

LEGEND

DESCRIPTION

EXISTING

PROPOSED

LIMIT OF DEMOLITION (APPROXIMATE)		
KEYED NOTE, "X" INDICATES NUMBER		
UNDERGROUND WATER	— W —	— W —
UNDERGROUND SANITARY SEWER	— S —	— S —
UNDERGROUND STEAM	— ST —	— ST —
UNDERGROUND COMMUNICATION	— C —	— C —
UNDERGROUND ELECTRIC	— E —	— E —
UNDERGROUND GAS	— G —	— G —
UNDERGROUND FUEL		— FUEL —
OVERHEAD POWER	— OH —	
STORMWATER PIPE	— D —	— D —
CATCH BASIN		
STORMWATER MANHOLE		
STEAM MANHOLE		
SANITARY MANHOLE		
YARD DRAIN		
ELECTRIC MANHOLE		
ELECTRIC HANDHOLE		
GATE VALVE		
POST INDICATOR VALVE		
FIRE HYDRANT		
CONTOUR	— 1497 —	— 1493 —
SPOT ELEVATION	x 1498.6	x 1493
INDEX CONTOUR	— 1499 —	— 1499 —
INTERMEDIATE CONTOUR	— 1497 —	— 1497 —
LIGHT POLE		
FENCE		
GUARDRAIL		
SIGNS		
ROOF DRAIN		
TREE LINE AND SINGLE TREE		
COMPOST SOCK		
PARKING STALLS		
VENT		
PUMP		

ABBREVIATIONS

AC	AIR CONDITIONING UNITS
BC	BOTTOM CURB
BIT	BITUMINOUS
BOW	BOTTOM OF WALKWAY
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CJ	CONTROL JOINT
CO	CLEAN OUT
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CPP	CONCRETE PRESSURE PIPE
DMH	DRAIN MANHOLE
ELEV	ELEVATION
EJ	EXPANSION JOINT
EOP	EDGE OF PAVEMENT
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH PRESSURE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING EQUIPMENT
I.D.	INSIDE DIAMETER
INV.	PIPE INVERT
L	LENGTH
LP	LOW PRESSURE
LSA	LANDSCAPED AREA
MIN	MINIMUM
O.P.	ON CENTER
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
(R)	RECORD INFORMATION
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RFI	REQUEST FOR INFORMATION
S	PIPE SLOPE
SMH	SEWER MANHOLE
TC	TOP CURB
T.G.	TOP GRATE
TYP	TYPICAL
VA	VETERANS AFFAIRS
VGC	VERTICAL GRANITE CURB
V.I.F.	VERIFY IN FIELD
WWF	WELDED WIRE FABRIC
W/	WITH
YD	YARD DRAIN
Ø	DIAMETER

GENERAL NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT DISCREPANCIES VIA THE REQUEST FOR INFORMATION (RFI) PROCESS. THE CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY DETAIL AND CONDITION. CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT BASED ON ALL THE INFORMATION PROVIDED AND INFORMATION OBTAINED DURING A THOROUGH SITE VISIT PRIOR TO SUBMISSION OF BID.
- CARE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS APPROVED BY THE COR AT NO ADDITIONAL COST TO THE VA.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AS REQUIRED TO CONTROL DUST AND NOT DISRUPT BASE OPERATIONS.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT CONSTRUCTION AND FINISHES THAT ARE TO REMAIN.
- THE CONTRACTOR SHALL PROVIDE BARRICADES AT ALL WORK AREAS TO PREVENT UNAUTHORIZED PERSONNEL FROM ENTERING AREAS OF WORK.
- ALL DIMENSIONS ARE IN DECIMAL FEET UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COORDINATE THE TIMING AND SEQUENCE OF THE WORK WITH THE COR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS, UNLESS NOTED OTHERWISE.
- COORDINATE CLEANING OF THE WORK AREA WITH ALL APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- EXECUTE WORK IN A CAREFUL AND ORDERLY MANNER WITH LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OTHER OCCUPANTS OF THE FACILITY.
- "PROVIDE" MEANS FURNISH AND INSTALL.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR AND ALL TRADES SHALL NOTE REQUIREMENTS OF GENERAL NOTES HERE AS WELL AS NOTES ON ALL OTHER SHEETS.
- REFER TO ALL CONSTRUCTION DOCUMENTS FOR REQUIREMENTS WHICH MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS NOTED OTHERWISE) AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE, CITY, AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS. ANY DISCREPANCIES OR INCONSISTENCIES BETWEEN THE CODE AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE COR PRIOR TO PROCEEDING WITH ANY ASSOCIATED WORK.
- WHERE DRAWINGS DO NOT ADDRESS INSTALLATION METHODOLOGY, THE CONTRACTOR SHALL BE BOUND TO PERFORM IN STRICT COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS, AND INDUSTRY STANDARDS.
- UTILITY INTERRUPTIONS SHALL BE SCHEDULED 10-WORKING DAYS BEFORE DATE OF INTERRUPTION. COORDINATE WITH COR.
- CONTRACTOR SHALL NOT OPERATE GAS OR DIESEL EQUIPMENT WITHIN 75 FEET OF BUILDING AIR INTAKES.
- CONTRACTOR SHALL COMPLY WITH BID DOCUMENTS FOR ALL EROSION CONTROL AND SITE SAFETY REQUIREMENTS.
- A CERTIFIED SWPPP INSPECTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL INSPECTIONS THROUGHOUT CONSTRUCTION ACTIVITIES.

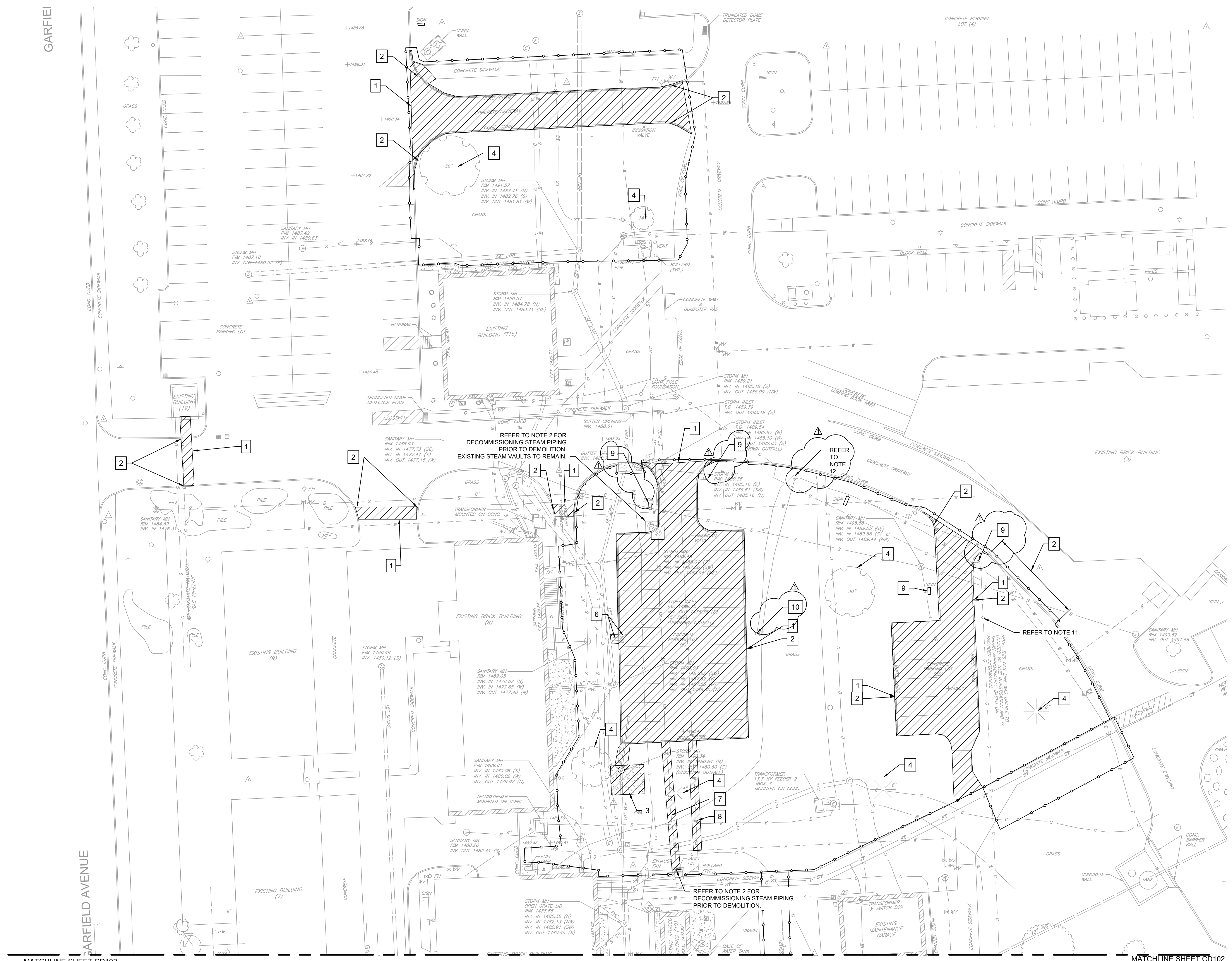
SURVEY AND UTILITY NOTES

- HORIZONTAL DATUM: NAD83 (2011) EPOCH: 2010.0000 SOUTH DAKOTA SOUTH ZONE GRID.
- VERTICAL DATUM: NAVD88 (GEOID18)
- UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS SURVEY ARE THE RESULT OF QUALITY LEVEL B SUBSURFACE UTILITY ENGINEERING BY SUMMIT ENVIRONMENTAL SERVICES IN DECEMBER 2022, AND FROM INFORMATION PROVIDED BY OTHERS, ALONG WITH FIELD OBSERVATION AND LOCATION OF UNDERGROUND UTILITY EVIDENCE.
- CONTOURS ARE SHOWN AT 1 FOOT INTERVALS FROM REMOTE SENSING SURVEY BY T3 GLOBAL STRATEGIES AND SUPPLEMENTED BY FIELD SURVEY LOCATIONS PERFORMED BY HONOR ENGINEER CO. IN DECEMBER 2022 WITH ADDITIONAL SURVEY PROVIDED IN MARCH 2024.
- AREAS SHOWN UNDER CONSTRUCTION ARE SUBJECT TO CHANGES DUE TO ON-GOING EARTH MOVING ACTIVITIES AND CONSTRUCTION IMPROVEMENTS. CONTOURS, FEATURES AND UTILITIES SHOWN IN THESE AREAS SHOULD BE FIELD VERIFIED PRIOR TO ANY DESIGN ACTIVITY.
- ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE A COMPILATION OF ACTUAL FIELD LOCATIONS AND DATA FURNISHED FROM INFORMATION SUPPLIED BY OTHERS. HONOR ENGINEER COMPANY ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND UTILITIES AS DEPICTED ON THIS DRAWING. ANY REQUESTS FOR ADDITIONAL UNDERGROUND UTILITY INFORMATION SHOULD BE DIRECTED TO THAT RESPECTIVE UTILITY COMPANY.
- SOUTH DAKOTA 811 LOCATE REQUEST TICKET NUMBER: #2233123760 - VAMC-SIOUX FALLS AND #2407425961 - VAMC-SIOUX FALLS.
- THE APPROXIMATE UTILITY LINES AS DEPICTED IN DASHED GRAY SCALE LINE TYPES ON CS101 AND CS102 ARE SHOWN BASED ON INFORMATION PROVIDED BY THE VAMC. THESE LINES WERE UNABLE TO BE LOCATED VIA SUE INVESTIGATION. HONOR ENGINEER CO. ASSUMES NO RESPONSIBILITY FOR THE EXACT LOCATION OR EXISTENCE OF THESE LINES. CHANGES TO UTILITIES AFTER THE DATE OF SUE INVESTIGATION (12-01-2022 THRU 12-03-2022 FOR THE PRIMARY SURVEY LIMITS AND 03-19-2024 FOR THE ADDITIONAL SUPPLEMENTAL SURVEY LIMITS) MAY HAVE OCCURRED AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

1 CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES

Scale: NTS

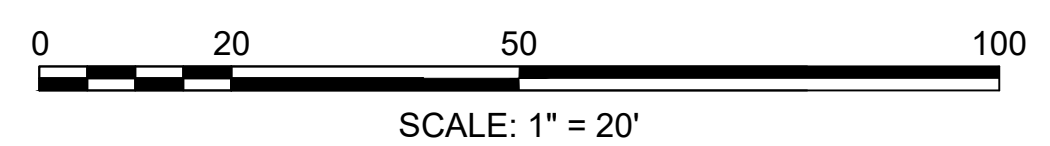
Revisions: ADDENDUM 2 (NO CHANGES TO THIS SHEET) 09-12-2024 ADDENDUM 1 (NO CHANGES TO THIS SHEET) 08-09-2024	CONSULTANT Mabbett [®] Scientists Engineers Program Managers Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T. 781-275-6050 www.mabbett.com	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES	Phase 100% CONSTRUCTION DOCUMENT SUBMISSION	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
					Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12



- ### NOTES
- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL (PL101, PL201), AND ELECTRICAL (ED101) DEMOLITION DRAWINGS.
 - REMOVE AND DISPOSE OF PAVEMENT TO THE LIMITS REQUIRED FOR THE INSTALLATION OF NEW WORK.
 - ALL PAVEMENT SHALL BE SAWCUT TO ALLOW THE BACKFILL TO BE COMPACTED AND PAVEMENT PATCHED AS PER THE SPECIFICATIONS AND SITE DETAILS.
 - REMOVE AND DISPOSE OF CONCRETE SIDEWALKS TO THE LIMITS REQUIRED FOR NEW WORK.
 - PROTECT TREES TO REMAIN WITHIN THE LIMIT OF WORK UNLESS NOTED OTHERWISE.
 - PROTECT EXISTING UTILITIES IN PLACE. IF CONFLICT SUBMIT RFI TO VA COR TO DETERMINE AN ALTERNATE SOLUTION.
 - SOIL MAY BE STOCKPILED FOR FUTURE RE-USE AS BACKFILL ONLY. SURPLUS SOIL SHALL BE REMOVED AND DISPOSED.
 - REMOVE AND DISPOSE OF TOPSOIL.
 - REPAIR AFFECTED UTILITIES TO ALLOW FOR CONTINUED USE.
 - RELOCATE NATURAL GAS PIPELINE PRIOR TO EXCAVATING FOR UNDERGROUND TANKS.
 - PROTECT FIXTURES (I.E. EXISTING LIGHT POLES, FIRE HYDRANTS, AND SIGNS) TO REMAIN IN PLACE WITHIN THE LIMIT OF WORK UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF FIXTURES SHOULD THEY BE DAMAGED DURING CONSTRUCTION.

- ### KEY NOTES
- REMOVE AND DISPOSE OF CONCRETE PAVEMENT.
 - REMOVE AND DISPOSE OF CURB.
 - REMOVE AND DISPOSE OF CONCRETE PAD.
 - REMOVE AND DISPOSE OF TREE.
 - NOT USED ON THIS SHEET.
 - REMOVE AND DISPOSE STORM INLET AND PIPING. SEE NOTE 10.
 - REMOVE AND DISPOSE STEAM PIPELINE. SEE NOTE 10.
 - REMOVE AND DISPOSE WATER PIPELINE. SEE NOTE 10.
 - REMOVE SIGN AND RETURN TO OWNER.
 - REMOVE PARKING LOT LIGHTS AND RETURN TO OWNER.

1 CIVIL EXISTING CONDITIONS/DEMOLITION PLAN
Scale: 1" = 20'



ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1	08-09-2024
Revisions:	Date:

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ROBERT B. BLANCHETTE, JR.
CIVIL
No. 48371

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

CIVIL EXISTING CONDITIONS/DEMOLITION PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title

SIoux FALLS BOILER PLANT

Location

VAMC-SIoux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date

08-09-2024

Project Number

438-22-900

Building Number

12

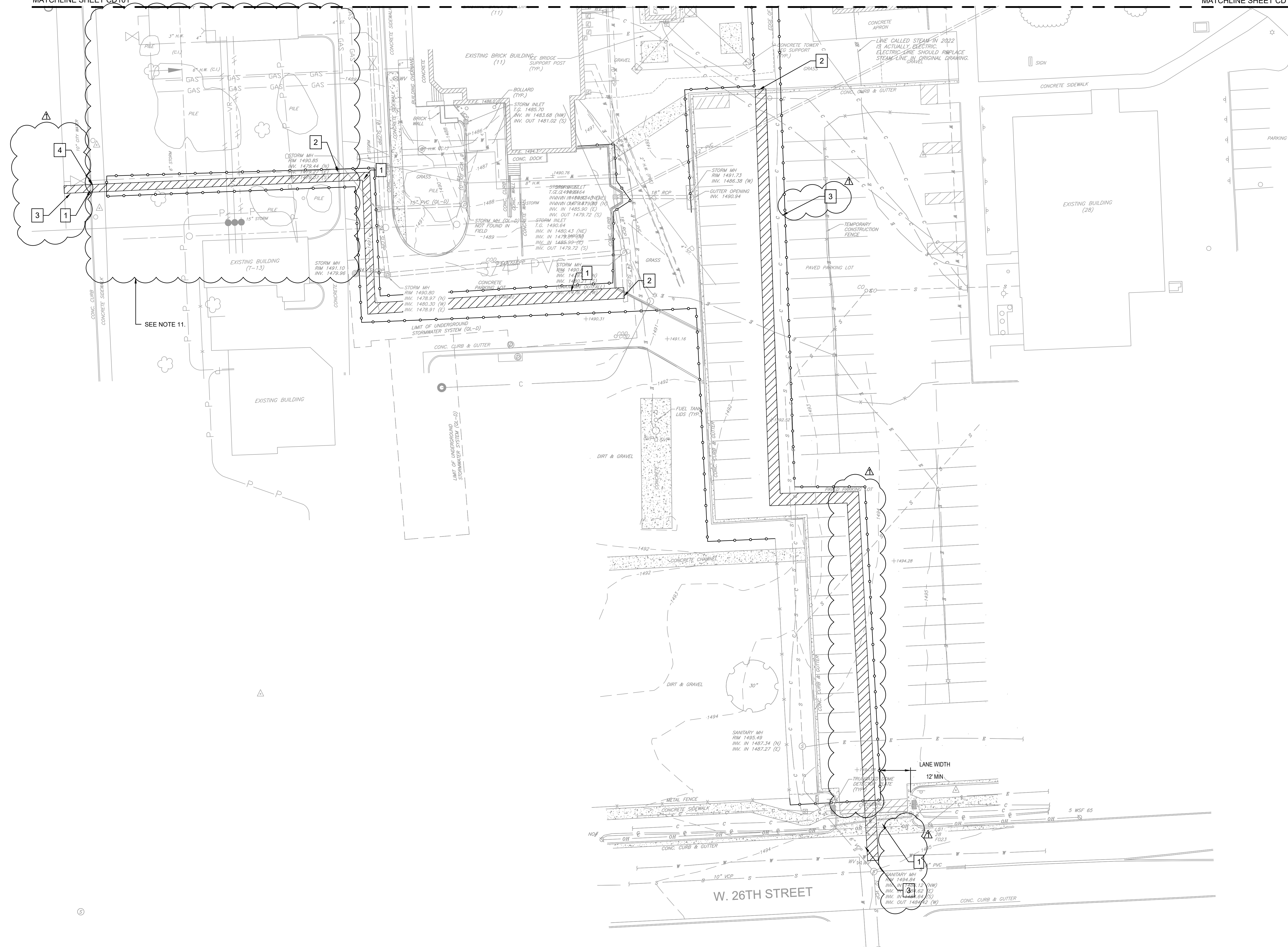
Drawing Number

CD101

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MATCHLINE SHEET CD101

MATCHLINE SHEET CD101



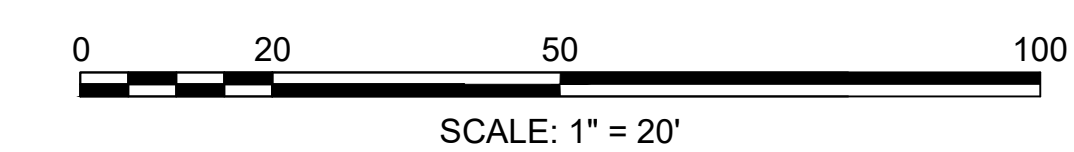
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5. REMOVE AND DISPOSE OF CONCRETE SIDEWALKS TO THE LIMITS REQUIRED FOR NEW WORK.
6. PROTECT TREES IN THE VICINITY OF THE LIMITS OF WORK UNLESS NOTED OTHERWISE.
7. PROTECT EXISTING UTILITIES IN PLACE. IF CONFLICT SUBMIT RFI TO VA COR TO DETERMINE AN ALTERNATE SOLUTION.
8. SOIL MAY BE STOCKPILED FOR FUTURE RE-USE AS BACKFILL ONLY. SURPLUS SOIL SHALL BE REMOVED AND DISPOSED.
9. REMOVE AND DISPOSE OF TOPSOIL.
10. CONTRACTOR SHALL COMPLY WITH CITY OF SIOUX FALLS DEPARTMENT OF PUBLIC WORKS STREET OPENING AND SERVICE CONNECTION REQUIREMENTS.
11. UTILITY LOCATIONS WITHIN THIS LOCATION ARE APPROXIMATE FROM VA PROVIDED REFERENCE DOCUMENTS. CONTRACTOR TO VERIFY ALL UTILITIES IN FIELD.
12. PROTECT FIXTURES (I.E. EXISTING LIGHT POLES, FIRE HYDRANTS, AND SIGNS) TO REMAIN IN PLACE WITHIN THE LIMIT OF WORK UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF FIXTURES SHOULD THEY BE DAMAGED DURING CONSTRUCTION.

KEY NOTES

- 1 REMOVE AND DISPOSE OF CONCRETE PAVEMENT.
- 2 REMOVE AND DISPOSE OF CURB.
- 3 REMOVE AND DISPOSE OF ASPHALT PAVEMENT.
- 4 REMOVE AND DISPOSE SIDEWALK.

2 CIVIL EXISTING CONDITIONS/DEMOLITION PLAN
 Scale: 1" = 20'



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ROBERT B. BLANCHETTE, JR.
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 No. 48371
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 STATE OF MISSOURI

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
CIVIL EXISTING CONDITIONS/DEMOLITION PLAN

Approved: Project Director

Phase
 100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title
 SIOUX FALLS BOILER PLANT

Location
 VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date
 08-09-2024

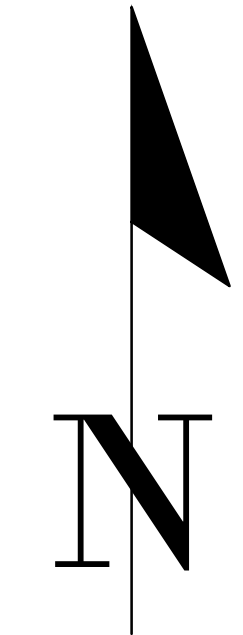
Checked
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Drawn
 EG

Project Number
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Building Number
 12

Drawing Number
CD102
 3 OF 17



NOTES

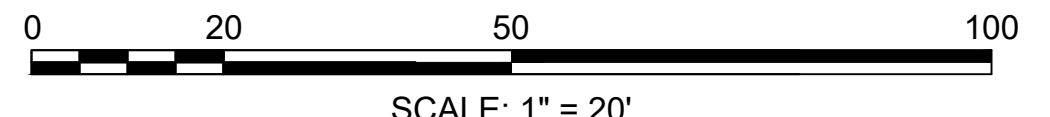
- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- FURNISH AND INSTALL TOPSOIL AND SOD OVER DISTURBED LAWN AREAS.
- FURNISH AND INSTALL PAVEMENT TO THE LIMITS OF THE SAW CUT OR AS NEEDED.
- REFER TO MECHANICAL PLANS FOR FUEL PIPING LAYOUT AND SPECIFICATIONS
- MECHANICAL SUBCONTRACTOR TO INSTALL FUEL OIL REMOTE ALARM AND ANNUNCIATOR AT FILL STATION. REFER TO PROJECT SPECIFICATIONS 23 10 10.
- UNDERGROUND STORAGE TANKS TO BE LOCATED AT MINIMUM 8.5-FEET FROM NORMAL PATH OF TRAVEL IN ACCORDANCE WITH PSRDM SECTION 7.2.5.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING, COMPLETING, AND SUBMITTING APPLICABLE PERMITS AS WELL AS OBTAINING APPROVAL BY THE STATE OF SOUTH DAKOTA PRIOR TO THE EXCAVATION AND INSTALLATION OF TANKS. ALL TANKS ARE TO BE INSTALLED PER STATE OF SOUTH DAKOTA REQUIREMENTS.

