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EXISTING FEATURES

SYMBOL	DESCRIPTION
CONC.	CONCRETE
⊙	MONITORING WELL
⊕	MANHOLE
⊕	HYDRANT
⊕	WATER GATE
⊕	CDM SMITH WETLAND FLAG
⊕	AES WETLAND FLAG
⊕	POST
⊕	APPROXIMATE BORING LOCATION
D	DRAIN
E	ELECTRIC
S	SANITARY
W	WATER
C	COMMUNICATIONS
U.P. 90	UTILITY POLE
— ± —	ABUTTER'S PROPERTY LINE (±)
— UE —	UNDERGROUND ELECTRICAL LINE
— UT —	UNDERGROUND TELEPHONE LINE
— 150 —	INTERMEDIATE CONTOUR LINE
— 150 —	INDEX CONTOUR LINE
— 150 —	METAL FENCE
— 150 —	TREELINE
— 150 —	GUARD RAIL

NEW FEATURES

SYMBOL	DESCRIPTION
— CS —	CATCH BASIN FILTER
— CS —	COMPOST SOCK
— CS —	APPROXIMATE LIMIT FENCE TO BE REMOVED
L&S	LIMIT OF 6" LAYER LOAM AND NATURAL AREA SEED MIX
— 1 —	SECTION SYMBOLS
—	PIPELINE, LESS THAN 20" DIA
— O —	SEWER, DRAIN OR PROCESS DRAIN AND MANHOLE
— B —	CATCH BASIN AND DRAIN
— X —	GATE VALVE
— V —	PLUG VALVE
— F —	FIRE HYDRANT ASSEMBLY
— H —	YARD HYDRANT
— P —	PLUG AND CAP
—	CHAIN LINK FENCE
○	BOLLARD
+ 300.00	SPOT ELEVATION
300	INDEX CONTOUR
302	INTERMEDIATE CONTOUR
—	LIMIT OF PAVING
—	LIMIT OF DISTURBANCE
⊗	CURB STOP AND BOX
— T —	CLEAN OUT

NEW FEATURES

SYMBOL	DESCRIPTION
APPROX	APPROXIMATE
BIT CONC	BITUMINOUS CONCRETE
BC	BOTTOM OF CURB
CB	CATCH BASIN
CB#	LIMIT OF EXCEPTIONAL RESOURCE VALUE WETLANDS
CJ	CONTROL JOINT
℄	CENTERLINE
CONN	CONNECTION/CONNECTOR
CONC	CONCRETE
DEG	DEGREE
DIA	DIAMETER
DMH	DRAIN MANHOLE
EJ	EXPANSION JOINT
EL	ELEVATION
EXIST	EXISTING
FIN	FINISHED
FLEX	FLEXIBLE
FLR	FLOOR
GC	GRANITE CURB
GEN	GENERATOR
INV EL	INVERT ELEVATION
L&S	LOAM AND SEED
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIL	MILLIMETER
MIN	MINIMUM
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
PSMH	PROCESS DRAIN MANHOLE
PS	PUMP STATION
RD	ROAD
RIM EL	RIM ELEVATION
SCH	SCHEDULE
SWGR	SWITCH GEAR
SMH	SEWER MANHOLE
STA	STATION
STRU	STRUCTURAL
SW	SIDEWALK
T	TRANSFORMER
TC	TOP OF CURB
TS	TOP OF SLAB
TYP	TYPICAL
W/	WITH
WG	WATER GATE
VGC	VERTICAL GRANITE CURB

PROCESS FLOW STREAMS

BWR	BACKWASH RETURN
BWS	BACKWASH SUPPLY
D	DRAIN
G	GAS
OVF	OVERFLOW
PHOS	PHOSPHATE
RW	RAW WATER
SAN	SANITARY
SHC	SODIUM HYPOCHLORITE
SPL	SAMPLE
TV	TREATED WATER
VT	VENT

PIPE MATERIALS

ACP	ASBESTOS CONCRETE
CI	CAST IRON
STL	STEEL
CU	COPPER
CPVC	CHLORINATED POLYVINYL CHLORIDE
DI	DUCTILE IRON
DIGL	DUCTILE IRON GLASS LINED
FRP	FIBERGLASS REINFORCED PLASTIC
GS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PVC	POLYVINYL CHLORIDE STEEL PIPE
POLYP	POLYPROPYLENE
PPSTL	POLYPROPYLENE LINED STEEL PIPE
RC	REINFORCED CONCRETE SEWER PIPE
RUB	RUBBER
SS	STAINLESS STEEL
BS	BLACK STEEL PIPE

EXISTING CONDITIONS AND REMOVAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY THROUGHOUT THE DURATION OF THE CONTRACT.
- UTILITY LOCATIONS AND INFORMATION ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND REPORT ANY DISCREPANCIES TO THE OWNER/ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES. CONTACT THE DIG SAFE CALL CENTER AT 1(888)344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION, GRADING AND/OR PAVING ACTIVITIES.
- CONTRACTOR SHALL IDENTIFY AND PROTECT ALL ON-SITE STRUCTURES AND VEGETATION TO REMAIN UNLESS OTHERWISE NOTED THROUGHOUT THE DURATION OF THE CONTRACT.
- NO WORK SHALL OCCUR OUTSIDE THE LIMIT OF WORK WITHOUT PRIOR APPROVAL BY THE OWNER. DAMAGE/DISTURBANCE TO ALL AREAS OF WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- EXISTING TREES AND THEIR ROOTS TO BE PRESERVED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO STOCKPILING, STAGING OF MATERIALS, ETC.
- EXCESS SOILS, ORGANIC MATTER AND OTHER EXCAVATE NOT TO BE REUSED SHALL BE REMOVED AND DISPOSED FROM THE SITE AS SPECIFIED.

EROSION AND SEDIMENTATION CONTROL NOTES

- ALL WORK SHALL CONFORM TO MASSACHUSETTS D.E.P. GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL LATEST VERSION.
- CONTRACTOR SHALL INSPECT SEDIMENT AND EROSION CONTROL MEASURES AFTER EACH STORM EVENT AND REPAIR EROSION DAMAGE AS NECESSARY. MAINTENANCE SHALL INCLUDE CLEANING AND/OR REPLACEMENT OF MEASURES THAT ARE NO LONGER FUNCTIONAL AS DETERMINED BY THE OWNER.
- SCHEDULES FOR GRADING AND MULCH PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND SATISFACTORY DISPOSAL OF ALL TREE PROTECTION AND SEDIMENT CONTROL STRUCTURES UPON COMPLETION OF ALL WORK AND SOIL STABILIZATION AS DIRECTED BY THE OWNER.

SURVEY NOTES

- THE REFERENCE DATUM ARE AS FOLLOWS: HORIZONTAL—NAD83, VERTICAL—NAVD1988.
- EXISTING CONDITIONS SURVEY CONDUCTED BY HANCOCK ASSOCIATES OF BOSTON, MA IN NOVEMBER 2021.
- LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY, PLANS OF RECORD AND OTHER AVAILABLE SOURCES. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE BEFORE EXCAVATION. ALL UTILITIES TO BE VERIFIED IN FIELD BY BORINGS OR TEST HOLES FOR CONFLICTS OR TIE-INS OF PROPOSED WORK.
- CONFIRM EXISTING GRADES AND LOCATIONS OF BURIED UTILITIES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- LAYOUT, LOCATION, AND GRADES OF ALL ELEMENTS SHALL BE STAKED BY THE CONTRACTOR AND CONFIRMED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- WETLAND FLAGS WERE DELINEATED BY CDM SMITH AND FIELD LOCATED BY HANCOCK ASSOCIATES.

