DEPARTMENT OF VETERANS AFFAIRS
BOSTON HEALTHCARE SYSTEM

Bulk Oxygen Corrections

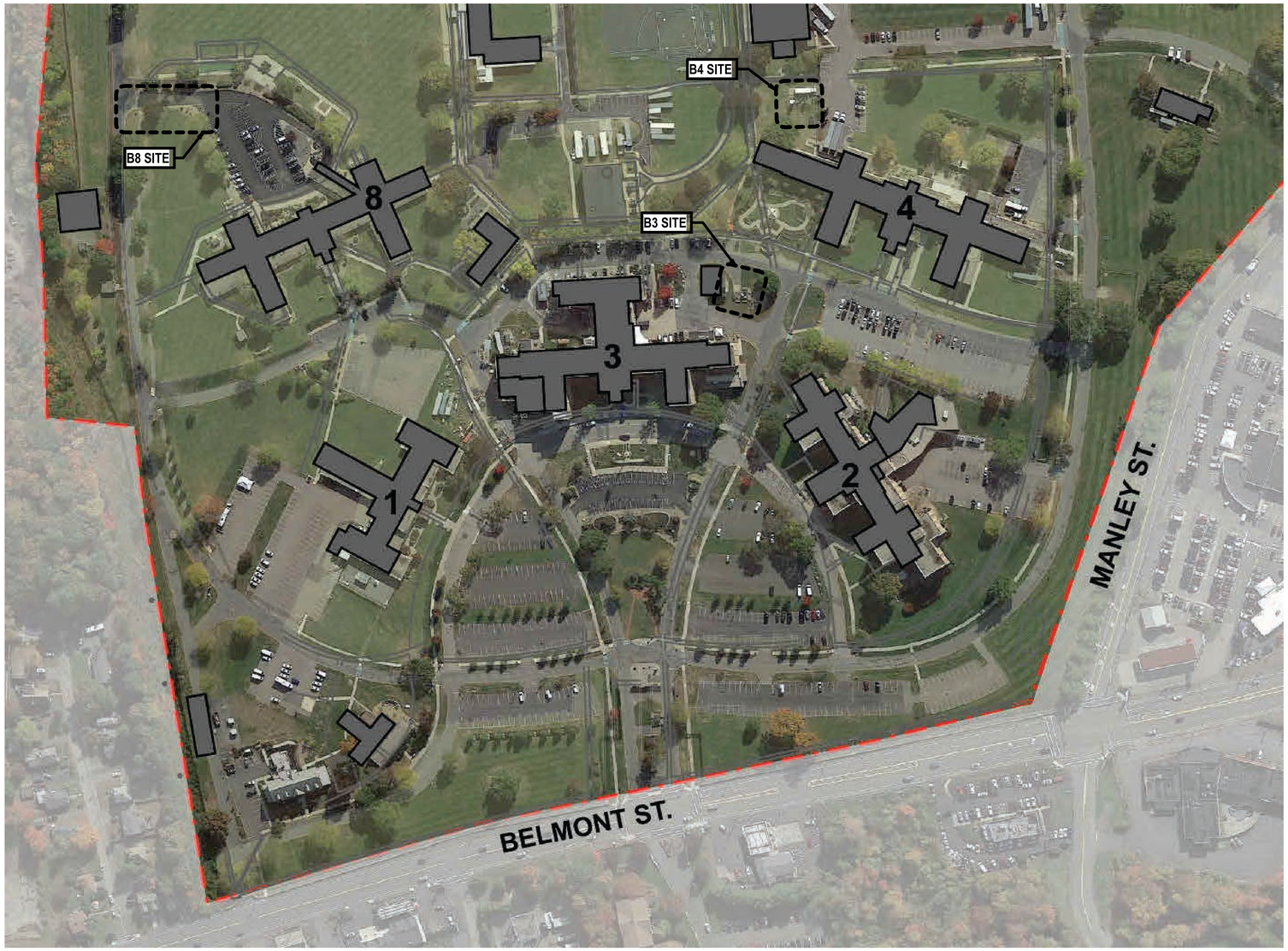
940 Belmont Street, Brockton, MA 02301

CONSTRUCTION DOCUMENTS
VOLUME 1
VAMC BROCKTON

March 26, 2026

VA Project # 523-25-003
VA Contract # 36C24125R0010
VA PO # 523C7043

WPA Project # WPA1502



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title	Phase	Project Title	Project Number
COVER - VAMC BROCKTON	CONSTRUCTION DOCUMENTS	Bulk Oxygen Corrections	VA Project # 523-25-003 WPA Project # WPA1502
Approved:		Location: Brockton VA Medical Center, VA Boston Healthcare System	Medical Center: VAMC Brockton
		Issue Date: 03/26/2026 · Checked: · Drawn:	Drawing Number: V1-GI000

VA FORM 08 - 6231

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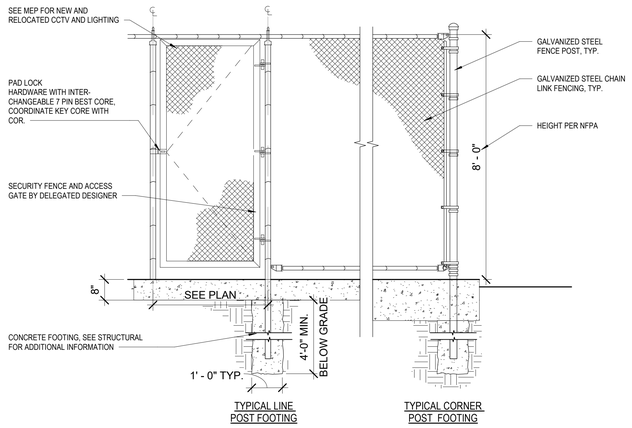


02 CHAIN LINK FENCE DETAIL
SCALE: 1/2" = 1'-0"

Gate Schedule - Brockton

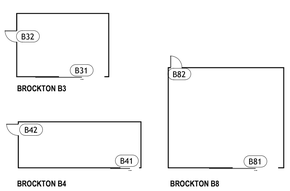
Mark	Width	Material	Hardware	Gate Type
B31	12' - 0"	GALV. STEEL CHAIN LINK	HW-2	Single Sliding
B32	3' - 0"	GALV. STEEL CHAIN LINK	HW-1	Single Swing
B41	5' - 0"	GALV. STEEL CHAIN LINK	HW-2	Single Sliding
B42	3' - 0"	GALV. STEEL CHAIN LINK	HW-1	Single Swing
B81	12' - 0"	GALV. STEEL CHAIN LINK	HW-2	Single Sliding
B82	3' - 0"	GALV. STEEL CHAIN LINK	HW-1	Single Swing

HARDWARE TYPES:

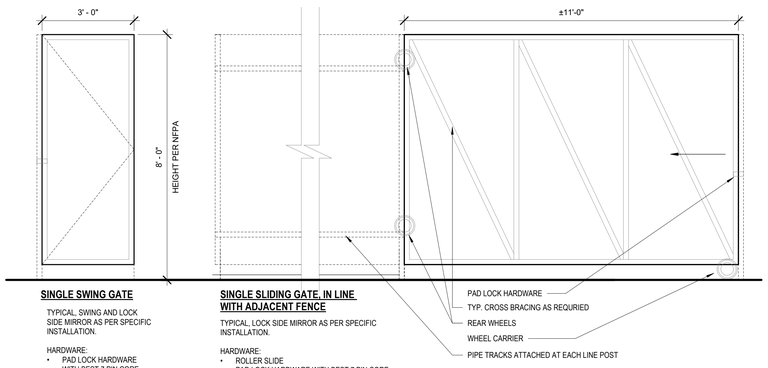
HW-1
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

HW-2
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL

GATE NUMBERS:



01 GATE SCHEDULE & LEGENDS - BROCKTON
SCALE: 1/2" = 1'-0"



SINGLE SWING GATE

TYPICAL, SWING AND LOCK SIDE MIRROR AS PER SPECIFIC INSTALLATION.

HARDWARE:
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE

SINGLE SLIDING GATE, IN LINE WITH ADJACENT FENCE

TYPICAL, LOCK SIDE MIRROR AS PER SPECIFIC INSTALLATION.

HARDWARE:
- ROLLER SLIDE
- PAD LOCK HARDWARE WITH BEST 7 PIN CORE
- PROVIDE ROLLER TRACKS AND ROLLER WHEEL

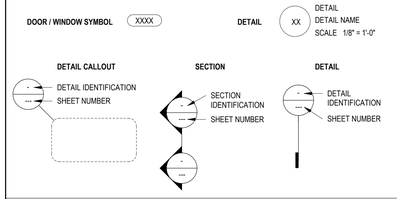
ABBREVIATIONS

&	AND
L	ANGLE
@	AT
CL	CENTERLINE
Ø	DIAMETER
#	POUND
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
AV	AUDIOVISUAL
AVB	AIR VAPOR BARRIER
BO	BOTTOM OF
BOT	BOTTOM
BOS	BOTTOM OF STEEL
B/T	BENCH TOP
B/W	BETWEEN
CC	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	CEILING HEIGHT
CJ	CONTROL JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL	COLUMN
COMMS	COMMUNICATIONS
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET
CR	CARD READER
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
CW	CURTAIN WALL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EAST
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EMER SHR	EMERGENCY SHOWER
EMERG	EMERGENCY
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXIST	EXISTING
EXT	EXTERIOR
F/F	FACE TO FACE
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FF	FINISH FACE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FTR	FINNED TUBE RADIATION
G	GAS
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
IF	INSIDE FACE
IG	INSULATED GLASS
INT	INTERIOR
L	LEFT
LGMF	LIGHT GAUGE METAL FRAMING
LPT	LOW POINT
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MH	MENTAL HEALTH
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
N	NORTH
NIC	NOT IN CONTRACT
NRP	NON-REMOVABLE PIN
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OPH	OPPOSITE HAND
O	OXYGEN
R	RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCED
REQ/REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
S	SOUTH
SIM	SIMILAR
SOG	SLAB ON GRADE
SST	STAINLESS STEEL
STRUC	STRUCTURAL
TD	TRENCH DRAIN
TO	TOP OF
TOC	TOP OF CONCRETE SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPO	THERMOPLASTIC POLYOLEFIN
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VC	VA FURNISHED, CONTRACTOR INSTALLED
VERT	VERTICAL
VIF	VERIFY IN FIELD
VV	VA FURNISHED, VA INSTALLED
W	WEST
WH	WALL HYDRANT

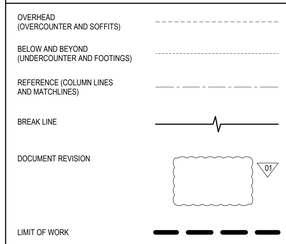
GENERAL NOTES

1. CONTRACTOR SHALL NOT SHUT-OFF AND/OR INTERRUPT O2 SUPPLY TO HOSPITAL WITHOUT EXPLICIT WRITTEN PERMISSION FROM THE AUTHORIZED VA COR. CONTRACTOR SHALL BE REQUIRED TO COORDINATE TEMPORARY O2 SUPPLY FOR ALL SHUTDOWN(S) USING THE VA FACILITY SUPPLIERS. ALL REQUEST(S) FOR SHUT DOWN SHALL BE MADE MIN. OF 2 WEEKS IN ADVANCE.
2. CONTRACTOR SHALL PREPARE AND REVIEW WORK PLAN WITH THE VA COR AND PROVIDE ADDITIONAL DOCUMENTATION AS REQUIRED BY VA PRIOR TO START OF WORK.
3. CONTRACTOR IS REQUIRED TO PROVIDE GROUND PENETRATING RADAR SCANS OF ALL AREAS WHERE EXCAVATION IS REQUIRED. CONTRACTOR SHALL NOTIFY THE COR OF ANY POTENTIAL CONFLICTS.
4. CONTRACTOR TO NOTIFY COR OF BELOW GRADE CONFLICTS WITH NEW LAYOUT AND ADJUST LOCATION OF PIERS AND FOUNDATIONS TO ACCOMMODATE.
5. DO NOT SCALE DRAWINGS.
6. DIMENSIONS ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY AND SHALL NOT BE USED FOR THE PURPOSES OF FABRICATION OR INSTALLATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AS INDICATED ON DRAWINGS PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR TO NOTE TERMS SUCH AS "FLUSH," "ALIGN," "MATCH," "CENTER" AND SIMILAR AS THESE TAKE PRECEDENT OVER DIMENSIONAL NOTATION AND SCHEDULED SYSTEMS.
7. CONTRACTOR SHALL INSTALL MATERIALS IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. SUBMITTAL SHOP DRAWINGS:
   - A. ORIGINAL DRAWINGS SHALL BE PREPARED BY CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR, WHICH ILLUSTRATE SOME PORTION OF THE WORK, SHOWING FABRICATION, LAYOUT, SETTING, OR ERECTION OF DETAILS.
   - B. SHOP DRAWINGS SHALL BE PREPARED BY A QUALIFIED DETAILER.
   - C. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL NUMBERS INDICATED ON CONTRACT DRAWINGS.
   - D. DO NOT REPRODUCE CONTRACT DOCUMENTS.
   - E. THE CONTRACTOR SHALL COORDINATE ALL SUCH DRAWINGS, AND REVIEW THEM FOR ACCURACY, COMPLETENESS, AND COMPLIANCE WITH CONTRACT REQUIREMENTS AND SHALL INDICATE ITS APPROVAL THEREON AS EVIDENCE OF SUCH COORDINATION AND REVIEW.
9. CONTRACT LIMIT LINES SHALL BE WHERE INDICATED ON THE DRAWINGS. HOWEVER, IN ORDER TO COMPLETE OR FACILITATE INDICATED WORK, CONTRACTOR MAY BE REQUIRED TO CARRY OUT WORK ADJACENT TO, BUT OUTSIDE INDICATED LIMITS. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS TO BUILDINGS TO COORDINATE WORK.
10. PROVIDE SECURE CONSTRUCTION FENCING AROUND ALL AREA OF CONSTRUCTION, EXCAVATION, AND STORAGE AREAS.
11. THE DEPARTMENT OF VETERANS AFFAIRS IS THE AUTHORITY HAVING JURISDICTION. THE MASSACHUSETTS OFFICE OF PUBLIC SAFETY AND INSPECTION NOR THE LOCAL INSPECTIONAL SERVICES HAS JURISDICTION OVER THIS PROJECT. THE PROJECT HAS BEEN DESIGNED TO MEET NFPA AND CERTAIN CRITERIA OF MA BUILDING CODES AS NOTED.