KEY NOTES

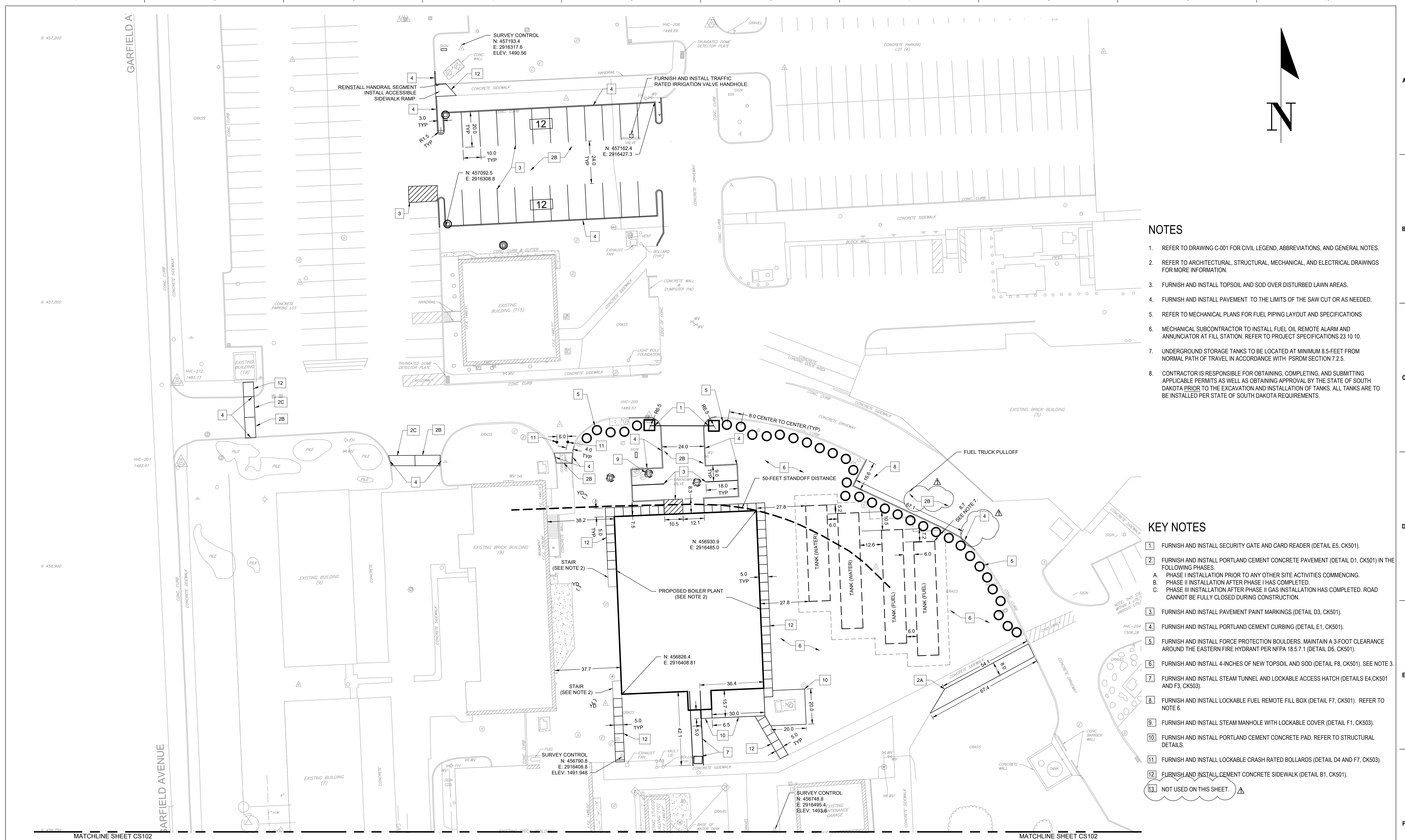
- FURNISH AND INSTALL SECURITY GATE AND CARD READER (DETAIL E5, CK501).
- FURNISH AND INSTALL PORTLAND CEMENT CONCRETE PAVEMENT (DETAIL D1, CK501) IN THE FOLLOWING PHASES.
A. PHASE I INSTALLATION PRIOR TO ANY OTHER SITE ACTIVITIES COMMENCING.
B. PHASE II INSTALLATION AFTER PHASE I HAS COMPLETED.
C. PHASE III INSTALLATION AFTER PHASE II GAS INSTALLATION HAS COMPLETED. ROAD CANNOT BE FULLY CLOSED DURING CONSTRUCTION.
- FURNISH AND INSTALL PAVEMENT PAINT MARKINGS (DETAIL D3, CK501).
- FURNISH AND INSTALL PORTLAND CEMENT CURBING (DETAIL E1, CK501).
- FURNISH AND INSTALL FORCE PROTECTION BOULDERS. MAINTAIN A 3-FOOT CLEARANCE AROUND THE EASTERN FIRE HYDRANT PER NFPA 18.5.7.1 (DETAIL D5, CK501).
- FURNISH AND INSTALL 4-INCHES OF NEW TOPSOIL AND SOD (DETAIL F8, CK501). SEE NOTE 3.
- FURNISH AND INSTALL STEAM TUNNEL AND LOCKABLE ACCESS HATCH (DETAILS E4 CK501 AND F3, CK503).
- FURNISH AND INSTALL LOCKABLE FUEL REMOTE FILL BOX (DETAIL F7, CK501). REFER TO NOTE 6.
- FURNISH AND INSTALL STEAM MANHOLE WITH LOCKABLE COVER (DETAIL F1, CK503).
- FURNISH AND INSTALL PORTLAND CEMENT CONCRETE PAD. REFER TO STRUCTURAL DETAILS.
- FURNISH AND INSTALL LOCKABLE CRASH RATED BOLLARDS (DETAIL D4 AND F7, CK503).
- FURNISH AND INSTALL CEMENT CONCRETE SIDEWALK (DETAIL B1, CK501).
- NOT USED ON THIS SHEET.

1 CIVIL SITE PLAN

Scale: 1" = 20'



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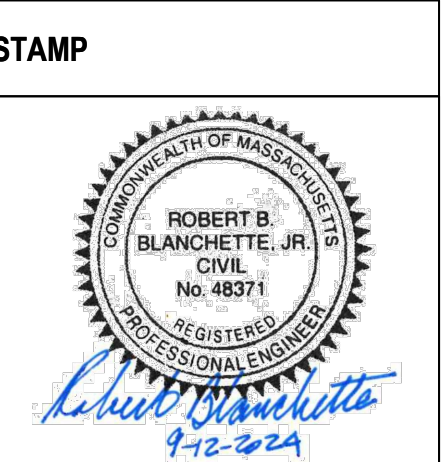
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Drawing Title	CIVIL SITE PLAN
Approved: Project Director	

Phase	100% CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED	

Project Title	SIoux FALLS BOILER PLANT
Location	VAMC-SIoux Falls: 2501 W 22nd St, Sioux Falls, SD 57105
Issue Date	08-09-2024
Checked	RBB
Drawn	EG

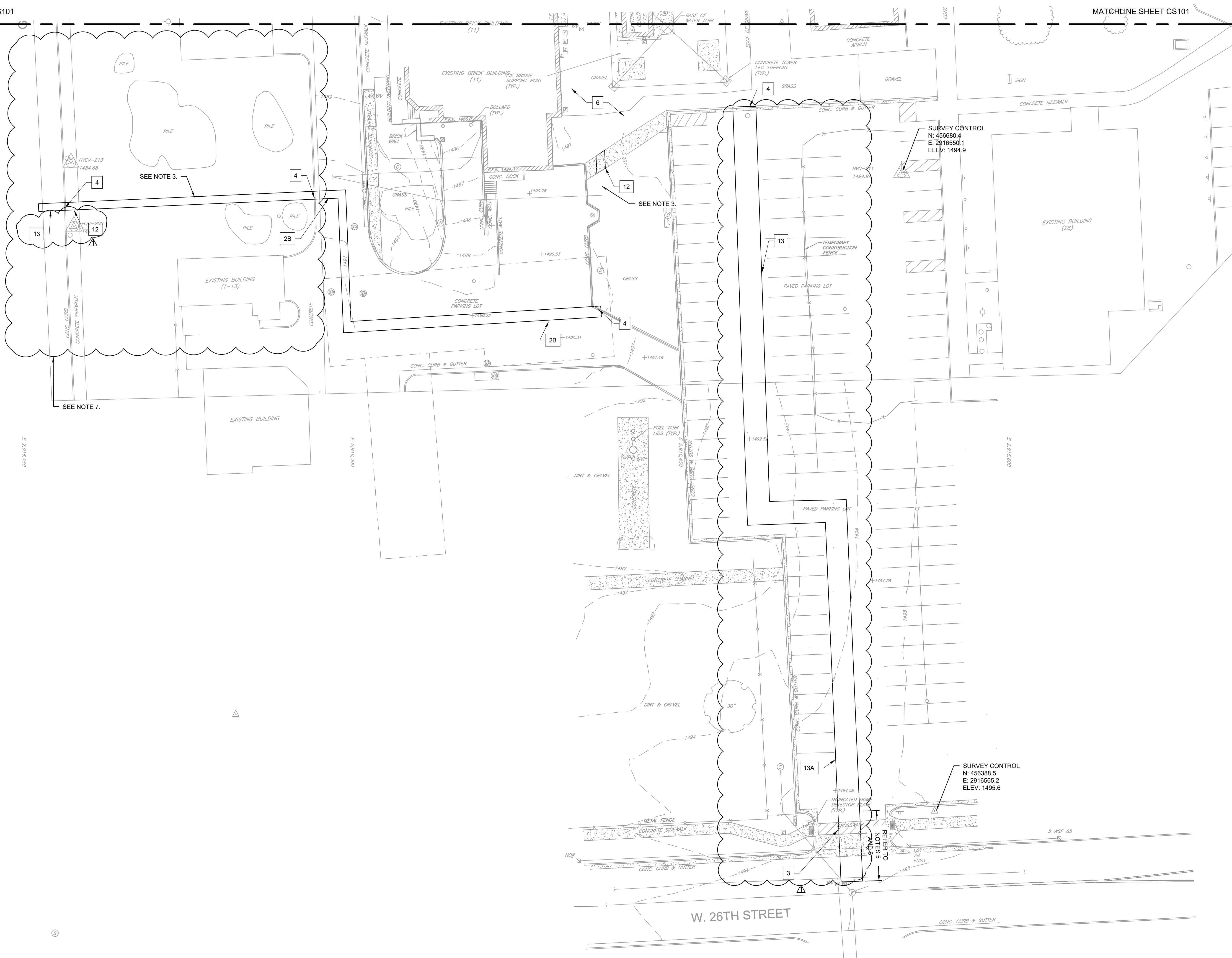
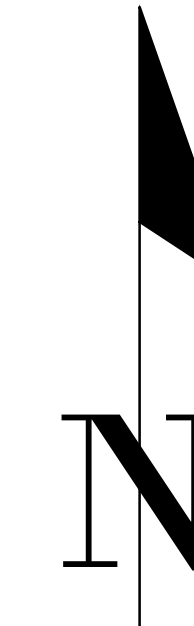
Project Number	438-22-900
Building Number	12
Drawing Number	CS101
	4 OF 17

MATCHLINE SHEET CS101

MATCHLINE SHEET CS101

A
B
C
D
E
F

A
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D
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F



NOTES

1. REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. FURNISH AND INSTALL TOPSOIL AND SOD OR GRAVEL AS APPLICABLE OVER DISTURBED AREAS.
4. FURNISH AND INSTALL PAVEMENT TO THE LIMITS OF THE SAW CUT OR AS NEEDED.
5. CONTRACTOR SHALL REPAIR PAVEMENT, SIDEWALKS, AND PAVEMENT PAINT MARKING WITHIN THE PUBLIC RIGHT OF WAY IN ACCORDANCE WITH CITY OF SIOUX FALLS REGULATIONS.
6. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH CITY OF SIOUX FALLS REGULATIONS DURING WORK WITHIN THE PUBLIC RIGHT OF WAY.
7. UTILITY LOCATIONS WITHIN THIS LOCATION ARE APPROXIMATE FROM VA PROVIDED REFERENCE DOCUMENTS. CONTRACTOR TO VERIFY ALL UTILITIES IN FIELD.

KEY NOTES

- 1. NOT USED THIS SHEET.
- 2. FURNISH AND INSTALL PORTLAND CEMENT CONCRETE PAVEMENT (DETAIL D1, CK501) IN THE FOLLOWING PHASES:
 - A. NOT USED ON THIS SHEET.
 - B. PHASE II INSTALLATION AFTER PHASE I HAS COMPLETED.
 - C. PHASE III INSTALLATION AFTER PHASE II GAS INSTALLATION HAS COMPLETED. ROAD CANNOT BE FULLY CLOSED DURING CONSTRUCTION.
- 3. FURNISH AND INSTALL PAVEMENT PAINT MARKINGS (DETAIL D3, CK501).
- 4. FURNISH AND INSTALL PORTLAND CEMENT CURBING (DETAIL E1, CK501).
- 5. NOT USED THIS SHEET.
- 6. FURNISH AND INSTALL 4-INCHES OF NEW TOPSOIL AND SOD (DETAIL F8, CK501). SEE NOTE 3.
- 7. NOT USED THIS SHEET.
- 8. NOT USED THIS SHEET.
- 9. NOT USED THIS SHEET.
- 10. NOT USED THIS SHEET.
- 11. NOT USED THIS SHEET.
- 12. FURNISH AND INSTALL CEMENT CONCRETE SIDEWALK. (DETAIL B1, CK501).
- 13. FURNISH AND INSTALL ASPHALT PAVEMENT.
 - A. PHASE I INSTALLATION PRIOR TO ANY OTHER INSTALLATION ACTIVITIES COMMENCING.



SCALE: 1" = 20'

2 CIVIL SITE PLAN
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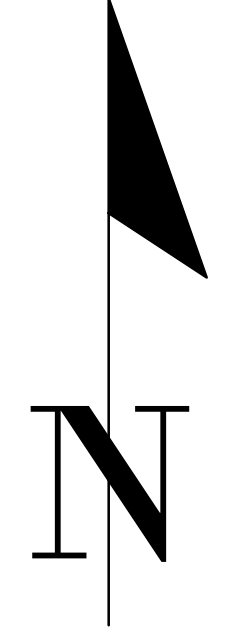
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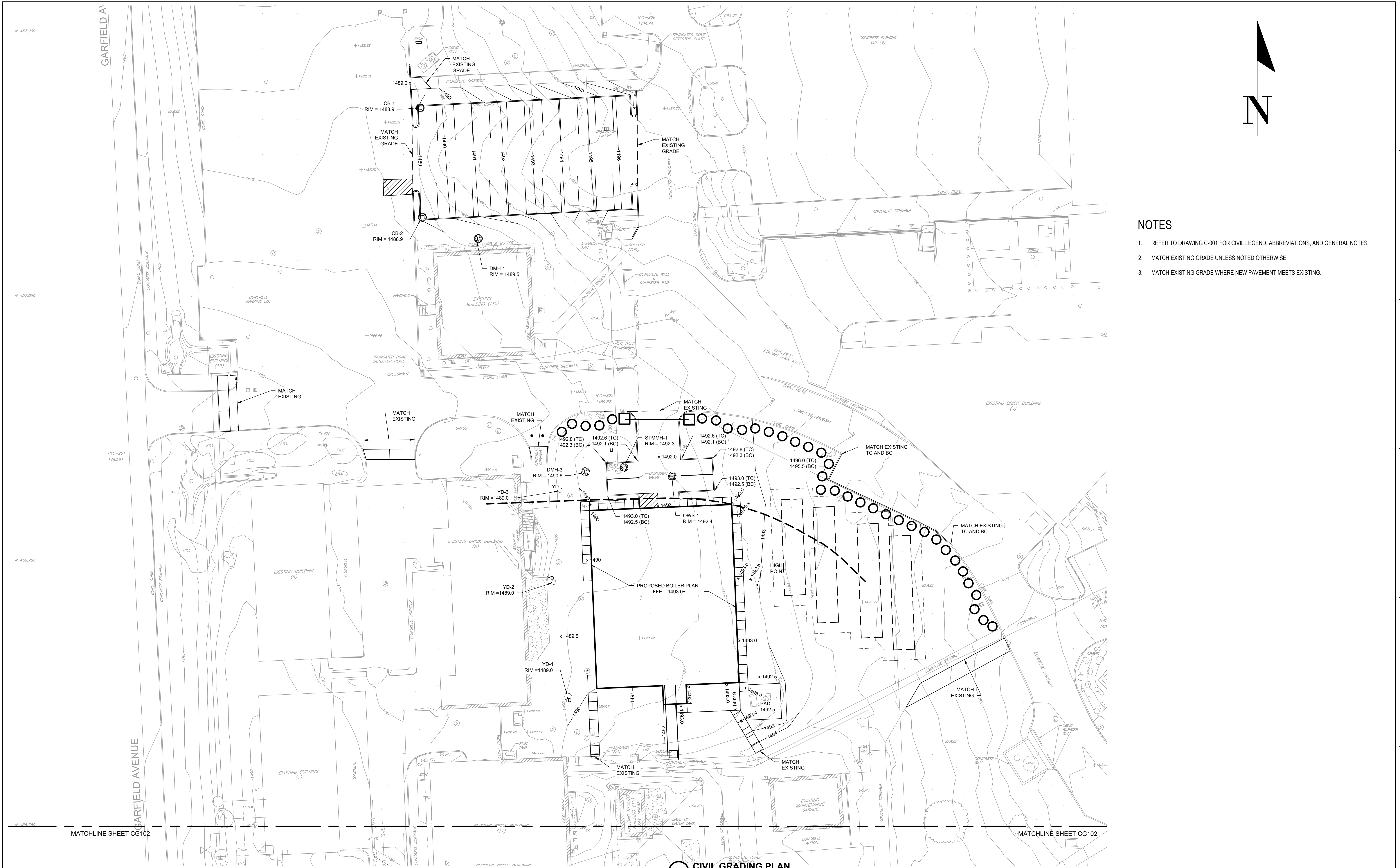
Building Number
12

Drawing Number
CS102
5 OF 17

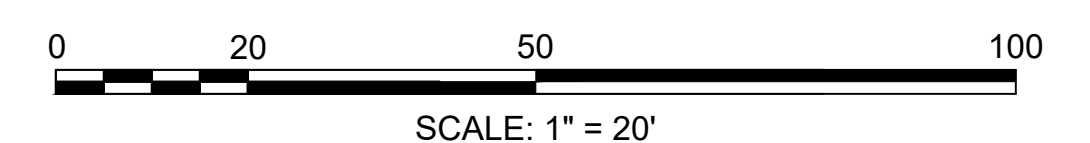


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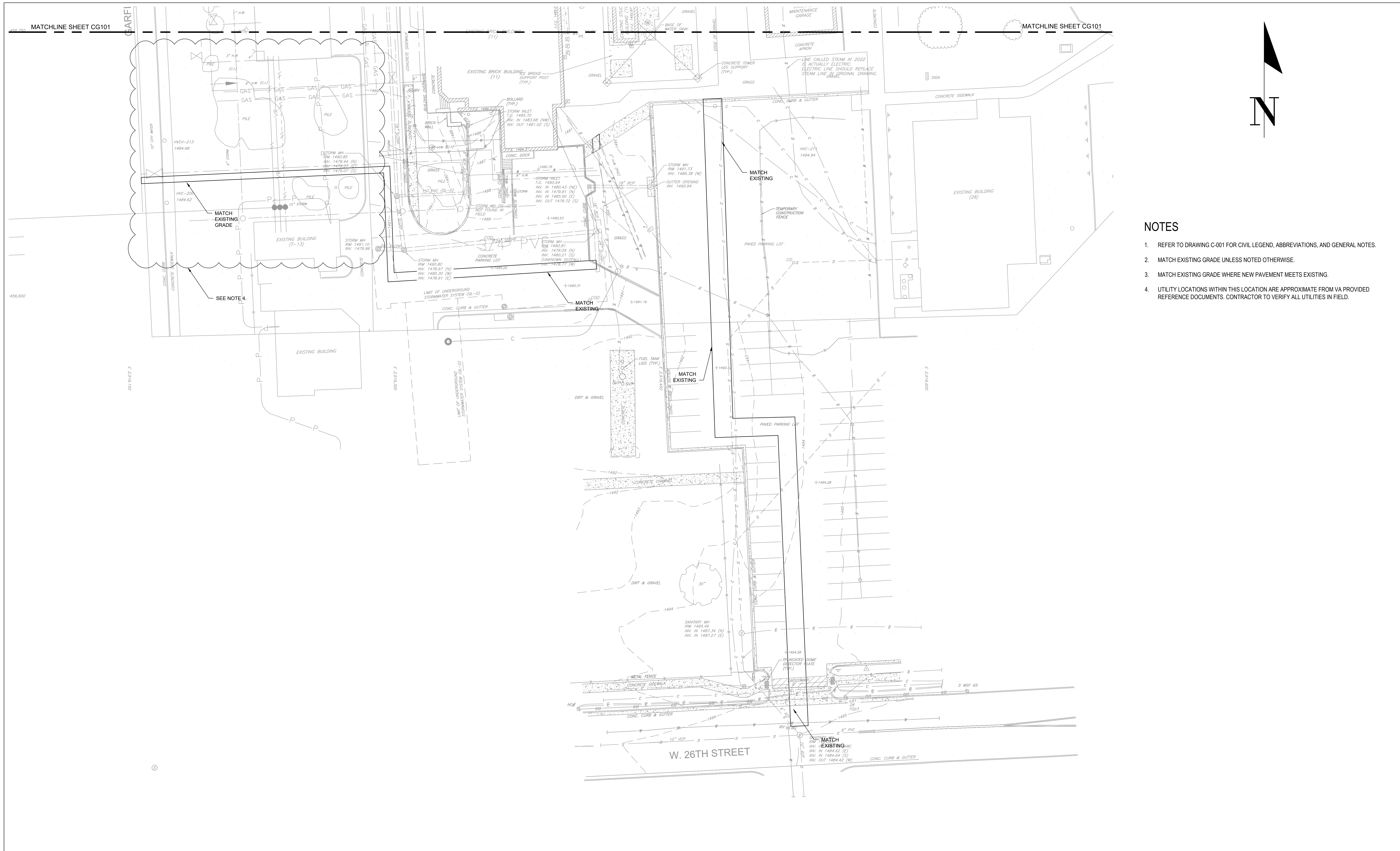
- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- MATCH EXISTING GRADE UNLESS NOTED OTHERWISE.
- MATCH EXISTING GRADE WHERE NEW PAVEMENT MEETS EXISTING.



1 CIVIL GRADING PLAN
 Scale: 1" = 20'



Revisions: ADDENDUM 1 (NO CHANGES TO THIS SHEET) 09-12-2024 ADDENDUM 2 (NO CHANGES TO THIS SHEET) 08-09-2024 Date:	CONSULTANT Mabbett® <small>Scientists Engineers Program Managers</small> <small>Mabbett & Associates, Inc.</small> <small>105 Central Street Stoneham, MA 02180-1248</small> <small>T. 781-275-6050</small> <small>www.mabbett.com</small>	ARCHITECT/ENGINEER OF RECORD paradigm <small>Architecture Engineering Design-Build</small> <small>200 Envoy Circle, Suite 201, Louisville, KY 40299</small> <small>www.paradigmusa.com</small>	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title CIVIL GRADING PLAN Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENT SUBMISSION	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900 Building Number 12 Drawing Number CG101 6 OF 17
	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105 Issue Date 08-09-2024 Checked RBB Drawn EG						

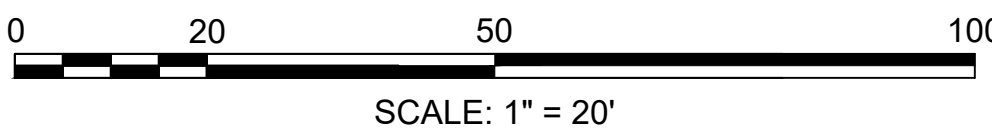


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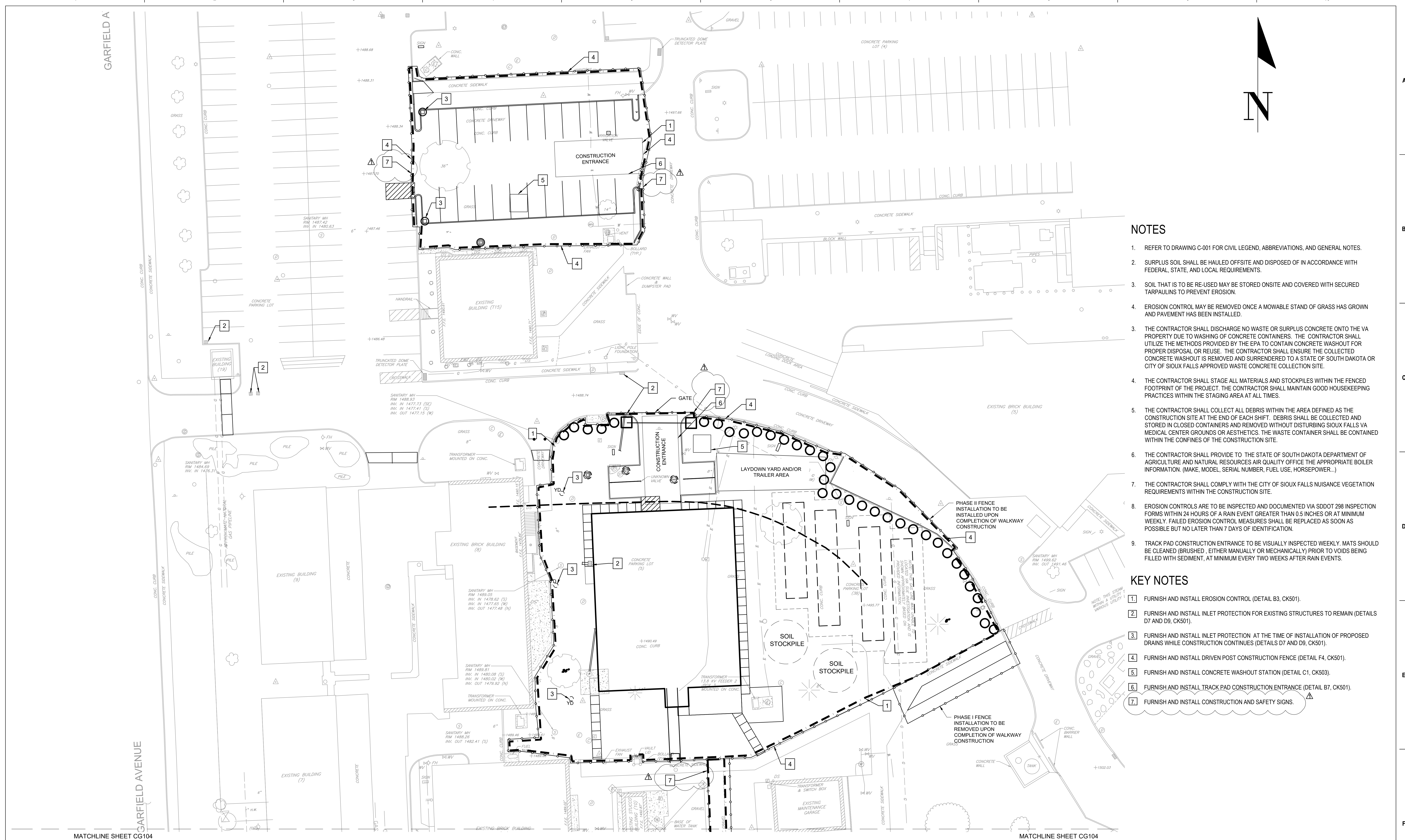
1. REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. MATCH EXISTING GRADE UNLESS NOTED OTHERWISE.
3. MATCH EXISTING GRADE WHERE NEW PAVEMENT MEETS EXISTING.
4. UTILITY LOCATIONS WITHIN THIS LOCATION ARE APPROXIMATE FROM VA PROVIDED REFERENCE DOCUMENTS. CONTRACTOR TO VERIFY ALL UTILITIES IN FIELD.