GENERAL NOTES

- IT IS NOT WARRANTED THAT ALL EXISTING ABOVE GROUND AND UNDERGROUND STRUCTURES, EQUIPMENT, PIPING AND ELECTRICAL CONDUITS ARE SHOWN. NOR IS IT WARRANTED THAT LOCATIONS AND SIZES OF STRUCTURES AND UTILITIES ARE EXACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SIZES AND LOCATIONS OF EXISTING EQUIPMENT, PIPING, ETC. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.
- ALL MATERIALS TO BE REMOVED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED TO AN ON-SITE LOCATION ARRANGED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE LOCATION OF STOCKPILED TOPSOIL, INCLUDING SCREENING OPERATIONS, SHALL BE IN ON-SITE AREAS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WORK TO ENSURE CONTINUED OPERATIONS OF AND ACCESS TO, ALL EXISTING FACILITY STRUCTURES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REMOVE AND DISPOSE OF EXISTING GRAVEL DRIVEWAY WITHIN LIMITS SHOWN ON DRAWINGS TAKING CARE NOT TO DAMAGE EXISTING WALLS, BUILDINGS OR UTILITY STRUCTURES.
- CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO EXISTING WELL BUILDING THROUGHOUT THE DURATION OF THE CONTRACT. CONTRACTOR SHALL LIMIT CONSTRUCTION ACCESS TO AREAS DESIGNATED ON THE DRAWINGS AND AS INDICATED BY THE OWNER.

YARD PIPING GENERAL NOTES

- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION BY DIGGING TEST PITS (WHETHER OR NOT INDICATED ON THE DRAWINGS) WHERE UTILITY INFORMATION IS ESSENTIAL.
- PRIOR TO ANY EXCAVATION WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE DETAILS OF THE PROJECT AREA. THE CONTRACTOR SHALL COORDINATE WITH DEPARTMENT PERSONNEL AND OWNER AND REVIEW ANY DRAWINGS THAT MAY BE AVAILABLE. CONTRACTOR SHALL ENSURE THAT EXISTING UTILITIES WITHIN THE WORK OF THIS CONTRACT ARE NOT DAMAGED. UTILITIES DAMAGED DURING EXCAVATION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST.
- PERFORM EXCAVATIONS CLOSE TO EXISTING UTILITIES BY HAND TO DETERMINE EXACT UTILITY LOCATION PRIOR TO INSTALLING EXCAVATION BRACING OR BEFORE MACHINE EXCAVATION.
- ALL NEW WATER PIPES SHALL HAVE RESTRAINED JOINTS AS SPECIFIED.
- TEST PITS SHALL BE DUG TO LOCATE EXISTING PIPES TO WHICH NEW PIPES ARE TO BE CONNECTED, AND WHERE NECESSARY TO DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO PIPES INSTALLED BY PLUMBING SUBCONTRACTOR.
- FOR ADDITIONAL DETAILS OF EXISTING BURIED PROCESS PIPING, SEE CIVIL DRAWINGS.

LAYOUT PLAN NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND PROTECT ALL ON-SITE STRUCTURES AND VEGETATION IDENTIFIED ON THE PLANS, OR BY THE ENGINEER, TO BE RETAINED ON THE SITE THROUGHOUT THE CONSTRUCTION PROJECT.
- LOCATIONS OF CONCRETE PADS, PAVEMENTS, CURBS, BOLLARDS, FENCES, CRUSHED STONE, GATES, VEGETATION, AND SIGNS ARE APPROXIMATE ONLY. FINAL LOCATIONS SHALL BE DETERMINED AND STAKED BY THE CONTRACTOR IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF WALL. ALL DIMENSIONS FOR TANKS ARE TO OUTSIDE FACE OF WALL. ALL DIMENSIONS FOR CONCRETE PADS ARE TO EDGE OF PAD. ALL DIMENSIONS FOR FENCES ARE TO CENTER OF FENCE.
- ALL ITEMS TO BE REMOVED AND DISPOSED SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- ITEMS SLATED FOR RE-USE SHALL BE STORED IN A CLEAN, DRY PLACE, PRIOR TO RELOCATION ON SITE.
- ITEMS REMOVED AND INDICATED TO REMAIN PROPERTY OF THE OWNER SHALL BE DELIVERED TO AN AREA ON-SITE AS SPECIFIED BY THE OWNER.
- AREAS DISTURBED BY SITE PREPARATION AND CONSTRUCTION ACTIVITIES AND NOT COVERED WITH ASPHALT, CONCRETE, CRUSHED STONE, OR RIPRAP SHALL RECEIVE A 6" LAYER OF LOAM AND NATURAL AREA SEED MIX.

GRADING AND DRAINAGE NOTES

- CONTRACTOR SHALL NOTIFY OWNER OF OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES FOR AS-BUILT AS APPROVED BY THE ENGINEER.
- LOCATION OF STOCKPILED MATERIALS SHALL BE IN AREAS APPROVED BY THE OWNER.
- IF EXISTING TREES, LARGE ROOTS, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
- ALL SLOPES 3:1 OR STEEPER SHALL RECEIVE EROSION CONTROL BLANKET.

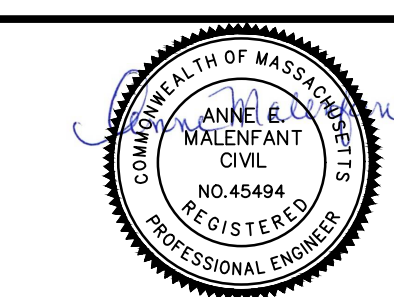
PLANTING NOTES

- ALL TREES SHALL BE UNIFORM AND WELL-BRANCHING SPECIMENS.
- ALL PLANTS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.
- ALL PLANTING BEDS AND SAUCERS SHALL HAVE A CONTINUOUS LAYER OF 3 INCH DEPTH MULCH AS SPECIFIED.
- ALL PLANT LOCATIONS AND BOUNDARIES OF PLANTING AREAS TO RECEIVE SEED MIXTURES OR OTHER SPECIFIED PLANT MATERIALS SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO PLANTING.
- ALL SHRUBS, GRASSES, AND PERENNIALS SHALL BE SPACED A MINIMUM OF 3 FEET FROM EXISTING AND PROPOSED TREE TRUNKS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	K. DRAKE
DRAWN BY:	A. MURRAY
SHEET CHK'D BY:	X
CROSS CHK'D BY:	X
APPROVED BY:	X
DATE:	JULY 2023