SYMBOLS



LINETYPES



SHEET LIST

Sheet Number	Sheet Name
GENERAL INFORMATION	
V1-GI000	COVER - VAMC BROCKTON
V1-GI001	GENERAL NOTES, PROJECT INFORMATION, SHEET LIST
CIVIL	
V1-C101	SITE DEMOLITION PLAN BUILDING 3
V1-C102	SITE DEMOLITION PLAN BUILDING 4 & 8
V1-C201	CIVIL LAYOUT PLAN BUILDING 3
V1-C202	CIVIL LAYOUT PLAN BUILDING 4
V1-C203	CIVIL LAYOUT PLAN BUILDING 8
V1-C301	CIVIL DETAILS
STRUCTURAL	
V1-ST101	STRUCTURAL DETAILS
V1-ST102	STRUCTURAL DETAILS
PLUMBING	
V1-P001	PLUMBING LEGEND
V1-P201	PLUMBING PLAN
ELECTRICAL	
V1-E201	ELECTRICAL PLAN BUILDING 3, 4, AND 8
V1-E800	ELECTRICAL DETAILS
14	

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
GENERAL NOTES, PROJECT INFORMATION, SHEET LIST

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date
03/26/2026

Checked

Drawn

Drawing Number
V1-GI001

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GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS", PREPARED FOR WILLIAM PEVEAR ARCHITECTS, PREPARED BY NITSCH ENGINERING, DATED MARCH 3, 2025.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25023C0166J, EFFECTIVE DATE 07/17/2012 AND 25023C0158J, EFFECTIVE DATE 07/17/2012. THE SITE IS LOCATED IN ZONE X.
3. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE. THE CONTRACTOR TO PROVIDE GPR SCAN TO CONFIRM/LOCATE AND IDENTIFY BELOW GRADE INFRASTRUCTURE.
4. THE CONTRACTOR TO COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
8. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
12. ELEVATIONS REFER TO BOSTON CITY BASE.

EROSION AND SEDIMENT CONTROL NOTES:

1. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
3. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
5. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
7. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
8. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
9. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
10. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
12. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
13. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
14. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE VA. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

DEMOLITION NOTES:

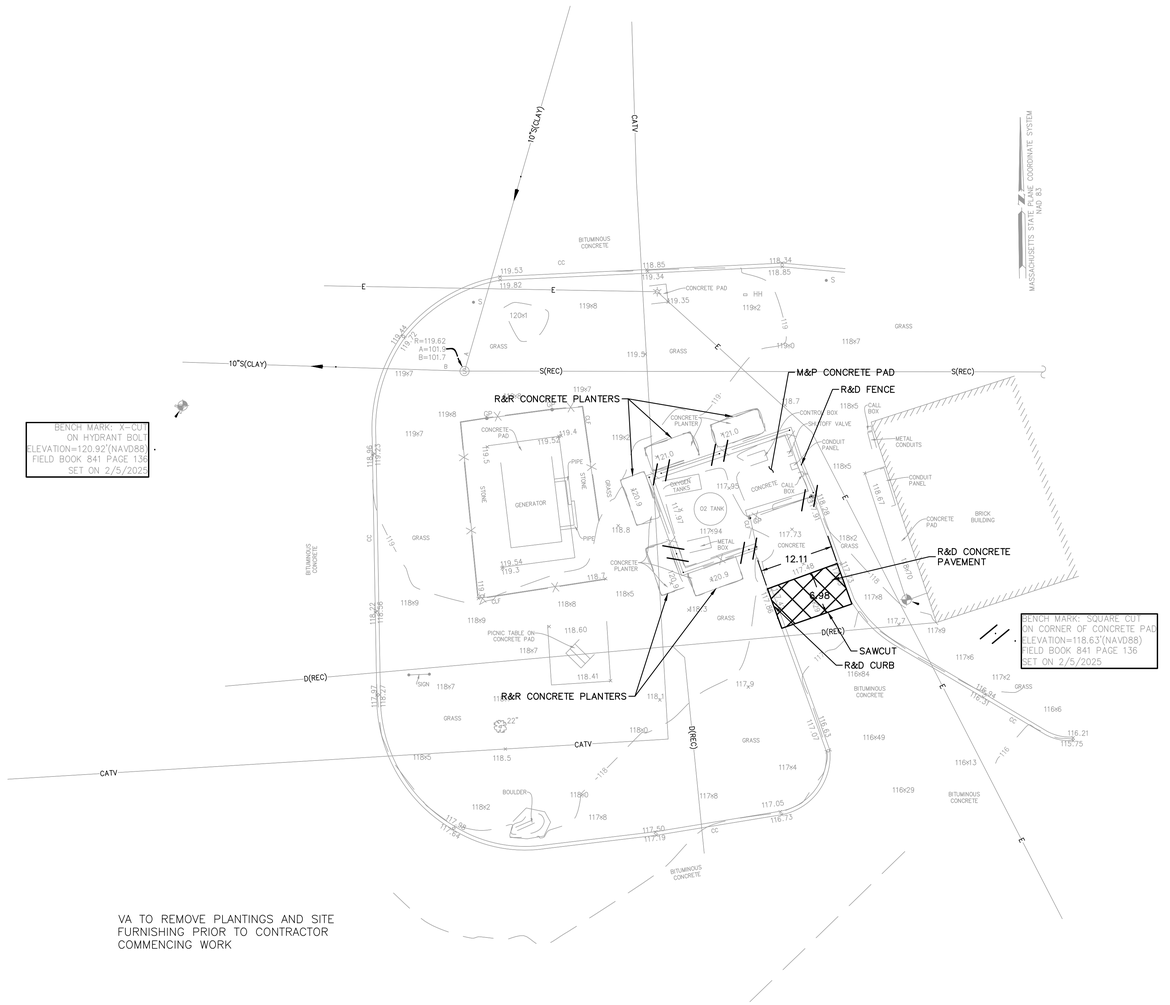
1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE CONTRACTING OFFICERS REPRESENTATIVE.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

PROPOSED LEGEND

	LIMIT OF WORK
// //	EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
	EROSION CONTROL BARRIER
x x	CONSTRUCTION FENCE
W	DOMESTIC WATER PIPE
FP	FIRE PROTECTION PIPE
S	SANITARY SEWER PIPE
SFM	SEWER FORCE MAIN PIPE
DFM	DRAIN FORCE MAIN PIPE
D	STORM DRAIN PIPE
G	GAS PIPE
E	ELECTRIC DUCTBANK
T/C	TELECOM DUCTBANK
CW	CHILLED WATER PIPE
STM	STEAM PIPE
CR	CONDENSATE RETURN PIPE
HW	HOT WATER PIPE/RETURN
HHW	HEATING HOT WATER
RW	REUSE WATER PIPE
GW	GREY WATER PIPE
X	FUTURE UTILITY, SHOWN FOR INFORMATION ONLY
	INLET PROTECTION
	ELEVATION CONTOURS
	MATCH LINE
	CENTERLINE
CO	CLEANOUT
	AREA DRAIN
	ACCESS BASIN
	DRAIN MANHOLE
Q	WATER QUALITY STRUCTURE
	CATCH BASIN
	DOUBLE CATCH BASIN
	WATER QUALITY INLET
	SEWER MANHOLE
STMH	STEAM MANHOLE
TMH	TELECOM MANHOLE
EMH	ELECTRIC MANHOLE
CWV	CHILLED WATER VALVE
WV	WATER VALVE
HYD	FIRE HYDRANT

ABBREVIATIONS

AB	ACCESS BASIN
AD	AREA DRAIN
BC	BOTTOM OF CURB ELEVATION
BW	BOTTOM OF WALL ELEVATION
CB	CATCH BASIN
CCB	CAPE COD BERM
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CO	CLEANOUT
COP	CENTER OF PIPE
CLDI	CEMENT LINED DUCTILE IRON PIPE
CP	CARRIER PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
DCB	DOUBLE CATCH BASIN
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EJ	EXPANSION JOINT
EMH	ELECTRIC MANHOLE
FD	FOUNDATION DRAIN
FFE	FINISHED FLOOR ELEVATION
HP	HIGH POINT
HYD	FIRE HYDRANT
INV	INVERT ELEVATION
LF	LINEAR FEET
LOW	LIMIT OF WORK
LP	LOW POINT
LW	LAB WASTE
M&P	MAINTAIN AND PROTECT
NIC	NOT IN CONTRACT
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
PD	PERIMETER DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND REUSE
R&S	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RIM	RIM ELEVATION
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TC	TOP OF CURB ELEVATION
TW	TOP OF WALL ELEVATION
THH	TELECOM HANDHOLE
TMH	TELECOM MANHOLE
TOP	TOP OF PIPE
TOD	TOP OF DUCT BANK
TYP	TYPICAL
UD	UNDERDRAIN
USD	UNDERSLAB DRAIN
VGC	VERTICAL GRANITE CURB
WQI	WATER QUALITY INLET
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE



VA TO REMOVE PLANTINGS AND SITE FURNISHING PRIOR TO CONTRACTOR COMMENCING WORK

BUILDING 3 SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

Revisions:	Date:

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05/11/2026

Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Key Plan

Drawing Title
SITE DEMOLITION PLAN
BUILDING 3

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

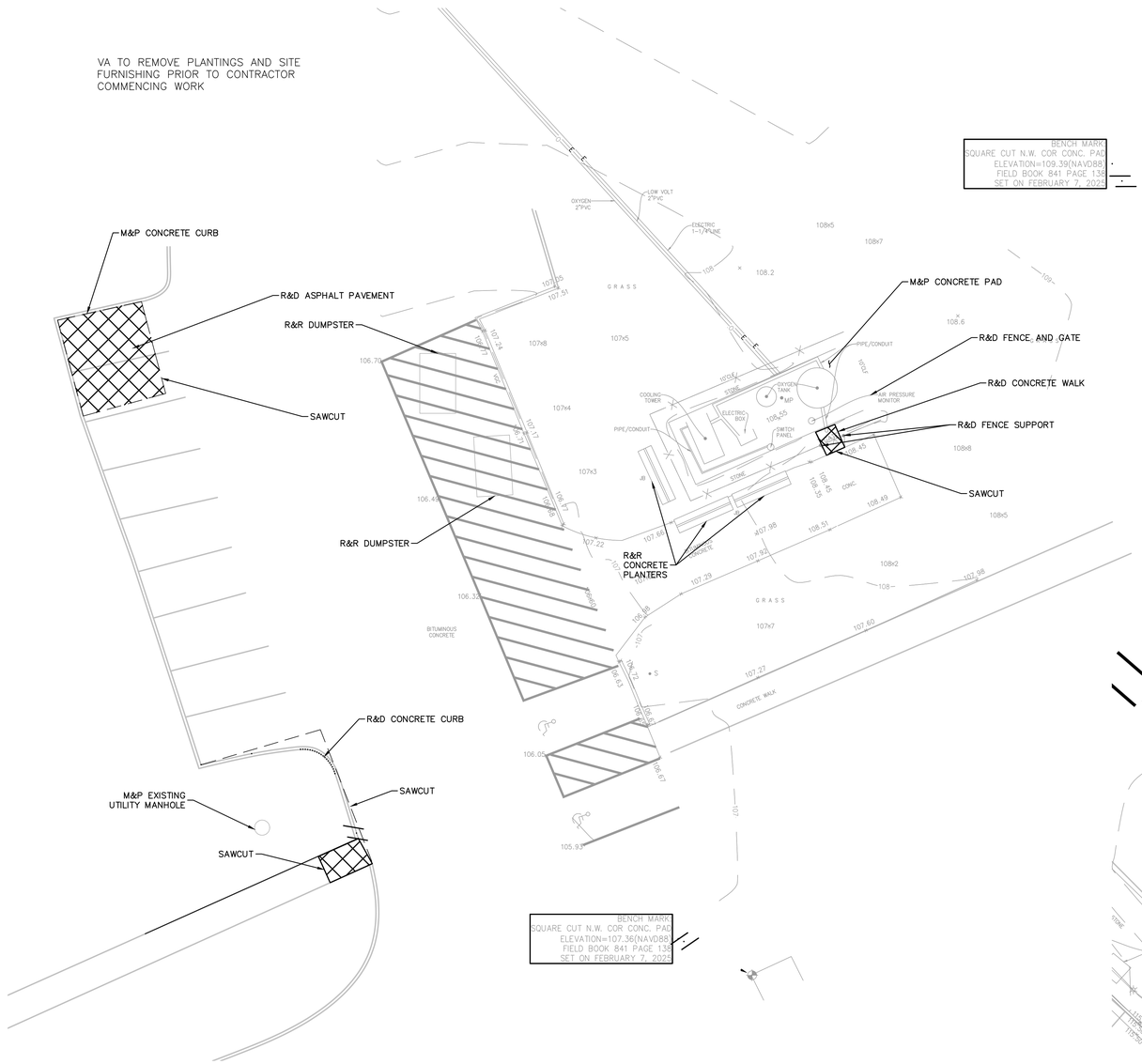
Medical Center
VAMC Brockton

Issue Date 05/08/2026
Checked JMS
Drawn JRD

Drawing Number
V1-C101

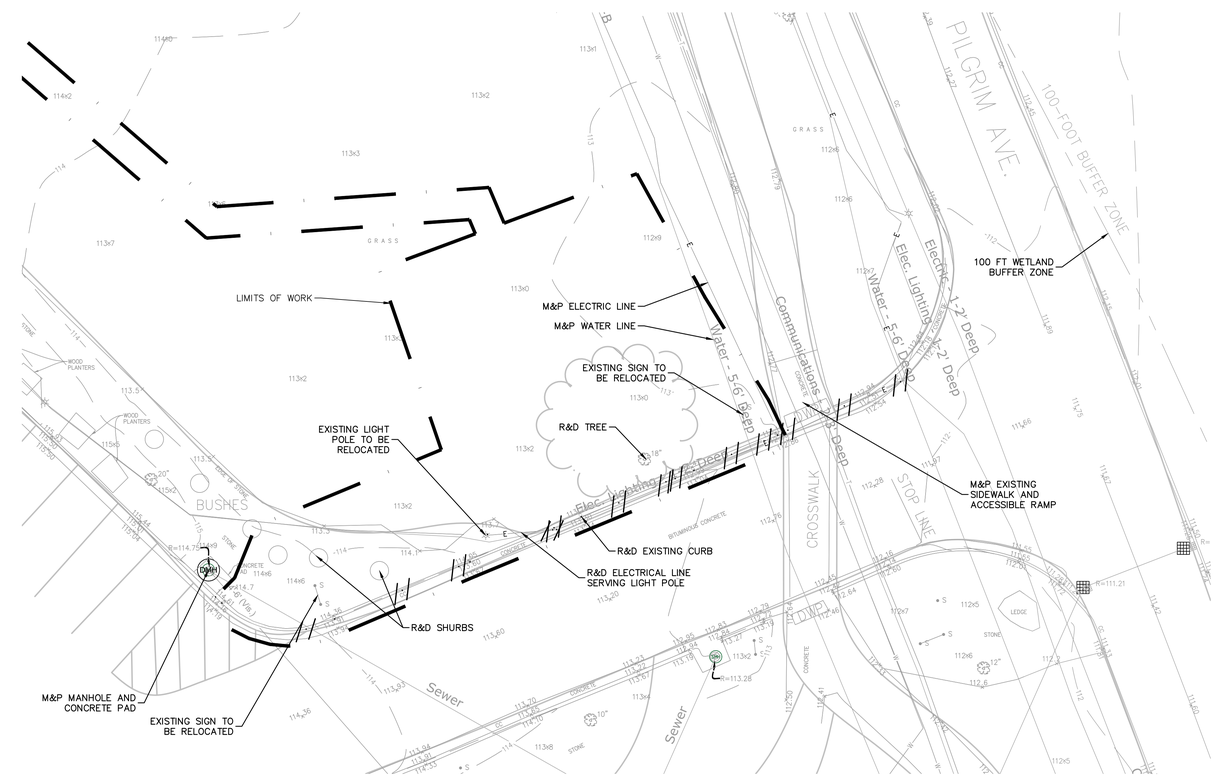
VA FORM 08 - 6231

VA TO REMOVE PLANTINGS AND SITE FURNISHING PRIOR TO CONTRACTOR COMMENCING WORK



BUILDING 4 SITE DEMOLITION PLAN

BUILDING 8 (OLD LOCATION)
DEMOLITION UNDER FUTURE CONTRACT



BUILDING 8 (NEW LOCATION)
SITE DEMOLITION PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
SITE DEMOLITION PLAN
BUILDING 4 & 8

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date 05/08/2026
Checked JMS
Drawn JRD

Drawing Number
V1-C102

VA FORM 08 - 6231

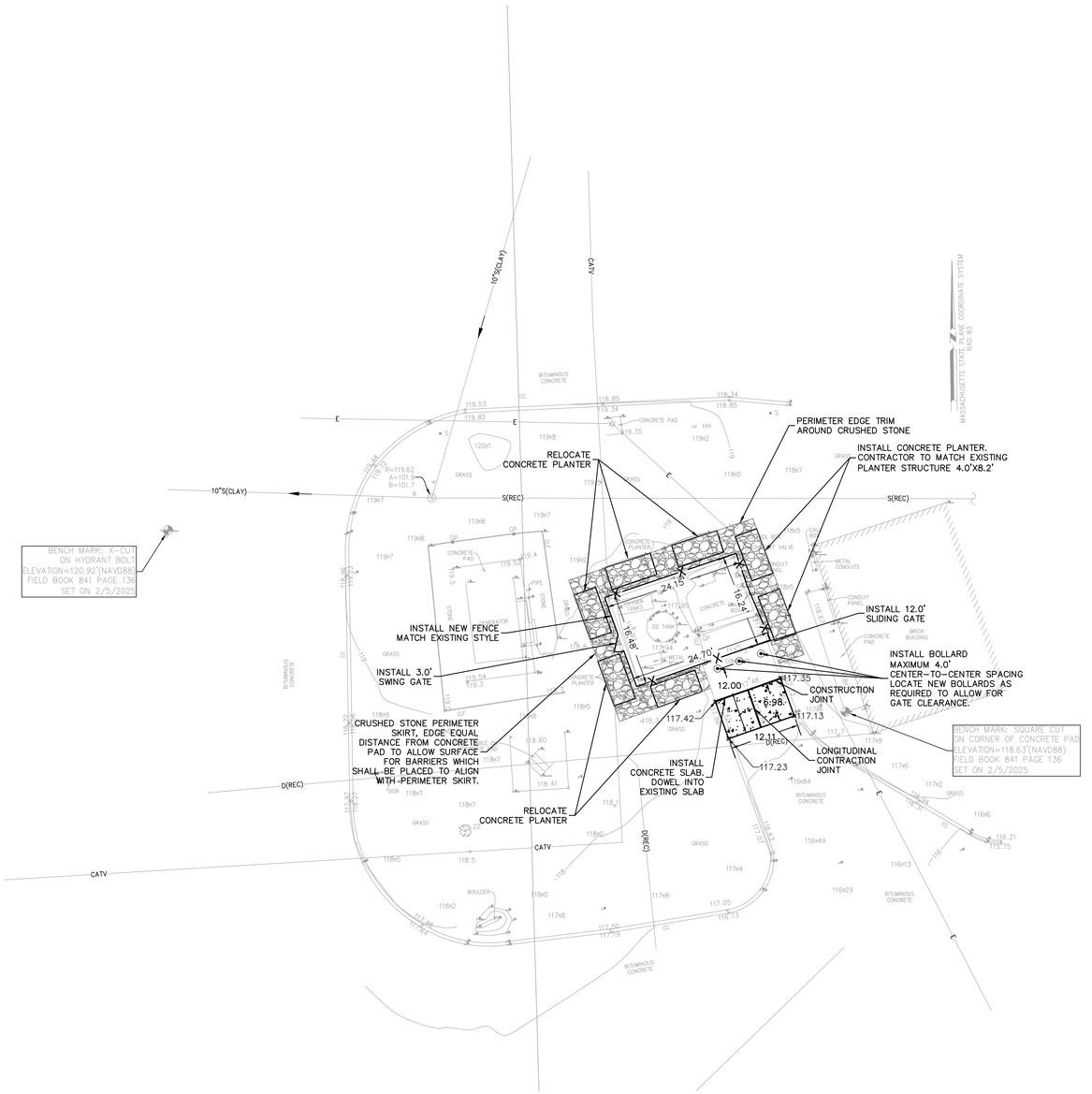
EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
17. CONTRACTOR SHALL ADJUST LOCATIONS OF FENCE POST AND/OR BOLLARDS TO ACCOMMODATE BELOW GRADE INFRASTRUCTURE AS REQUIRED. MAINTAIN MIN SPACING AND ADJUST MULTIPLE AS REQUIRED TO MAINTAIN MIN. SPACING INDICATED AND AS PER MANUFACTURES INSTALLATION RECOMMENDATIONS. NOTIFY COR OF ANY DISCREPANCIES.

ADDITIONAL NOTES:

1. RESTRIPE IN KIND FOR DISTURBED PAVEMENT AREAS

CONCRETE PLANTER AT BUILDING 3



BUILDING 3 SITE LAYOUT PLAN

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

Revisions:	Date:

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05/11/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
CIVIL LAYOUT PLAN BUILDING 3

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

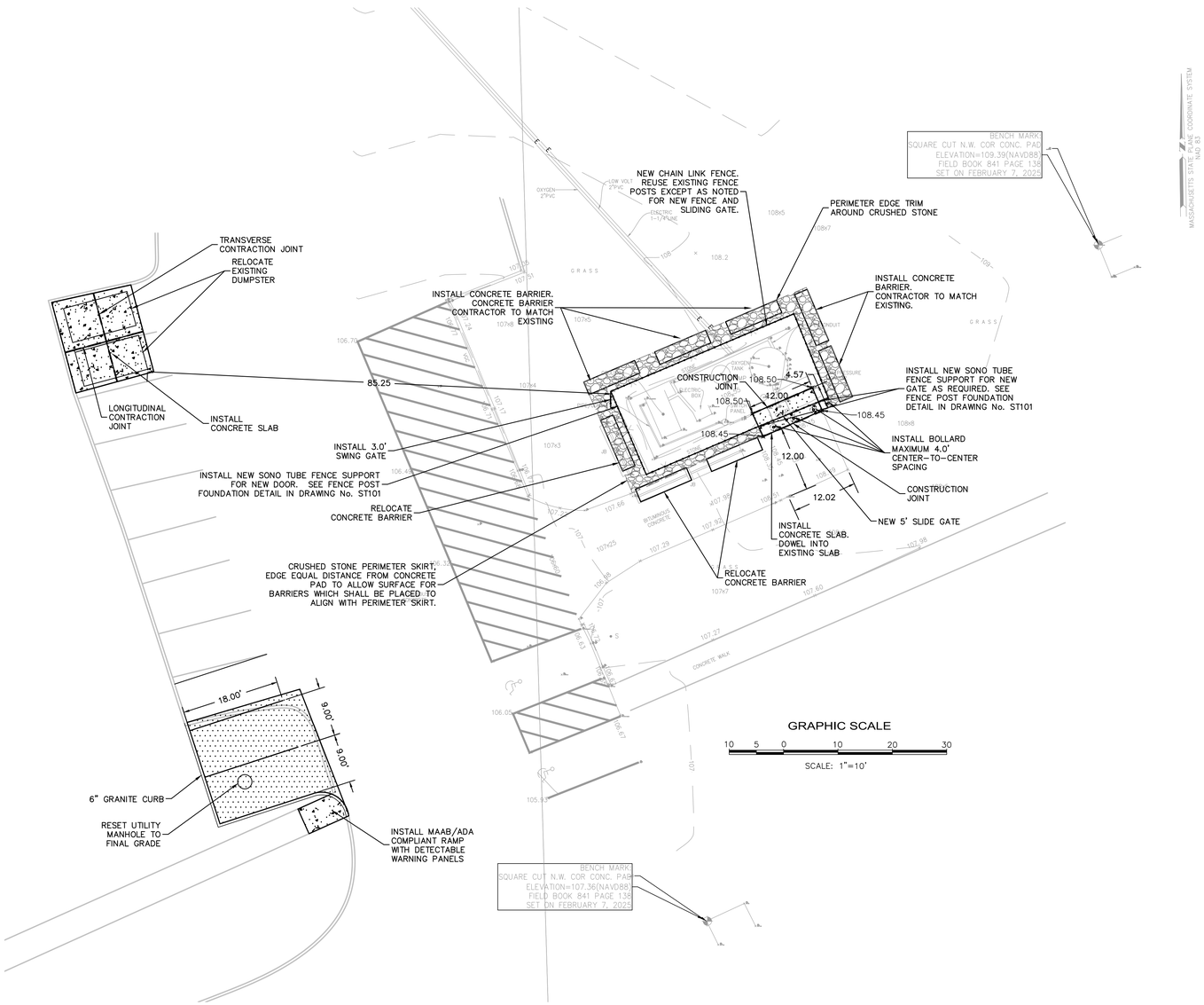
Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date 05/08/2026
Checked JMS
Drawn JRD

