

FARGO VA HEALTH CARE SYSTEM
2101 ELM ST , FARGO, NORTH DAKOTA 58102
PROJECT NUMBER: 437-20-104

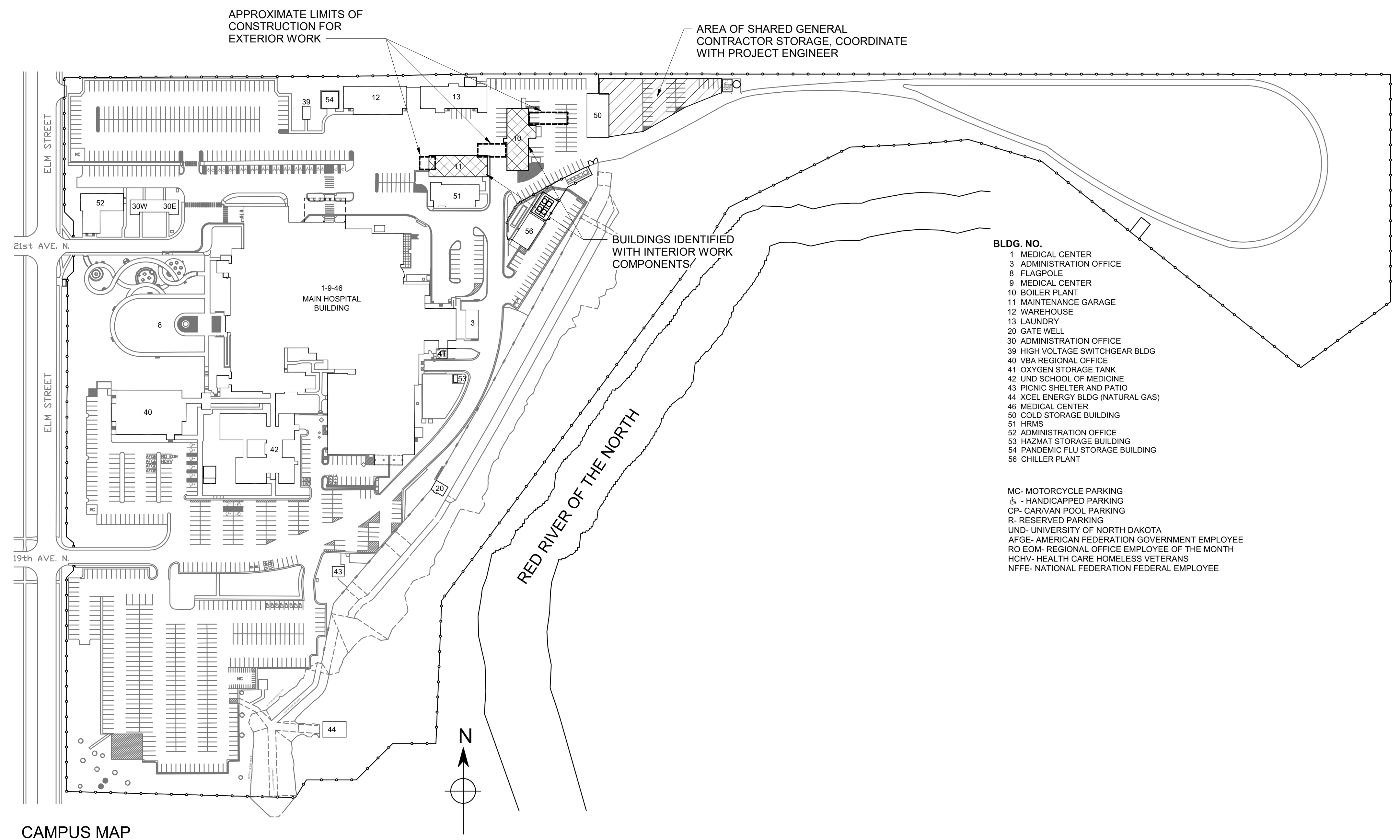
FOURFRONT DESIGN INC.
517 7TH STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE (605) 342-9470