2 CIVIL GRADING PLAN

Scale: 1" = 20'



	<p>CONSULTANT</p> <p>Mabbett[®]</p> <p>Scientists Engineers Program Managers Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T. 781-275-6050 www.mabbett.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>paradigm</p> <p>Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title</p> <p style="text-align: center;">CIVIL GRADING PLAN</p> <p>Approved: Project Director</p>	<p>Phase</p> <p>100% CONSTRUCTION DOCUMENT SUBMISSION</p>	<p>Project Title</p> <p>SIoux FALLS BOILER PLANT</p>	<p>Project Number</p> <p>438-22-900</p> <p>Building Number</p> <p>12</p> <p>Drawing Number</p> <p>CG102</p> <p>7 OF 17</p>					
<p>Revisions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">ADDENDUM 2 (NO CHANGES TO THIS SHEET)</td> <td style="width: 20%;">09-12-2024</td> </tr> <tr> <td>ADDENDUM 1 (NO CHANGES TO THIS SHEET)</td> <td>08-09-2024</td> </tr> </table>	ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024	ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024						<p>Location</p> <p>VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105</p>	<p>Issue Date</p> <p>08-09-2024</p>	<p>Checked</p> <p>RBB</p>	<p>Drawn</p> <p>EG</p>
ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024												
ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024												



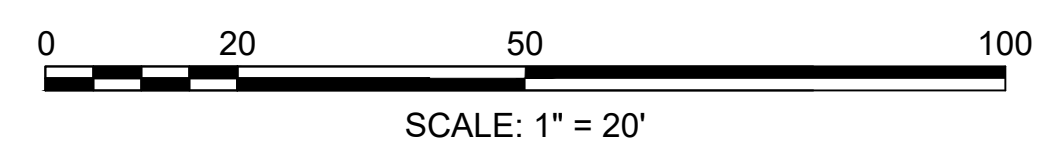
NOTES

- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- SURPLUS SOIL SHALL BE HAULED OFFSITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- SOIL THAT IS TO BE RE-USED MAY BE STORED ONSITE AND COVERED WITH SECURED TARPULINS TO PREVENT EROSION.
- EROSION CONTROL MAY BE REMOVED ONCE A MOWABLE STAND OF GRASS HAS GROWN AND PAVEMENT HAS BEEN INSTALLED.
- THE CONTRACTOR SHALL DISCHARGE NO WASTE OR SURPLUS CONCRETE ONTO THE VA PROPERTY DUE TO WASHING OF CONCRETE CONTAINERS. THE CONTRACTOR SHALL UTILIZE THE METHODS PROVIDED BY THE EPA TO CONTAIN CONCRETE WASHOUT FOR PROPER DISPOSAL OR REUSE. THE CONTRACTOR SHALL ENSURE THE COLLECTED CONCRETE WASHOUT IS REMOVED AND SURRENDERED TO A STATE OF SOUTH DAKOTA OR CITY OF SIOUX FALLS APPROVED WASTE CONCRETE COLLECTION SITE.
- THE CONTRACTOR SHALL STAGE ALL MATERIALS AND STOCKPILES WITHIN THE FENCED FOOTPRINT OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN GOOD HOUSEKEEPING PRACTICES WITHIN THE STAGING AREA AT ALL TIMES.
- THE CONTRACTOR SHALL COLLECT ALL DEBRIS WITHIN THE AREA DEFINED AS THE CONSTRUCTION SITE AT THE END OF EACH SHIFT. DEBRIS SHALL BE COLLECTED AND STORED IN CLOSED CONTAINERS AND REMOVED WITHOUT DISTURBING SIOUX FALLS VA MEDICAL CENTER GROUNDS OR AESTHETICS. THE WASTE CONTAINER SHALL BE CONTAINED WITHIN THE CONFINES OF THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE TO THE STATE OF SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES AIR QUALITY OFFICE THE APPROPRIATE BOILER INFORMATION. (MAKE, MODEL, SERIAL NUMBER, FUEL USE, HORSEPOWER...)
- THE CONTRACTOR SHALL COMPLY WITH THE CITY OF SIOUX FALLS NUISANCE VEGETATION REQUIREMENTS WITHIN THE CONSTRUCTION SITE.
- EROSION CONTROLS ARE TO BE INSPECTED AND DOCUMENTED VIA SDDOT 298 INSPECTION FORMS WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN 0.5 INCHES OR AT MINIMUM WEEKLY. FAILED EROSION CONTROL MEASURES SHALL BE REPLACED AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS OF IDENTIFICATION.
- TRACK PAD CONSTRUCTION ENTRANCE TO BE VISUALLY INSPECTED WEEKLY. MATS SHOULD BE CLEANED (BRUSHED, EITHER MANUALLY OR MECHANICALLY) PRIOR TO VOIDS BEING FILLED WITH SEDIMENT, AT MINIMUM EVERY TWO WEEKS AFTER RAIN EVENTS.

KEY NOTES

- FURNISH AND INSTALL EROSION CONTROL (DETAIL B3, CK501).
- FURNISH AND INSTALL INLET PROTECTION FOR EXISTING STRUCTURES TO REMAIN (DETAILS D7 AND D9, CK501).
- FURNISH AND INSTALL INLET PROTECTION AT THE TIME OF INSTALLATION OF PROPOSED DRAINS WHILE CONSTRUCTION CONTINUES (DETAILS D7 AND D9, CK501).
- FURNISH AND INSTALL DRIVEN POST CONSTRUCTION FENCE (DETAIL F4, CK501).
- FURNISH AND INSTALL CONCRETE WASHOUT STATION (DETAIL C1, CK503).
- FURNISH AND INSTALL TRACK PAD CONSTRUCTION ENTRANCE (DETAIL B7, CK501).
- FURNISH AND INSTALL CONSTRUCTION AND SAFETY SIGNS.

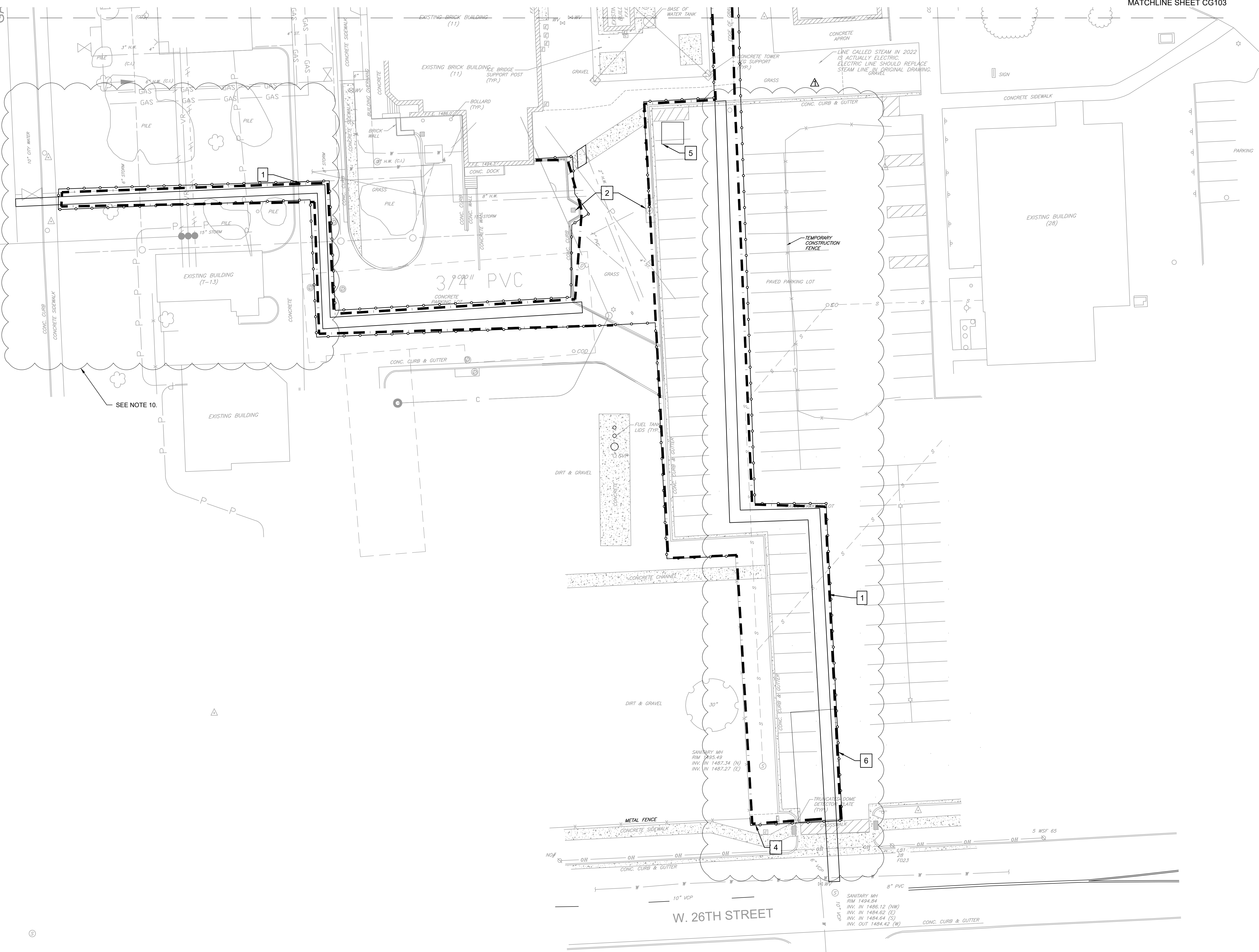
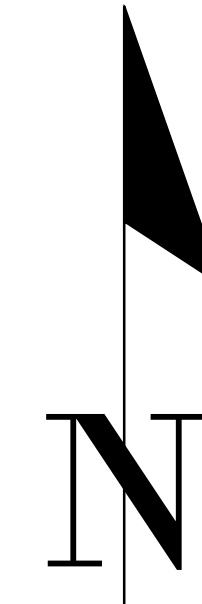
1 CIVIL EROSION CONTROL PLAN
Scale: 1" = 20'



CONSULTANT Mabbett Scientists Engineers Program Managers Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T. 781-276-6050 www.mabbett.com		ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com		STAMP 		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title CIVIL EROSION CONTROL PLAN		Phase 100% CONSTRUCTION DOCUMENT SUBMISSION		Project Title SIOUX FALLS BOILER PLANT		Project Number 438-22-900	
Approved: Project Director		FULLY SPRINKLERED		Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105		Building Number 12		Issue Date 08-09-2024		Checked RBB		Drawn EG		Drawing Number CG103	
Revisions: ADDENDUM 2 (NO CHANGES TO THIS SHEET) ADDENDUM 1		Date: 09-12-2024 08-09-2024		VA FORM 08-6231											

MATCHLINE SHEET CG103

MATCHLINE SHEET CG103



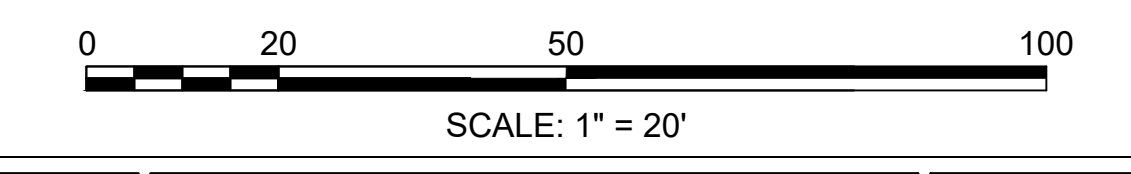
NOTES

- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- SURPLUS SOIL SHALL BE HAULED OFFSITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- SOIL THAT IS TO BE RE-USED MAY BE STORED ONSITE AND COVERED WITH SECURED TARPULINS TO PREVENT EROSION.
- EROSION CONTROL MAY BE REMOVED ONCE A MOWABLE STAND OF GRASS HAS GROWN AND PAVEMENT HAS BEEN INSTALLED.
- THE CONTRACTOR SHALL DISCHARGE NO WASTE OR SURPLUS CONCRETE ONTO THE VA PROPERTY DUE TO WASHING OF CONCRETE CONTAINERS. THE CONTRACTOR SHALL UTILIZE THE METHODS PROVIDED BY THE EPA TO CONTAIN CONCRETE WASHOUT FOR PROPER DISPOSAL OR REUSE. THE CONTRACTOR SHALL ENSURE THE COLLECTED CONCRETE WASHOUT IS REMOVED AND SURRENDERED TO A STATE OF SOUTH DAKOTA OR CITY OF SIOUX FALLS APPROVED WASTE CONCRETE COLLECTION SITE.
- THE CONTRACTOR SHALL STAGE ALL MATERIALS AND STOCKPILES WITHIN THE FENCED FOOTPRINT OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN GOOD HOUSEKEEPING PRACTICES WITHIN THE STAGING AREA AT ALL TIMES.
- THE CONTRACTOR SHALL COLLECT ALL DEBRIS WITHIN THE AREA DEFINED AS THE CONSTRUCTION SITE AT THE END OF EACH SHIFT. DEBRIS SHALL BE COLLECTED AND STORED IN CLOSED CONTAINERS AND REMOVED WITHOUT DISTURBING SIOUX FALLS VA MEDICAL CENTER GROUNDS OR AESTHETICS. THE WASTE CONTAINER SHALL BE CONTAINED WITHIN THE CONFINES OF THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE TO THE STATE OF SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES AIR QUALITY OFFICE THE APPROPRIATE BOILER INFORMATION. (MAKE, MODEL, SERIAL NUMBER, FUEL USE, HORSEPOWER...)
- THE CONTRACTOR SHALL COMPLY WITH THE CITY OF SIOUX FALLS NUISANCE VEGETATION REQUIREMENTS WITHIN THE CONSTRUCTION SITE.
- EROSION CONTROLS ARE TO BE INSPECTED AND DOCUMENTED VIA SDDOT 298 INSPECTION FORMS WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN 0.5 INCHES OR AT MINIMUM WEEKLY BY A QUALIFIED COMPLIANCE INSPECTOR OF STORMWATER (QCIS). FAILED EROSION CONTROL MEASURES SHALL BE REPLACED AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS OF IDENTIFICATION.
- TRACK PAD CONSTRUCTION ENTRANCE TO BE VISUALLY INSPECTED WEEKLY. MATS SHOULD BE CLEANED (BRUSHED, EITHER MANUALLY OR MECHANICALLY) PRIOR TO VOIDS BEING FILLED WITH SEDIMENT, AT MINIMUM EVERY TWO WEEKS AFTER RAIN EVENTS.
- UTILITY LOCATIONS WITHIN THIS LOCATION ARE APPROXIMATE FROM VA PROVIDED REFERENCE DOCUMENTS. CONTRACTOR TO VERIFY ALL UTILITIES IN FIELD.
- THE CONTRACTOR SHALL REFER TO BID DOCUMENTS FOR SITE SAFETY REQUIREMENTS.

KEY NOTES

- FURNISH AND INSTALL EROSION CONTROL (DETAIL B3, CK501).
- FURNISH AND INSTALL INLET PROTECTION FOR EXISTING STRUCTURES TO REMAIN (DETAILS D7 AND D9, CK501).
- NOT USED.
- FURNISH AND INSTALL DRIVEN POST CONSTRUCTION FENCE (DETAIL F4, CK501).
- FURNISH AND INSTALL CONCRETE WASHOUT STATION (DETAIL C1, CK503).
- FURNISH AND INSTALL TRACK PAD CONSTRUCTION ENTRANCE (DETAIL B7, CK501).

1 CIVIL EROSION CONTROL PLAN
Scale: 1" = 20'



ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1	08-09-2024
Revisions:	Date:

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STAMP

ROBERT B. BLANCHETTE, JR.
CIVIL
No. 48371
Professional Engineer
State of Missouri

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

CIVIL EROSION CONTROL PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title

SIOUX FALLS BOILER PLANT

Location

VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date

08-09-2024

Checked

RBB

Drawn

EG

Project Number

438-22-900

Building Number

12

Drawing Number

CG104

9 OF 17



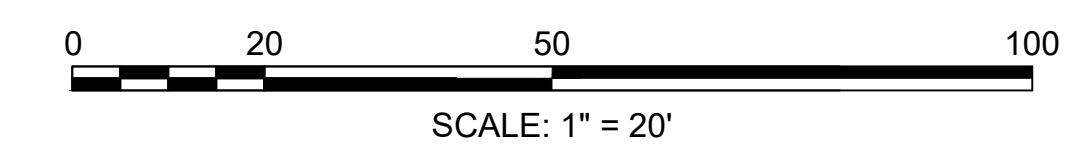
NOTES

- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- REFER TO CIVIL UTILITY PROFILE SHEETS, C-301 AND C-302.
- LOCATION OBTAINED FROM VA, V.I.F. 4-INCH HIGH PRESSURE NATURAL GAS, V.I.F.
- REFER TO SPECIFICATIONS FOR PERFORMANCE REQUIREMENTS.
- REFER TO PLUMBING PLANS PL101 AND PL201 FOR WATER LINE CONFIGURATION IN TUNNEL
- WATER LINE TO BE CONNECTED TO EXISTING WATER TOWER LINE. REFER TO SHEET CU102 FOR CONTINUATION AND CU103 FOR PHASING.

KEY NOTES

- FURNISH AND INSTALL 6-INCH PVC SEWER SERVICE (DETAIL E9, CK501).
- FURNISH AND INSTALL GATE VALVE AND 8-INCH PVC WATER MAIN (DETAIL F1, C-501 AND DETAIL C3, CK503).
- FURNISH AND INSTALL HDPE DRAIN PIPE (DETAIL C9, CK502).
- FURNISH AND INSTALL ELECTRICAL DUCT BANK (SEE NOTE 2 AND DETAIL B5, CK501).
- FURNISH AND INSTALL 73,929 GALLONS OF WATER STORAGE. TANKS: (1) 35,000 GALLON 49'-4\"/>

1 CIVIL UTILITY PLAN
Scale: 1" = 20'



ADDENDUM 2 09-12-2024 ADDENDUM 1 08-09-2024 Revisions: Date:	CONSULTANT Mabbett® Scientists Engineers Program Managers Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T. 781-276-6050 www.mabbett.com	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com	STAMP ROBERT B. BLANCHETTE, JR. CIVIL No. 48371 PROFESSIONAL ENGINEER STATE OF MISSOURI 11-2024	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title CIVIL UTILITY PLAN Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENT SUBMISSION FULLY SPRINKLERED	Project Title SIOUX FALLS BOILER PLANT Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105 Issue Date 08-09-2024	Project Number 438-22-900 Building Number 12 Drawing Number CU101 10 OF 17
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MATCHLINE SHEET CU101

MATCHLINE SHEET CU101

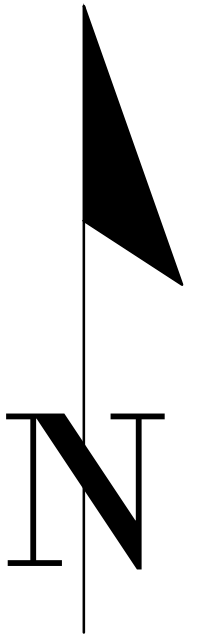


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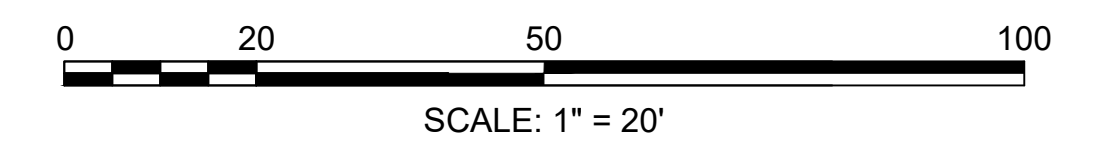
1. REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO CIVIL UTILITY PROFILE SHEETS, C.J301 AND C.J302.
4. COMPLY WITH CITY OF SIOUX FALLS DEPARTMENT OF PUBLIC WORKS STREET OPENING AND SERVICE CONNECTION.
5. UTILITIES SHOWN IN THIS LOCATION WERE OBTAINED FROM VA REFERENCE DOCUMENTS. CONTRACTOR IS REQUIRED TO VERIFY ALL LOCATIONS IN FIELD.

KEY NOTES

1. NOT USED.
2. FURNISH AND INSTALL GATE VALVE AND 8-INCH PVC WATER MAIN (DETAIL F1, CK501 AND DETAIL C3, CK503).



2 CIVIL UTILITY PLAN
Scale: 1" = 20'



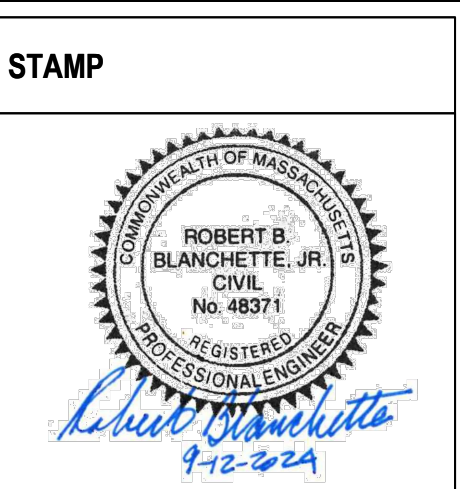
Revisions:	Date:
ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
CIVIL UTILITY PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title
SIOUX FALLS BOILER PLANT

Location
VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date
08-09-2024

Checked
RBB

Drawn
EG

Project Number
438-22-900

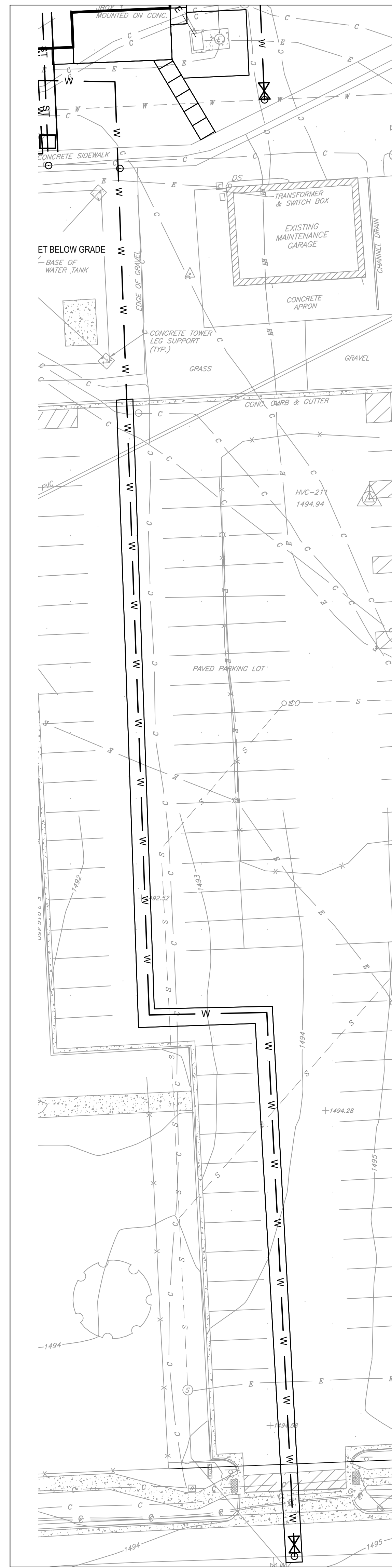
Building Number
12

Drawing Number
CU102

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PHASE I NOTES

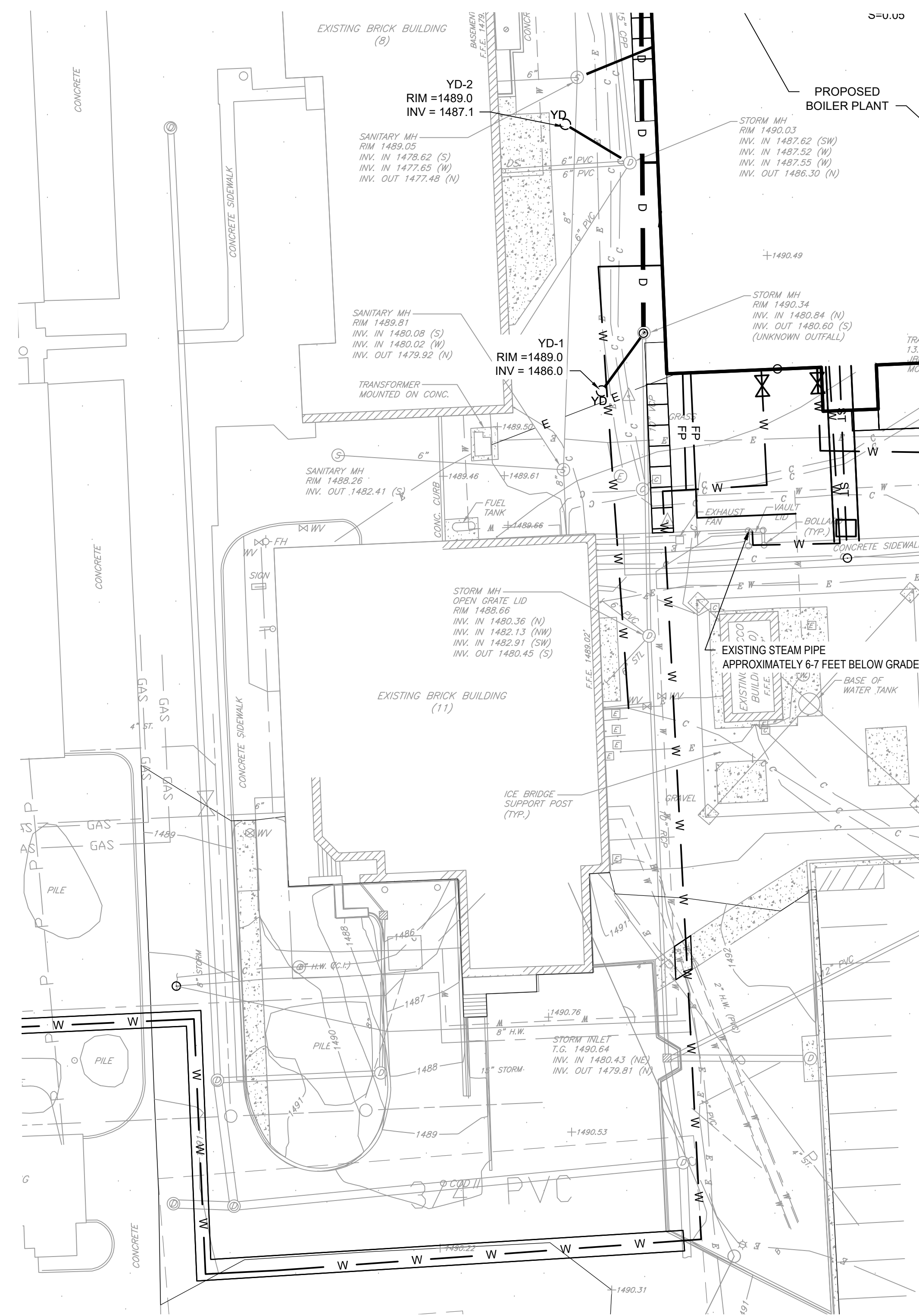
1. PHASE I OF THE WATER MAIN INSTALLATION INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF THE WATER MAIN FROM WEST 26TH STREET TO THE NEW BOILER PLANT (NOT ACTIVE AT THE TIME OF INSTALLATION). THIS PHASE IS REQUIRED TO BE COMPLETED PRIOR TO ANY DISCONNECTIONS TO PREVENT AN OUTAGE FOR THE HOSPITAL.