Drawing Number
V1-C201

VA FORM 08 - 6231



BUILDING 4 SITE LAYOUT PLAN

BARRIER AT BUILDING 4

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
CIVIL LAYOUT PLAN BUILDING 4

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

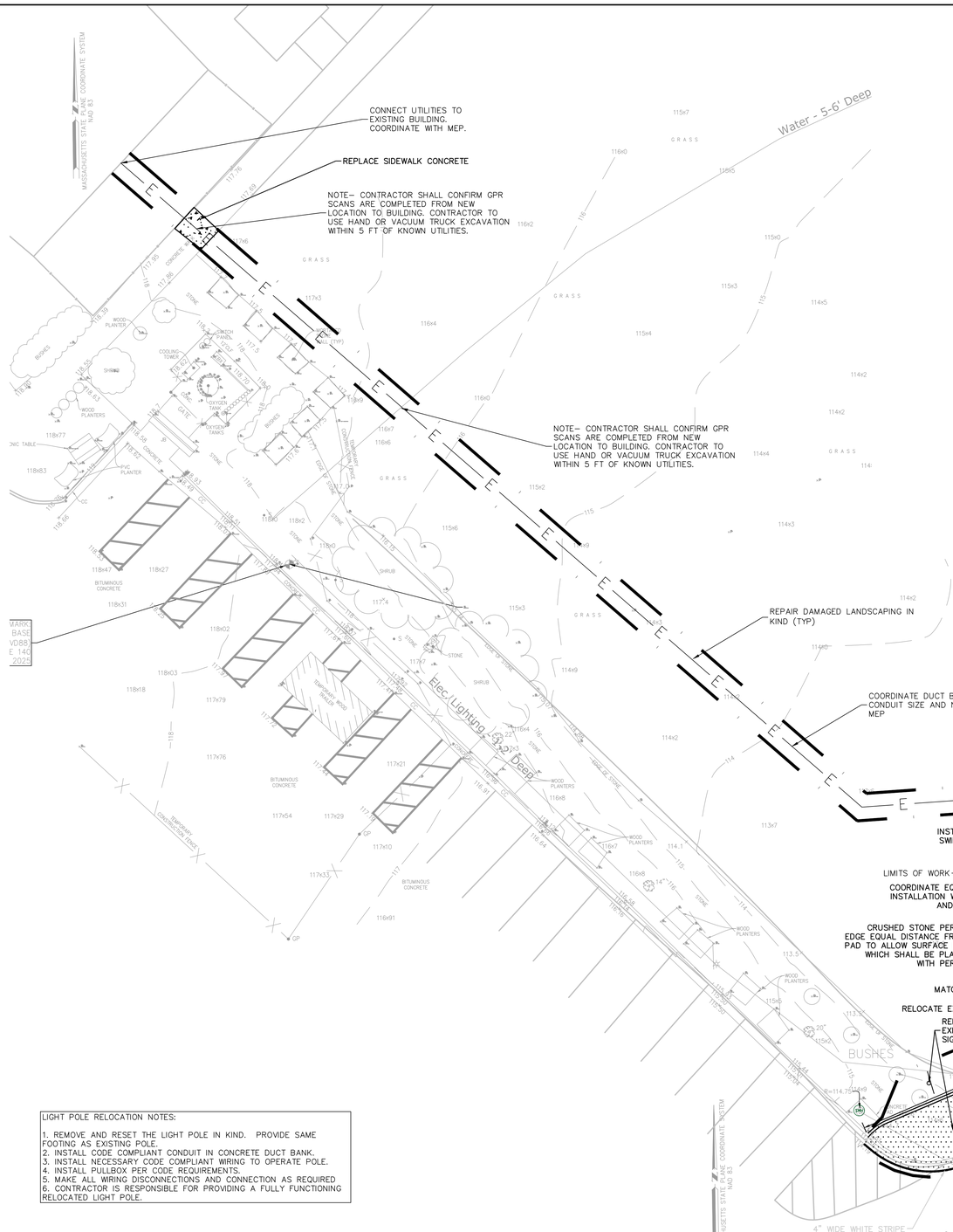
Location
Brockton VA Medical Center
VA Boston Healthcare System

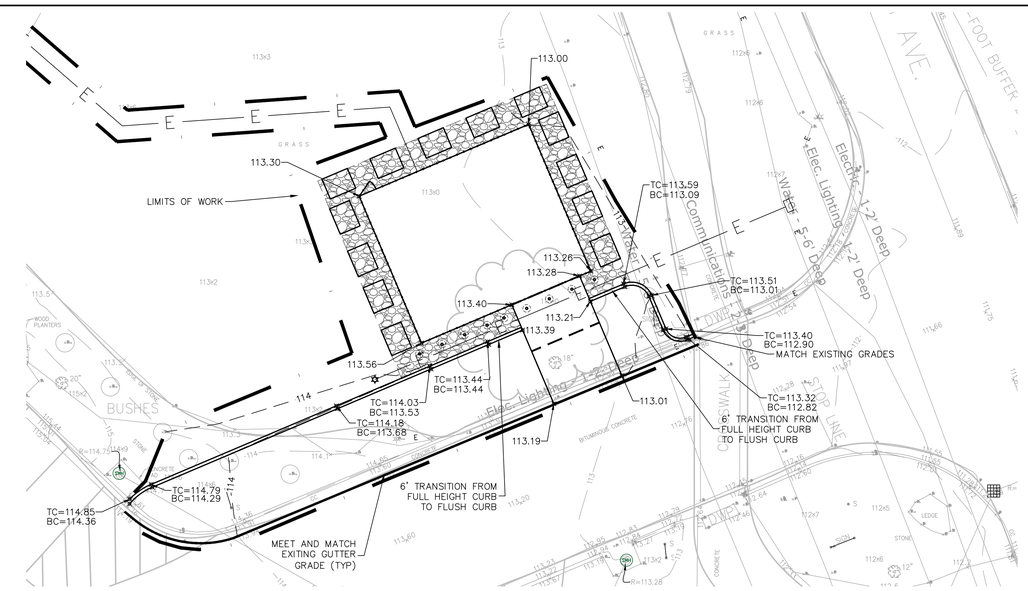
Medical Center
VAMC Brockton

Issue Date 05/08/2026
Checked JMS
Drawn JRD

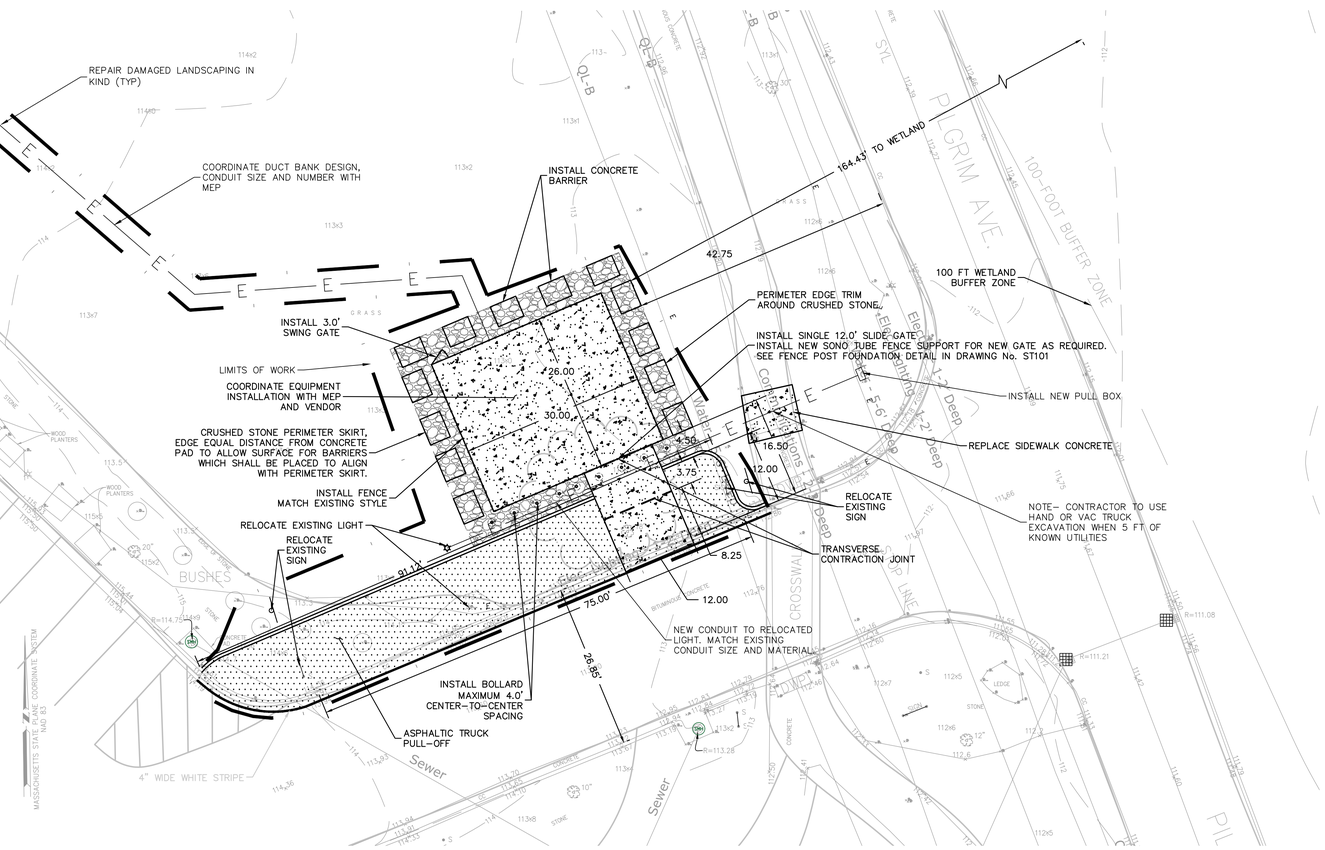
Drawing Number
V1-C202

VA FORM 08 - 6231





BUILDING 8 SITE GRADING PLAN



BUILDING 8 SITE LAYOUT PLAN

LIGHT POLE RELOCATION NOTES:

1. REMOVE AND RESET THE LIGHT POLE IN KIND. PROVIDE SAME FOOTING AS EXISTING POLE.
2. INSTALL CODE COMPLIANT CONDUIT IN CONCRETE DUCT BANK.
3. INSTALL NECESSARY CODE COMPLIANT WIRING TO OPERATE POLE.
4. INSTALL PULLBOX PER CODE REQUIREMENTS.
5. MAKE ALL WIRING DISCONNECTIONS AND CONNECTION AS REQUIRED.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONING RELOCATED LIGHT POLE.