MBN ENGINEERING, INC.
503 7TH STREET NORTH
FARGO, NORTH DAKOTA 58102
PHONE (701) 478-6336


LEGEND TECHNICAL SERVICES
1126 WESTRAC DRIVE
FARGO, NORTH DAKOTA 58103
PHONE (701) 271-6779

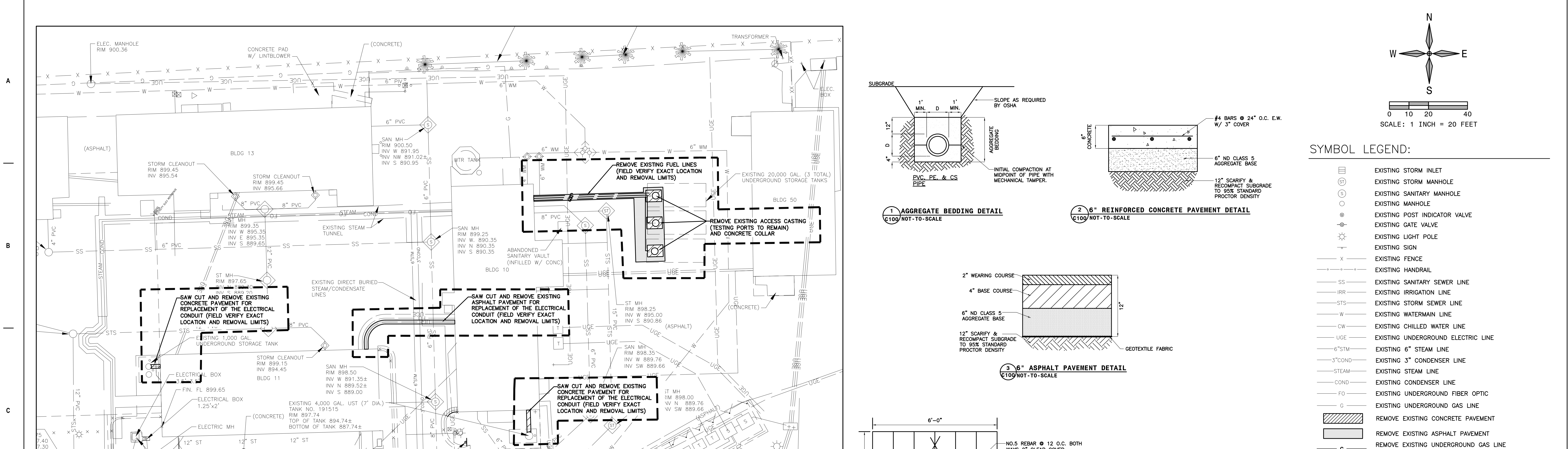
NORTHERN TECHNOLOGIES, LLC.
3522 4TH AVENUE SOUTH
FARGO, NORTH DAKOTA 58103
PHONE (701) 232-1822

SHEET INDEX	
GENERAL	
G000	COVER SHEET, SHEET INDEX AND CAMPUS MAP
CIVIL	
C100	SITE PLAN
MECHANICAL	
M100	MECHANICAL DEMOLITION
M200	MECHANICAL SITE PLAN