WATER UTILITY INSTALLATION PHASE I

PHASE II NOTES

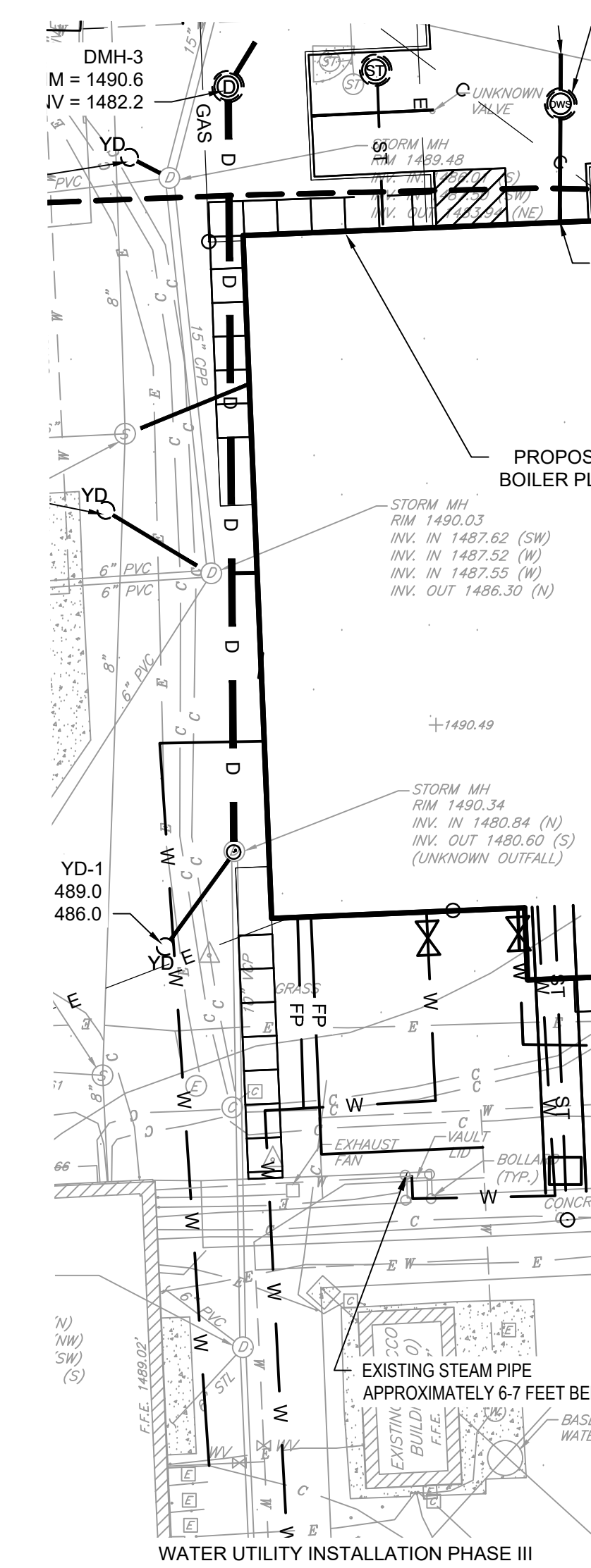
1. PHASE II OF THE WATER MAIN INSTALLATION INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF THE WATER MAIN FROM GARFIELD AVENUE TO THE NEW BOILER PLANT. EXCAVATION AND UTILITY PLACEMENT CAN BE DONE AT ANY TIME DURING THE DURATION OF THE WORK; HOWEVER, THE CONNECTION TO THE CITY CANNOT BE MADE UNTIL PHASE I IS COMPLETE.
2. EXISTING GARFIELD AVENUE WATER MAIN WILL REMAIN IN PLACE.



WATER UTILITY INSTALLATION PHASE II

PHASE III NOTES

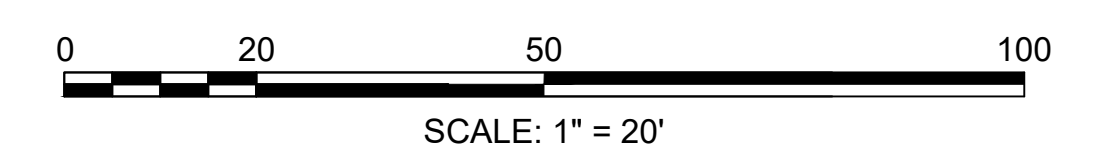
1. PHASE III OF THE WATER MAIN INSTALLATION INCLUDES WORK THE EXISTING UNDERGROUND WATER LINES ARE LIMITED IN THE ABILITY TO ISOLATE THE SYSTEMS. THERE IS A 6\"/>



WATER UTILITY INSTALLATION PHASE III

NOTES

1. REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO CIVIL UTILITY PROFILE SHEETS, CJ301 AND CJ302.
4. REFER TO SPECIFICATIONS FOR PERFORMANCE REQUIREMENTS.



3 CIVIL UTILITY WATER PHASING
Scale: 1" = 20'

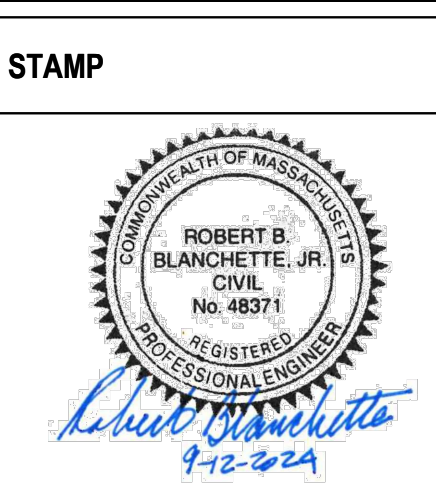
ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
CIVIL UTILITY PLAN - PHASING

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title
SIOUX FALLS BOILER PLANT

Location
VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date
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Checked
RBB

Drawn
EG

Project Number
438-22-900

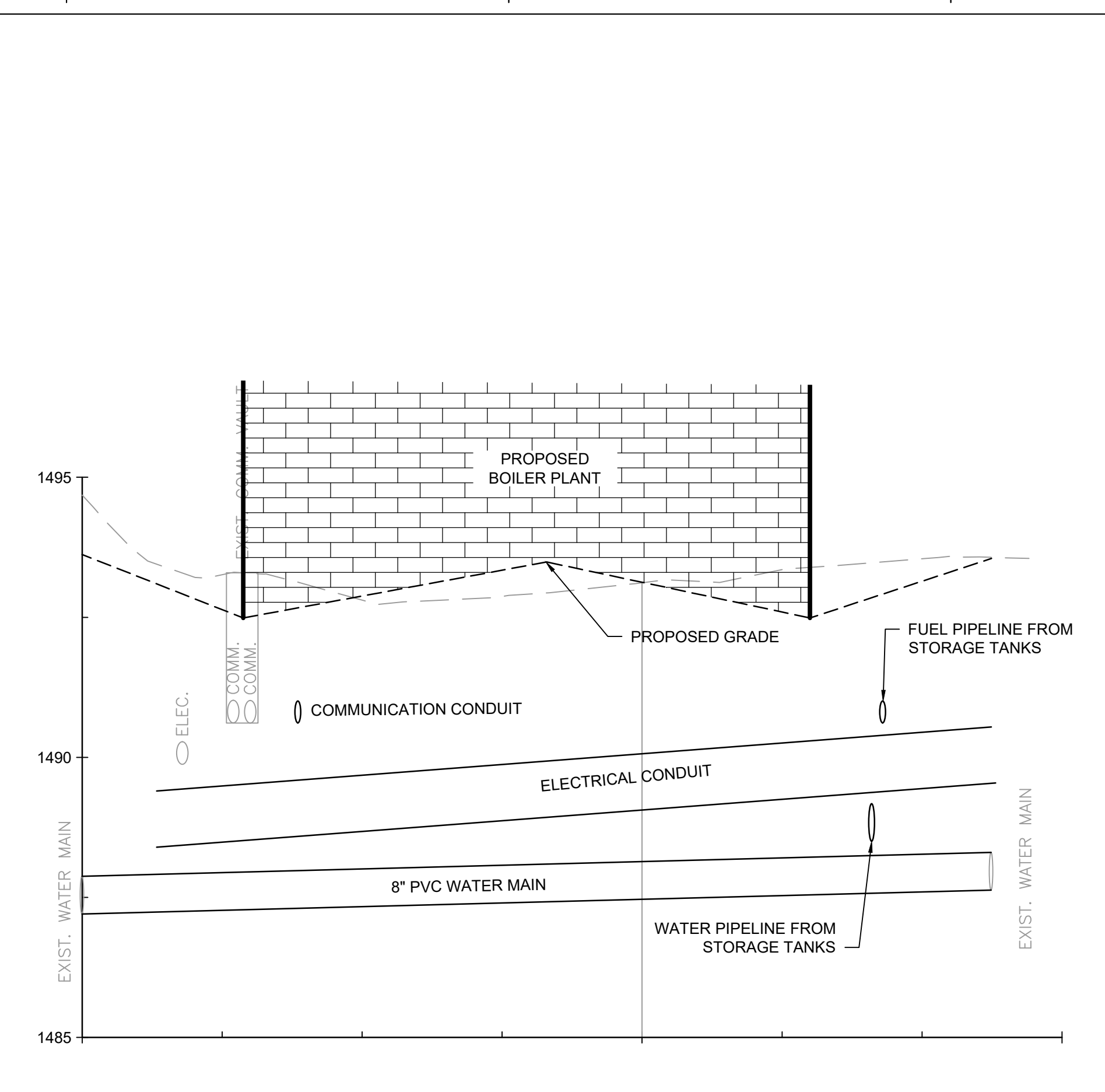
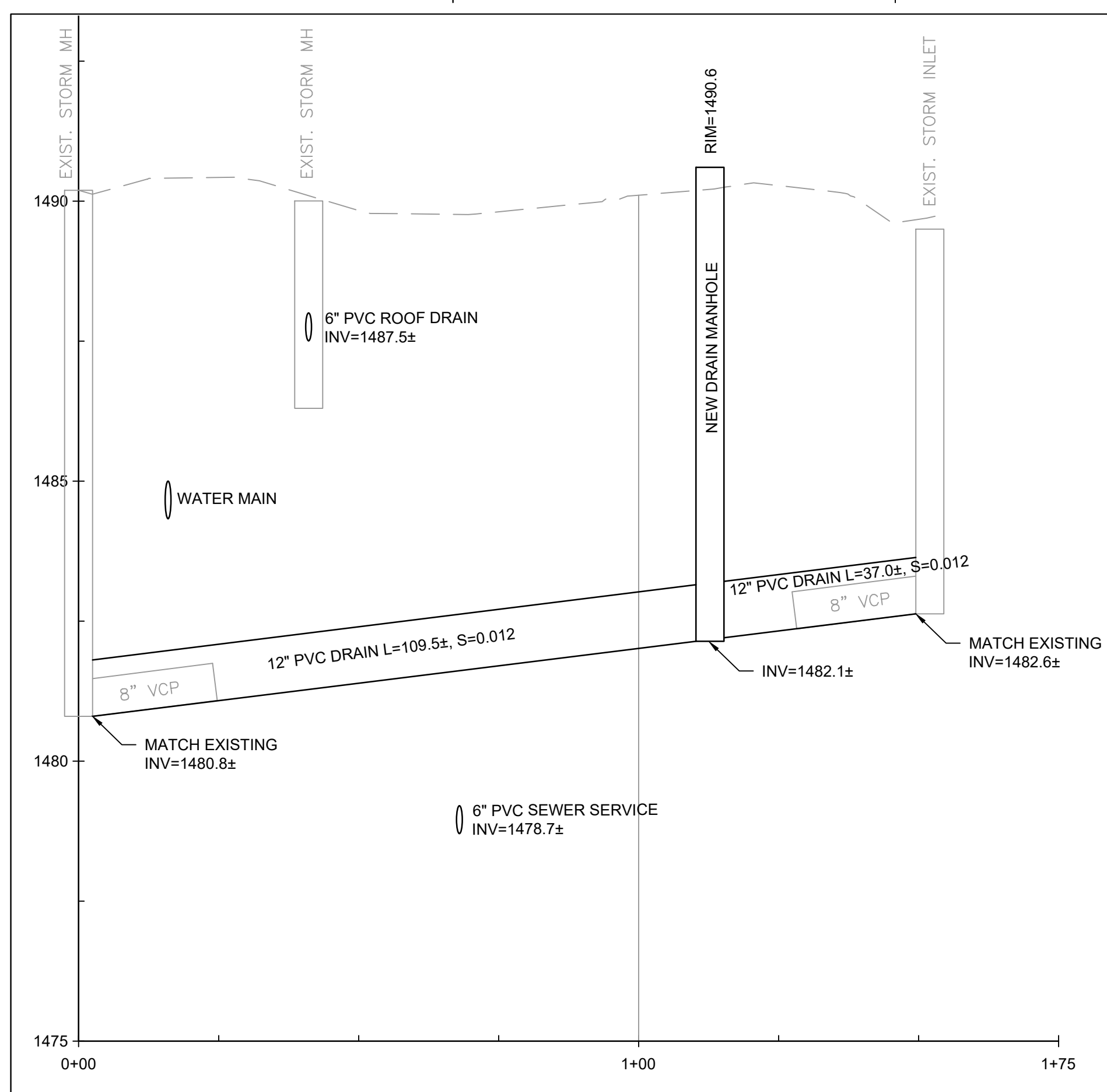
Building Number
12

Drawing Number
CU103

12 OF 17

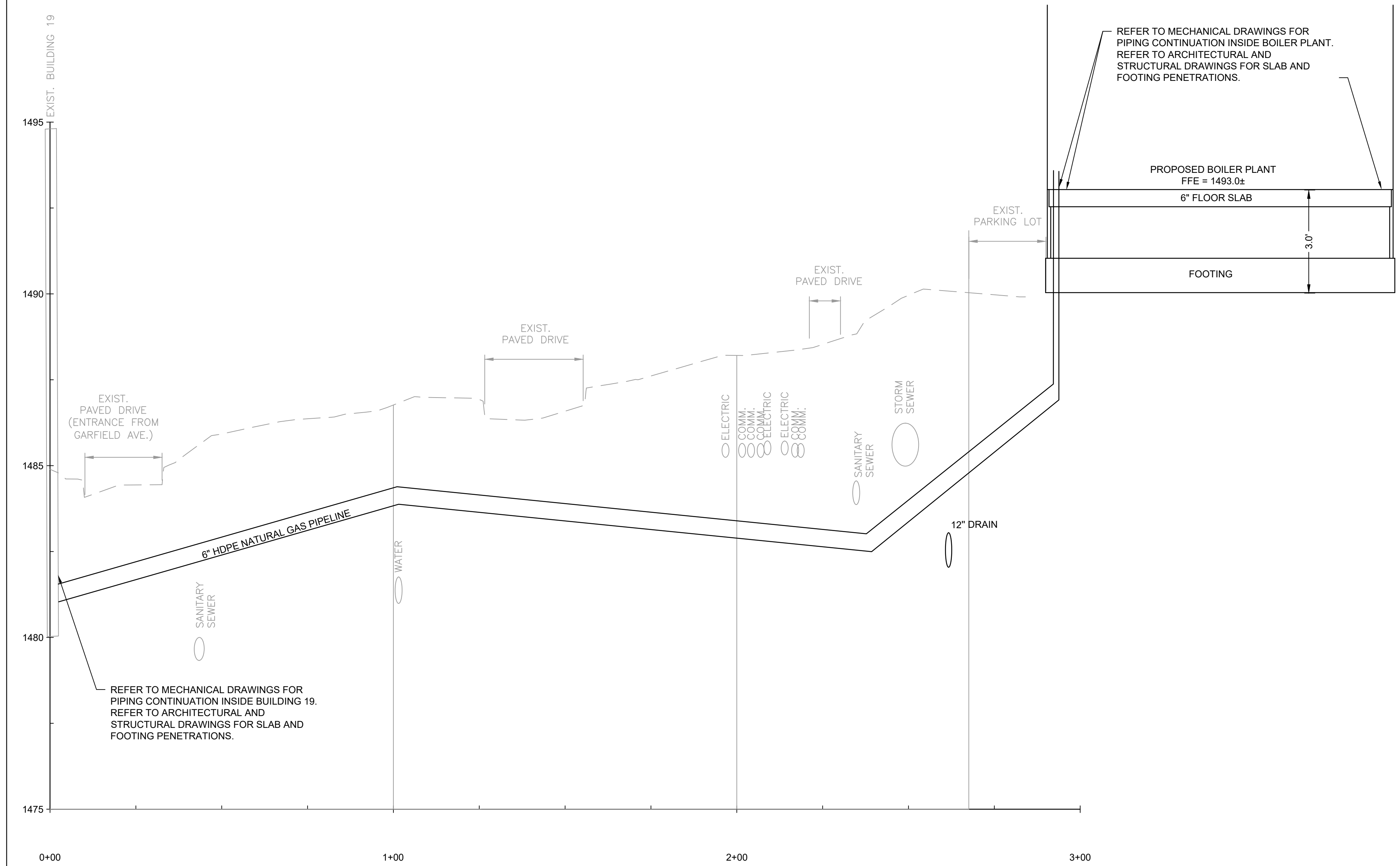
NOTES

- REFER TO DRAWING C001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO CS101 FOR ALIGNMENT.
- EXISTING PIPE SIZES OBTAINED FROM TOPOGRAPHIC SURVEY CONDUCTED BY HONOR ENGINEERING IN NOVEMBER 2022, UTILITY LOCATING CONDUCTED IN NOVEMBER 2022, AND V.A.M.R.O.C. SITE PLAN DRAWING TITLED UTILITY MAP STEAM/GAS DATED JUNE 2007 STEAM GAS DRAWING PROVIDED BY THE VA.
- EXISTING UTILITIES TO REMAIN SHALL BE SUPPORTED AND PROTECTED IN PLACE.
- ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD, BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC & PRIVATE MUST BE NOTIFIED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. MABBETT ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENTS MUST BE CONSULTED. CALL SOUTH DAKOTA ONE CALL AT 811.
- WATER MAIN TO BE INSTALLED 6-FEET BELOW FINISH GROUND SURFACE TO COMPLY WITH SECTION 5.26 OF THE VA DESIGN MANUAL.
- WATER MAIN TO BE INSTALLED AT LEAST 18-INCHES ABOVE EXISTING SEWER SERVICE PER SECTION 5.2.9 OF THE VA DESIGN MANUAL.

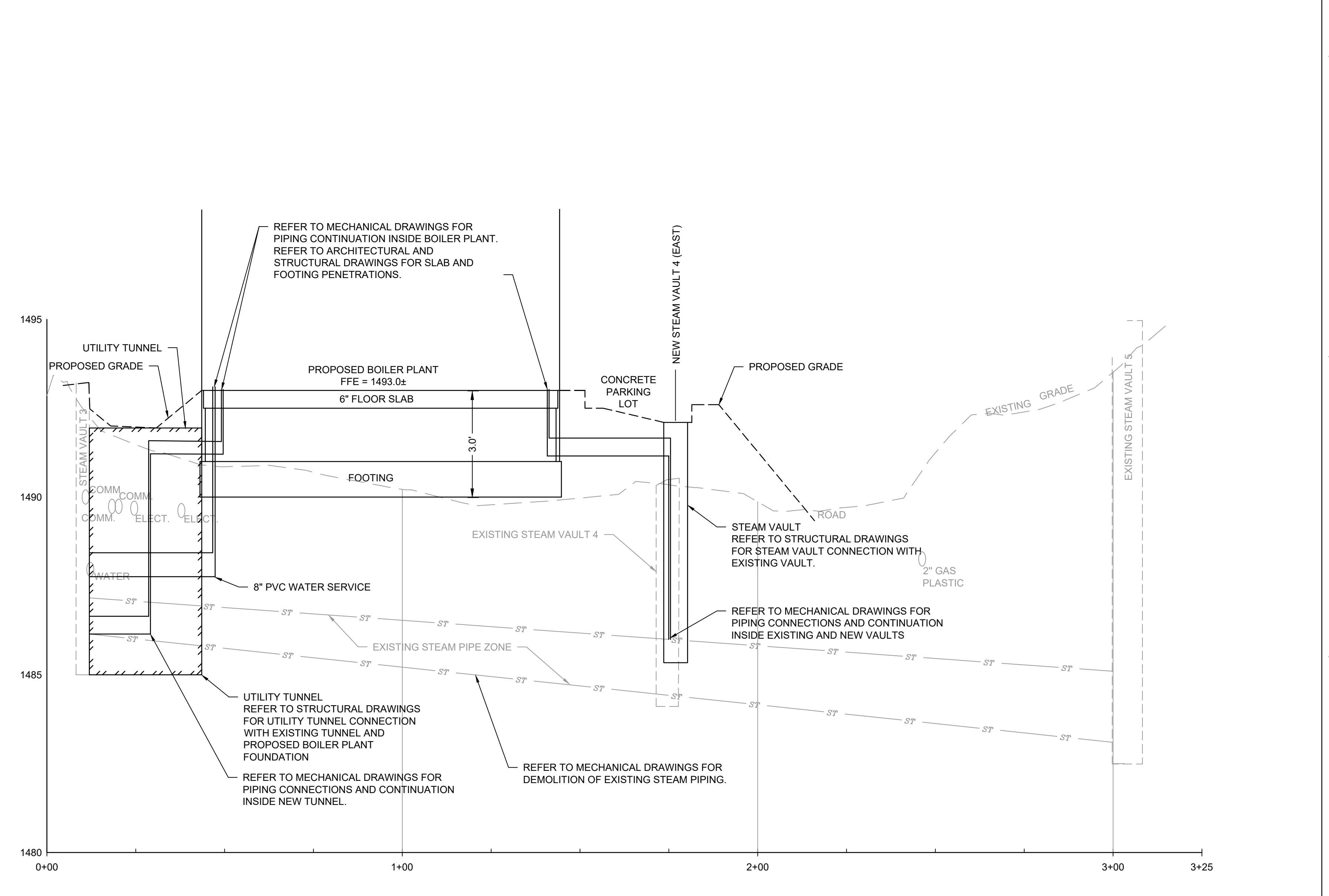


C1 DRAIN PIPELINE WEST OF BOILER PLANT
Scale: H:1" = 20'; V:1"=2'

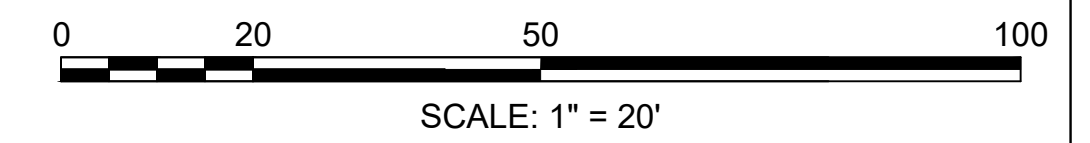
C4 WATER MAIN EAST SIDE OF BOILER PLANT
Scale: H:1" = 20'; V:1"=2'



F1 NATURAL GAS SERVICE
Scale: H:1" = 20'; V:1"=2'



C3 STEAM PIPELINE IN TUNNEL
Scale: H:1" = 20'; V:1"=2'



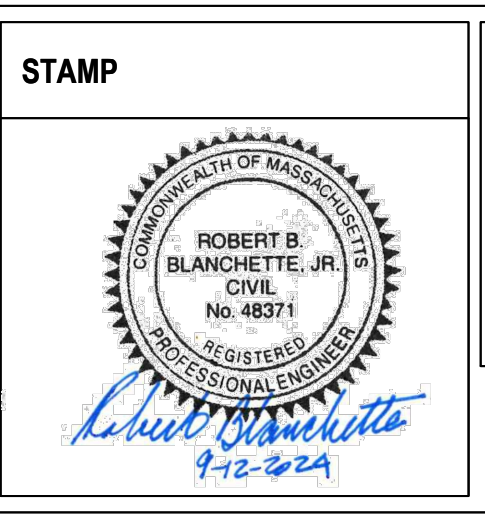
ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024
Revisions:	Date:

CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

paradigm
Architecture | Engineering | Design-Build
200 Envoy Circle, Suite 201, Louisville, KY 40299
www.paradigmusa.com