GRAPHIC SCALE

10 5 0 10 20 30

SCALE: 1"=10'

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
CIVIL LAYOUT PLAN BUILDING 8

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

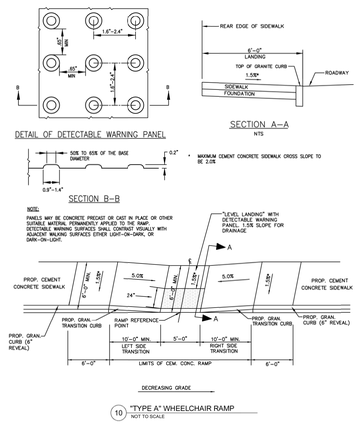
Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date 05/08/2026 | **Checked** JMS | **Drawn** JRD

Drawing Number
V1-C203

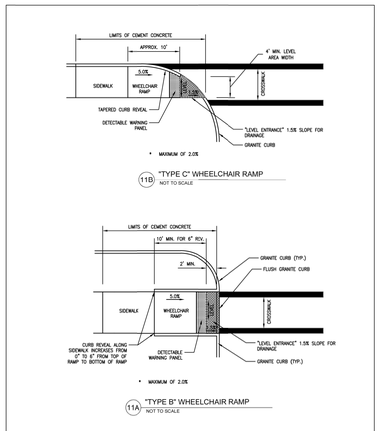
VA FORM 08 - 6231



10 "TYPE A" WHEELCHAIR RAMP
NOT TO SCALE

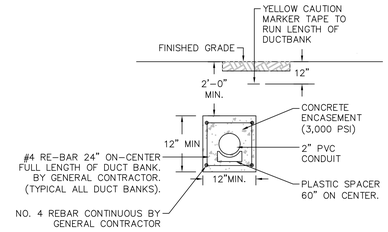
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: TYPE "A" WHEELCHAIR RAMP AND DETECTABLE WARNING PANEL	Issue Date: 3-29-19 Drawing No. 10

VA U.S. Department of Veterans Affairs



Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: TYPE "B" AND TYPE "C" WHEELCHAIR RAMPS	Issue Date: 3-29-19 Drawing No. 11

VA U.S. Department of Veterans Affairs

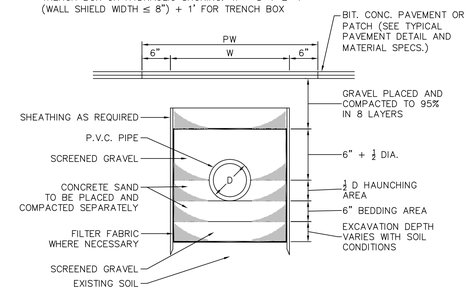


CONDUIT DUCTBANK REINFORCEMENT DETAIL (DUCTBANK E-E)

NOT TO SCALE

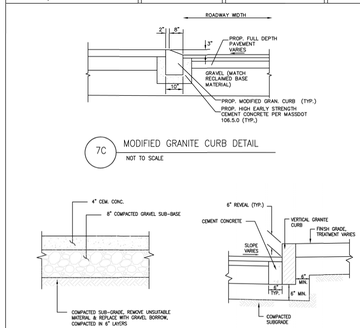
CONCRETE BARRIER 4' L X 3' W X 3' H (BUILDING 8)

W=MAXIMUM TRENCH WIDTH PW = MAXIMUM PAVING WIDTH = W + 1'–0" D=OUTSIDE DIAMETER
UNSHEATHED TRENCH: W = D + 2': 3'–0" MIN.
SHEATHED TRENCH: W = D + 2' + SHEATHING WIDTH: 4'–2" MIN. WITHOUT WALERS 5'–0" MIN. WITH WALERS TRENCH BOX OR HYDRAULIC SHORING: W = D + 2' + (WALL SHIELD WIDTH ≤ 8") + 1' FOR TRENCH BOX



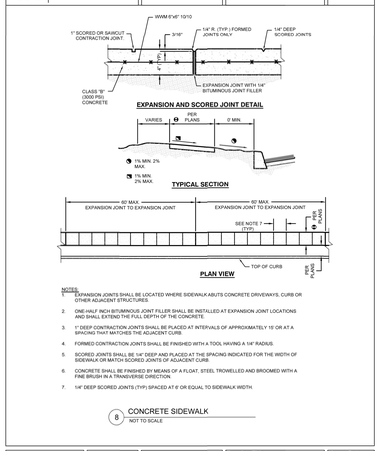
PVC PIPE TRENCH DETAIL

NOT TO SCALE



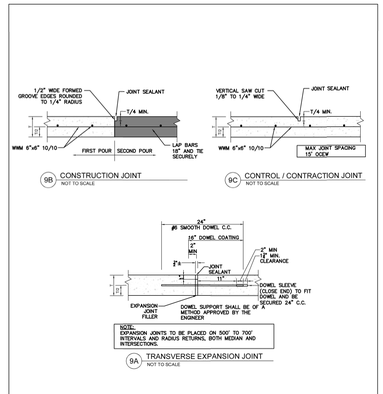
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: SIDEWALK AND CURB DETAILS	Issue Date: 3-29-19 Drawing No. 7

VA U.S. Department of Veterans Affairs



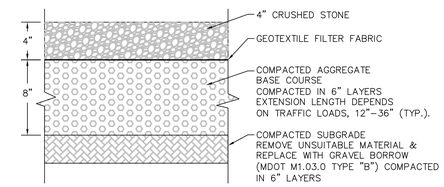
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: CEMENT CONCRETE SIDEWALK DETAILS	Issue Date: 3-29-19 Drawing No. 8

VA U.S. Department of Veterans Affairs



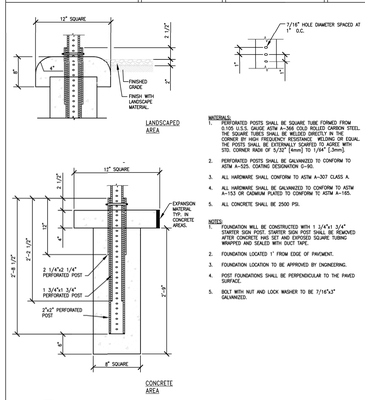
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: CEMENT CONCRETE SIDEWALK DETAILS	Issue Date: 3-29-19 Drawing No. 9

VA U.S. Department of Veterans Affairs



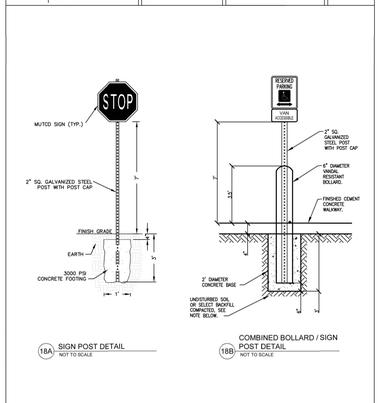
CRUSHED STONE PERIMETER SKIRT DETAIL

NOT TO SCALE



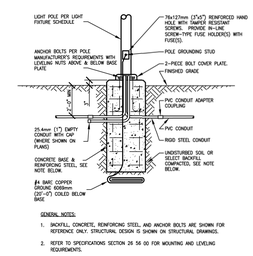
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: SIGN POST DETAIL SQUARE TUBE FOUNDATION	Issue Date: 3-29-19 Drawing No. 17

VA U.S. Department of Veterans Affairs



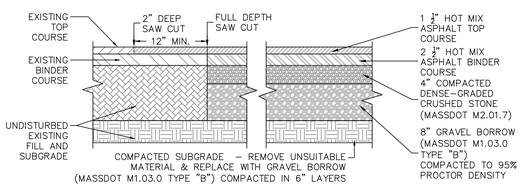
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: SIGN POST DETAILS	Issue Date: 3-29-19 Drawing No. 18

VA U.S. Department of Veterans Affairs



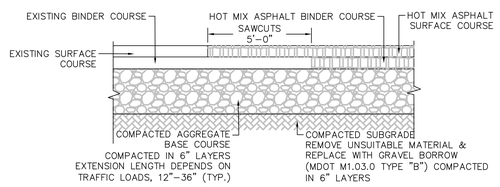
Office of Construction and Facilities Management	Construction Standards	BROCKTON VAMC 940 BELMONT STREET BROCKTON, MA 02401	Drawing Title: POLE BASE DETAIL - TURF AREAS - OPTION 1	Issue Date: 3-29-19 Drawing No. 41

VA U.S. Department of Veterans Affairs



HOT MIX ASPHALT PAVING (TWO COURSES) DETAIL

NOT TO SCALE



PAVEMENT MATCHING DETAIL

NOT TO SCALE

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
CIVIL DETAILS

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date 05/08/2026 | **Checked** JMS | **Drawn** JRD | **Drawing Number** V1-C301

VA FORM 08 - 6231

STRUCTURAL NOTES:

DESIGN
IN ACCORDANCE WITH:
1. 2023 U.S. DEPARTMENT OF VETERANS AFFAIRS STRUCTURAL DESIGN MANUAL (PG-18-10)
2. 2023 NFPA 55: COMPRESSED GASES AND CRYOGENIC FLUIDS CODE

FOUNDATIONS & STRUCTURAL SLABS
FOUNDATIONS AND STRUCTURAL SLABS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE PRIOR APPROVAL OF THE COR.

ALL FOUNDATIONS AND SLABS SHALL BEAR ON SUITABLE COMPACTED EXISTING SOIL OR COMPACTED GRAVEL FILL. NO FOUNDATIONS OR SLABS SHALL BE CAST IN WATER OR ON FROZEN GROUND.

LAYOUT COORDINATION
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS VIA SURVEY, FIELD MEASUREMENTS, TEST PROBES, TEST PITS, AND ANY OTHER MEANS PRIOR TO CONSTRUCTION.

UNSUITABLE MATERIAL
ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE PROPOSED STRUCTURE TO A MINIMUM DEPTH OF 12" BELOW THE STRUCTURE AND BE DISPOSED OF LEGALLY, AS DIRECTED BY THE COR.

CONCRETE
ALL CONCRETE SHALL BE READY-MIXED AND COMPLY WITH ACI 318 AND ASTM C94. ANCHOR RODS SHALL BE ASTM F1554 GRADE 55, SHALL COMPLY WITH ACI 318 AND BE GALVANIZED PER ASTM A153.

THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 5000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00, UNLESS OTHERWISE NOTED.

FOR BOLLARDS, BOLLARD FOUNDATIONS, AND FENCE POST FOUNDATIONS, THE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 3000 PSI WHEN TESTED AT TWENTY-EIGHT (28) DAYS IN ACCORDANCE WITH SPECIFICATION 03 30 00.

NON-SHRINK GROUT TO COMPLY WITH ASTM C1107.

REINFORCEMENT
1. REINFORCING STEEL AND DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

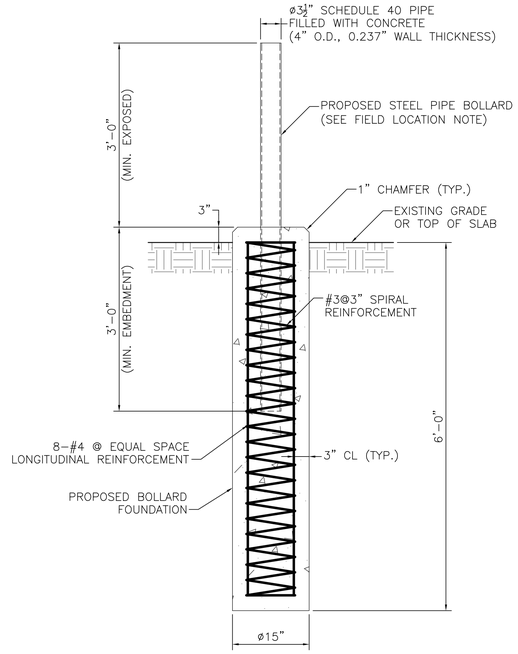
MODIFICATION CONDITION	#4 BARS	#5 BARS
1. NONE	16"	17"
2. 12" OF CONCRETE BELOW BAR	18"	22"
3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$	21"	26"
4. COATED BARS, ALL OTHER CASES	17"	21"
5. CONDITION 2. AND 3.	23"	29"
6. CONDITION 2. AND 4.	21"	27"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS. REINFORCING STEEL SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE BOTTOM AND SIDE FACES OF CONCRETE AND SHALL BE PLACED A CLEAR DISTANCE OF 3 INCHES FROM THE TOP FACE OF CONCRETE, UNLESS OTHERWISE SHOWN ON THE PLANS.

2. REINFORCING STEEL AND DOWELS SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775.
3. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE REINFORCING BAR LAYOUT AND LOCATIONS OF ALL JOINTS FOR REVIEW AND APPROVAL OF THE COR.

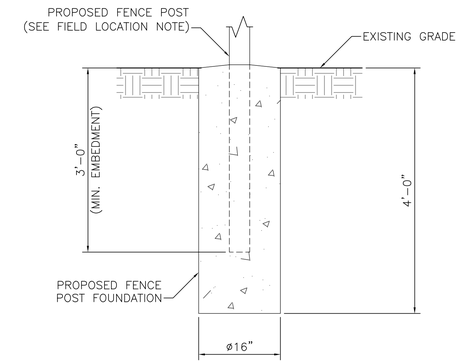
STEEL PIPE BOLLARD:
STEEL PIPE BOLLARDS SHALL BE ASTM A53 TYPE S GRADE A GALVANIZED STEEL.

BOLLARDS SHALL BE PAINTED WITH ONE PRIME COAT OF RED OXIDE (PAINT NO. 1), ONE FINISH COAT OF DULL BLACK ENAMEL PER VA SPECIFICATIONS, AND STRIPES CONSISTING OF 4" BANDS OF YELLOW REFLECTORIZED TAPE.