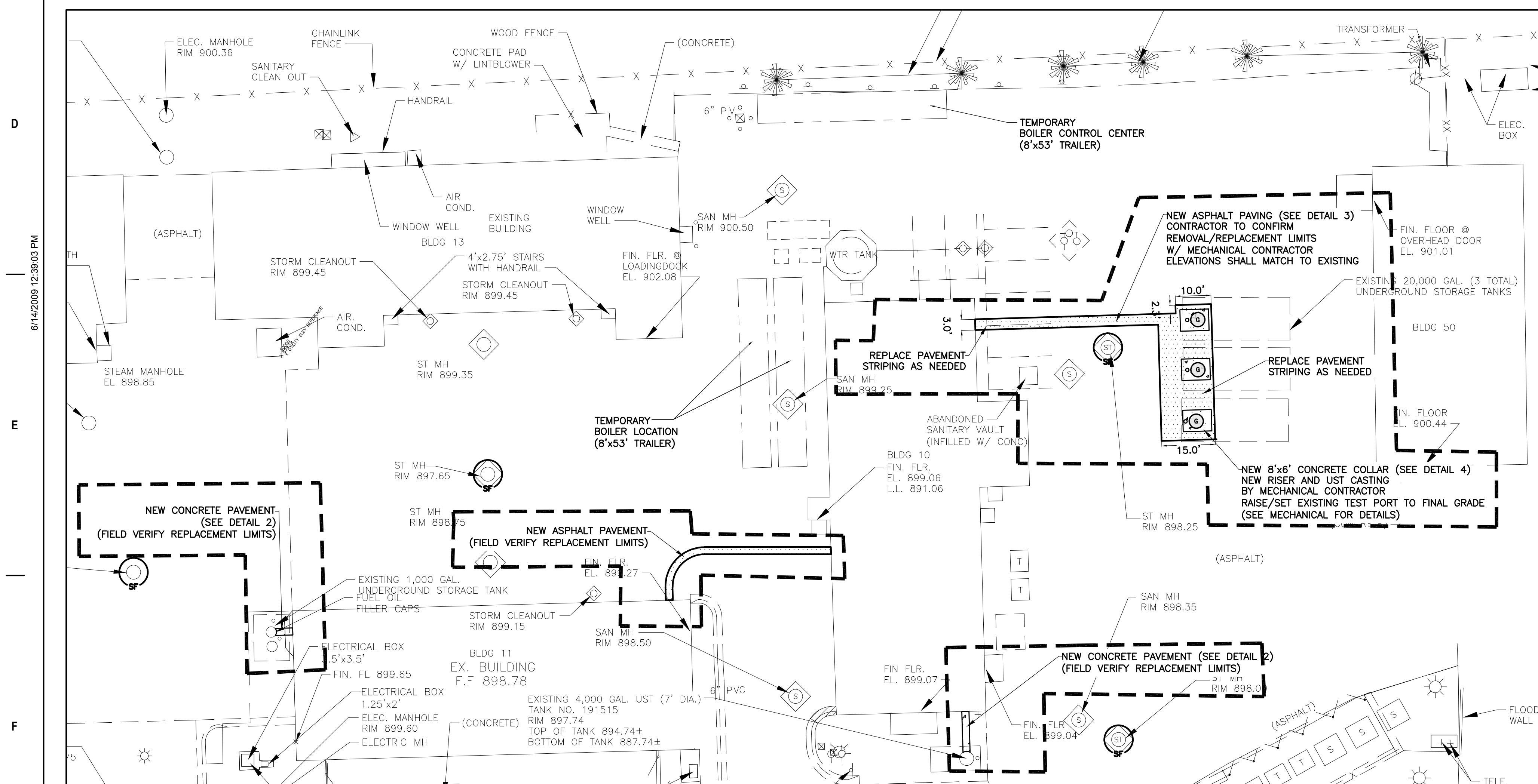


100% BID DOCUMENTS

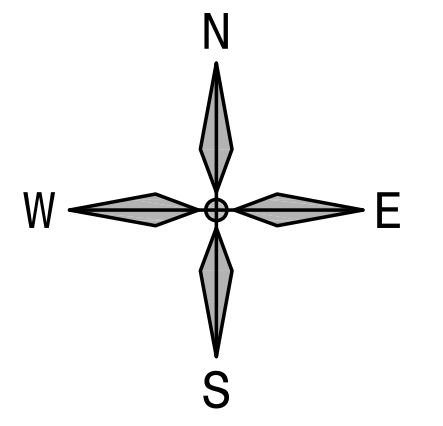
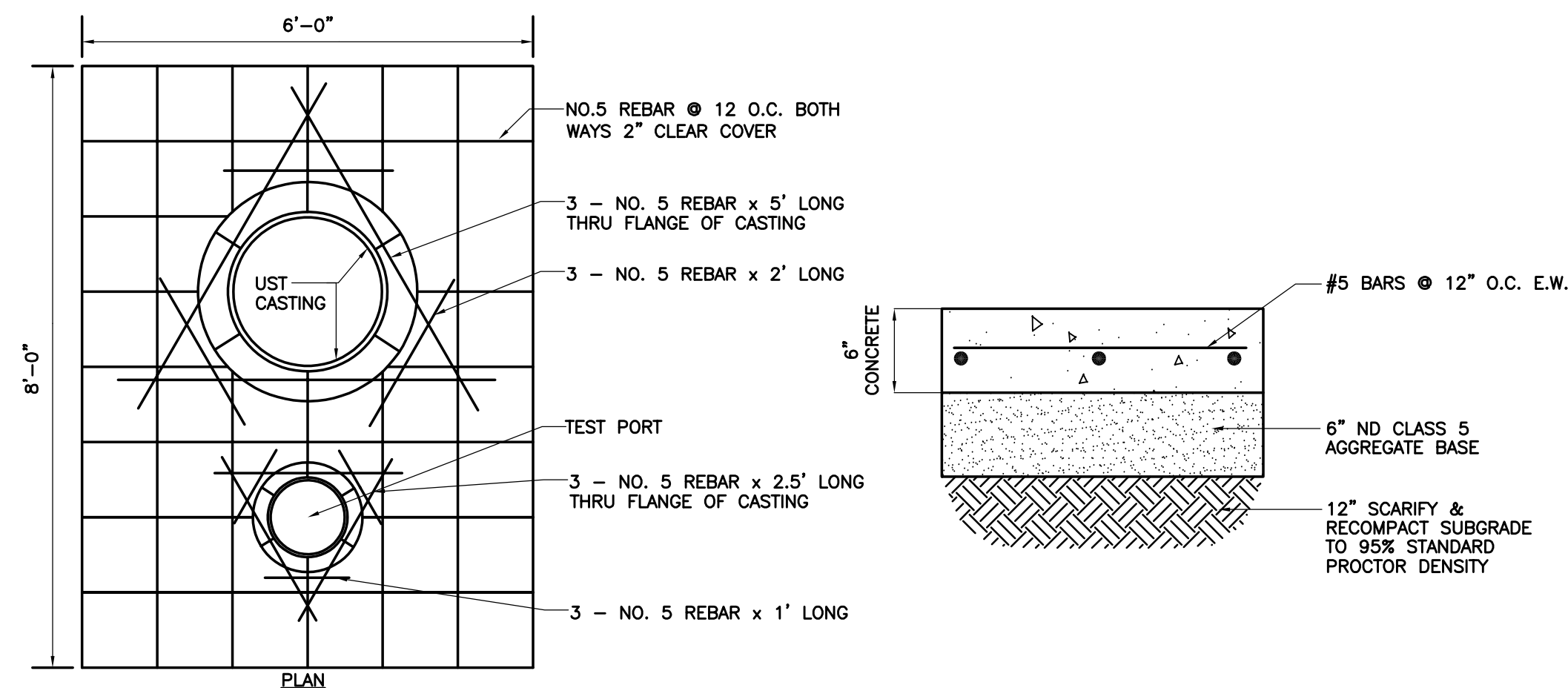
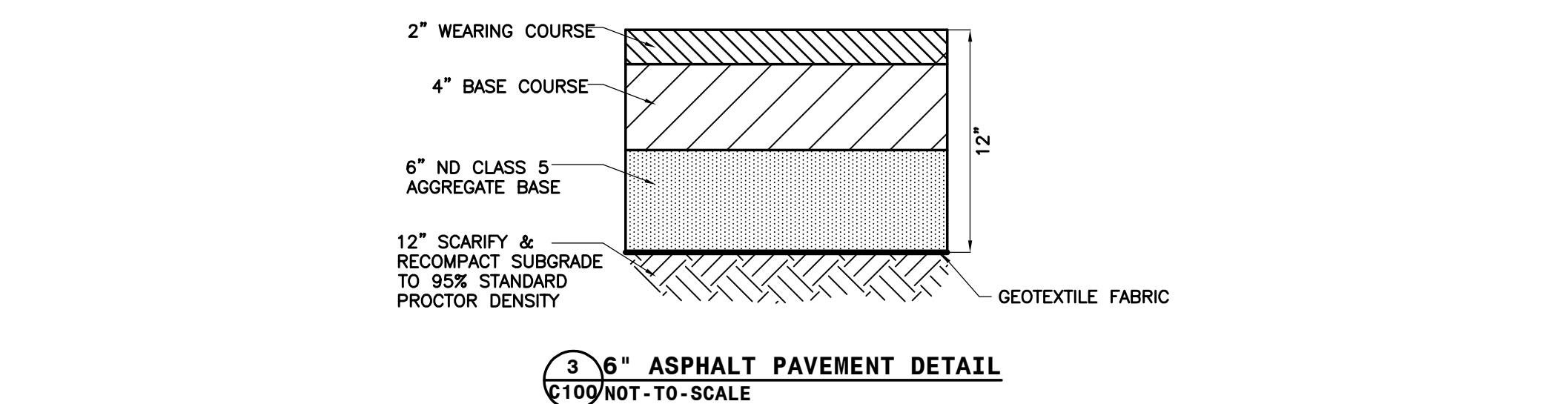
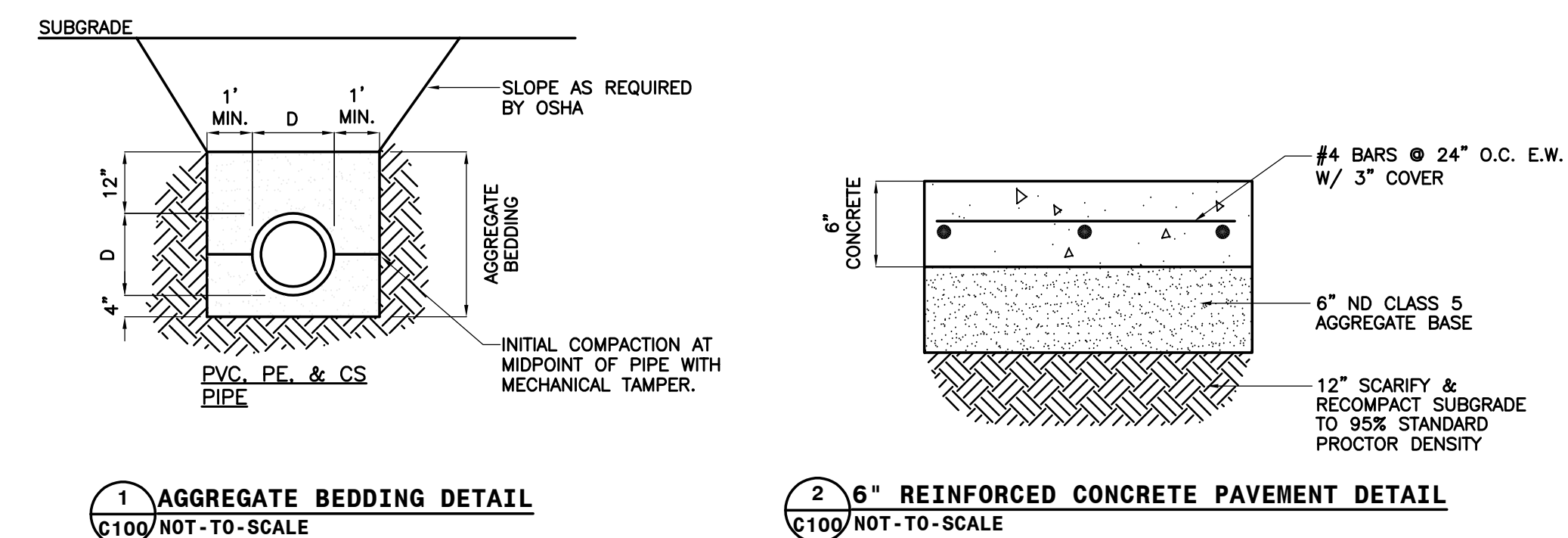
		CONSULTANT		PROJECT MANAGER		STAMP		<div>Office of Construction and Facilities Management</div> <div>  <div>U.S. Department of Veterans Affairs</div> </div>		<div>Drawing Title</div> <div>COVER SHEET, SHEET INDEX AND CAMPUS MAP</div> <div>Approved:</div>		<div>Phase</div> <div>100% BID DOCUMENTS</div>		<div>Project Title</div> <div>REPLACE UST PIPING AND LEAK DETECTION</div>		<div>Project Number</div> <div>437-20-104</div>	
		<div>LEGEND TECHNICAL SERVICES</div> <div>1726 WESTRAC DRIVE</div> <div>FARGO, NORTH DAKOTA 58103</div> <div>PHONE: (701) 271-6779</div>		<div>NORTHERN TECHNOLOGIES, LLC.</div> <div>3522 4TH AVENUE SOUTH</div> <div>FARGO, NORTH DAKOTA 58103</div> <div>PHONE: (701) 232-1822</div>		<div>MBN ENGINEERING, INC.</div> <div>503 7TH STREET NORTH</div> <div>RAPID CITY, SOUTH DAKOTA 57701</div> <div>PHONE: (605) 342-9470</div>						<div>Building Number</div> <div>SITE / 10</div>		<div>Drawing Number</div> <div>G000</div> <div>Dwg. 1 of 4</div>			
<div>Revisions:</div>		<div>Date:</div>															



