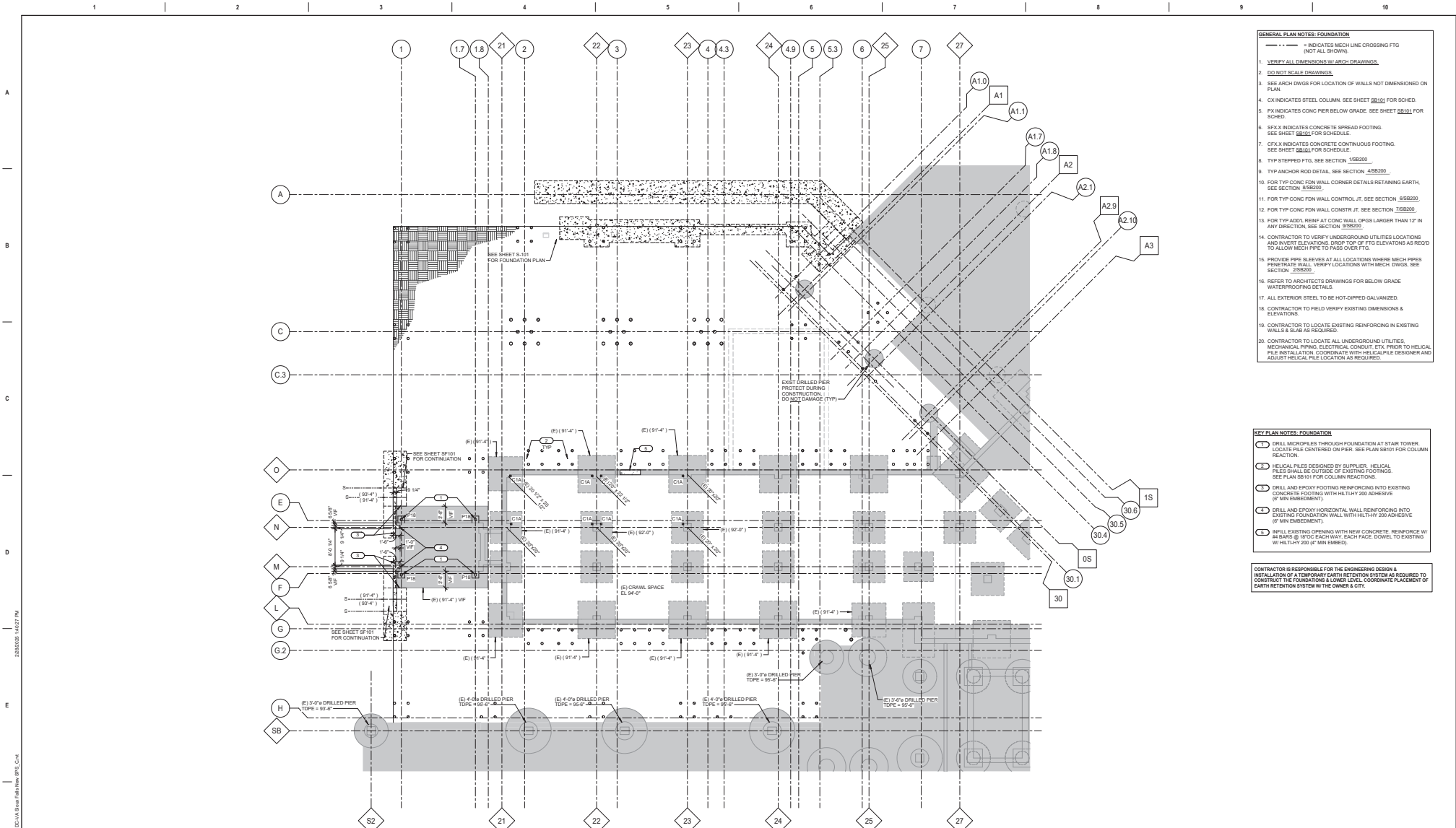
CONSULTANT IMEG logo and contact information.

ARCHITECT/ENGINEER OF RECORD ANDERSON logo and contact information.

Office of Construction and Facilities Management logo and contact information.

Drawing Title TESTING SCHEDULES and Approval section.

Phase BID DOCUMENTS, Project Title CONSTRUCT NEW SPS, Project Number 438-460, Building Number 5, Drawing Number SG001.