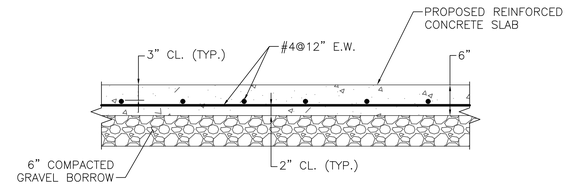


BOLLARD DETAIL
SCALE: 1" = 1'-0"

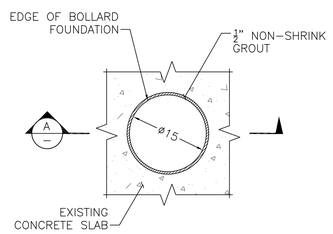
FIELD LOCATION NOTE:
REFERENCE GENERAL NOTES IN DRAWING No. C101 FOR FIELD LOCATION ADJUSTMENTS TO ACCOMMODATE UTILITIES OR OTHER INFRASTRUCTURE BELOW GRADE, AS REQUIRED.



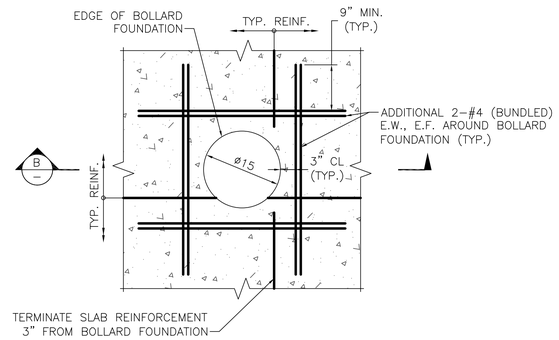
FENCE POST FOUNDATION DETAIL
SCALE: 1" = 1'-0"



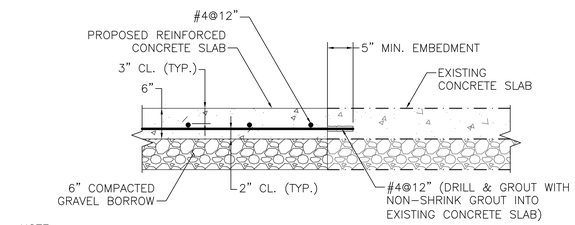
TYPICAL SECTION
REINFORCED CONCRETE SLAB
SCALE: 1" = 1'-0"



DETAIL
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"

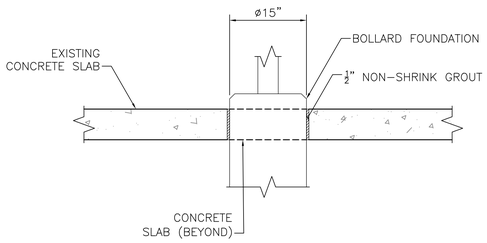


DETAIL
BOLLARD THROUGH PROPOSED CONCRETE SLAB
SCALE: 1" = 1'-0"

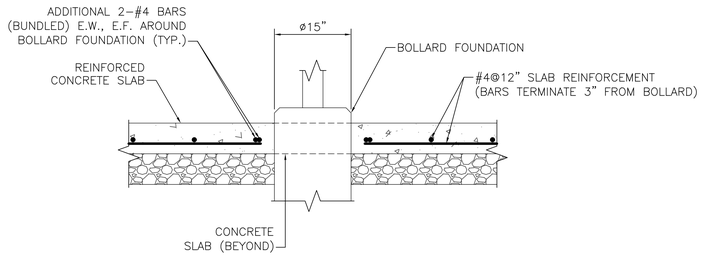


NOTE:
THIS DETAIL IS APPLICABLE AT LOCATIONS WHERE AN EXTENSION TO AN EXISTING CONCRETE SLAB IS REQUIRED TO COMPLY WITH NFPA 55.

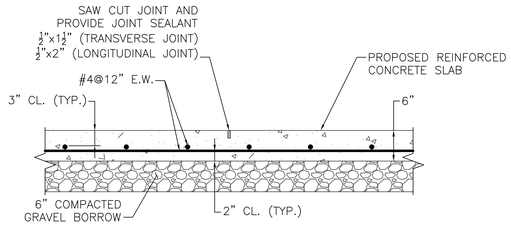
TYPICAL SECTION
REINFORCED CONCRETE SLAB CONSTRUCTION JOINT
SCALE: 1" = 1'-0"



SECTION A
BOLLARD THROUGH EXISTING CONCRETE SLAB
SCALE: 1" = 1'-0"



SECTION B
BOLLARD THROUGH PROPOSED CONCRETE SLAB
SCALE: 1" = 1'-0"



NOTE:
REFERENCE DRAWING NOS. C201 & C202 FOR CONTRACTION JOINT LOCATIONS.

TYPICAL SECTION
REINFORCED CONCRETE SLAB CONTRACTION JOINT
SCALE: 1" = 1'-0"

Revisions:	Date:

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

Key Plan

Drawing Title
STRUCTURAL DETAILS
1 OF 2

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

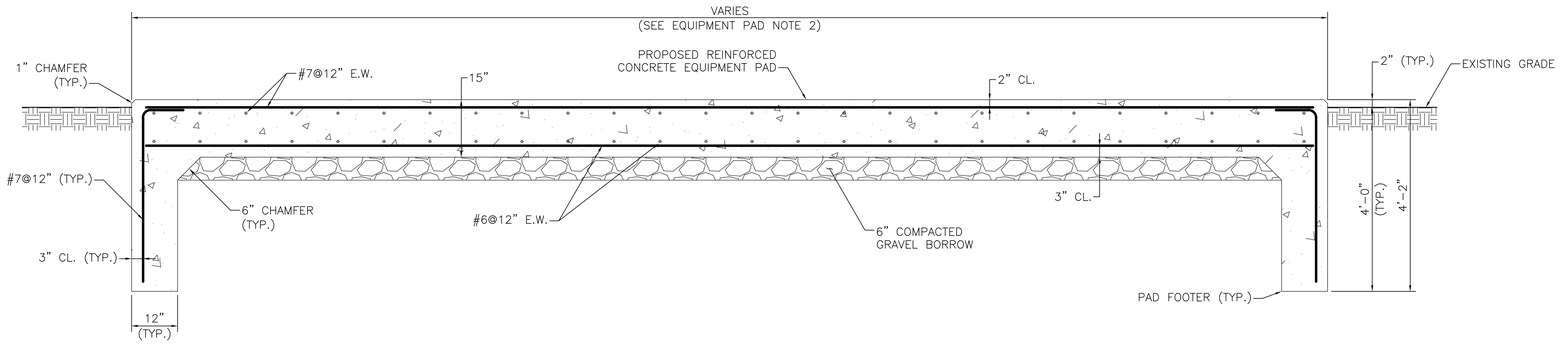
Medical Center
VAMC Brockton

Issue Date	Checked	Drawn	Drawing Number
03/26/2026	NLR	BJD	V1-ST101

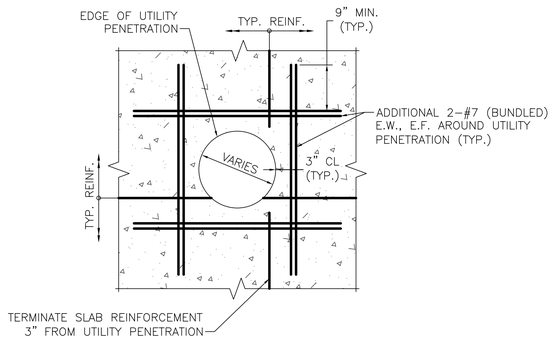
VA FORM 08 - 6231

EQUIPMENT PAD NOTES:

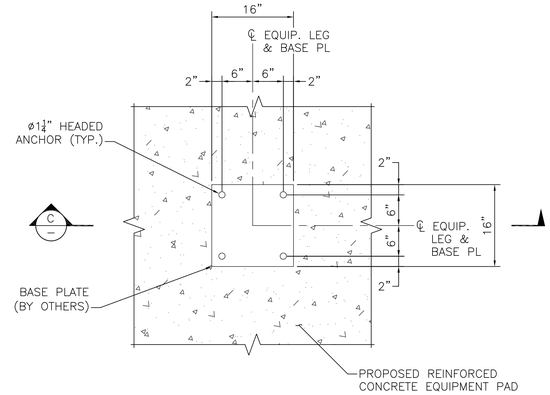
1. DESIGN OF EQUIPMENT PAD TO SUPPORT BULK OXYGEN SYSTEM HAS BEEN PERFORMED WITH PRELIMINARY EQUIPMENT SPECIFICATIONS, ATTACHMENT DETAILS, AND EQUIPMENT CONFIGURATION PROVIDED IN "GENERIC TM6000" PLANS BY PRAXAIR DATED APRIL 3, 2005. DESIGN TO BE CONFIRMED WITH EQUIPMENT SPECIFICATIONS TO BE PROVIDED BY LINDE.
2. REFERENCE DRAWING No. C202 FOR PROPOSED EQUIPMENT PAD LAYOUT.



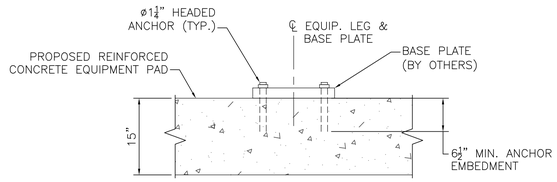
TYPICAL SECTION
BUILDING 8 BULK O2 EQUIPMENT PAD
SCALE: $\frac{3}{4}$" = 1'-0"



DETAIL
UTILITY PENETRATION THROUGH EQUIPMENT PAD
SCALE: 1" = 1'-0"



DETAIL
EQUIPMENT ATTACHMENT
SCALE: 1" = 1'-0"



SECTION C
EQUIPMENT ATTACHMENT
SCALE: 1" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Key Plan

Drawing Title
STRUCTURAL DETAILS
2 OF 2

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date	Checked	Drawn	Drawing Number
03/26/2026	NLR	BJD	V1-ST102

VA FORM 08 - 6231

PIPING SYMBOLS AND ABBREVIATIONS

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT.

SHEET SYMBOLS

- EQ / # — SCHEDULED EQUIPMENT DESIGNATION. -TOP INDICATES EQUIPMENT ABBREVIATION -BOTTOM INDICATES EQUIPMENT NUMBER REFER TO EQUIPMENT SCHEDULES
- 2 — SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.) REFER TO EQUIPMENT LIST
- REFER / P-1 — PLAN CONTINUATION REFERENCE. -BOTTOM INDICATES ON WHICH SHEET CONTINUATION APPEARS
- 1 / P-1 — SECTION DESIGNATION. -TOP INDICATES SECTION NUMBER, -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- 2 / P-1 — DETAIL REFERENCE. -TOP INDICATES SECTION NUMBER, -BOTTOM INDICATES ON WHICH SHEET SECTION APPEARS
- A/15B-6 — DETAIL REFERENCE, INDICATING DETAIL NUMBER / SHEET ON WHICH DETAIL APPEARS.
- MATCHLINE DESIGNATION
- ELEVATION DESIGNATION. REFERENCE OFFICIAL PROJECT DATUM
- 1 — REVISION REFERENCE. REFER TO SHEET REVISION BLOCK
- 1 — SHEET KEYNOTE REFERENCE
- ROOM NAME 101 — ROOM NAME & NUMBER DESIGNATION
- 001 — CONSTRUCTION BULLETIN REVISION NUMBER
- POINT OF NEW CONNECTION TO EXISTING
- HALFTONE LIGHT LINE INDICATES EXISTING WORK
- HEAVY DASHED LINE WITH HATCH INDICATES EXISTING WORK TO BE DEMOLISHED
- HEAVY LINE INDICATES NEW WORK

PIPING SYSTEM LABELS

WATER

- DCW — DOMESTIC COLD WATER
- DHW — DOMESTIC HOT WATER
- DHR — DOMESTIC HOT WATER RETURN
- CSW — COLD SOFT WATER
- HT — HEAT TRACE HOT WATER
- NPW — NON-POTABLE WATER
- DI — DEIONIZED WATER
- RO — REVERSE OSMOSIS WATER
- PW — PURE WATER
- PCW — PROCESS COLD WATER
- PHW — PROCESS HOT WATER
- PHR — PROCESS HOT WATER RETURN
- LCW — LAB COLD WATER
- LHW — LAB HOT WATER
- LHR — LAB HOT WATER RETURN
- TF — TRAP FILLER LINE
- TW — TEMPERED WATER

GASES

- AR — ARGON
- CA — COMPRESSED AIR
- CO2 — CARBON DIOXIDE
- H2 — HYDROGEN
- LA — LABORATORY COMPRESSED AIR
- LN2 — LIQUID NITROGEN
- LVAC — LABORATORY VACUUM
- MA — MEDICAL COMPRESSED AIR
- MV — MEDICAL VACUUM
- NG — NATURAL GAS
- N2 — NITROGEN
- N2O — NITROUS OXIDE
- O2 — OXYGEN
- WAGD — WASTE ANESTHETIC GAS DISPOSAL
- WGE — WASTE GAS EVACUATION