DEMOLITION PLAN



PAVING PLAN



0 10 20 40
SCALE: 1 INCH = 20 FEET

SYMBOL LEGEND:

- EXISTING STORM INLET
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING MANHOLE
- EXISTING POST INDICATOR VALVE
- EXISTING GATE VALVE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING FENCE
- EXISTING HANDRAIL
- EXISTING SANITARY SEWER LINE
- EXISTING IRRIGATION LINE
- EXISTING STORM SEWER LINE
- EXISTING WATERMAIN LINE
- EXISTING CHILLED WATER LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING 6\"/>
- EXISTING 3\"/>
- EXISTING STEAM LINE
- EXISTING CONDENSER LINE
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING UNDERGROUND GAS LINE
- REMOVE EXISTING CONCRETE PAVEMENT
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING UNDERGROUND GAS LINE (SEE MECHANICAL FOR DETAILS)
- NEW 6\"/>
- NEW 6\"/>
- NEW UST CASTING AND RISER (SEE MECHANICAL)
- SCOPE AREA LIMITS
- STORM INLET PROTECTION

PLAN NOTES:

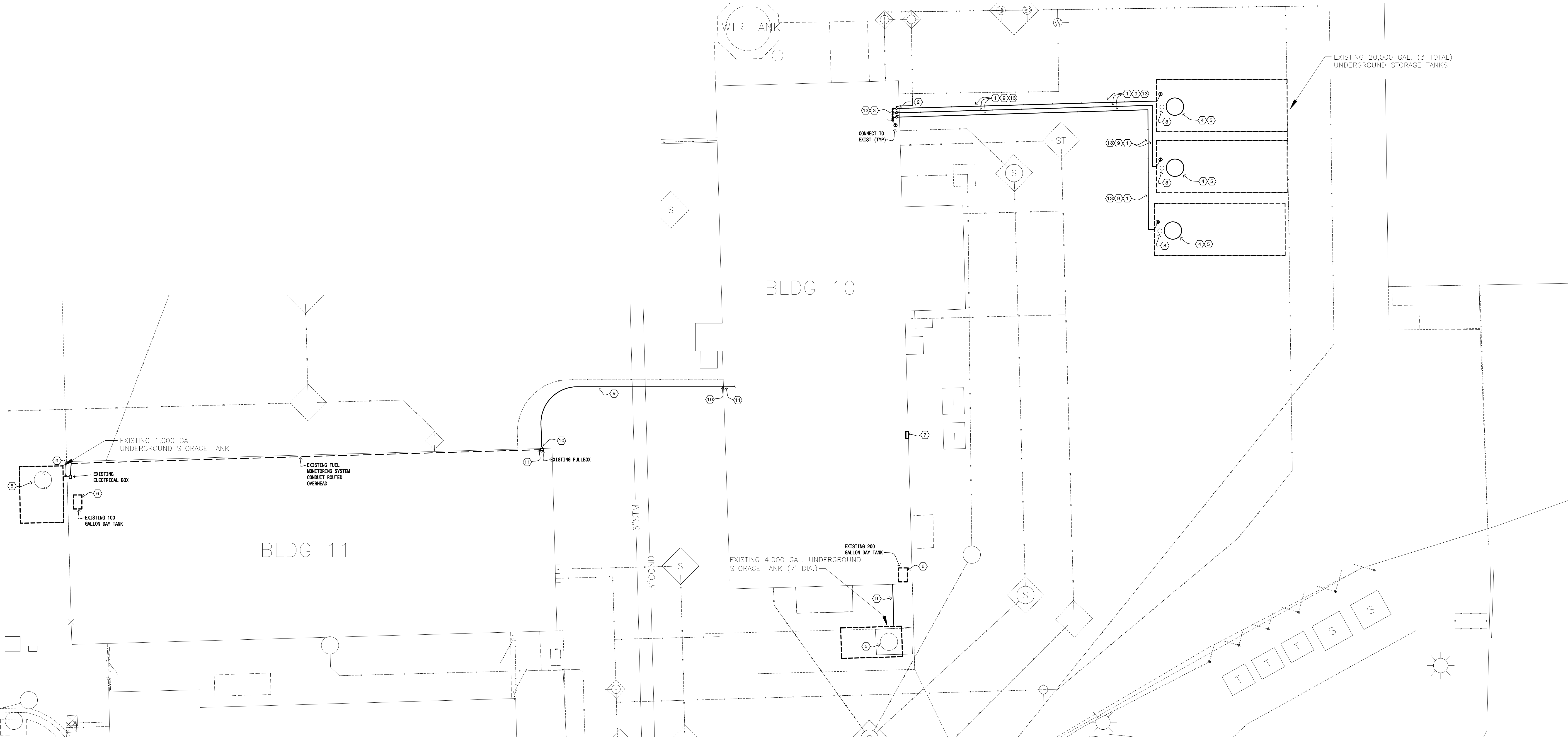
- CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON-SITE UTILITIES. ONCE UTILITIES HAVE BEEN LOCATED AND MARKED, THE CONTRACTOR SHALL SUBMIT FOR A DIG PERMIT FROM THE FARGO VA.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. AT LEAST ONE LANE OF TRAFFIC OR DETOUR SHALL BE COORDINATED PRIOR TO START OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS AND FENCING FOR PUBLIC SAFETY AND TRAFFIC CONTROL.
- CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
- ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.