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

CIVIL UTILITY PROFILE

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENT SUBMISSION

FULLY SPRINKLERED

Project Title

SIoux FALLS BOILER PLANT

Location

VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date

08-09-2024

Checked

RBB

Drawn

EG

Project Number

438-22-900

Building Number

12

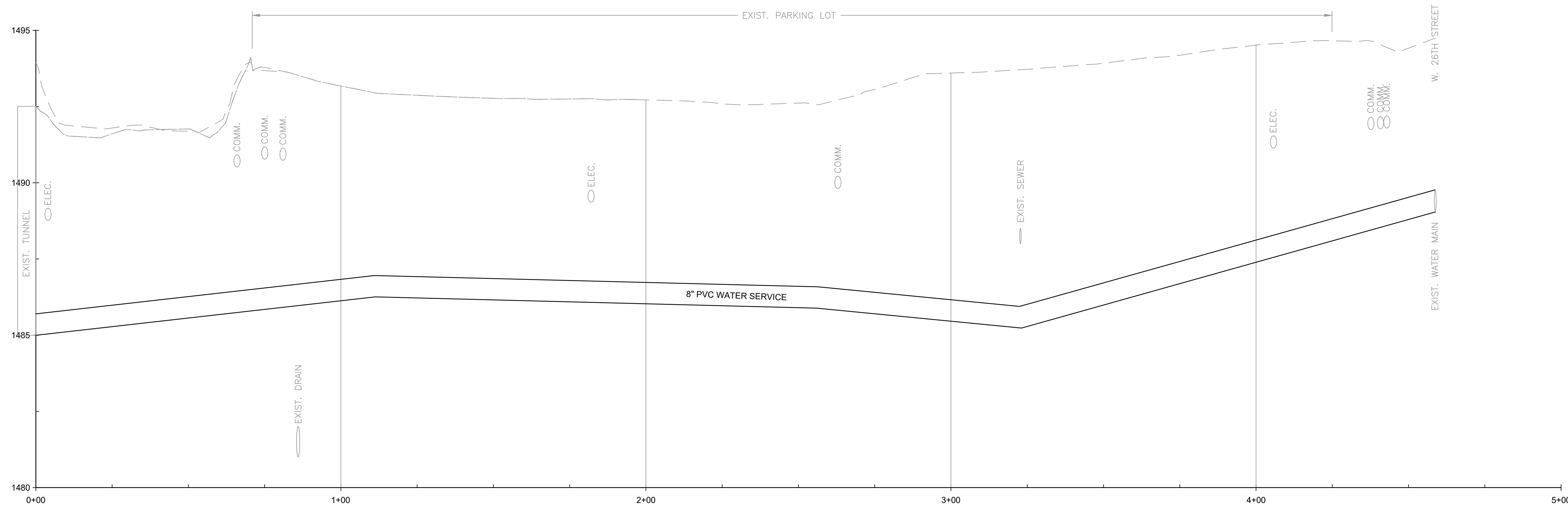
Drawing Number

CJ301

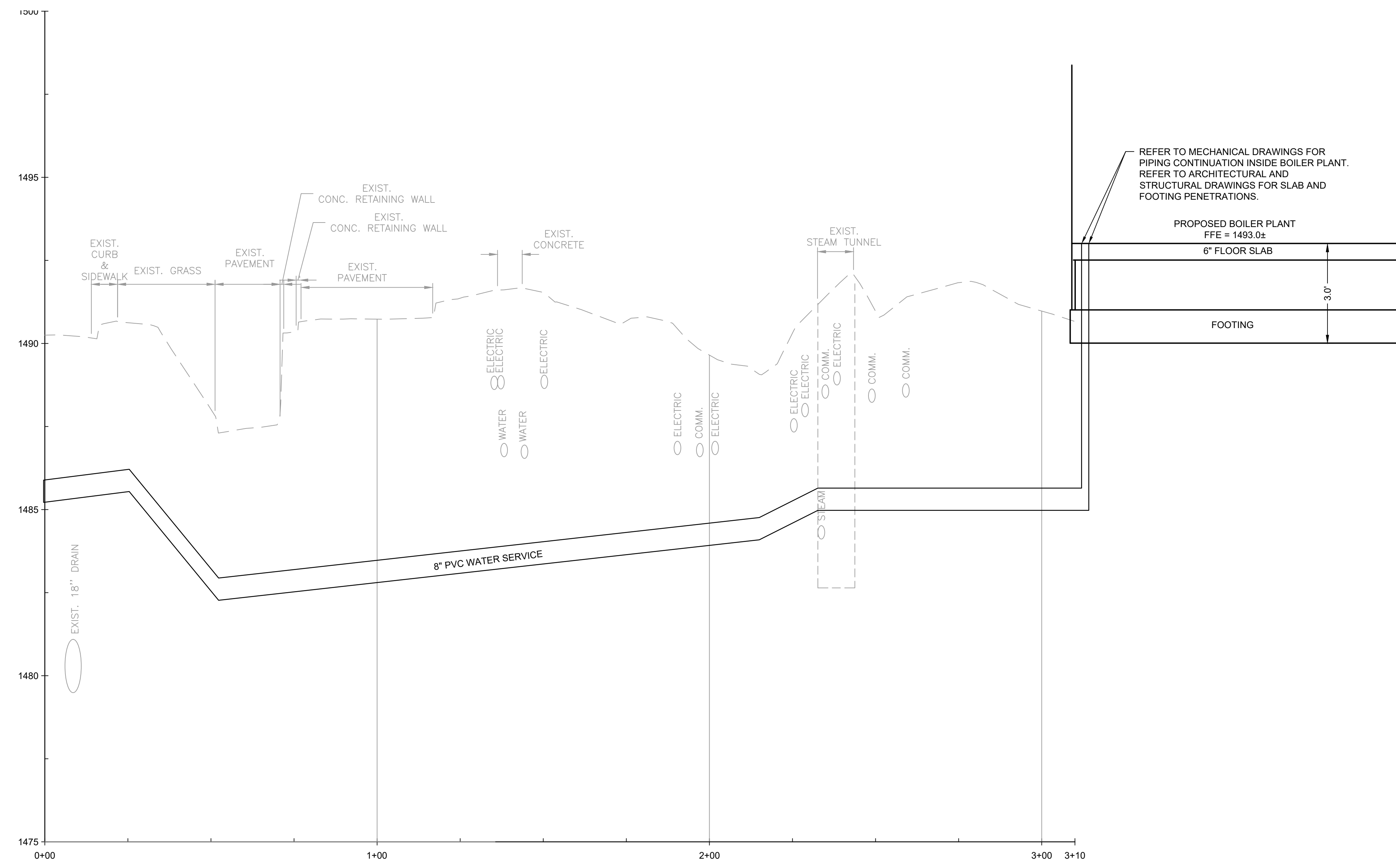
13 OF 17

NOTES

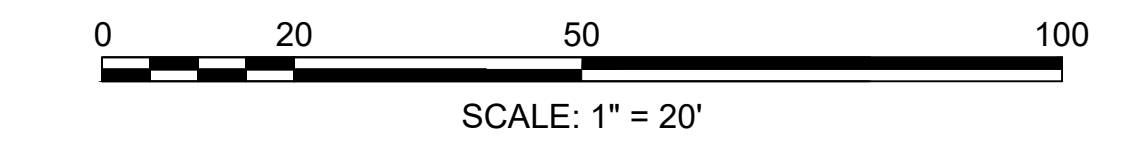
- REFER TO DRAWING C-001 FOR CIVIL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO CS102 FOR ALIGNMENT.
- EXISTING PIPE SIZES OBTAINED FROM TOPOGRAPHIC SURVEY CONDUCTED BY HONOR ENGINEERING IN NOVEMBER 2022, UTILITY LOCATING CONDUCTED IN NOVEMBER 2022, AND V.A.M.R.O.C. SITE PLAN DRAWING TITLED UTILITY MAP STEAM/GAS DATED JUNE 2007 STEAM GAS DRAWING PROVIDED BY THE VA.
- EXISTING UTILITIES TO REMAIN SHALL BE SUPPORTED AND PROTECTED IN PLACE.
- ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD, BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC & PRIVATE MUST BE NOTIFIED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. MABBETT ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENTS MUST BE CONSULTED. CALL SOUTH DAKOTA ONE CALL AT 811.
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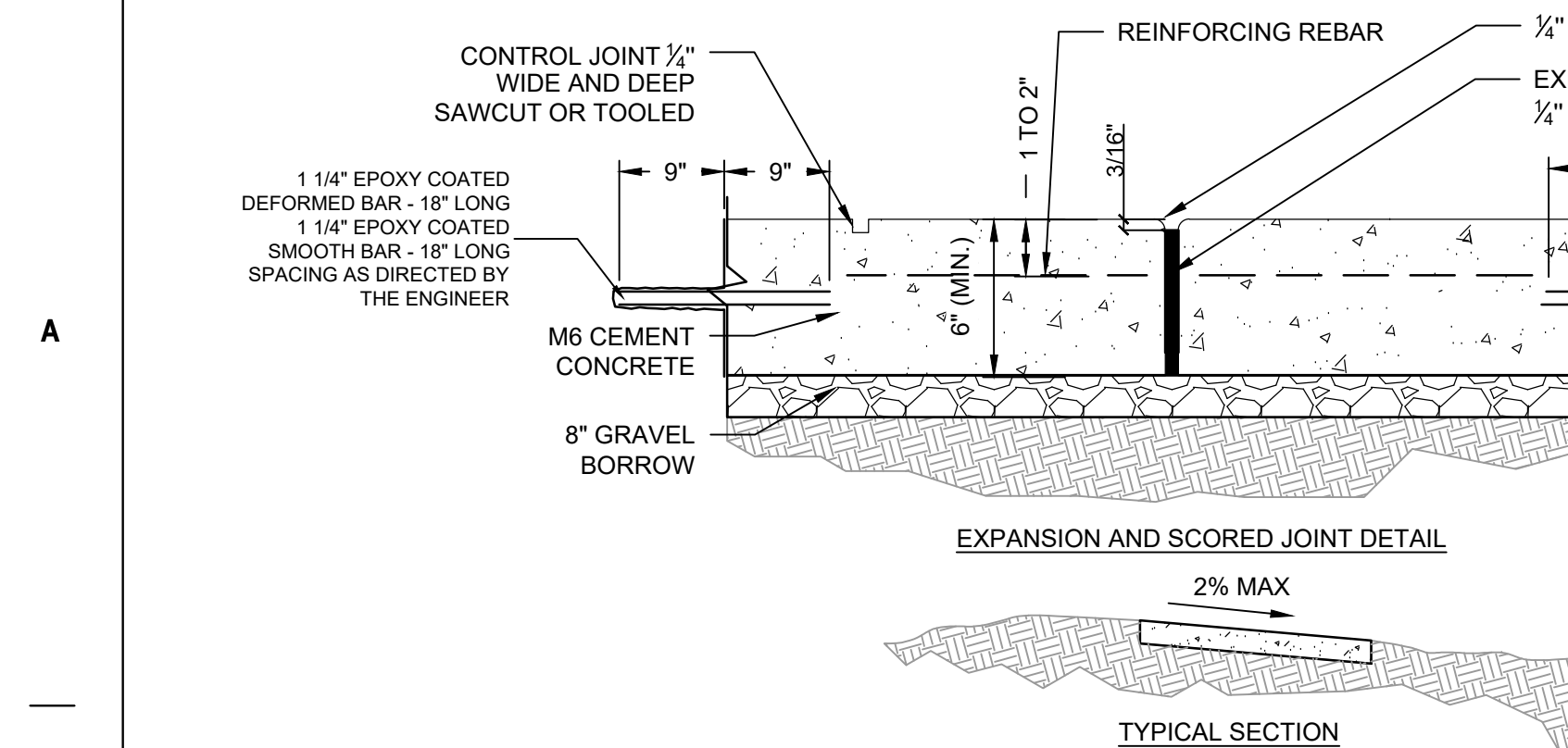
C3 WATER SERVICE FROM W26TH STREET
Scale: H:1" = 20'; V:1"=2'



F2 WATER SERVICE FROM GARFIELD AVE
Scale: H:1" = 20'; V:1"=2'

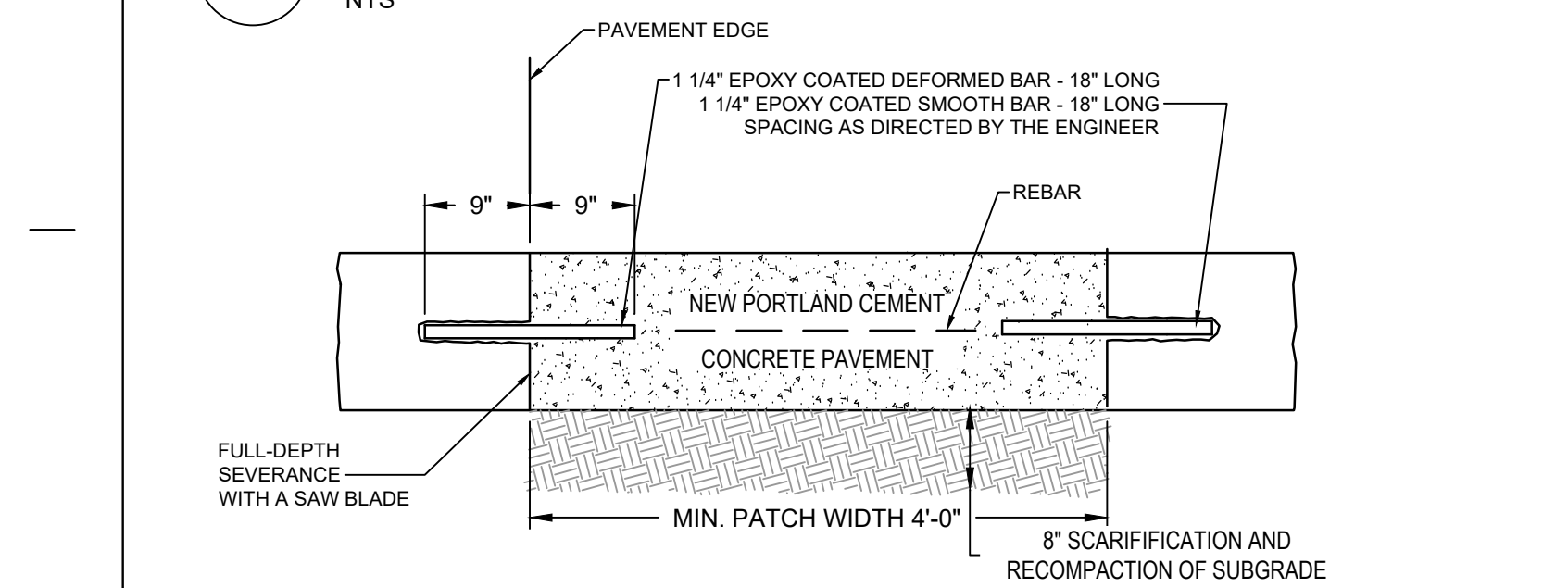


Revisions: ADDENDUM 2 (NO CHANGES TO THIS SHEET) 09-12-2024 ADDENDUM 1 (NO CHANGES TO THIS SHEET) 08-09-2024	CONSULTANT Mabbett [®] <small>Scientists Engineers Program Managers</small> Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T: 781-275-8050 www.mabbett.com	ARCHITECT/ENGINEER OF RECORD paradigm <small>Architecture Engineering Design-Build</small> 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title CIVIL UTILITY PROFILE	Phase 100% CONSTRUCTION DOCUMENT SUBMISSION	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900 Building Number 12
	Approved: Project Director	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Issue Date 08-09-2024	Checked RBB	Drawn EG	Drawing Number CJ302 14 OF 17		



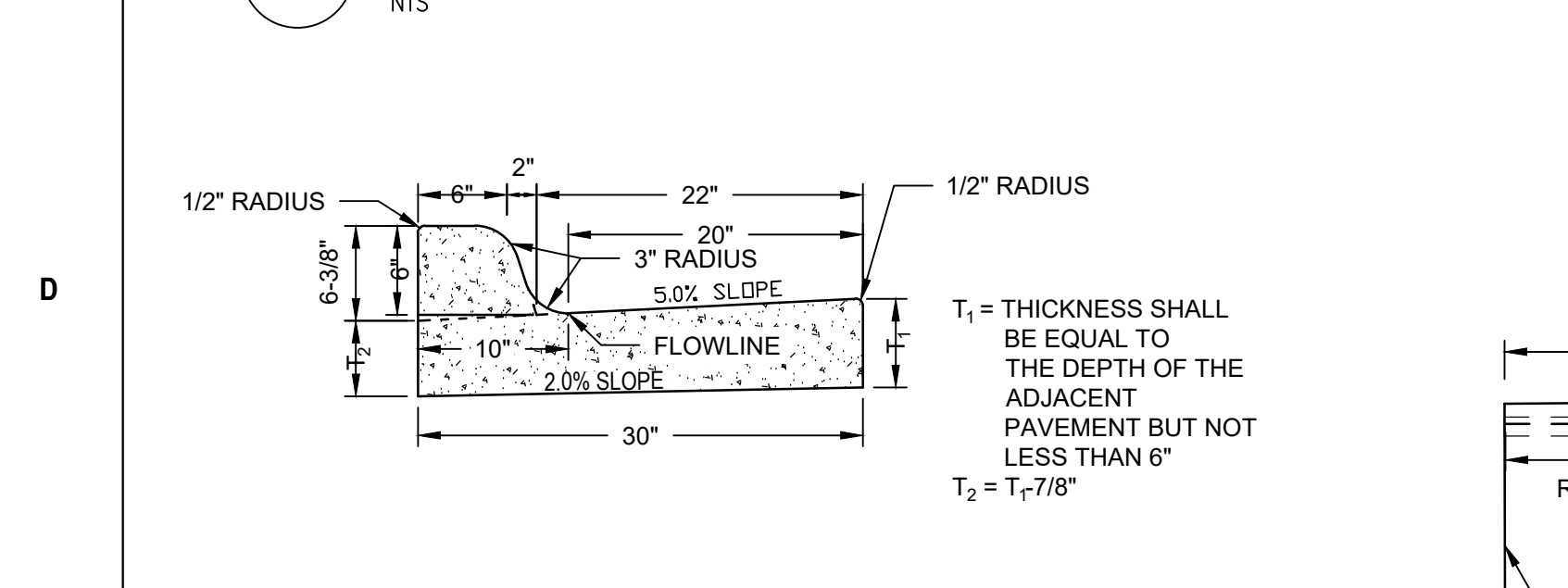
- NOTES:**
- EXPANSION JOINTS SHALL BE LOCATED 30-FEET APART OR WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
 - 1/2" BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
 - FORMED EXPANSION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
 - CONTROL JOINTS SHALL BE 1/2" DEEP AND PLACED AT THE SPACING INDICATED FOR THE WIDTH OF SIDEWALK OR MATCH SCORED JOINTS OF ADJACENT CURB.
 - CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TROWELLED AND BROOMED WITH A FINE BRUSH IN A TRANSVERSE DIRECTION.
 - 1/2" DEEP CONTROL JOINTS (TYP.) SPACED AT 6' OR EQUAL TO SIDEWALK WIDTH.
 - T = THICKNESS OF PAVEMENT

B1 CONCRETE SIDEWALK
NTS



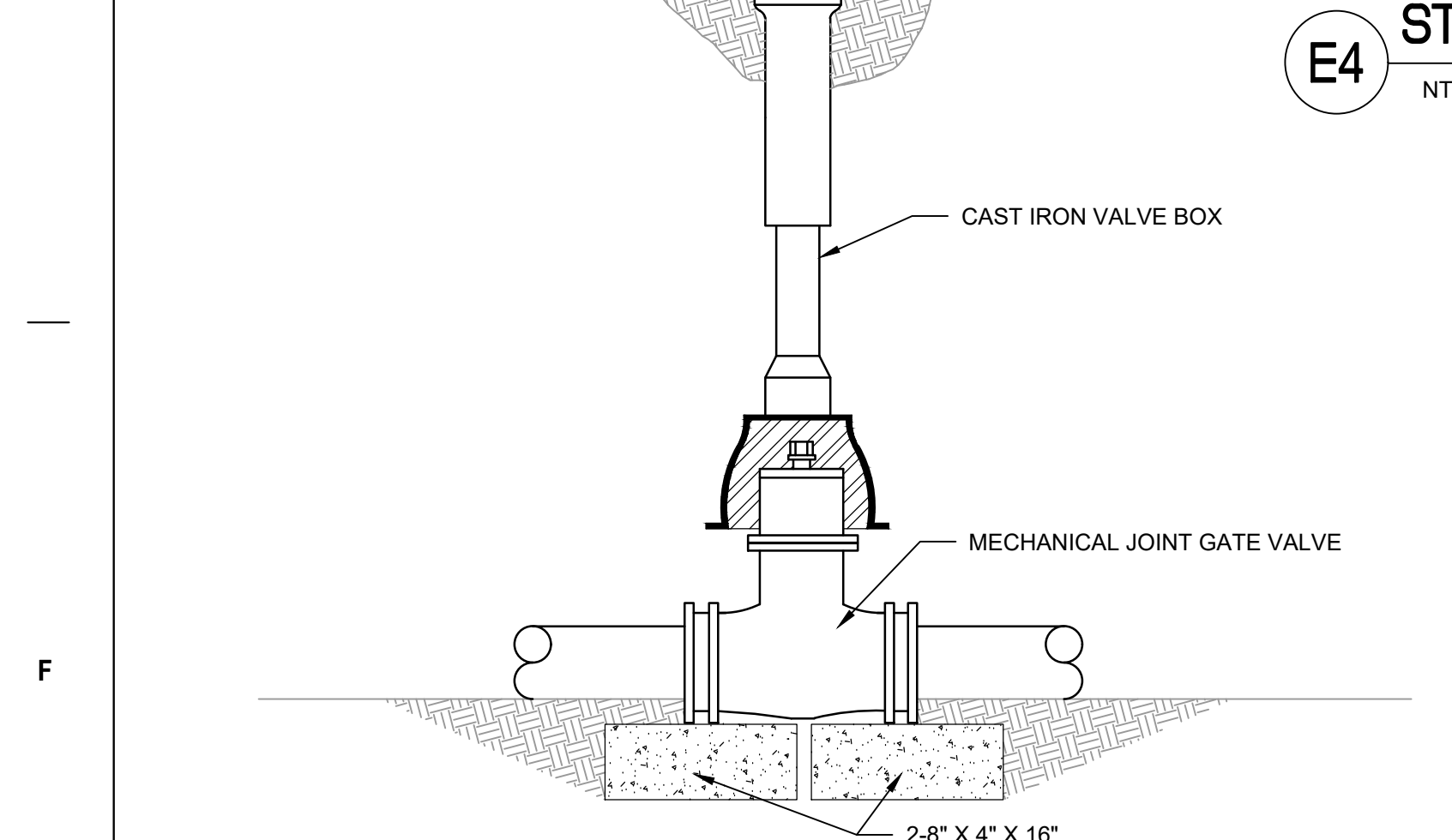
- NOTES:**
- PAVEMENT TO BE AT MINIMUM 7" OF PORTLAND CEMENT CONCRETE WITH AT MINIMUM 8" OF AGGREGATE BASE COURSE. THE THICKNESS OF THE AGGREGATE BASE COURSE MAY NEED TO BE INCREASED IF POOR SUBGRADE AND WEATHER CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION.
 - CONCRETE PAVEMENT SHALL MEET THE MINIMUM REQUIREMENTS OF SDDOT STANDARD SPECIFICATIONS SECTION 380.
 - MINIMUM COMPRESSIVE STRENGTH FOR PORTLAND CEMENT CONCRETE PAVING SHALL BE 4,000 PSI AT 28 DAYS (SECTION 8.11.2 OF THE CITY OF SIOUX FALLS ENGINEERING DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS).

D1 CONCRETE PAVEMENT SECTION
NTS



- NOTES:**
- ON PCC PAVEMENT A KEYWAY LONGITUDINAL JOINT WITH TIE BARS SHALL BE USED WHEN CURB AND GUTTER IS POURED SEPARATELY.
 - CURB AND GUTTER SHALL BE CONSTRUCTED USING M-6 CONCRETE UNLESS MONOLITHICALLY CONSTRUCTED WITH THE ADJACENT PAVEMENT. IN MONOLITHIC PAVING, CONCRETE MIX FOR THE CURB AND GUTTER MAY BE THE SAME AS THE ADJACENT CONCRETE PAVEMENT.
 - THE CURB TRANSITION LENGTH AT ADA CURB RAMPS WILL BE DEPENDENT ON THE TYPE OF CURB RAMP BEING INSTALLED. THE PLANS SHOULD CALL OUT THE LENGTH OF THE TRANSITIONS.

E1 VERTICAL CONCRETE CURB
NTS

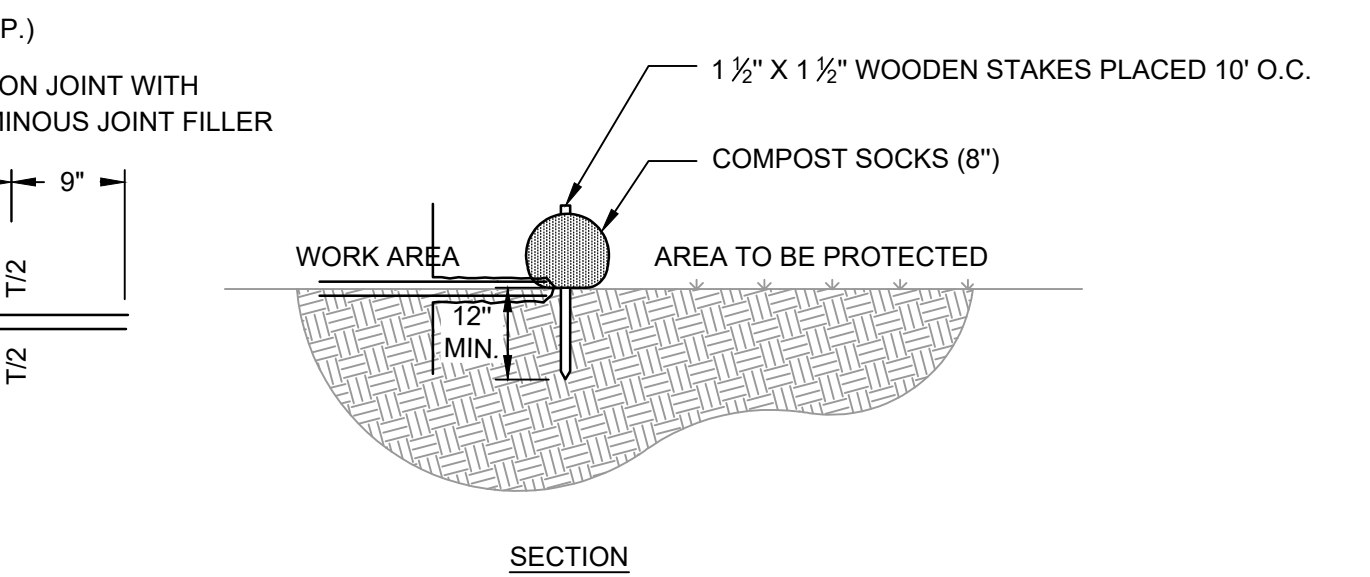


F1 GATE VALVE
NTS

- NOTES:**
- INSTALL TEMPORARY FENCE PER ASTM F3342-19 STANDARD GUIDE FOR TEMPORARY FENCE APPLICATIONS FOR CONSTRUCTION SITES.
 - POSTS TO BE 10' O.C. AND DRIVEN TO A MINIMUM DEPTH OF 24 INCHES.
 - GATE POSTS TO BE SET IN CONCRETE FOOTING.
 - FABRIC TO BE INSTALLED IN ACCORDANCE WITH ASTM F 567 IN LENGTHS NOT LESS THAN 21 FEET.