CDM Smith
 75 State Street, Suite 701
 Boston, MA 02109
 Tel: (617) 452-6000

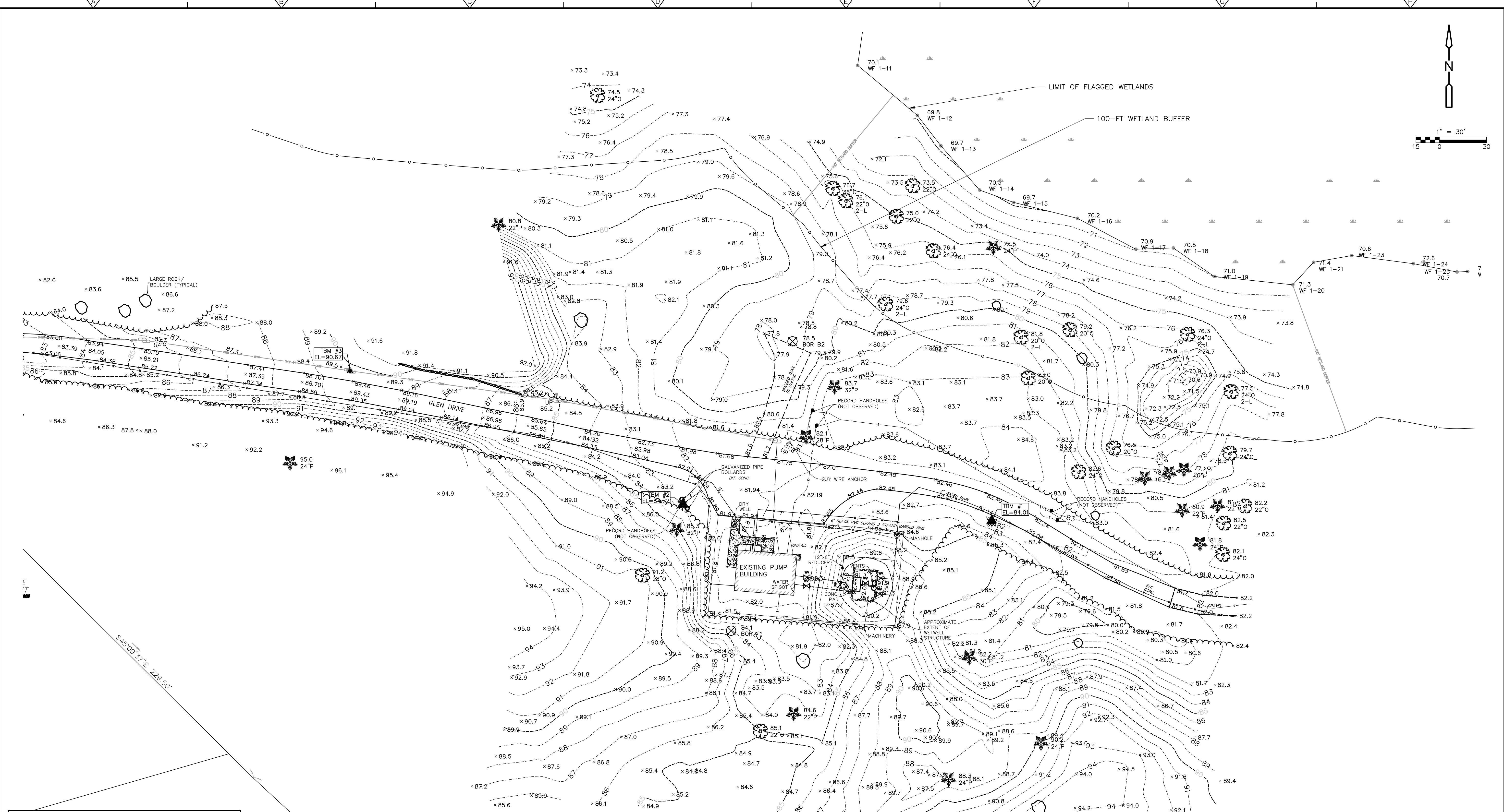


LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

NOTES AND LEGEND

PROJECT NO.	0690-265722
FILE NAME:	CO01EXPL.DWG
SHEET NO.	C-1

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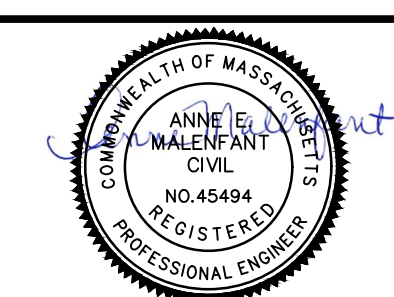


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BENCHMARK NUMBER	NORTHING	EASTING	ELEVATION
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#2	3029436.73	777144.19	84.72
#3	3029521.86	776932.14	90.67

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

CDM Smith
 75 State Street, Suite 701
 Boston, MA 02109
 Tel: (617) 452-6000



LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

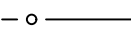
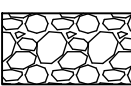
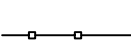
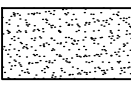

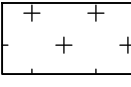
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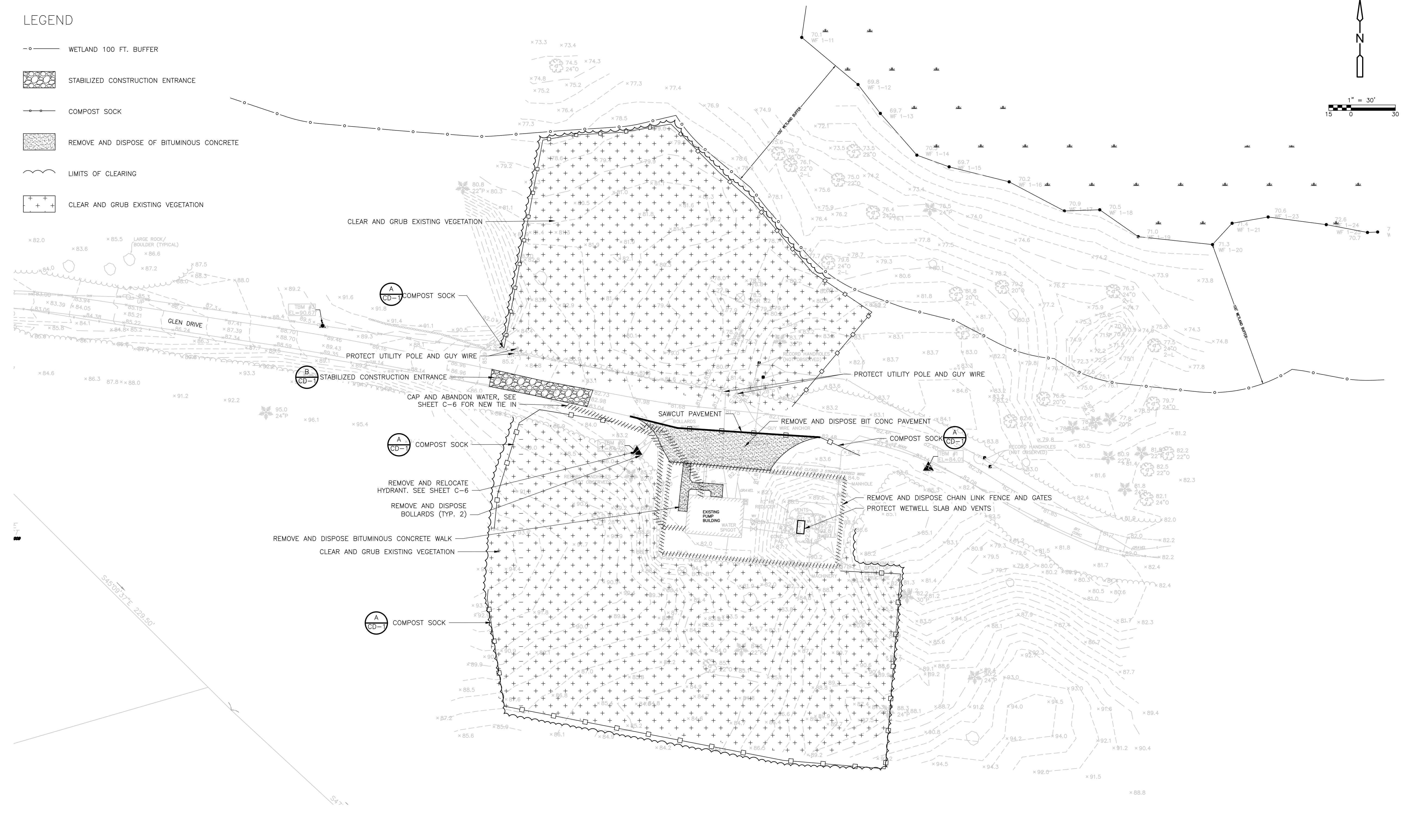
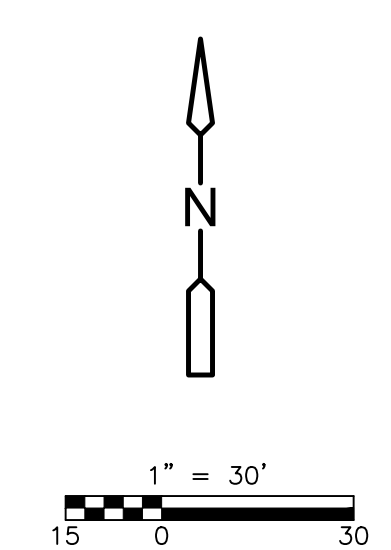
PROJECT NO. 0690-265722
 FILE NAME: C001EXPL.DWG
 SHEET NO.
C-2