WASTE OR STORM

- SAN — WASTE OR SOIL
- SD — SUBSOIL DRAIN
- S — STORM
- OD — OVERFLOW DRAIN
- FM — FORCE MAIN
- CWW — CLEARWATER WASTE
- IW — INDIRECT WASTE
- GW — GREASE WASTE
- CRW — CORROSION RESISTANT WASTE
- UNDERFLOOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN

VENT

- V — VENT
- CWV — CLEARWATER VENT
- CRV — CORROSION RESISTANT VENT

PIPING SYMBOLS

SINGLE / DOUBLE

- ELBOW DOWN
- ELBOW UP
- BOTTOM CONNECTION (45° OR 90°)
- TOP CONNECTION (45° OR 90°)
- D — 45° PIPE RISE(R) / DROP(D)
- TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
- EXISTING PIPING TO REMAIN
- LINE CONTINUATION BREAK
- FLOW DIRECTION
- N/A — CONNECTION POINT
- OR — ECCENTRIC REDUCER
- CONCENTRIC REDUCER

PIPE FITTINGS, VALVES, & SPECIALTIES

- PLUG VALVE
- GATE VALVE
- DIAPHRAGM VALVE
- BALL VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID VALVE
- M — BACKWATER VALVE
- THERMOSTATIC MIXING VALVE
- TEMPERATURE BLENDING VALVE
- PRESSURE RELIEF VALVE
- VALVE IN VERTICAL
- RPBP / OR — REDUCED PRESSURE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- ZVB — ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION
- AAP OR MAP — AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- DIRECTION OF PITCH (DOWN)
- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- WATER SYSTEM PIPELINE STRAINER
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR
- FLANGE
- UNION
- PIPE CAP
- FILTER
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- M — WATER METER
- WATER HAMMER ARRESTOR
- PRESSURE OR VACUUM SWITCH
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- HOSE BIBB
- WALL HYDRANT
- $ — SLIDE-OXYGEN OR VACUUM BOTTLE
- OUTLET
- FLOW SENSING DEVICE

CIVIL UTILITIES SYSTEMS

- W — WATER LINE
- SAN — SANITARY SEWER
- STM — STORM SEWER
- FM — FORCE MAIN
- F — FIRE MAIN
- SHUTOFF VALVE
- PIV — POST INDICATOR VALVE
- FIRE HYDRANT
- MANHOLE
- CATCH BASIN OR INLET
- CURB INLET

DRAINS AND CLEANOUTS

- FLOOR DRAIN/FLOOR SINK
- ROOF DRAIN
- HUB DRAIN
- FIXTURE WASTE TRAP
- CLEANOUT
- FCO — FLOOR CLEANOUT

FIXTURE INSTALLATION

FIXTURE	BARRIER FREE DESIGN	NON-BARRIER FREE
WATER CLOSET	FLOOR TO RIM - 17"	FLOOR TO RIM - 15"
URINAL	FLOOR TO RIM - 17", MIN. ONE PER ROOM	FLOOR TO RIM - 24"
LAVATORY	FLOOR TO RIM - 34", MAX. FLOOR TO UNDER APRON - 29"	FLOOR TO RIM - 31"
DRINKING FOUNTAIN	FLOOR TO SPOUT - 36", MAX. FLOOR TO UNDER APRON - 27"	FLOOR TO RIM - 40"
SHOWER VALVE	FLOOR TO VALVE - 42"	FLOOR TO VALVE - 48"
SHOWER HEAD	FLOOR TO HEAD - 60" ON HOSE ADJ. - 48"	FLOOR TO HEAD - 78", VARIES

ABBREVIATIONS

A	AIR
AAP	AREA ALARM PANEL
ACC	ACCESS
ACFM	ACTUAL CUBIC FEET PER MINUTE
ADB	ACID DILUTION BASIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AMPS	AMPERES
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSY	ASSEMBLY
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE ELEVATION
BOT	BOTTOM
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BTWN	BETWEEN
CA	COMPRESSED AIR
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CM	COFFEE MAKER
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONN	CONNECTION / CONNECT
CONTR	CONTRACTOR
CORR	CORRIDOR
CS	CLINICAL SINK / COLD SOFT WATER / CUP SINK
CTE	CONNECT TO EXISTING
CTR	CENTER
CU	COPPER
CRVTR	CORROSIVE VENT THROUGH ROOF
CWW	CLEARWATER WASTE
D	DEPTH / DRAIN LINE
DCW	DOMESTIC COLD WATER
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DHR	DOMESTIC HOT WATER RETURN
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN / DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EEW	EMERGENCY EYEWASH
EFF	EFFICIENCY
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
ES	EMERGENCY SHOWER
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
°F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPERES
FLR	FLOOR
FM	FORCE MAIN
FP	FIREPROOF
FPM	FEET PER MINUTE
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FEET
FTHD	FEET HEAD
FTG	FOOTING
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOSE REEL
HT	HEAT TRACE HOT WATER
HTR	HEATER
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IM	ICE MAKER
IN	INCHES
IN WC	INCHES WATER COLUMN
IW	INDIRECT WASTE
JS	JANITOR'S SINK
KW	KILOWATT
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAV	LAVATORY
LBS	POUNDS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MAP	MASTER ALARM PANEL
MAX	MAXIMUM
MB	MOP BASIN
MBH	ONE THOUSAND BTUH
MC	MECHANICAL CONTRACTOR
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER / OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	PUMP
PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PW	PURE WATER
R	RADIUS
RAD	REFRIGERATED AIR DRYER
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RI	ROUGH-IN
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
S	STORM
SAN	SANITARY
SCH	SCHEDULE
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	SUBSOIL DRAIN
SF	SQUARE FEET
SH	SHOWER
SHT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
SR	SERVICE RECEPTOR
S/S	STAINLESS STEEL
STD	STANDARD
STRU	STRUCTURAL / STRUCTURE
SUCT	SUCTION
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF SLAB / TOP OF STEEL
TF	TRAP FILLER
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
V	VENT / VOLTS
VAC	VACUUM
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THRU ROOF
W	WASTE / WATER
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WGE	WASTE GAS EXHAUST
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WHTR	WATER HEATER
WSFU	WATER SUPPLY FIXTURE UNIT
X	EXISTING
YCO	YARD CLEANOUT
ZVB	ZONE VALVE BOX

Revisions:	Date:

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COMMONWEALTH OF MASSACHUSETTS — MECHANICAL — No. 36415 — REGISTERED PROFESSIONAL ENGINEER

Digitally signed by James Newton
Date: 2026.05.15 10:19:30-04'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title: PLUMBING LEGEND

Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: Bulk Oxygen Corrections

Project Number: VA Project # 523-25-003 WPA Project # WPA1502

Location: Brockton VA Medical Center, VA Boston Healthcare System

Medical Center: VAMC Brockton

Issue Date: 03/25/2026

Checked:

Drawn:

Drawing Number: V1-P001

Autodesk Docs://264778-00 VAMC Bulk Oxygen Correct NFPA Deficiencies/264778-00 VAMC AEI.rvt
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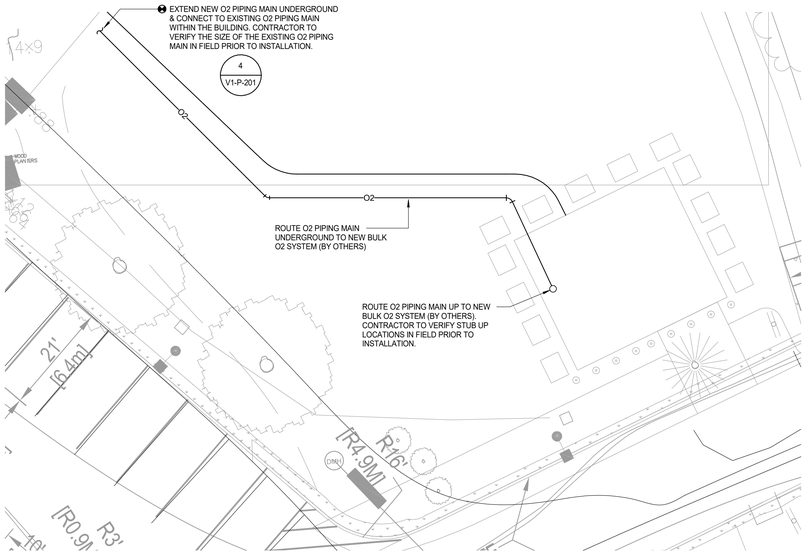
VA FORM 08 - 6231



3 BUILDING 8 SITE PLAN

SCALE: 1" = 1'-0"

1 BUILDING 3 SITE PLAN

SCALE: 1" = 1'-0"

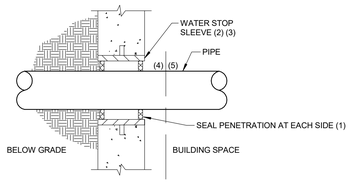
DEMOLITION NOTES

1. PROJECT CONDITIONS
   A. THE CONTRACTOR SHALL COMPLETELY FAMILIARIZE HIMSELF WITH ALL EXISTING BUILDING AND SITE CONDITIONS AND LIMITATIONS WHICH MAY HAVE A BEARING ON THE OPERATIONS HEREIN SPECIFIED, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE DRAWINGS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR UNFORESEEN CONDITIONS THAT CAN BE DETERMINED FROM A CAREFUL EXAMINATION OF THE SITE AND AREAS TO BE RENOVATED.
   B. ITEMS OF VALUE WHICH ARE NOT INDICATED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
   C. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
   D. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING USED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED. COORDINATE ALL WORK WITH OWNER.
   E. ALL WORK MUST BE COORDINATED W/ OWNER PRIOR TO ANY COMMENCEMENT OF WORK.
2. SCOPE OF WORK
   A. ELECTRICAL/SECURITY
      1. COORDINATE WITH OWNER FOR ELECTRICAL SHUTDOWN AND REMOVE ALL LIGHTING AND SECURITY DEVICES AFFIXED TO THE CHAIN-LINK FENCE TO ENABLE ITS REMOVAL.
      2. SECURELY STORE ALL LIGHTING FIXTURES AND SECURITY DEVICES IN A CLEAN, DRY ENVIRONMENT FOR FUTURE REINSTALLATION.
3. REGULATORS REQUIREMENTS
   A. STRICTLY COMPLY WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. HANDLING OF MATERIALS
   A. REMOVE ALL MATERIAL DEBRIS FROM THE SITE AS IT ACCUMULATES. DO NOT STORE, SELL, BURN, OR OTHERWISE DISPOSE OF DEBRIS ON SITE. REMOVE ALL MATERIALS IN SUCH MANNER AS TO PREVENT SPILLAGE. KEEP ALL PAVEMENTS AND AREAS ADJACENT TO AND LEADING FROM THE SITE, CLEAN AND FREE OF MUD, DIRT, AND DEBRIS AT ALL TIMES.
5. TRANSFER OF RESPONSIBILITY AND DISPOSITION OF MATERIALS
   A. UPON RECEIPT OF NOTICE TO PROCEED WITH THE WORK, THE TITLE TO ALL MATERIALS FOR DEMOLITION SHALL BE VESTED IN THE CONTRACTOR WHEREUPON THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SAID PROPERTY. ALL SUCH ITEMS SHALL BE REMOVED FROM THE OWNER'S PROPERTY.
6. CLEAN-UP AND REPAIR
   A. UPON COMPLETION OF DEMOLITION WORK, REMOVE TOOLS, EQUIPMENT AND DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTION AND LEAVE INTERIOR AREAS BROOM CLEAN.
   B. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO EXISTING CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

NEW WORK NOTES

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
3. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
7. ALL PIPING. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN A APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED.
8. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
9. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. STRICTLY COMPLY WITH NFPA, NEC AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.



NOTES:

(1) "LINK SEAL" MODULAR WALL SEAL BY GPT. USE 316 SS NUTS AND BOLTS. INSTALL WITH ADJUSTMENT NUTS TO INTERIOR SIZE.

(2) REFER TO SPECIFICATION SECTION 22 0000 FOR ADDITIONAL REQUIREMENTS.

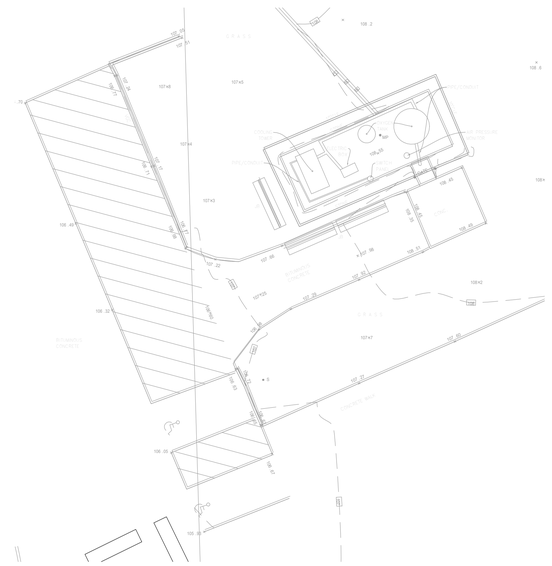
(3) FOR CORE DRILLED HOLE, INSTALL "LINK SEAL" SEAL BETWEEN PIPE AND OPENING WITHOUT SLEEVE. SIZE OPENING AS RECOMMENDED BY SEAL MANUFACTURER.