Title Sheet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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6/14/2008 12:39:03 PM

File Path



- PLAN NOTES:
- 1. PROVIDE NEW UNDERGROUND 1" ALARM WIRING CONDUIT, 1-1/2" FUEL OIL SUPPLY AND 1-1/2" FUEL OIL RETURN PIPING. PREP AREA FOR NEW FUEL OIL AND VENT PIPING. (TWO PIPES TOTAL FOR EACH FUEL TANK, ONE FUEL OIL SUPPLY AND ONE FUEL OIL RETURN). INSTALL PIPING AT SAME ELEVATION TO REMOVED PIPING. BACKFILL PIPES AND PROVIDE NEW BEDDING AND COVER FILL. REFER TO CIVIL PLANS FOR ADDITIONAL NOTES. PREPARE AREAS FOR INSTALLATION OF NEW PIPING.
 - 2. ROUTE NEW 2" VENT PIPES UP EXTERIOR WALL AT SAME LOCATION AS REMOVED OLD VENT PIPING. TERMINATE AT EXISTING HEIGHTS (APPROX 20' ABOVE GRADE). OMIT THIS WORK UNDER DEDUCT ALTERNATE #2.
 - 3. ROUTE NEW 1-1/2" FOS & FOR THROUGH EXISTING WALL. PROVIDE NEW WATER TIGHT LINK SEAL AT WALL PENETRATIONS. CONNECT 3 FOS PIPES INTO ONE HEADER AND CONNECT TO EXISTING FOS PIPING AT EXISTING ELBOW. CONNECT 3 FOR PIPES INTO ONE HEADER AND CONNECT TO EXISTING FOR PIPING AT EXISTING ELBOW. PROVIDE ISOLATION VALVES (WITH UNIONS) AT EACH OF THE 3 FOS & 3 FOR PIPES BEFORE CONNECTION TO THE HEADER. CONTRACTOR TO FIELD VERIFY EXISTING PIPING LAYOUTS.
 - 4. PROVIDE NEW FUEL OIL TANK FIBERGLASS MANWAYS/REISERS AND COMPOSITE ACCESS COVERS. PREP TANK FOR CONNECTION TO NEW MANWAYS. PROVIDE NEW PIPE BOOTHS ON MANWAY FOR PIPING AND CONDUIT CONNECTIONS. EXISTING MANWAYS ARE APPROXIMATELY 42" DIA. CONTRACTOR TO FIELD VERIFY EXISTING TANK LAYOUTS AND DIMENSIONS AND PROVIDE COMPATIBLE MANWAYS AND COVERS. OMIT THIS WORK UNDER DEDUCT ALTERNATE #1.
 - 5. INSTALL NEW SUMP LEAK, ELECTRONIC LINE LEAK AND TANK MONITOR AT EXISTING TANK. PROVIDE ALL SENSORS AND WIRING AS REQUIRED FOR COMPLETE INSTALLATION OF FUEL MONITORING SYSTEM. PROVIDE NEW UNDERGROUND CONDUITS FOR INSTALLATION OF WIRING AND SENSORS.
 - 6. INSTALL NEW TANK MONITOR AND ELECTRONIC LINE LEAK DETECTION AT THE EXISTING DAY TANK LOCATION. PROVIDE ALL SENSORS AND WIRING AS REQUIRED FOR COMPLETE INSTALLATION OF FUEL MONITORING SYSTEM. PROVIDE NEW UNDERGROUND CONDUITS FOR INSTALLATION OF WIRING AND SENSORS.
 - 7. INSTALL NEW LEAK AND TANK MONITOR CONTROLLER COMPLETE WITH ALL SENSORS AS REQUIRED FOR MONITORING THE SYSTEM. PROVIDE ALL WIRING IN CONDUIT FOR THE SYSTEM AND SENSORS. CONNECT NEW UNIT TO EXISTING POWER WIRING AT THE SAME LOCATION AT REMOVED MONITOR CONTROLLER. EXTEND EXISTING INTERIOR CONDUITS AND CIRCUITS AS REQUIRED FOR COMPLETE INSTALLATION.
 - 8. EXISTING TEST PORTS TO REMAIN. COORDINATE WITH CIVIL CONTRACTOR.
 - 9. PROVIDE NEW BURIED 1" PVC CONDUIT FOR FUEL MONITORING SYSTEM WIRING.
 - 10. TRANSITION CONDUIT TO RIGID AND STUB INTO BUILDING. CORE DRILL EXISTING WALL AS REQUIRED. PROVIDE CONDUIT GUARD EQUAL TO OMEGA OMSB91-WM-12 SERIES, MINIMUM 36" HIGH, PAINTED SAFETY YELLOW.
 - 11. CONNECT NEW CONDUIT TO EXISTING FUEL MONITORING SYSTEM CONDUIT FOR INSTALLATION OF NEW ALARM CONNECTIONS.
 - 12. PROVIDE NEW UNDERGROUND 2" VENT PIPING (ONE PIPE FOR EACH FUEL OIL TANK). OMIT THIS WORK UNDER DEDUCT ALTERNATE #2.
 - 13. FUEL OIL PIPING SHALL BE CAPPED, REMOVED AND INSTALLED IN PHASES TO MAINTAIN A MINIMUM OF 1 SET OF ACTIVE FUEL OIL LINES TO THE BOILERS. USE EXISTING ISOLATION VALVES TO MAINTAIN FUEL OIL SUPPLY IN BOILER ROW UNTIL NEW ISOLATION VALVES CAN BE INSTALLED. TEMPORARY PIPING MAY NEED TO BE INSTALLED TO MAINTAIN FUEL OIL SUPPLY. THE BOILERS MUST HAVE A FUEL OIL SUPPLY DOWN TIMES WITH THE OWNER.