PERMITTING SUBMITTAL

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LEGEND

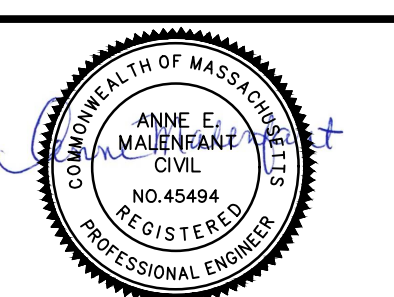
-  WETLAND 100 FT. BUFFER
-  STABILIZED CONSTRUCTION ENTRANCE
-  COMPOST SOCK
-  REMOVE AND DISPOSE OF BITUMINOUS CONCRETE
-  LIMITS OF CLEARING
-  CLEAR AND GRUB EXISTING VEGETATION



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

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 75 State Street, Suite 701
 Boston, MA 02109
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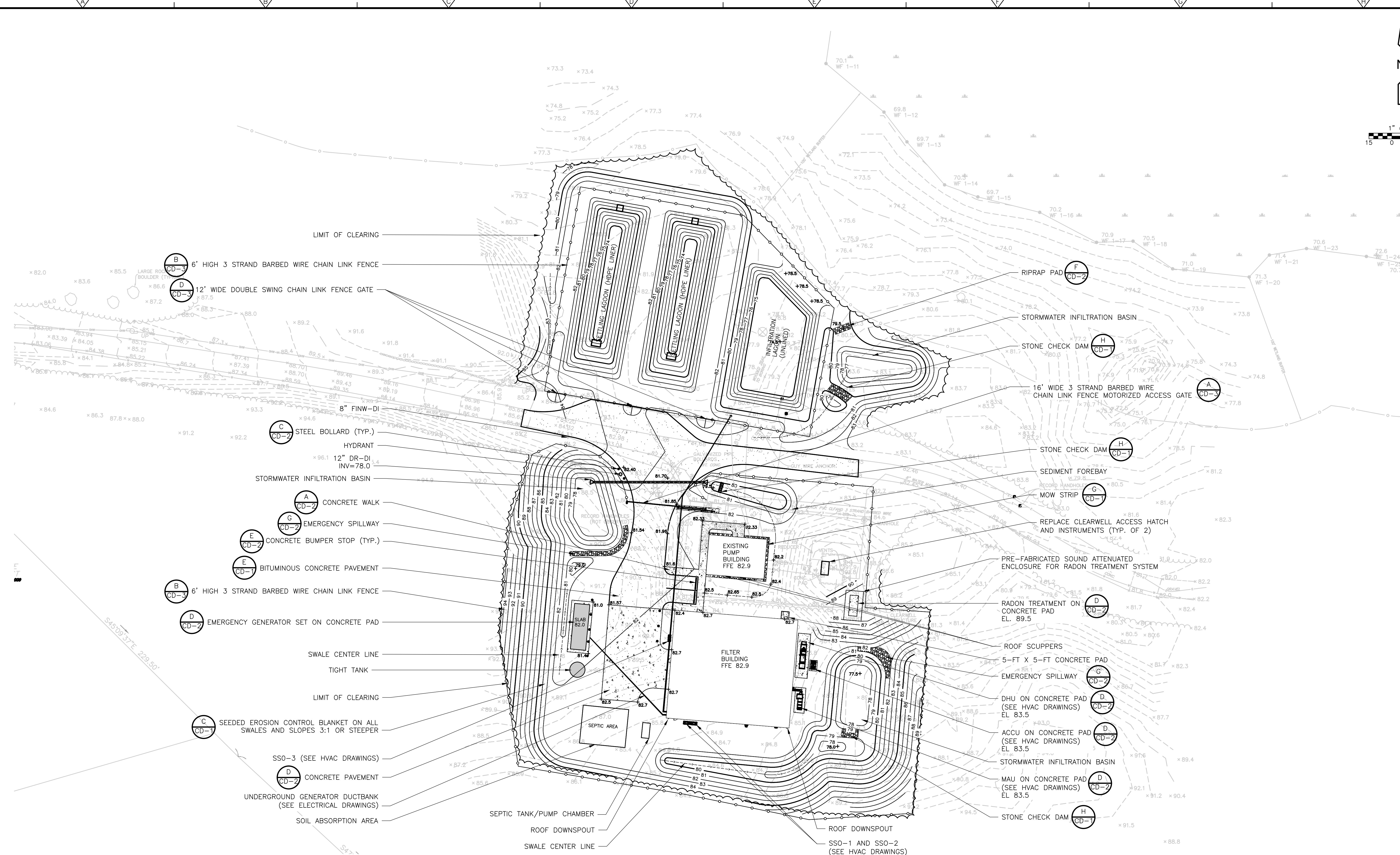
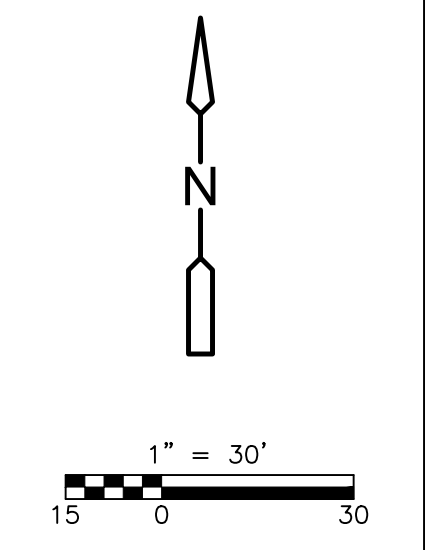


LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

REMOVALS AND EROSION AND SEDIMENTATION CONTROL PLAN

PROJECT NO. 0690-265722
 FILE NAME: C003ESPL.DWG
 SHEET NO. **C-3**

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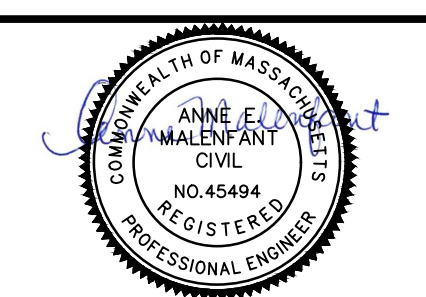


PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

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 Tel: (617) 452-6000



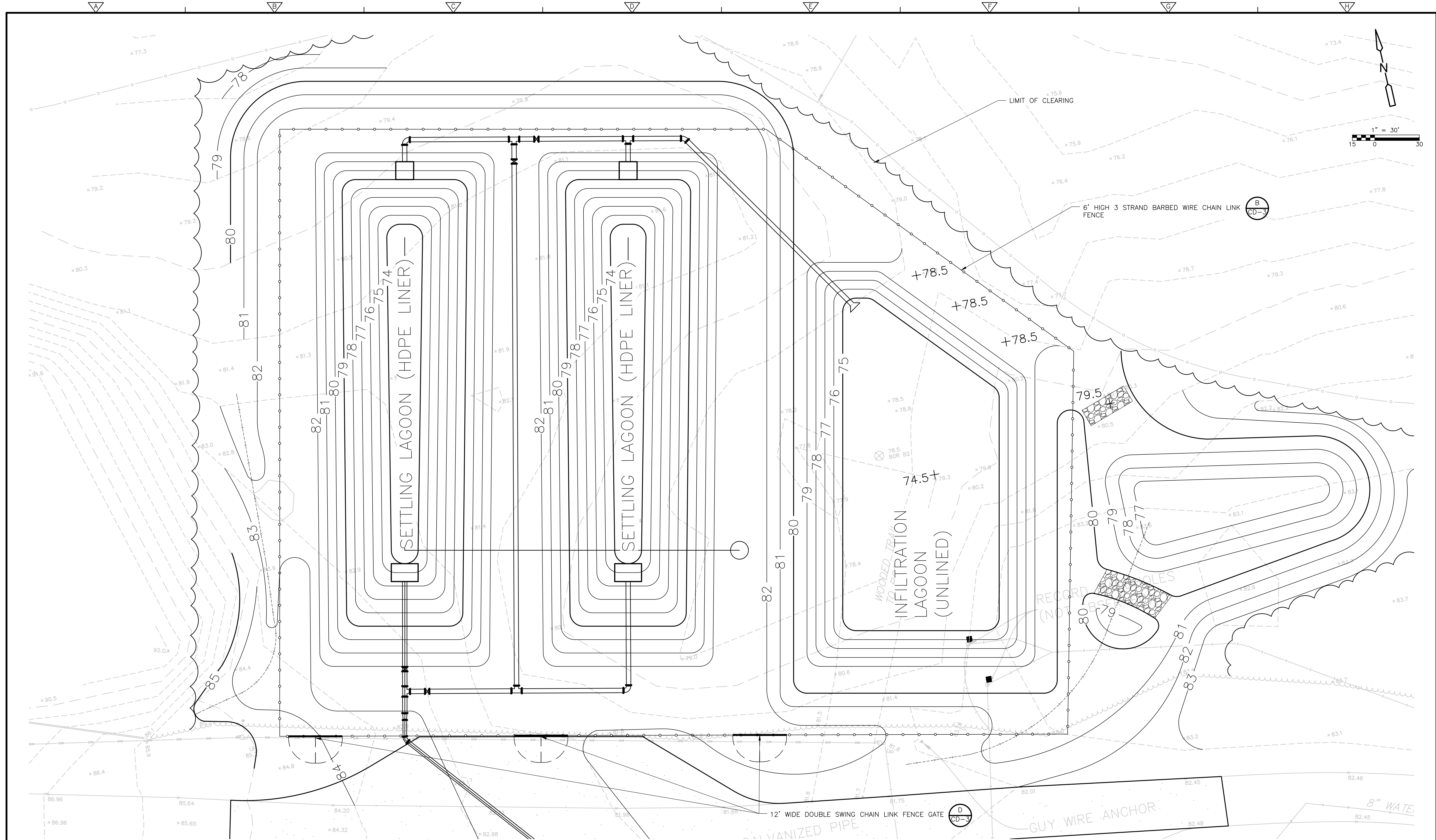
LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

SITE PLAN

PROJECT NO. 0690-265722
 FILE NAME: C004STPL.DWG
 SHEET NO.
C-4

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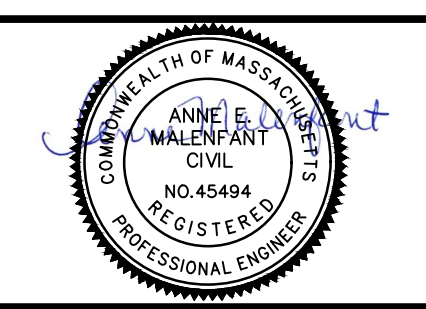


PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

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 75 State Street, Suite 701
 Boston, MA 02109
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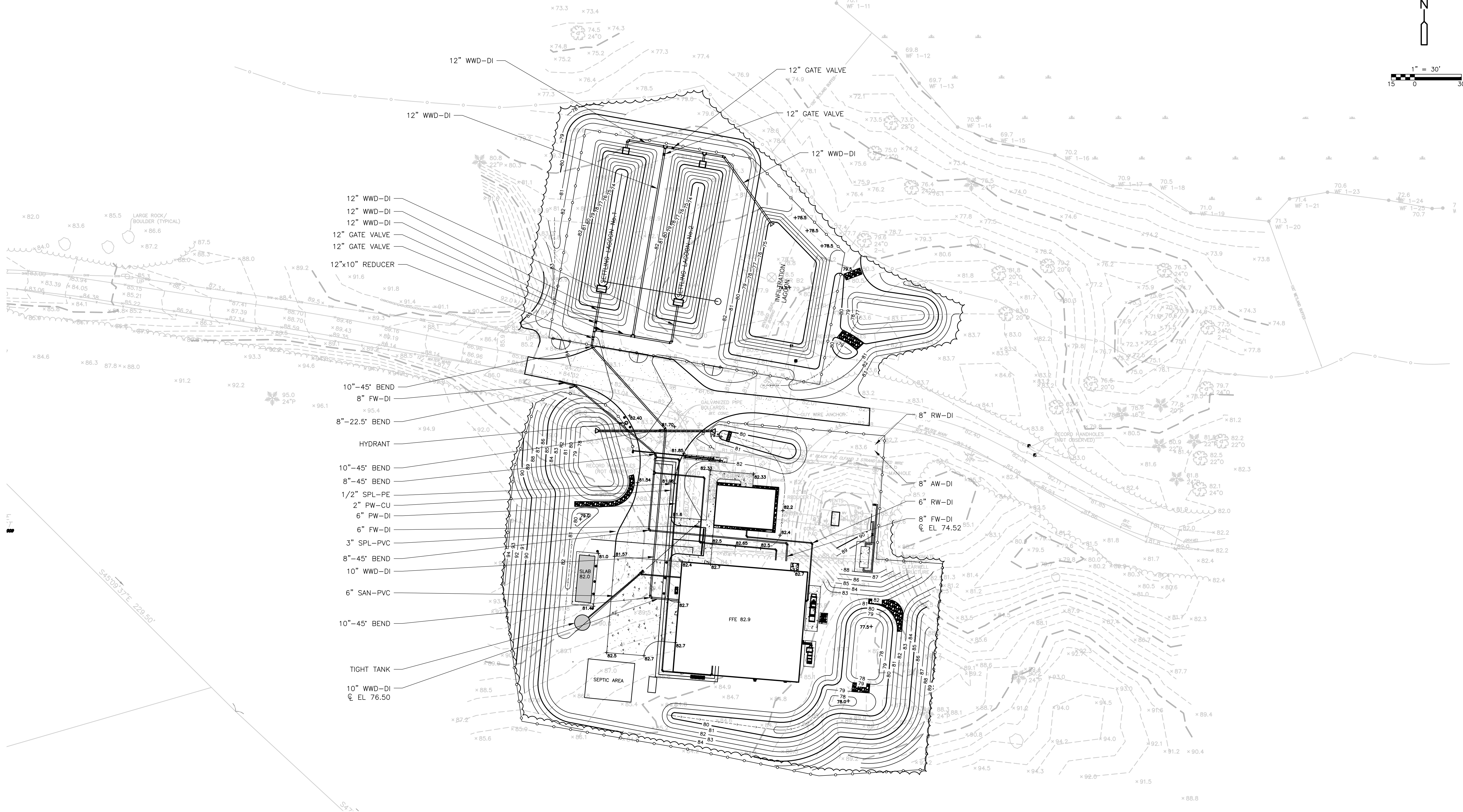
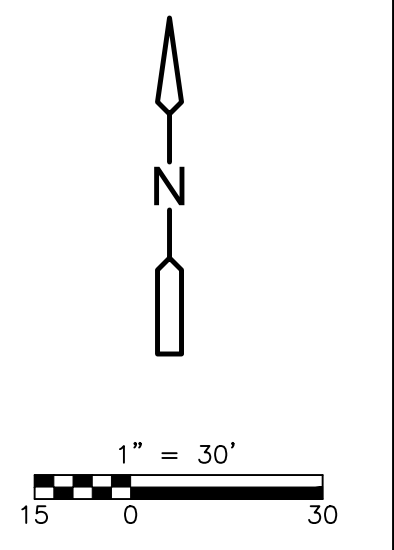


LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

SITE PLAN II

PROJECT NO. 0690-265722
 FILE NAME: C005STPL.DWG
 SHEET NO.
C-5

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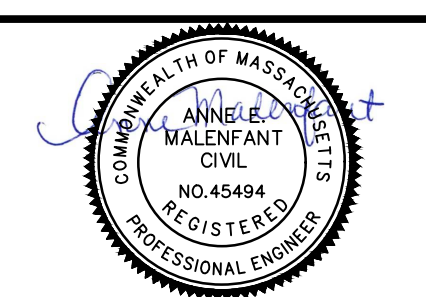


- 12" WWD-DI
- 12" WWD-DI
- 12" WWD-DI
- 12" GATE VALVE
- 12" GATE VALVE
- 12"x10" REDUCER
- 10"-45° BEND
- 8" FW-DI
- 8"-22.5° BEND
- HYDRANT
- 10"-45° BEND
- 8"-45° BEND
- 1/2" SPL-PE
- 2" PW-CU
- 6" PW-DI
- 6" FW-DI
- 3" SPL-PVC
- 8"-45° BEND
- 10" WWD-DI
- 6" SAN-PVC
- 10"-45° BEND
- TIGHT TANK
- 10" WWD-DI
- EL 76.50

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. CAREY
 DRAWN BY: S. CAREY
 SHEET CHK'D BY: M. LEDOUX
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023



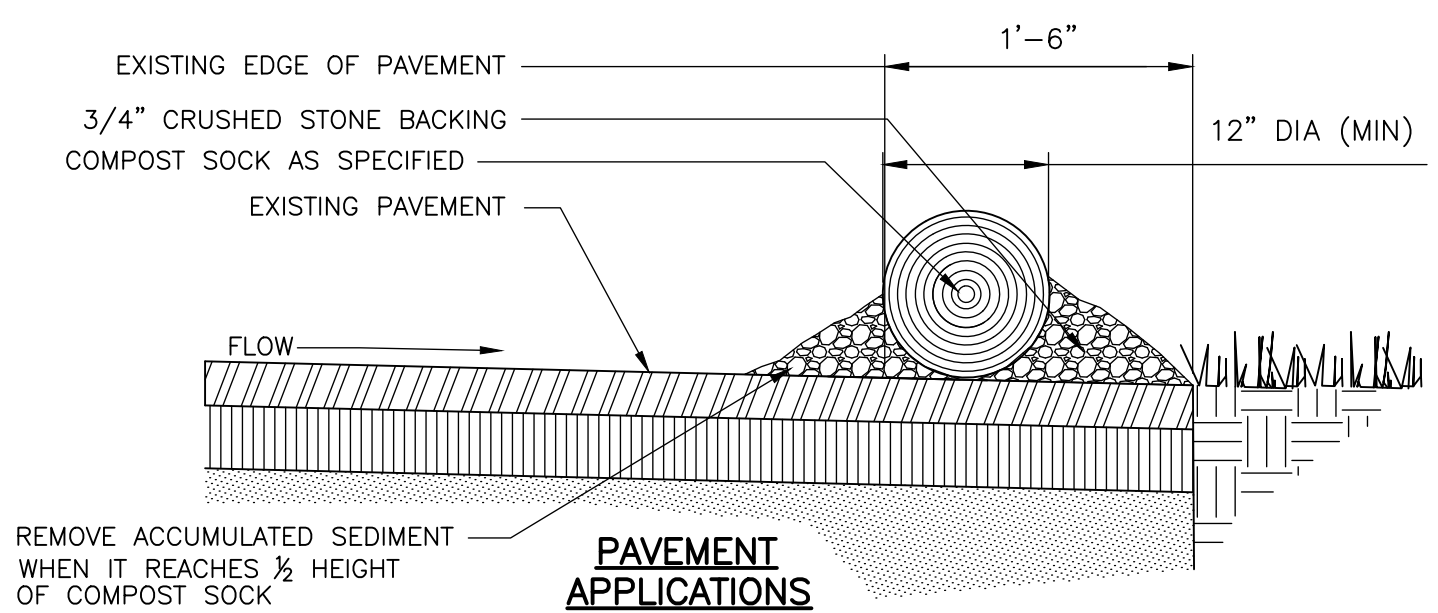
LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