(4) UNDERGROUND PIPE INCLUDING PRE-INSULATED PIPE IF USED.

(5) INDOOR PIPE.

4 PIPE THROUGH FOUNDATION WALL INTO BUILDING SPACE

SCALE: NTS



2 BUILDING 4 SITE PLAN

SCALE: 1" = 1'-0"

Revisions:	Date:

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PROFESSIONAL ENGINEER
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Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Key Plan

Drawing Title
PLUMBING PLAN BUILDING 3,4 AND 8

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date
03/25/2026

Checked

Drawn

Drawing Number
V1-P201

VA FORM 08 - 6231

Autodesk Docs://204178-00 VAMC Bulk Oxygen Correct NFPA Deficiencies/204178-00 VAMC AEI.rvt
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DEMOLITION NOTES

1. PROJECT CONDITIONS
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XR- REMOVE TO BE RELOCATED

NEW WORK NOTES

GENERAL:
1. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
2. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NFPA AND ALL APPLICABLE FEDERAL AND VA DESIGN GUIDES.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL HVAC, PROCESS PIPING, SPRINKLER PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
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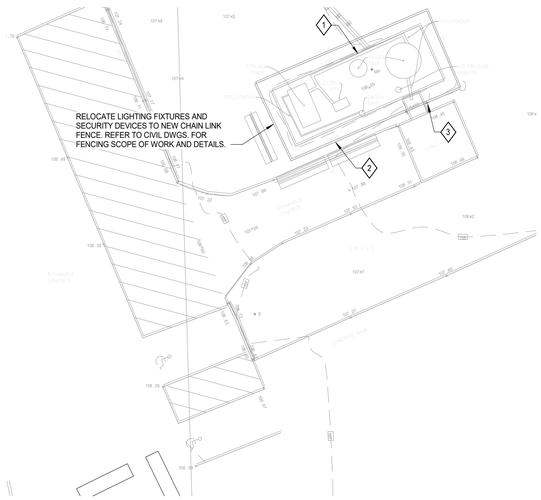
6. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
7. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

SCOPE OF WORK:
A. ELECTRICAL/SECURITY
   1. MOUNT ELECTRICAL FIXTURES AND SECURITY DEVICES TO NEW FENCE.
   2. EXTEND WIRING TO ELECTRICAL FIXTURES AND SECURITY DEVICES.
   3. COORDINATE WITH OWNER TO RE-COMMISSION THE SYSTEM.

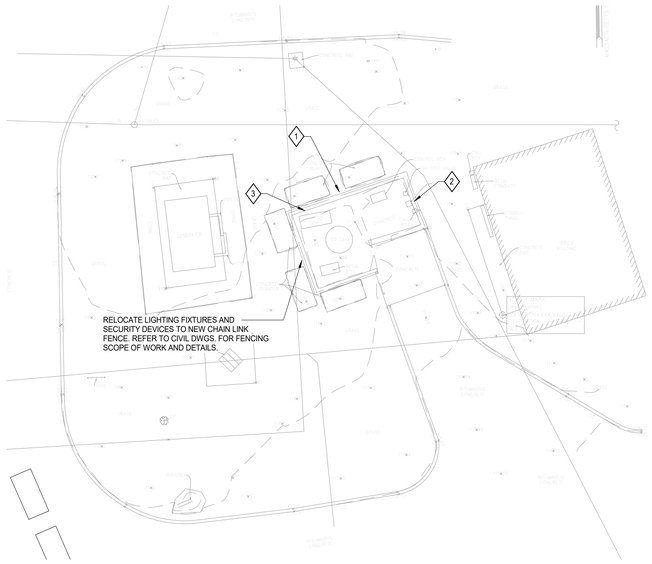
XL - RELOCATED

KEY NOTES

1. ANY EXISTING GROUNDING ELECTRODE CONNECTIONS ON FENCE SHALL BE REMOVED BY CONTRACTOR. GROUNDING ELECTRODE SHALL BE REINSTALLED ON NEW FENCE USING 4 AWG COPPER WIRE FOR NEC COMPLIANCE.
2. ANY EXISTING LIGHTING FIXTURES PRESENT ON FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. LIGHTING FIXTURES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.
3. ANY SECURITY DEVICES AFFIXED TO THE EXISTING FENCE SHALL BE REMOVED AND KEPT IN FUNCTIONING ORDER. SECURITY DEVICES SHOULD THEN BE REINSTALLED ON THE NEW FENCE.
4. EXTEND EXISTING POWER AND LOW VOLTAGE CABLING AT EXISTING PAD TO NEW LOCATION SHOWN. SEE DETAIL #4 ON SHEET V1-E800 FOR CONDUIT SIZE AND DUCTBANK DETAIL.



2 BUILDING 4 SITE PLAN ELECTRICAL
SCALE: 1" = 1'-0"



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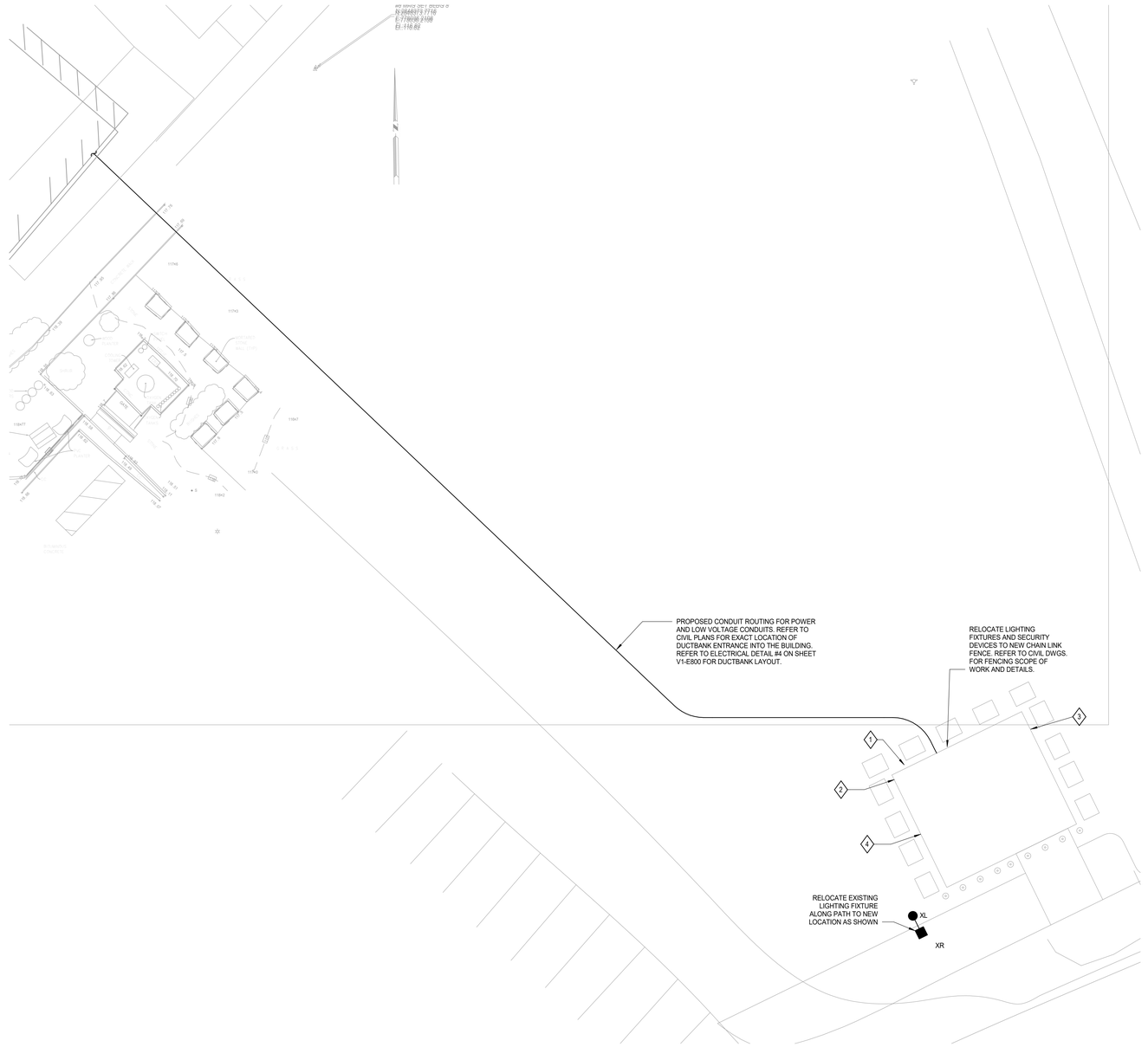
SCALE: 1" = 1'-0"



3 BUILDING 8 SITE PLAN ELECTRICAL
SCALE: 1" = 1'-0"

Revisions:	Date:

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Date: 2026.05.14 18:58:39-04'00'

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
ELECTRICAL PLAN BUILDING 3,4 AND 8

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
Bulk Oxygen Corrections

Project Number
VA Project # 523-25-003
WPA Project # WPA1502

Location
Brockton VA Medical Center
VA Boston Healthcare System

Medical Center
VAMC Brockton

Issue Date 03/25/2026
Checked
Drawn

Drawing Number
V1-E201

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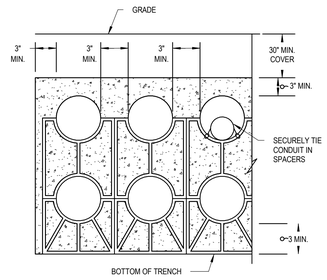
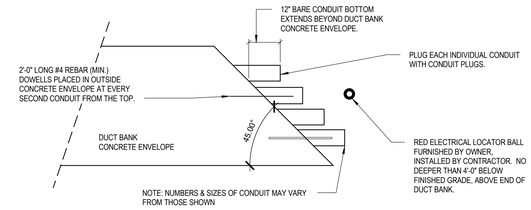


NOTES:

(1) SEE DETAIL #4 FOR DUCT BANK SECTIONS.

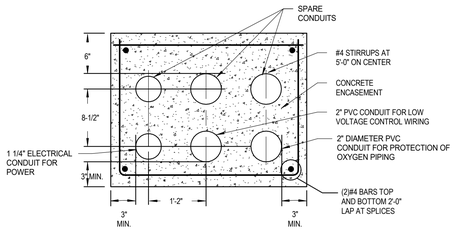
3 UNDERGROUND DUCT DETAIL

SCALE: N.T.S.



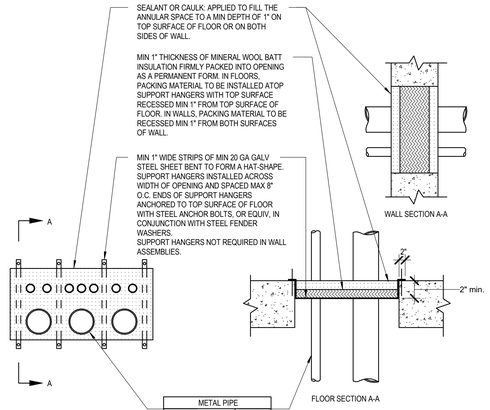
1 ELECTRICAL DUCTBANK TERMINATIONS

SCALE: N.T.S.



4 UNDERGROUND DUCT SECTION

SCALE: N.T.S.



METAL PIPE	
TYPE	MAX DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	6"
STEEL CONDUIT	4"
EMT	4"

NOTES:

1. FLOOR/WALL ASSEMBLY — MIN 2-1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WHEN AREA OF THROUGH OPENING EXCEEDS 144 SQ IN., MIN CONCRETE THICKNESS IS 4-1/2". WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX AREA OF THROUGH OPENING NOT TO EXCEED 560 SQ IN. WITH MAX WIDTH DIMENSION OF 14".

2. THROUGH-PENETRANTS — MULTIPLE PIPES AND/OR CONDUITS PERMITTED IN OPENING PROVIDED A MIN SEPARATION OF 1/2" IS MAINTAINED BETWEEN PIPES OR CONDUITS. MIN ANNULAR SPACE BETWEEN PIPES OR CONDUITS AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). MAX ANNULAR SPACE IS 6". PIPES AND CONDUITS RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

2 MULTIPLE PIPES THROUGH CONCRETE WALL/FLOOR ASSEMBLY (2-HR.)

SCALE: N.T.S.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Key Plan

Drawing Title
ELECTRICAL DETAILS

Approved:

Phase
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Project Title
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Issue Date: 03/25/2026
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