- GENERAL PLAN NOTES: FOUNDATION**
- = INDICATES MECH LINE CROSSING FTG (NOT ALL SHOWN).
 - 1. VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS.
 - 2. DO NOT SCALE DRAWINGS.
 - 3. SEE ARCH DWGS FOR LOCATION OF WALLS NOT DIMENSIONED ON PLAN.
 - 4. CX INDICATES STEEL COLUMN. SEE SHEET SB101 FOR SCHED.
 - 5. PX INDICATES CONC PIER BELOW GRADE. SEE SHEET SB101 FOR SCHED.
 - 6. SPX X INDICATES CONCRETE SPREAD FOOTING. SEE SHEET SB101 FOR SCHEDULE.
 - 7. CPX X INDICATES CONCRETE CONTINUOUS FOOTING. SEE SHEET SB101 FOR SCHEDULE.
 - 8. TYP STEPPED FTG. SEE SECTION 45B200.
 - 9. TYP ANCHOR ROD DETAIL. SEE SECTION 45B200.
 - 10. FOR TYP CONC FDN WALL CORNER DETAILS RETAINING EARTH. SEE SECTION 35B200.
 - 11. FOR TYP CONC FDN WALL CONTROL JT. SEE SECTION 35B200.
 - 12. FOR TYP CONC FDN WALL CONSTR JT. SEE SECTION 35B200.
 - 13. FOR TYP ADOL REINF AT CONC WALL OPNS LARGER THAN 12" IN ANY DIRECTION. SEE SECTION 35B200.
 - 14. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES LOCATIONS AND INVERT ELEVATIONS. SHIP TOP OF FTG ELEVATIONS AS REQ'D TO ALLOW MECH PIPE TO PASS OVER FTG.
 - 15. PROVIDE PIPE BEEVES AT ALL LOCATIONS WHERE MECH PIPES PENETRATE WALL. VERIFY LOCATIONS WITH MECH DWGS. SEE SECTION 35B200.
 - 16. REFER TO ARCHITECTS DRAWINGS FOR BELOW GRADE WATERPROOFING DETAILS.
 - 17. ALL EXTERIOR STEEL TO BE HOT-DIPPED GALVANIZED.
 - 18. CONTRACTOR TO FIELD VERIFY EXISTING DIMENSIONS & ELEVATIONS.
 - 19. CONTRACTOR TO LOCATE EXISTING REINFORCING IN EXISTING WALLS & SLAB AS REQUIRED.
 - 20. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES, MECHANICAL PIPING, ELECTRICAL CONDUIT, ETC. PRIOR TO HELICAL PILE INSTALLATION. COORDINATE WITH HELICAL PILE DESIGNER AND ADJUST HELICAL PILE LOCATION AS REQUIRED.

- KEY PLAN NOTES: FOUNDATION**
- DRILL MICROPILES THROUGH FOUNDATION AT STAIR TOWER. LOCATE PILE CENTERED ON PIER. SEE PLAN SB101 FOR COLUMN REACTION.
 - HELICAL PILES DESIGNED BY SUPPLIER. HELICAL PILES SHALL BE OUTSIDE OF EXISTING FOOTINGS. SEE PLAN SB101 FOR COLUMN REACTIONS.
 - DRILL AND EPOXY FOOTING REINFORCING INTO EXISTING CONCRETE FOOTING WITH HILTI-HY 200 ADHESIVE (2" MIN EMBEDMENT).
 - DRILL AND EPOXY HORIZONTAL WALL REINFORCING INTO EXISTING FOUNDATION WALL WITH HILTI-HY 200 ADHESIVE (2" MIN EMBEDMENT).
 - REINF EXISTING OPENING WITH NEW CONCRETE. REINFORCE W/ #4 BARS @ 18" OC EACH WAY. EACH FACE. DOWEL TO EXISTING W/ HILTI-HY 200 (2" MIN EMBED).

CONTRACTOR IS RESPONSIBLE FOR THE ENGINEERING DESIGN & INSTALLATION OF A TEMPORARY EARTH RETENTION SYSTEM AS REQUIRED TO CONSTRUCT THE FOUNDATION & LOWER LEVEL. COORDINATE PLACEMENT OF EARTH RETENTION SYSTEM WITH THE OWNER & CITY.

1 PARTIAL BASEMENT FOUNDATION PLAN
1/8" = 1'-0"

Revisions: _____ Date: _____	CONSULTANT IMEG CONSULTANTS 1100 S. 11th Street, Suite 100 Arlington, VA 22204 P 703.412.4080 F 703.412.4090 www.imeg.com Anderson Engineering of Record, LLC PWS # 16064	ARCHITECT/ENGINEER OF RECORD ANDERSON 1860S 3rd Ave. W. #2100 Plymouth, MN 55441 P 763.412.4080 F 763.412.4090 www.anderson-engineering.com Anderson Engineering of Record, LLC PWS # 16064	STAMP MICHAEL R. ANDERSON Professional Engineer State of Virginia	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title PARTIAL BASEMENT FOUNDATION PLAN	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460	
					Approved: _____	FULLY SPRINKLERED	Building Number 5	Drawing Number SB100	
						Location Sioux Falls, SD	Issue Date 02/14/2025	Checked MPM/TGL	Drawn MAQ

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