YARD PIPING PLAN

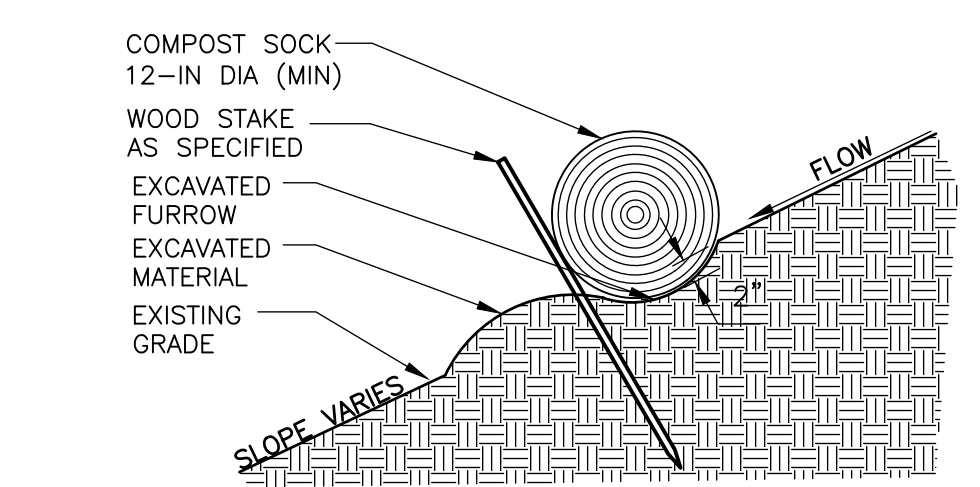
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 SHEET NO. C-6

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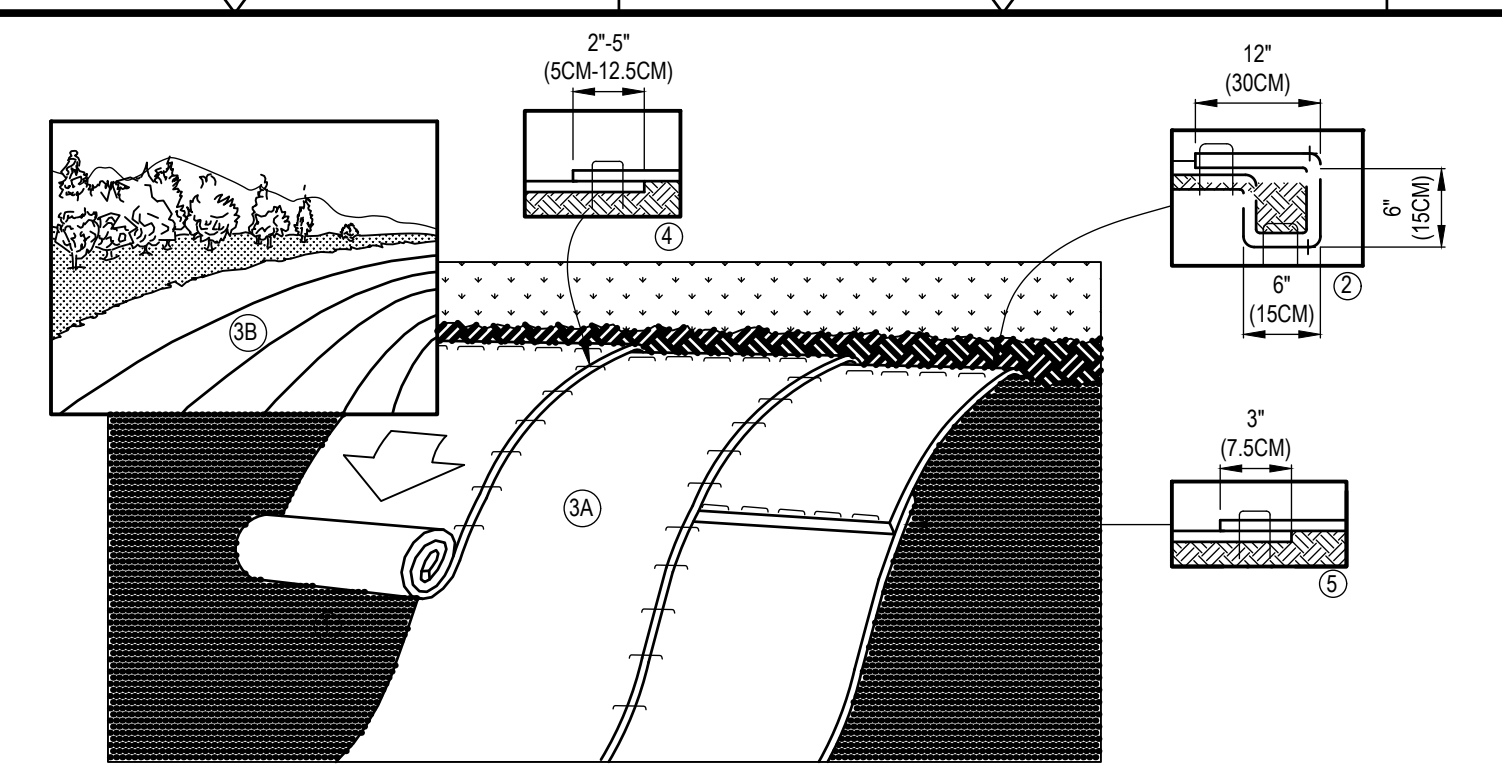
PAVEMENT APPLICATIONS