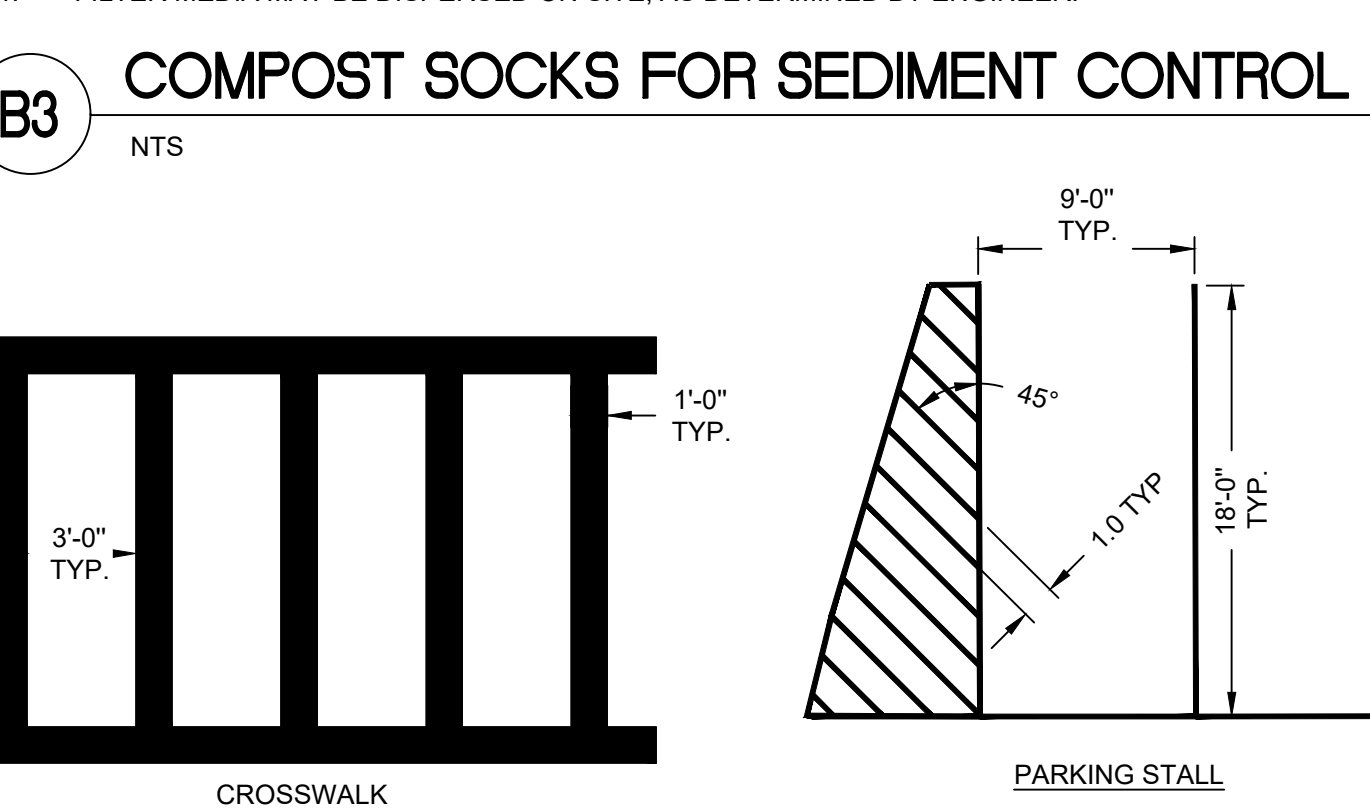
F4 DRIVEN POST CONSTRUCTION FENCE
NTS

ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024
Revisions:	Date:



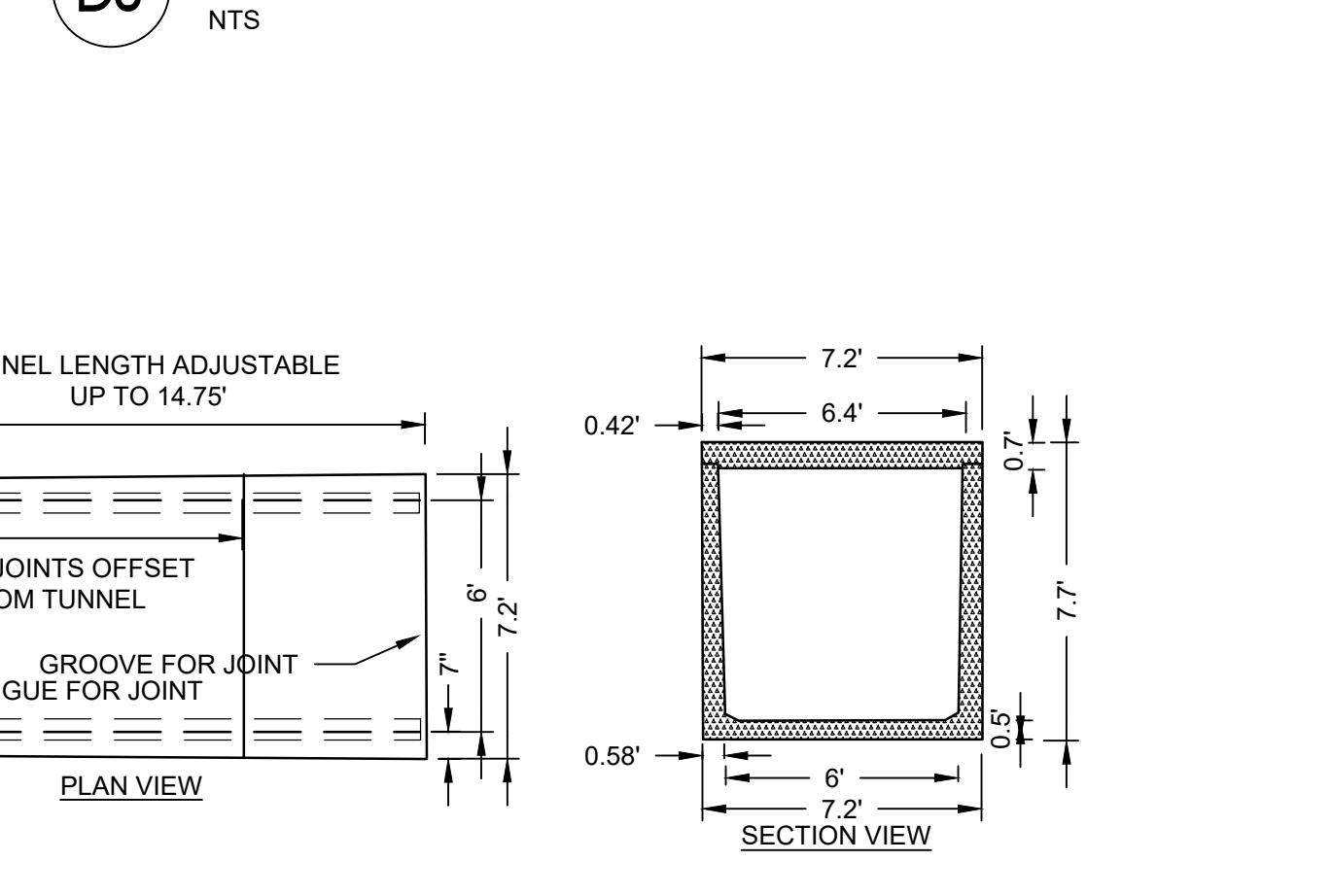
- NOTES:**
- FILTER MEDIA MAY BE DISPersed ON SITE, AS DETERMINED BY ENGINEER.

B3 COMPOST SOCKS FOR SEDIMENT CONTROL
NTS



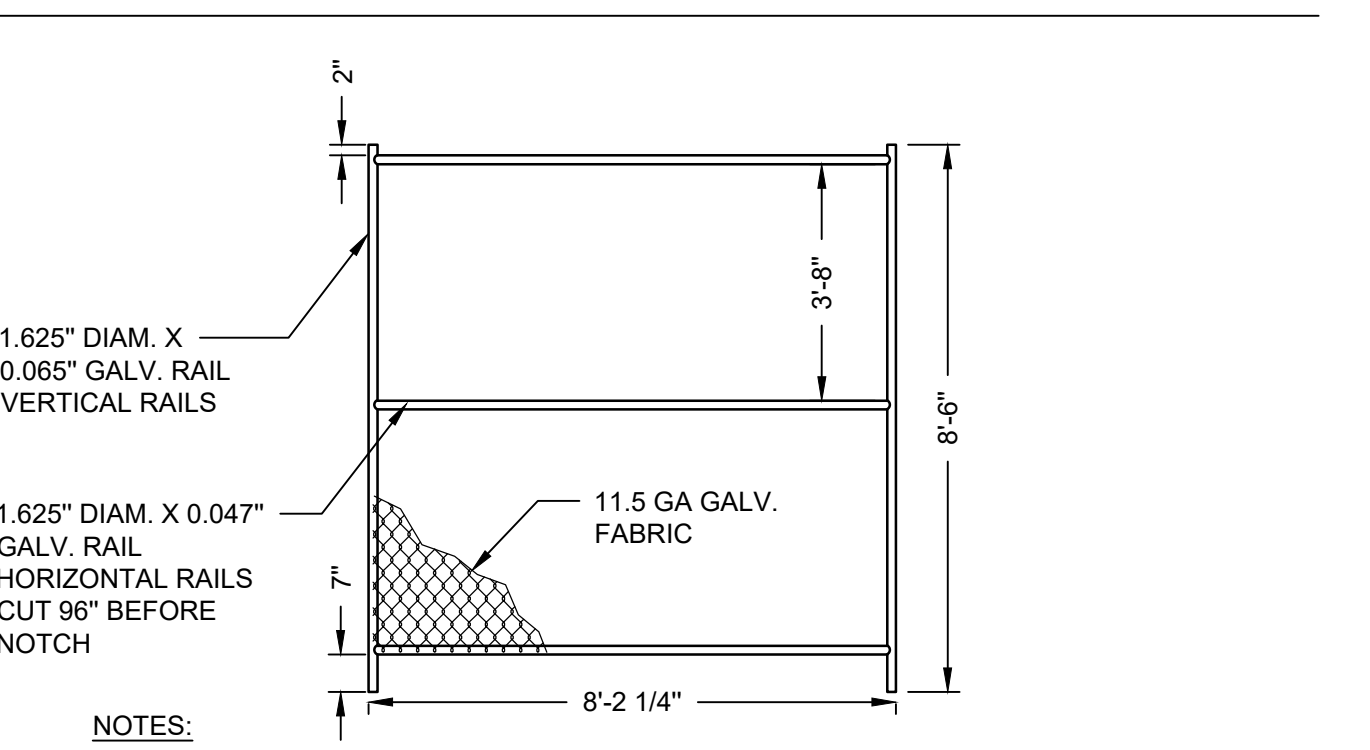
- NOTES:**
- ALL PAINT MARKINGS SHALL BE THE COLOR WHITE.

D3 PAINT MARKINGS
NTS



- NOTES:**
- ALL CONCRETE SHALL HAVE A 28 DAYS COMPRESSIVE STRENGTH OF 4500 PSI.
 - REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60 REBAR. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS.
 - STANDARD STRUCTURAL DESIGN BASED ON AASHTO HS 20 WHEEL LOADING. 1" O.D. BUTYL RUBBER ROOPER MASTIC IS PROVIDED FOR PLACEMENT BETWEEN EACH SECTION.

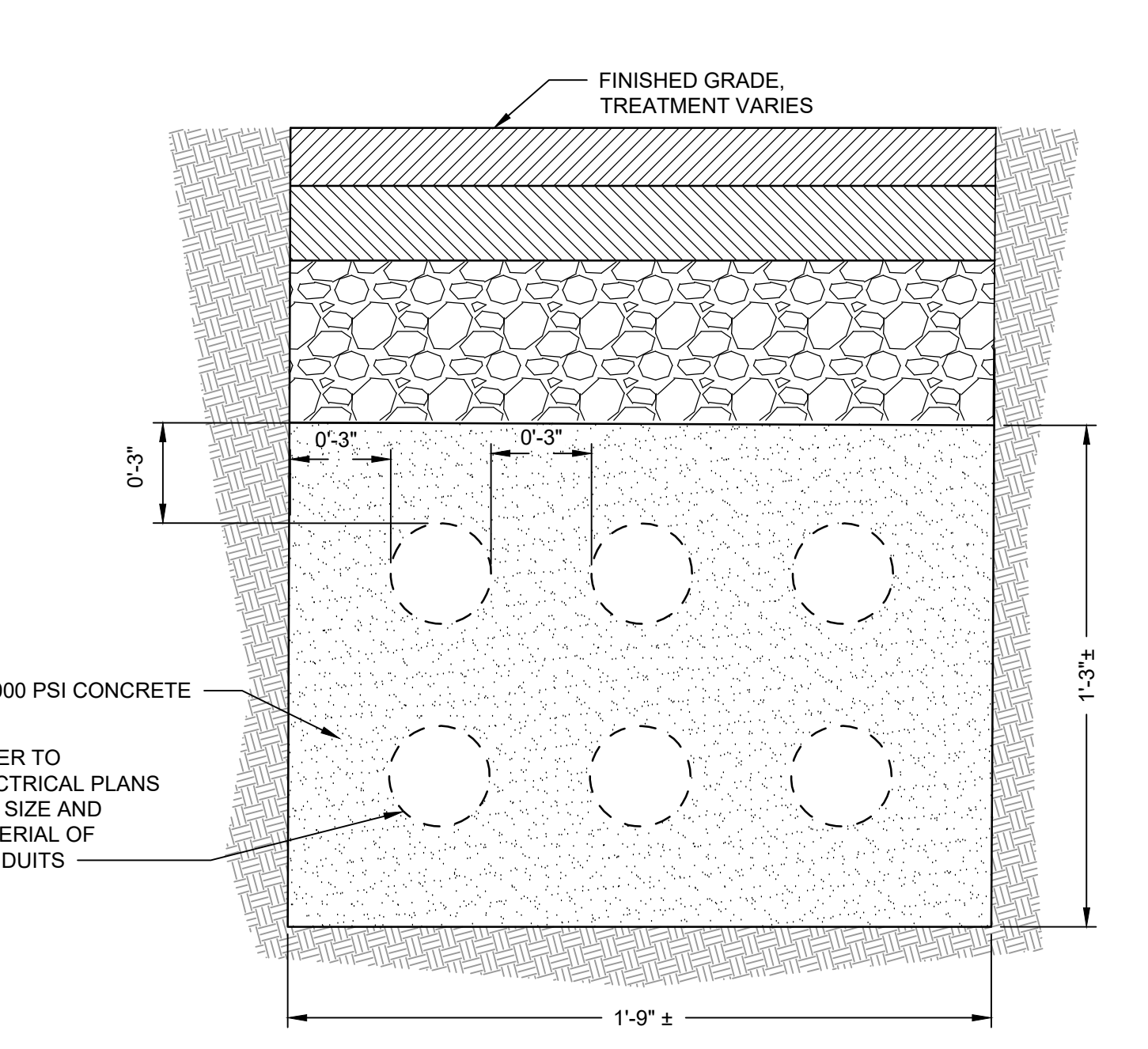
E4 STEAM TUNNEL
NTS



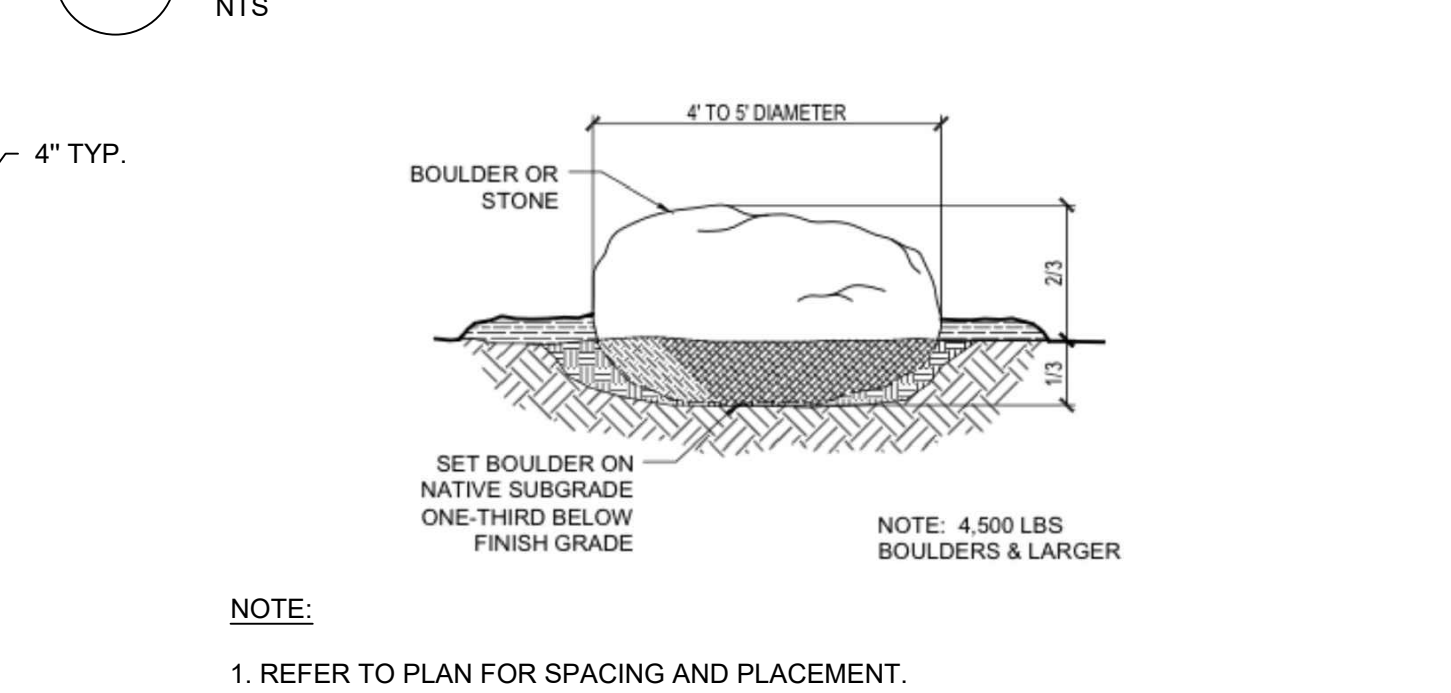
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F4 DRIVEN POST CONSTRUCTION FENCE
NTS

ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024
Revisions:	Date:

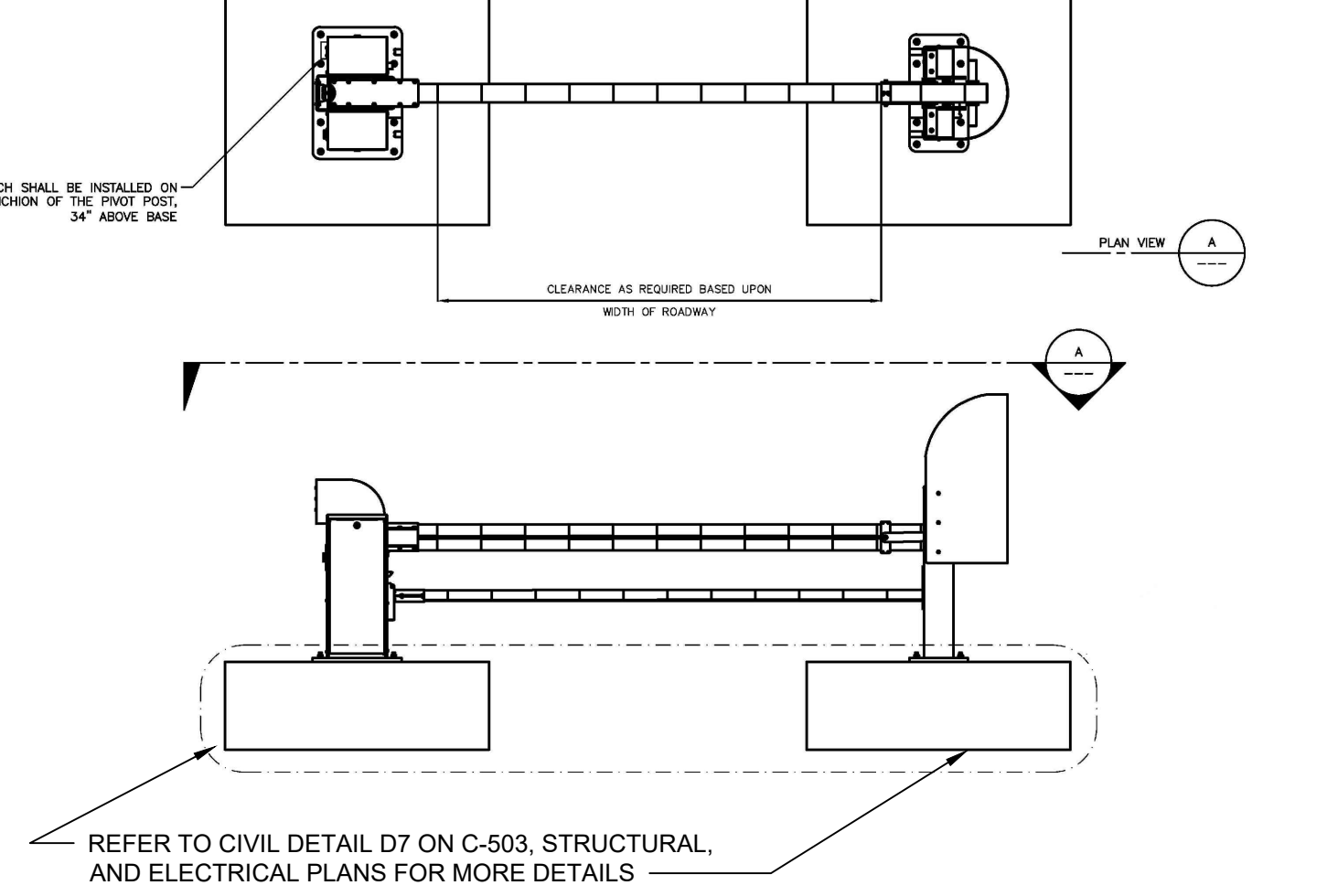


B5 DUCT BANK
NTS



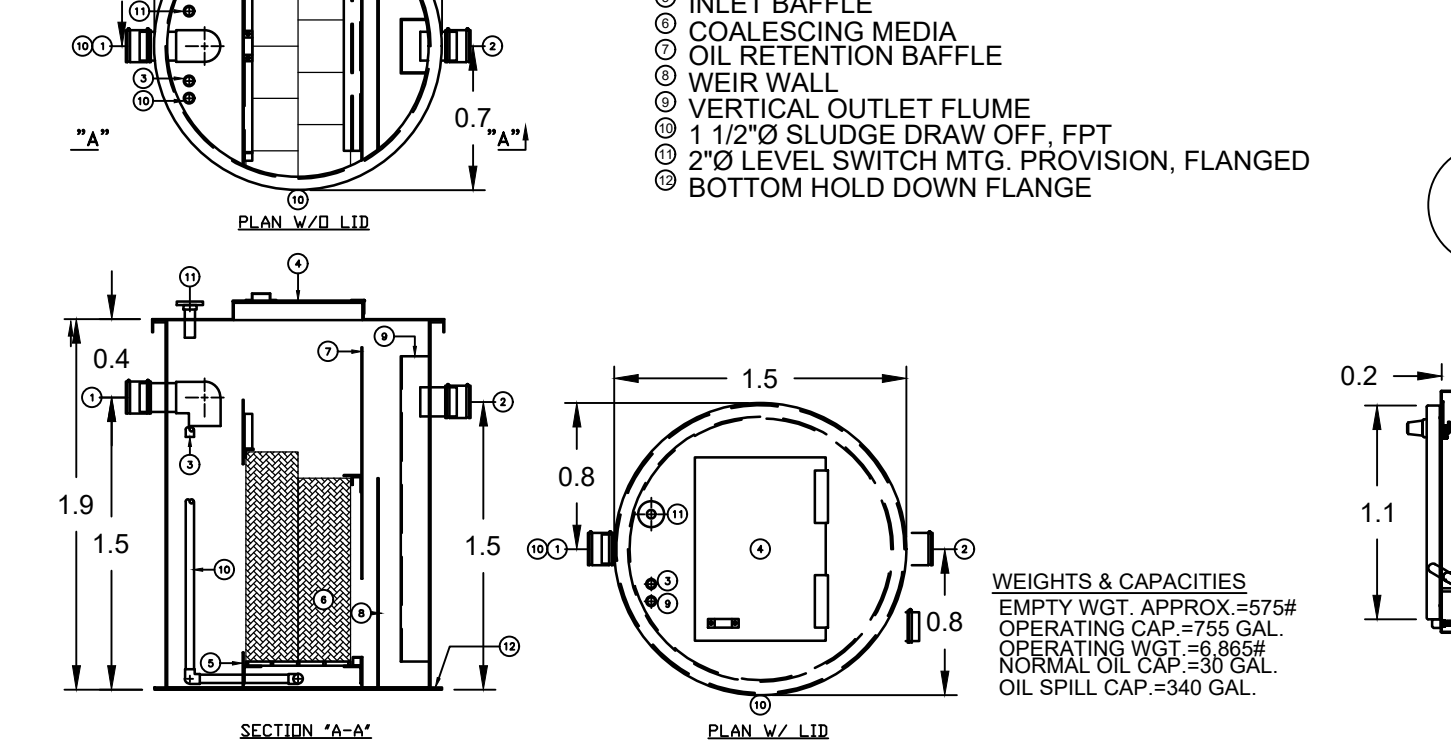
- NOTE:**
- REFER TO PLAN FOR SPACING AND PLACEMENT.

D5 LARGE BOULDER
NTS



- NOTES:**
- ALL TRENCHES IN ARTERIAL AND COLLECTOR STREETS SHALL BE BACKFILLED AND TEMPORARILY PAVED OR STEEL PLATED AT THE END OF EACH WORKING DAY.
 - TRAFFIC CONTROL TO MEET THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - BACKFILL MATERIAL TO BE PLACED IN 6" MAX. LIFTS AT 95% COMPACTION.
 - CONCRETE PAVEMENT REPLACEMENT AND REINFORCEMENT SHALL BE CONSTRUCTED PER CITY OF SIOUX FALLS STANDARD PRACTICES.
 - PAVEMENT ON ALL TRENCH EXCAVATIONS WITHIN 5' OF THE GUTTER PAN SHALL BE REMOVED TO THE PAN.
 - WHEN WEATHER CONDITIONS PREVENT USING SELECT NATIVE FILL, CRUSHED QUARTZITE MATERIAL (ROCK DUST) MAY BE USED FOR BACKFILL WITH CITY ENGINEER'S APPROVAL. COMPACTION REQUIREMENTS MUST BE FOLLOWED FOR CRUSHED QUARTZITE MATERIAL.