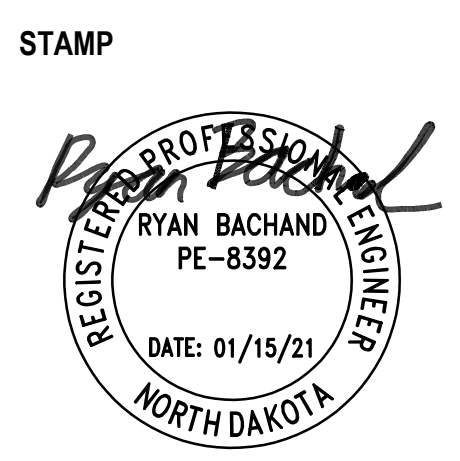
 1 M200 SITE PLAN - FUEL OIL PIPING PLAN SCALE: 1" = 10'-0"

Revisions:	Date:

CONSULTANT		
LEGEND TECHNICAL SERVICES 1126 WESTRAC DRIVE FARGO, NORTH DAKOTA 58103 PHONE: (701) 271-6779	NORTHERN TECHNOLOGIES, LLC. 3522 4TH AVENUE SOUTH FARGO, NORTH DAKOTA 58103 PHONE: (701) 232-1822	MBN ENGINEERING, INC. 503 7TH STREET NORTH FARGO, NORTH DAKOTA 58102 PHONE: (701) 478-6336

PROJECT MANAGER
A/E: FOURFRONT DESIGN, INC. 517 7TH STREET RAPID CITY, SOUTH DAKOTA 57701 PHONE: (605) 342-9470
4F PROJECT NUMBER: 19.2481.M05

STAMP



Office of
Construction
and Facilities
Management

 U.S. Department
of Veterans Affairs

Drawing Title MECHANICAL SITE PLAN
Approved: Project Director

Phase 100% BID DOCUMENTS
-

Project Title REPLACE UST PIPING AND LEAK DETECTION
Location FARGO VA HEALTH CARE SYSTEM
Issue Date JANUARY 15, 2021
Checked RB
Drawn RB

Project Number 437-20-104
Building Number SITE / 10
Drawing Number M200
Dwg. 4 of 4