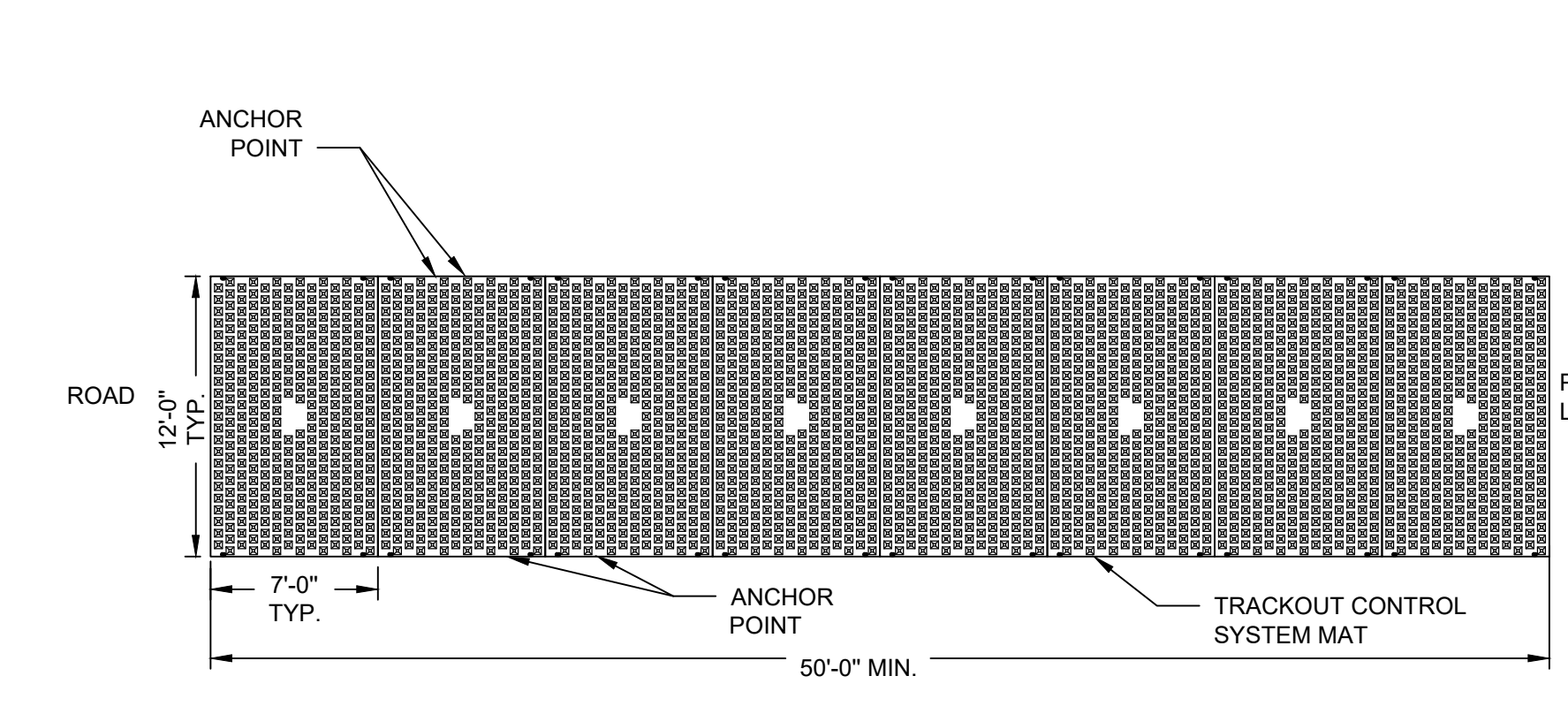
D7 TYPICAL CURB INLET PROTECTION
NTS



- NOTES:**
- REMOTE FUEL FILL STATION TO BE MOUNTED ON STAINLESS STEEL STAND WITH LEGS.

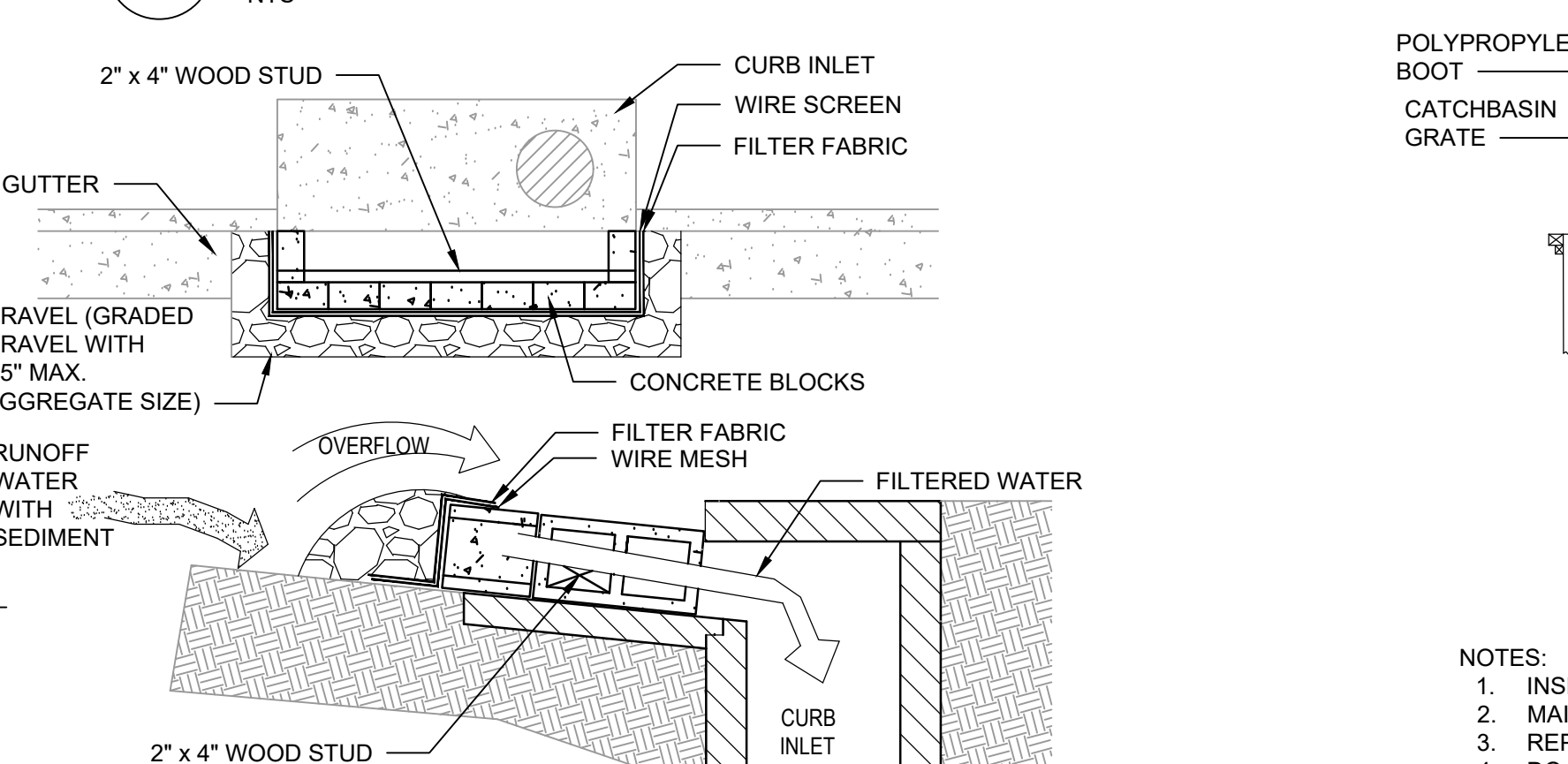
F7 REMOTE FUEL BOX - REAR INLET
NTS

ADDENDUM 2 (NO CHANGES TO THIS SHEET)	09-12-2024
ADDENDUM 1 (NO CHANGES TO THIS SHEET)	08-09-2024
Revisions:	Date:



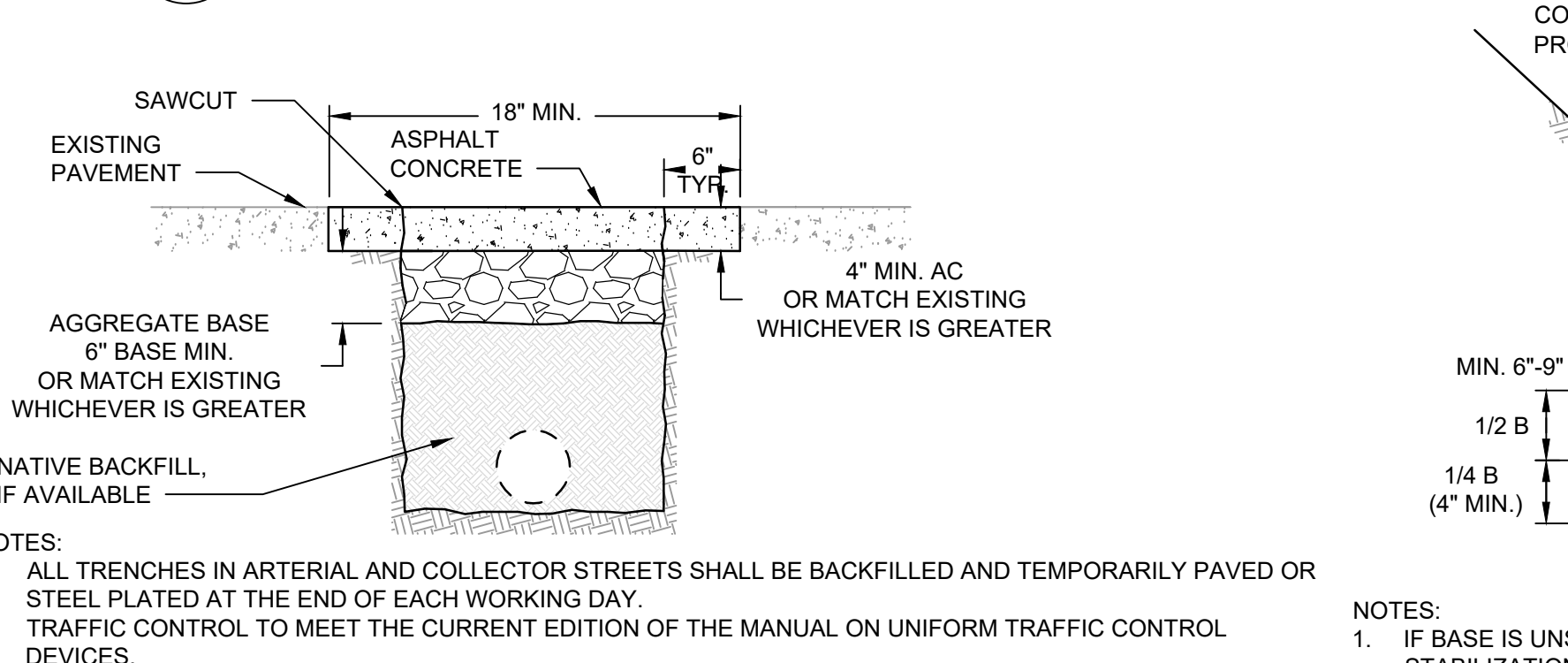
- NOTES:**
- ONCE THE SITE IS ESTABLISHED WHERE TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
 - THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
 - AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
 - AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT.
 - ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
 - NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
 - UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
 - SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

B7 CONSTRUCTION ENTRANCE
NTS



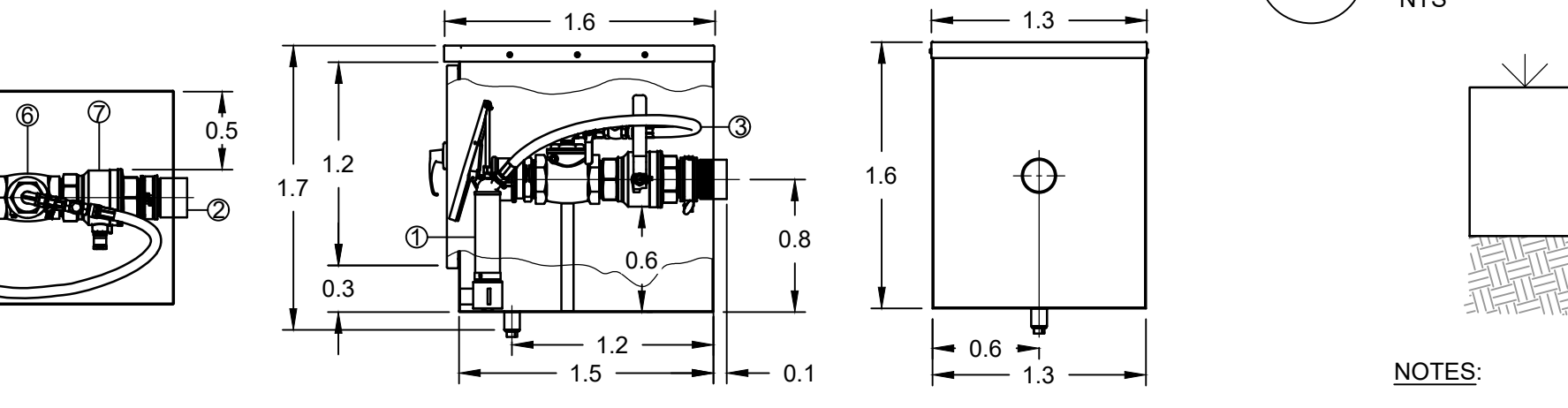
- NOTES:**
- INSPECT AT MINIMUM WEEKLY OR AFTER RAIN EVENT.
 - REPLACE SILT SACKS ONCE THE BAG IS FILLED HALF WAY WITH DEBRIS.
 - DO NOT EMPTY SILT SACK CONTENTS INTO CATCH BASIN.

D9 TYPICAL CATCH BASIN INLET PROTECTION
NTS



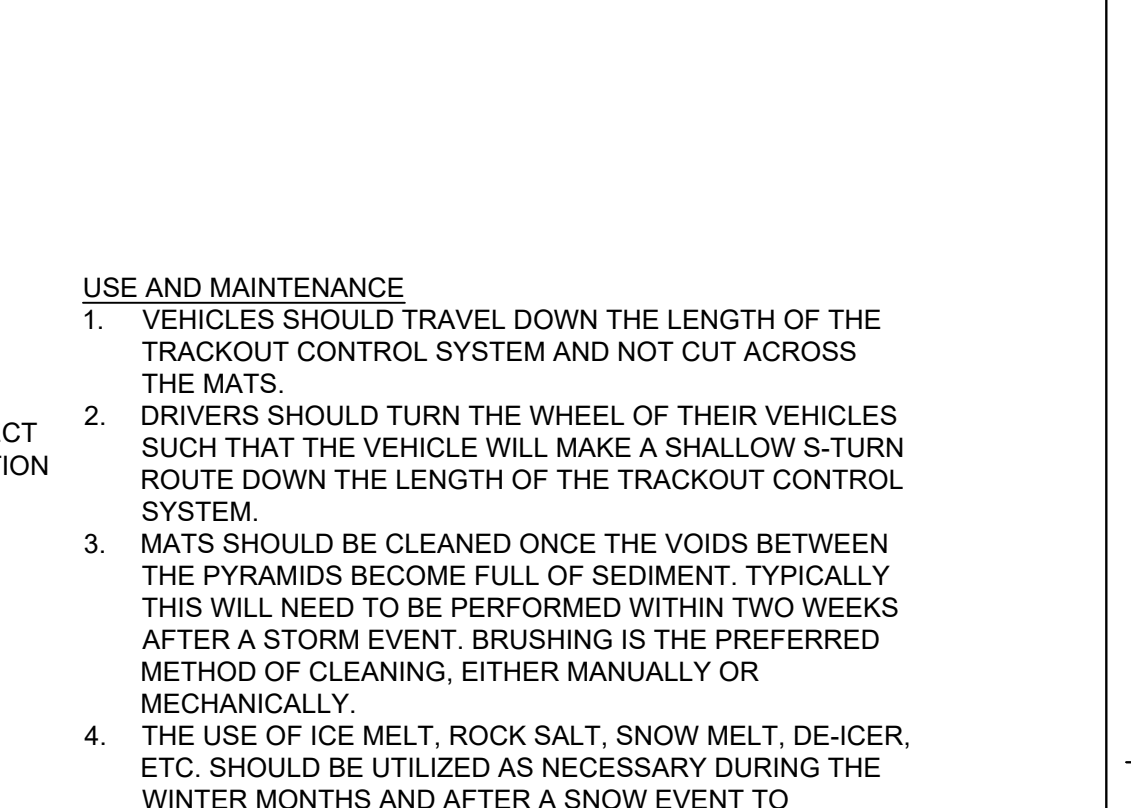
- NOTES:**
- COMPACT TOPSOIL TO 4" MINIMUM.
 - COMPACT SUBGRADE TO 85% PROCTOR.
 - SOD.

E9 UTILITY TRENCH - 4" TO 12" SANITARY SEWER
NTS



- NOTES:**
- COMPACT TOPSOIL TO 4" MINIMUM.
 - COMPACT SUBGRADE TO 85% PROCTOR.
 - SOD.

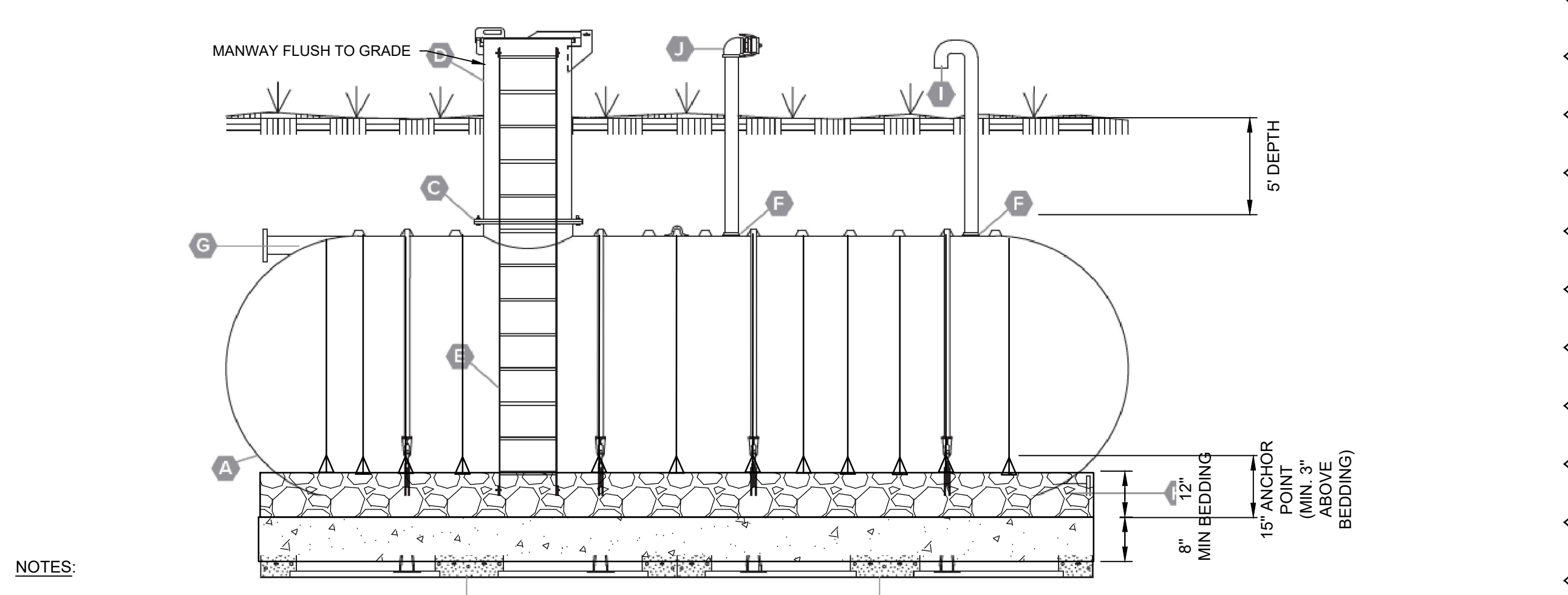
F8 LAWN SECTION
NTS



- USE AND MAINTENANCE**
- VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
 - DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM.
 - MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
 - THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

1 CIVIL DETAILS
Scale: NTS

CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
Mabbett	paradigm	ROBERT B. BLANKENHORN, JR. CIVIL No. 49371	U.S. Department of Veterans Affairs	CIVIL DETAILS	100% CONSTRUCTION DOCUMENT SUBMISSION	SIOUX FALLS BOILER PLANT	438-22-900
ADDENDUM 2 (NO CHANGES TO THIS SHEET)	ADDENDUM 1 (NO CHANGES TO THIS SHEET)	Revisions:	Revisions:	Approved: Project Director	FULLY SPRINKLERED	Location	Building Number
09-12-2024	08-09-2024	Date:	Date:			VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	12
						Issue Date	Drawing Number
						08-09-2024	CK501
						Checked	15 OF 17
						RBB	
						Drawn	
						EG	

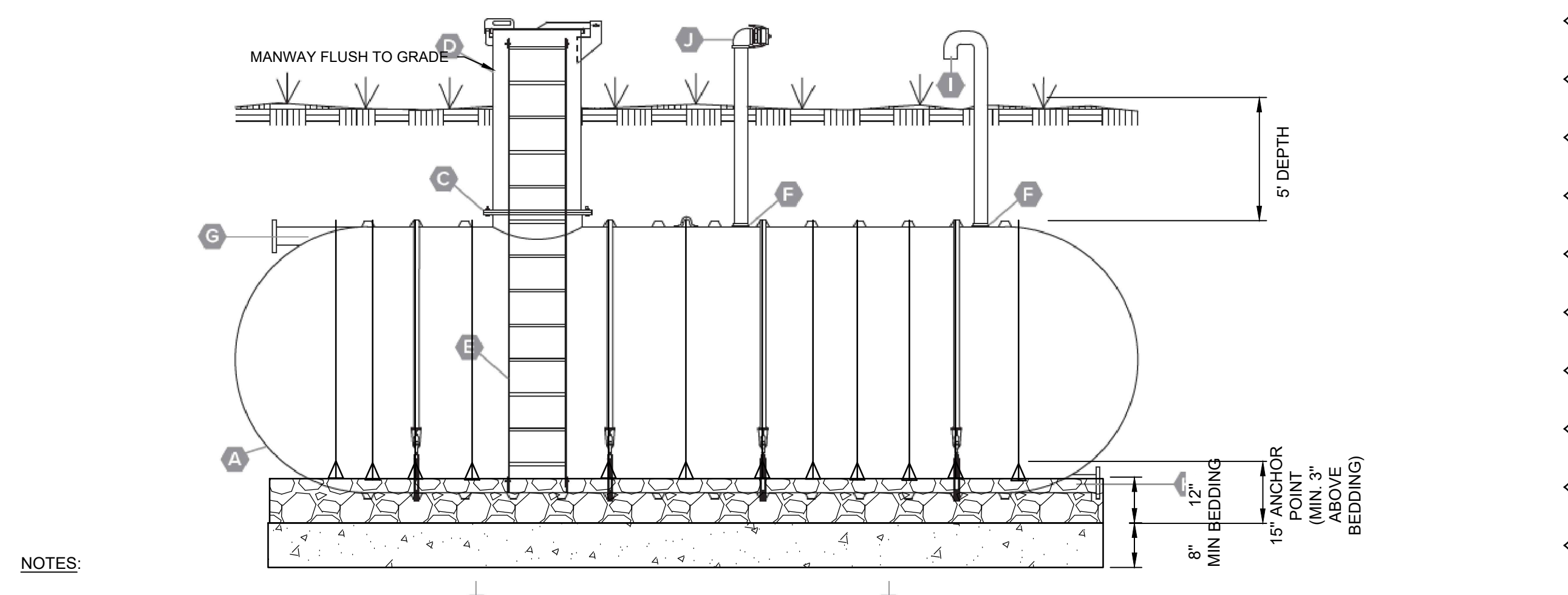


NOTES:

1. TANKS TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.

CODE	DESCRIPTION	D	30" Manway Extension Access with Hinged and Lockable Top (UV Protected)	H	6" NSF-Approved Tangential Full Bottom Drain Nozzle
A	Xerxes Single-Wall FRP Storage Tank	E	NSF-Approved FRP Ladder	I	4" Vent Pipe with Gooseneck and Bug Screen
B	CONCRETE SLAB 58' X 15' X 8"	F	4" NPT Service Fitting	J	4" Auxiliary Fill with CAM Lock Connection
C	30" Manway	G	6" NSF-Approved Tangential Nozzle		

B1 WATER TANK - 40,000 GALLONS
NTS

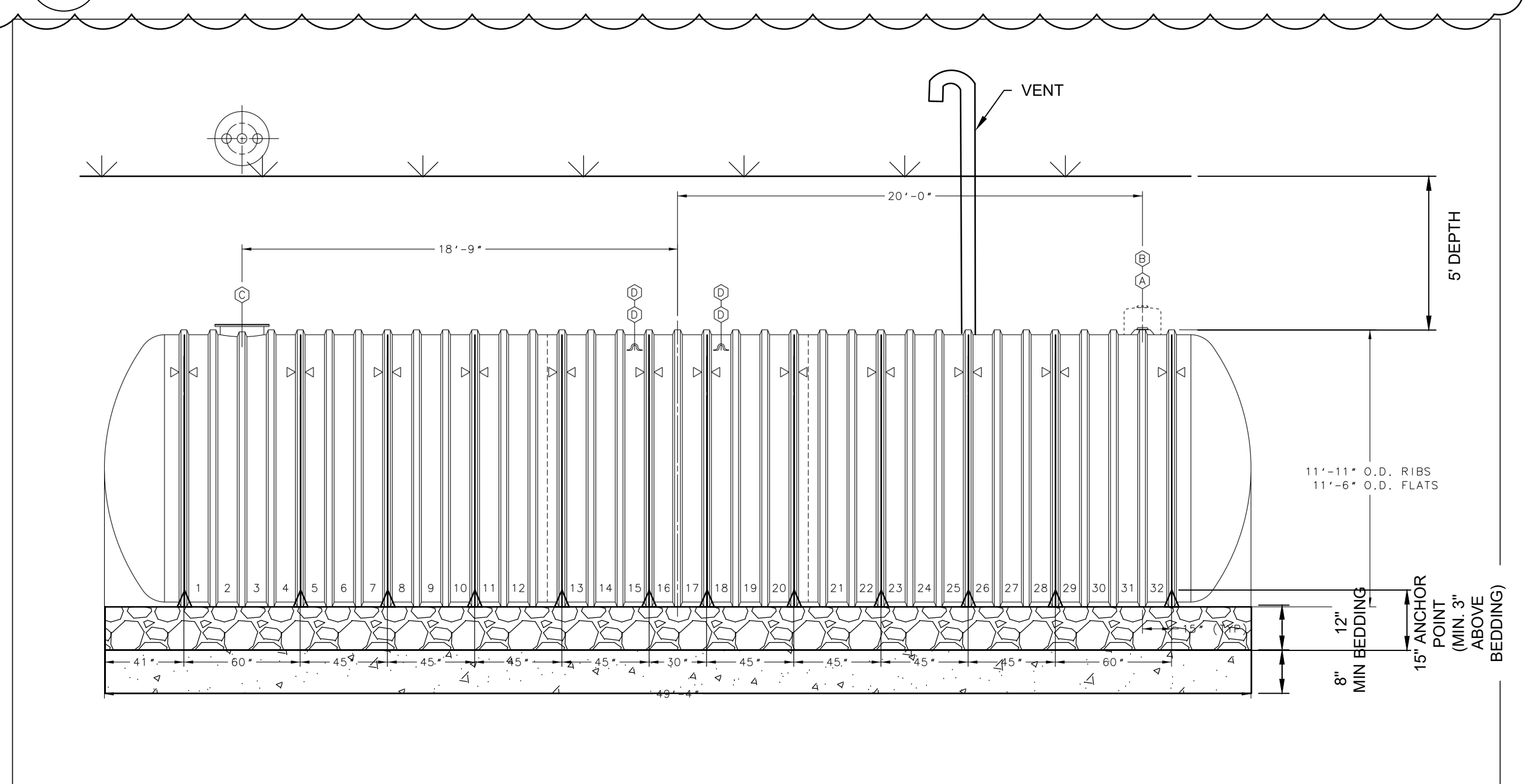


NOTES:

1. TANKS TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.

CODE	DESCRIPTION	D	30" Manway Extension Access with Hinged and Lockable Top (UV Protected)	H	6" NSF-Approved Tangential Full Bottom Drain Nozzle
A	Xerxes Single-Wall FRP Storage Tank	E	NSF-Approved FRP Ladder	I	4" Vent Pipe with Gooseneck and Bug Screen
B	CONCRETE SLAB 53' X 15' X 8"	F	4" NPT Service Fitting	J	4" Auxiliary Fill with CAM Lock Connection
C	30" Manway	G	6" NSF-Approved Tangential Nozzle		

D1 WATER TANK - 35,000 GALLONS
NTS

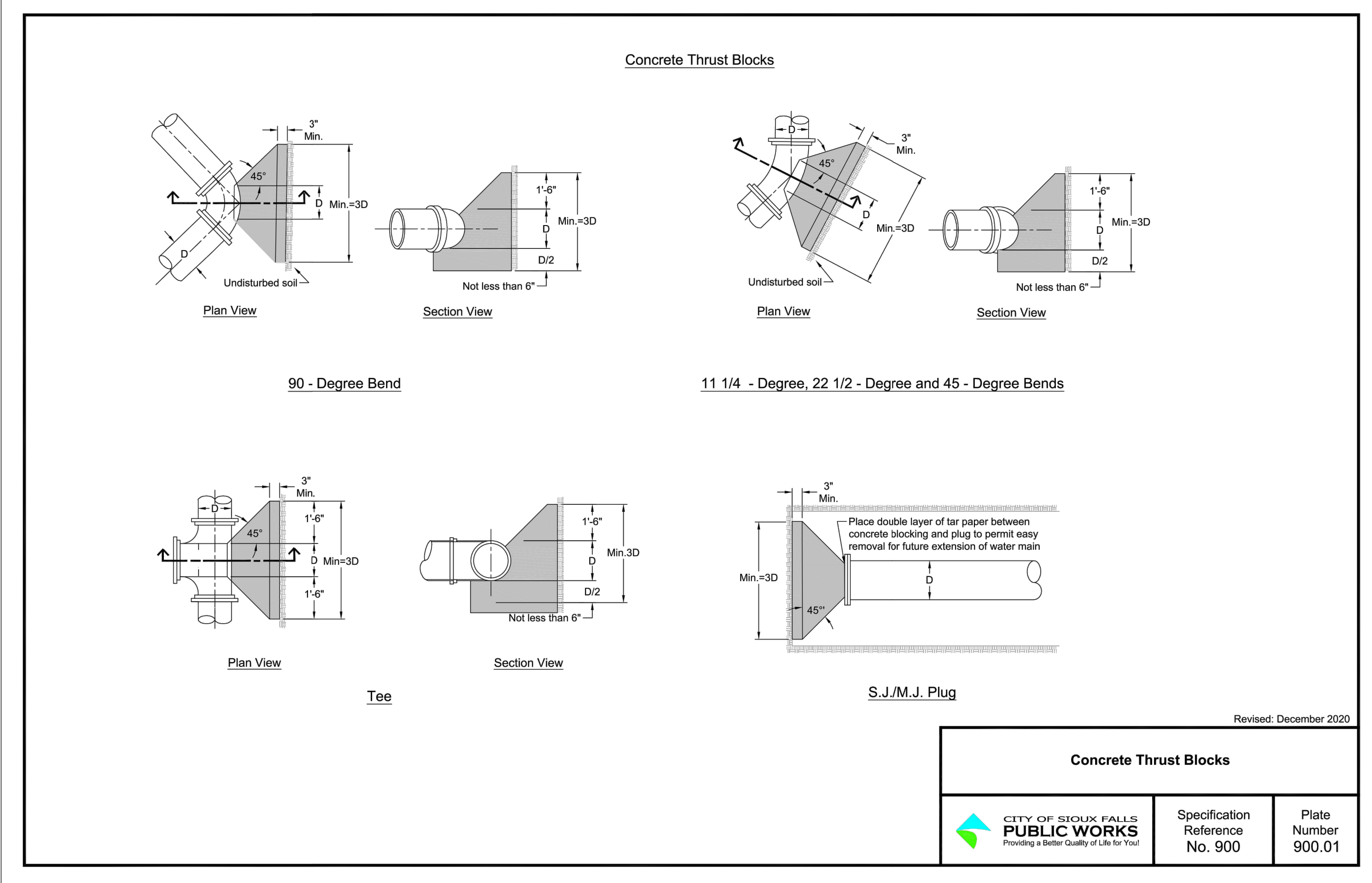


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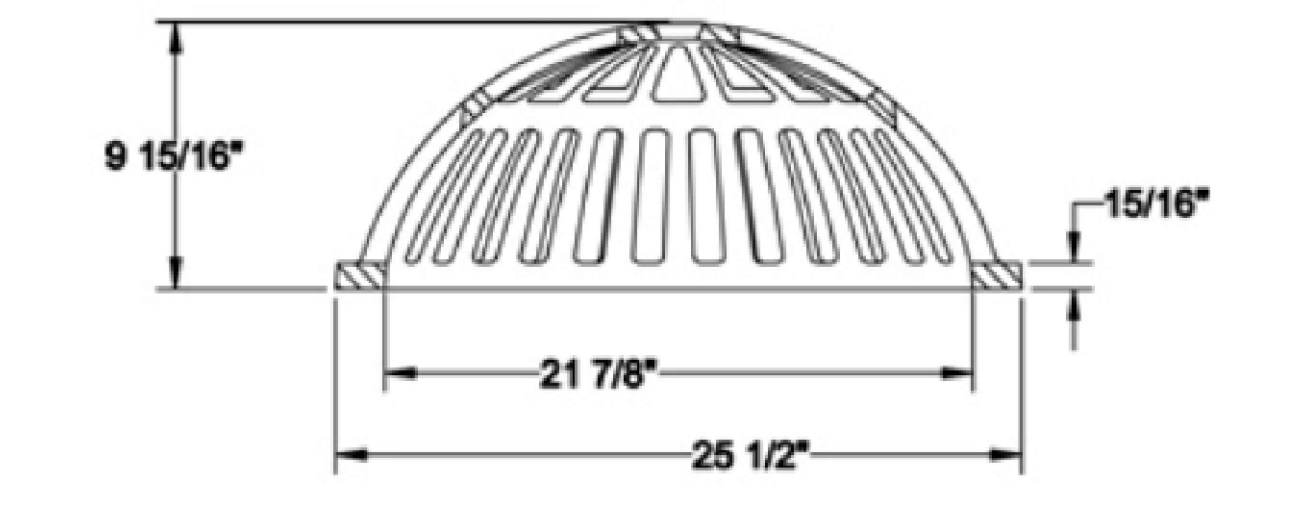
1. TANKS TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.

ITEM	QTY	DESCRIPTION
(A)	1	4" NPT MONITOR FITTING
(B)	1	OPTIONAL 18" DIA. HYDROSTATIC MONITORING RESERVOIR WITH 4" NPT FITTING
(C)	1	22" DIA. MANWAY WITH 3-4" NPT FITTINGS IN COVER & 4-12"x12" STRIKER PLATES
(D)	4	LIFTING LUG
(E)	12	HOLD DOWN STRAP LOCATION

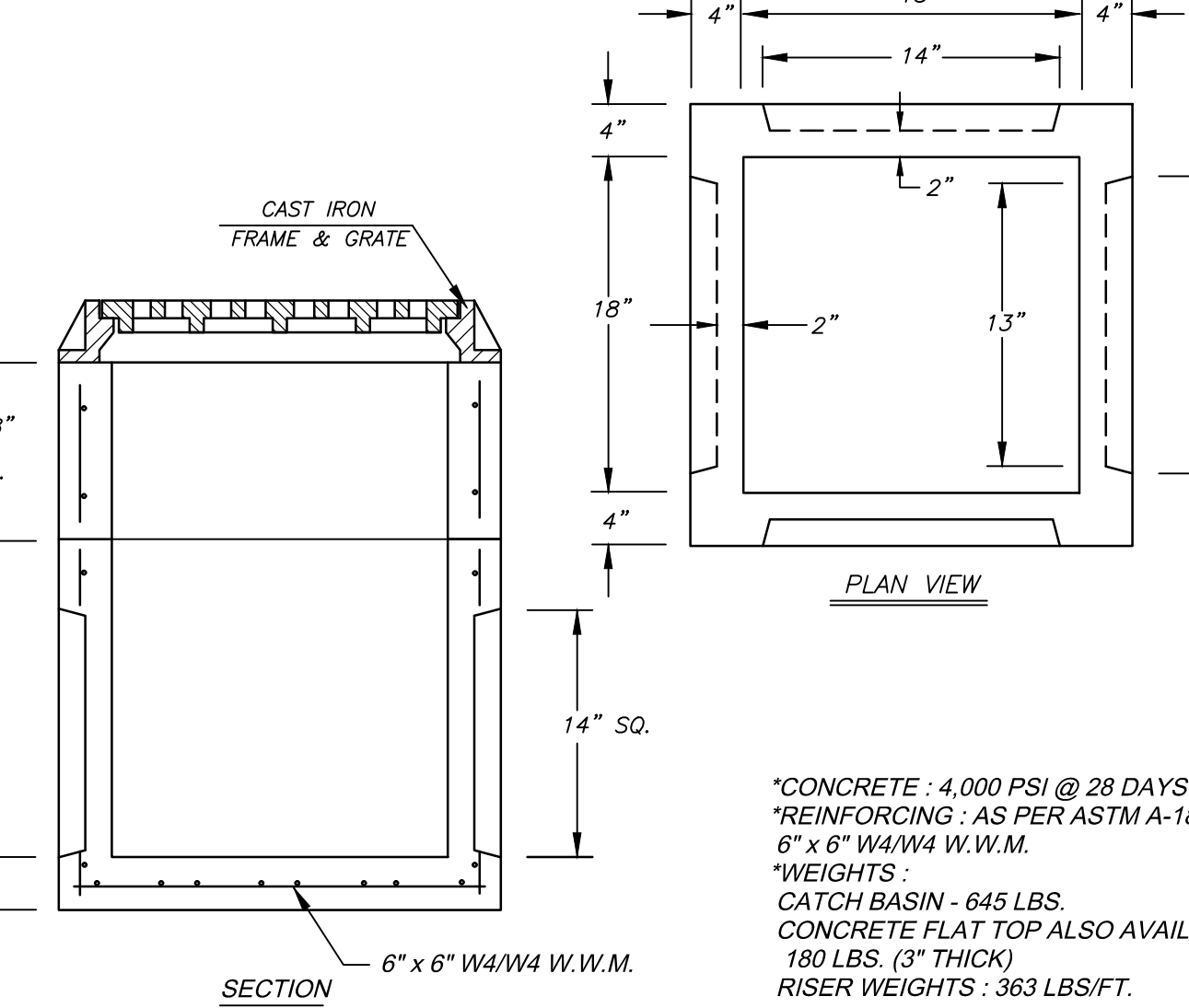
F1 FUEL TANK
NTS



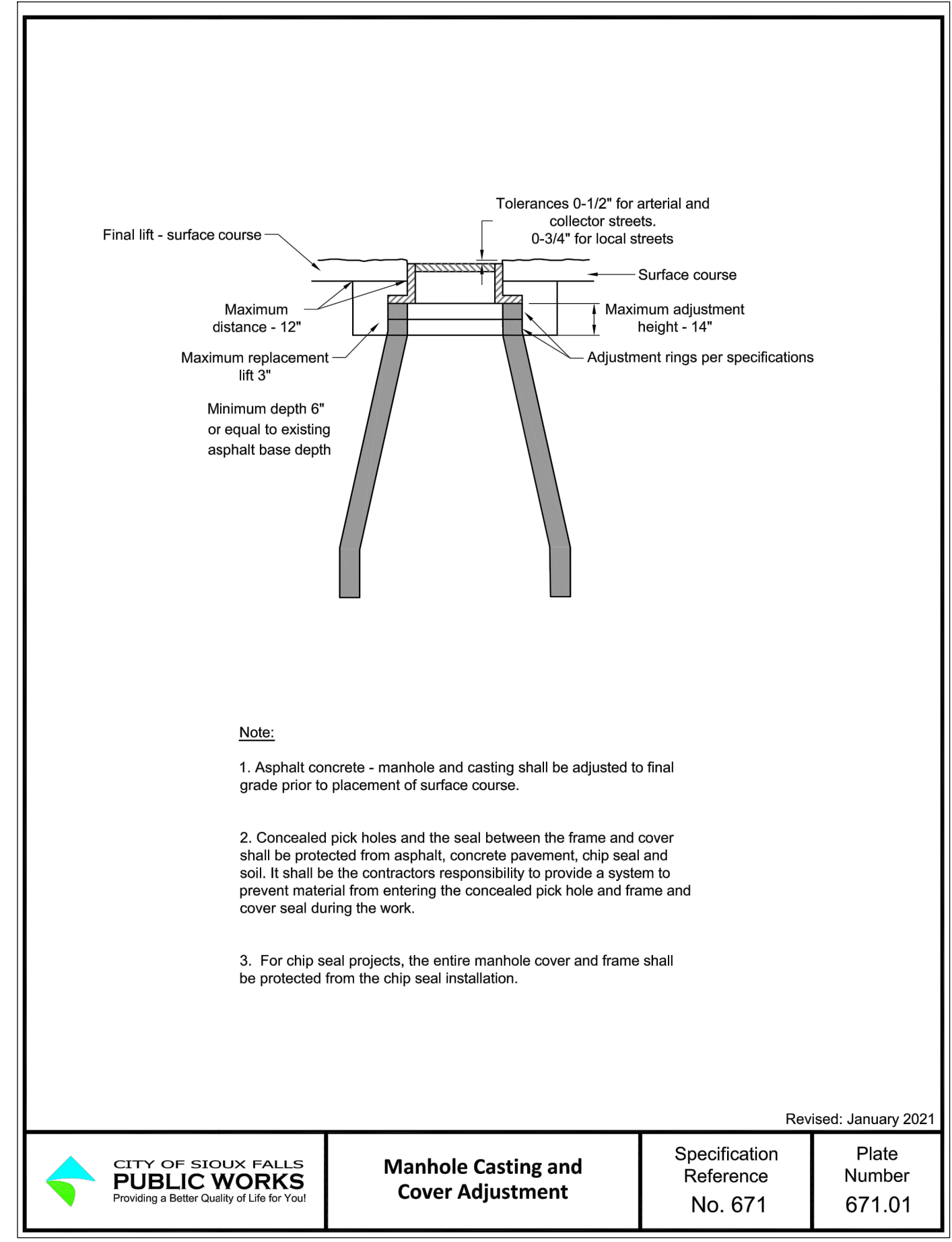
D5 THRUST BLOCKS
NTS



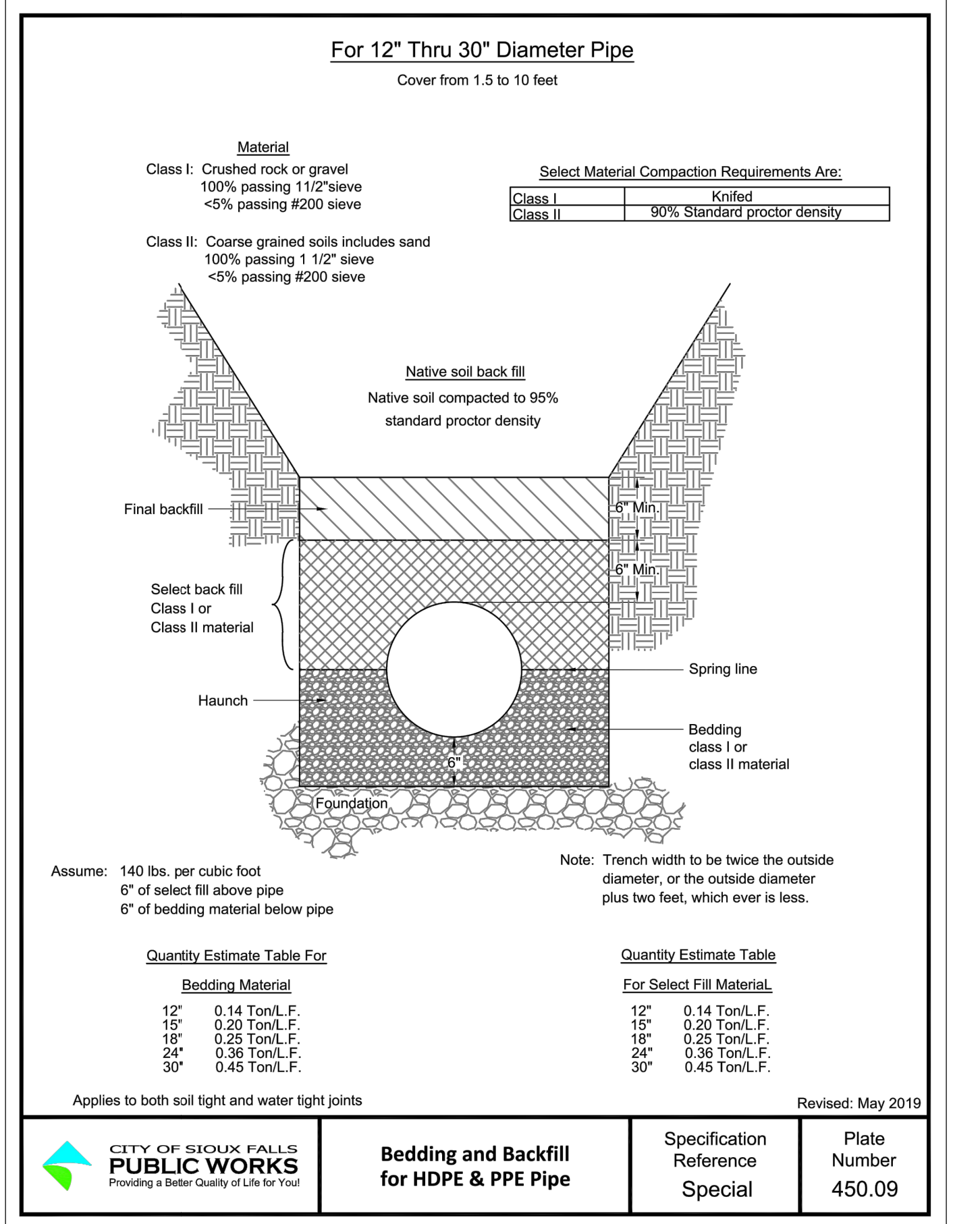
E5 YARD DRAIN
NTS



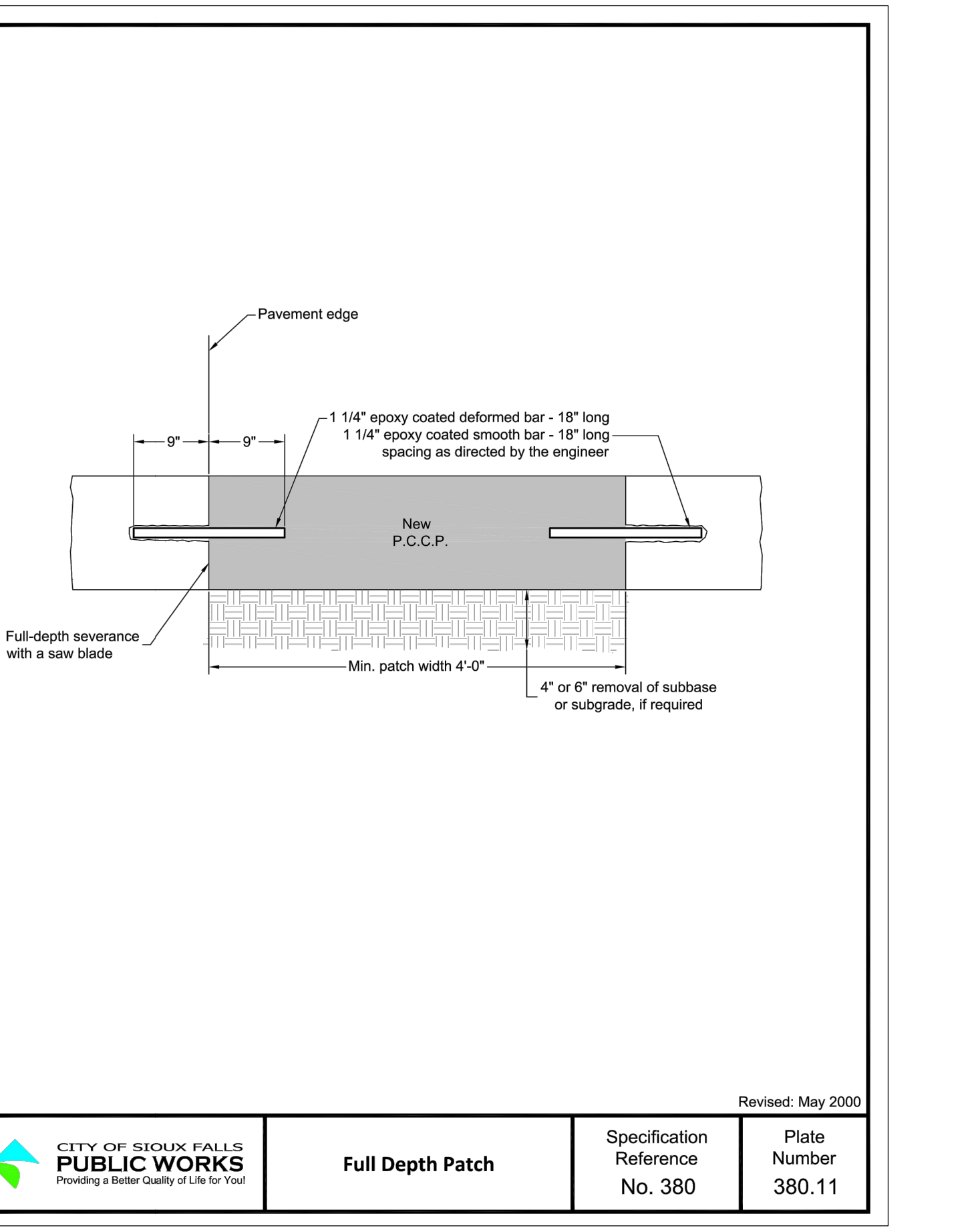
F5 CATCH BASIN
NTS



F7 MANHOLE CASTING / COVER INSTALLATION
NTS



C9 DRAIN PIPE
NTS



F9 TYPICAL PAVEMENT SECTION
NTS

CONSULTANT Mabbett Scientists Engineers Program Managers Mabbett & Associates, Inc. 105 Central Street Stoneham, MA 02180-1248 T. 781-275-6050 www.mabbett.com	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 200 Envoy Circle, Suite 201, Louisville, KY 40299 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title CIVIL DETAILS	Phase 100% CONSTRUCTION DOCUMENT SUBMISSION	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
				Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
Revisions: ADDENDUM 2 (NO CHANGES TO THIS SHEET) 09-12-2024 ADDENDUM 1 08-09-2024	Date:	Issue Date 08-09-2024	Checked RBB	Drawn EG	Drawing Number CK502	16 OF 17	

C1 CONCRETE WASHOUT FACILITY

Notes:

- Concrete washout facility shall be installed prior to any concrete placement on site.
- A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the CWF.
- The concrete washout facility shall be repaired and enlarged or cleaned out as necessary to maintain capacity for washed concrete.
- When CWF are no longer required for the work, the hardened concrete and materials used to construct the CWF shall be removed and disposed of.
- When the concrete washout facility is removed, the holes, depressions or other ground disturbance shall be backfilled, repaired and stabilized.
- ALLOW WASHED OUT CONCRETE MIXTURE TO HARDEN THROUGH EVAPORATION OF THE WASTEWATER. ONCE THE FACILITY HAS REACHED 70 PERCENT OF ITS CAPACITY, REMOVE THE HARDENED CONCRETE AND SURRENDERED TO A STATE OF SOUTH DAKOTA OR CITY OF SIOUX FALLS APPROVED WASTE CONCRETE COLLECTION SITE. THE CONTRACTOR SHALL DISCHARGE NO WASTE OR UNUSED CONCRETE ONTO VA PROPERTY DUE TO WASHING OF CONCRETE CONTAINERS.

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Washout Facility	Specification Reference No. 734	Plate Number 734.28
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C3 WATER MAIN

Pipe Size Diameter	Trench Width	Trench Height	Trench Area	Pipe Area	Water Main Bedding Mat. Area	Water Main Bedding Mat. Total LF
4"	28"	16"	3.11 Sq Ft.	0.9 Sq Ft.	3.02 Sq Ft.	0.21
6"	30"	18"	3.75 Sq Ft.	2.0 Sq Ft.	3.55 Sq Ft.	0.25
8"	32"	20"	4.44 Sq Ft.	3.5 Sq Ft.	4.10 Sq Ft.	0.29
10"	34"	22"	5.19 Sq Ft.	5.5 Sq Ft.	4.85 Sq Ft.	0.33
12"	36"	24"	6.00 Sq Ft.	7.9 Sq Ft.	5.22 Sq Ft.	0.37
16"	40"	28"	7.78 Sq Ft.	1.40 Sq Ft.	6.38 Sq Ft.	0.45
20"	44"	32"	9.78 Sq Ft.	2.18 Sq Ft.	7.60 Sq Ft.	0.53
24"	48"	36"	12.00 Sq Ft.	3.14 Sq Ft.	8.86 Sq Ft.	0.62
30"	56"	42"	17.50 Sq Ft.	4.91 Sq Ft.	12.59 Sq Ft.	0.88

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Water Main Bedding	Specification Reference No. 900	Plate Number 900.11
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C5 DRAIN MANHOLE

Table A: Depth vs Wall Thickness

Depth (inches)	Wall Thickness (inches)
24 Thru 84	3/16
90 Thru 96	1/4

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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A-20814 INDICATOR POSTS NOMINAL INSTALLATION DIMENSIONS

C1 CONCRETE WASHOUT FACILITY

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Washout Facility	Specification Reference No. 734	Plate Number 734.28
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C3 WATER MAIN

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Water Main Bedding	Specification Reference No. 900	Plate Number 900.11
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C5 DRAIN MANHOLE

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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B7 WALL MOUNTED PIV

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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C9 PAVEMENT SECTION

Revised: February 2004

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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F1 CONCRETE STEAM MANHOLE WITH TYP. PIPING

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Steam Manhole with Typical Piping	Specification Reference No. 734	Plate Number 734.28
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F3 SINGLE LEAF ACCESS DOOR FOR STEAM TUNNEL

Revised: December 2008

CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Concrete Steam Manhole with Typical Piping	Specification Reference No. 734	Plate Number 734.28
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D5 4-INCH BOLLARD

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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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D7 ARM GATE FOOTING

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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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F6 ACCESSIBLE RAMP

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CITY OF SIOUX FALLS PUBLIC WORKS Providing a Better Quality of Life for You	Sump Pump Collection Fiberglass and PVC Manhole	Specification Reference Special	Plate Number 450.03
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F7 BOLLARD BASE - PAVED AREA

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