LANDSCAPE APPLICATIONS

TYPICAL COMPOST SOCK DETAIL

DETAIL A
SCALE: NTS
CD-1

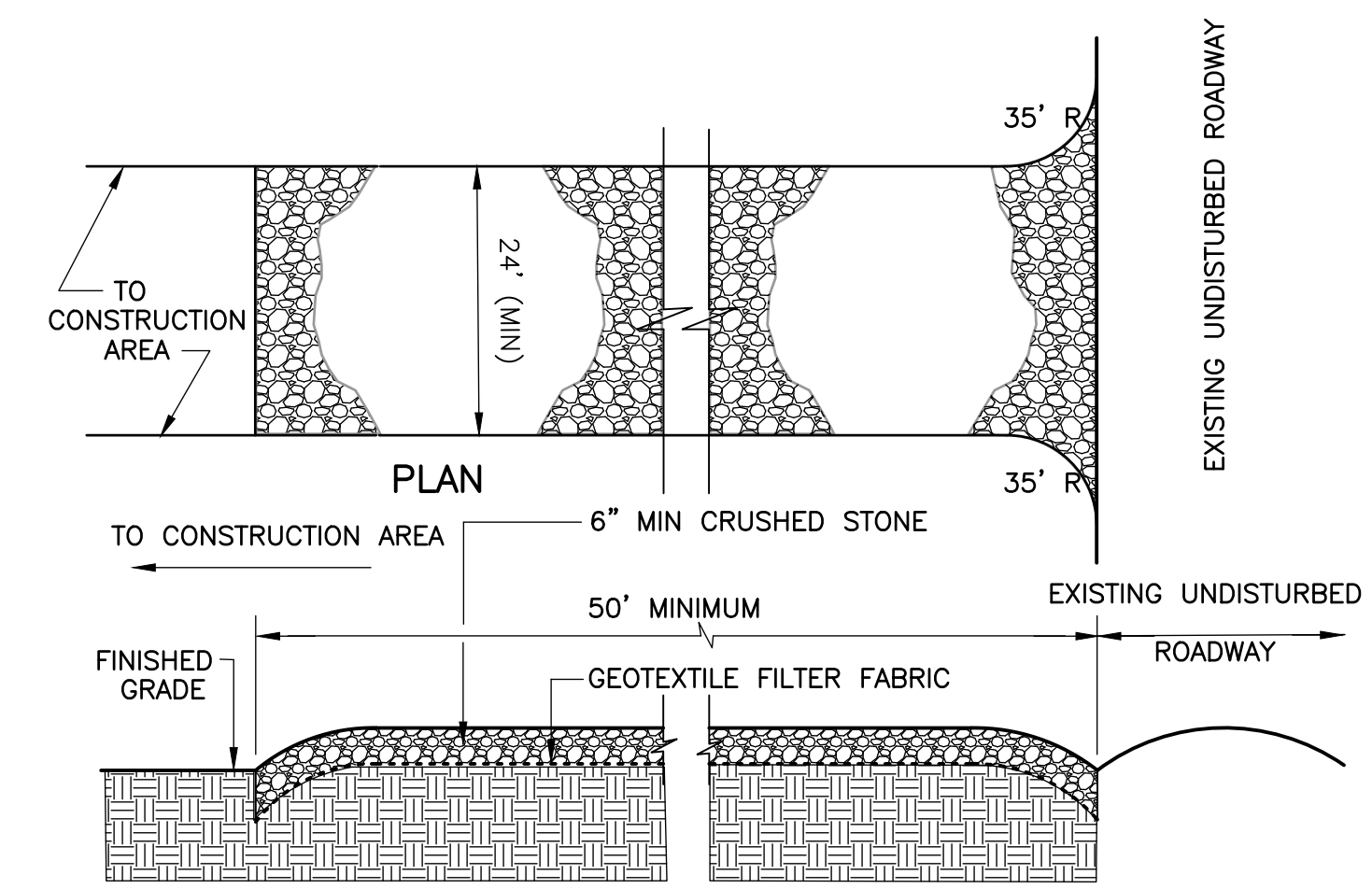


SLOPE INSTALLATION

1. EROSION CONTROL BLANKETS TO BE INSTALLED AS SHOWN ON PLANS AND ON ALL SLOPES 3:1 OR STEEPER.
2. EROSION CONTROL BLANKET PRODUCTS SHALL BE AS INDICATED IN SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.
3. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF SOIL AMENDMENTS (INCLUDING PH ADJUSTMENT, COMPOST AND FERTILIZER) AND SEED AS INDICATED IN THE SPECIFICATIONS AND DRAWINGS.
4. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF BIODEGRADABLE STAKES OR PINS APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAKES/PINS SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE BLANKET.
5. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES/PINS IN AN APPROPRIATE PATTERN AND SPACING AS RECOMMENDED BY THE EROSION CONTROL BLANKET MANUFACTURER.
6. THE EDGES OF PARALLEL BLANKETS MUST BE STAKED WITH APPROXIMATELY 2"-5" (5CM-12.5CM) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
7. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE BLANKET WIDTH.
8. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. IN LOOSE SOIL CONDITIONS STAKE LENGTHS GREATER THAN 6" (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET

DETAIL C
NOT TO SCALE
CD-1

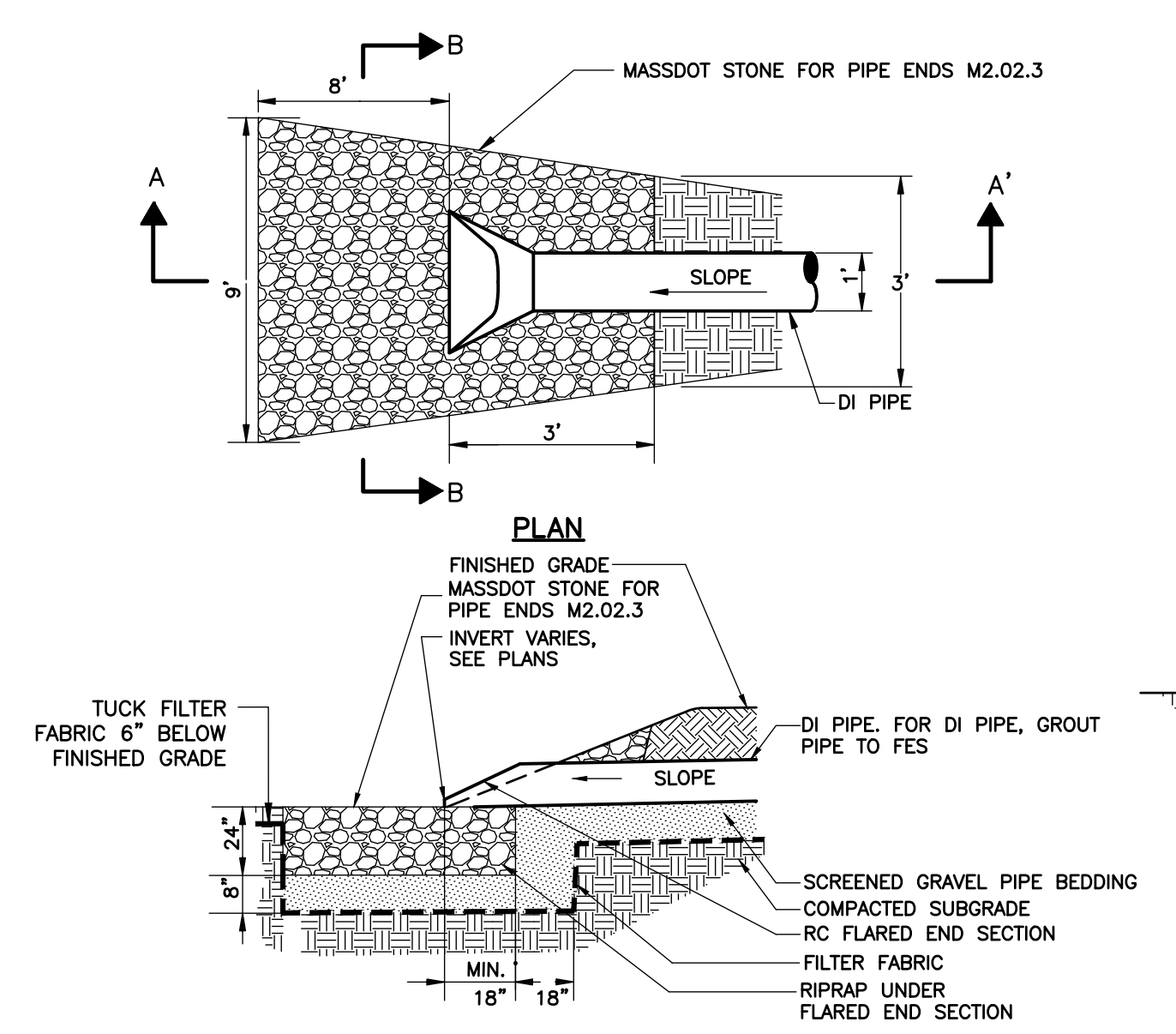


PROFILE

NOTES:
PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND UNDISTURBED ROADWAY. LIMITS OF STABILIZED CONSTRUCTION ENTRANCE SHALL BE AS DIRECTED BY THE ENGINEER. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO UNDISTURBED ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDING STONE TO THE LENGTH OF THE ENTRANCE. REPAIR AND CLEANOUT MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO UNDISTURBED ROADWAY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

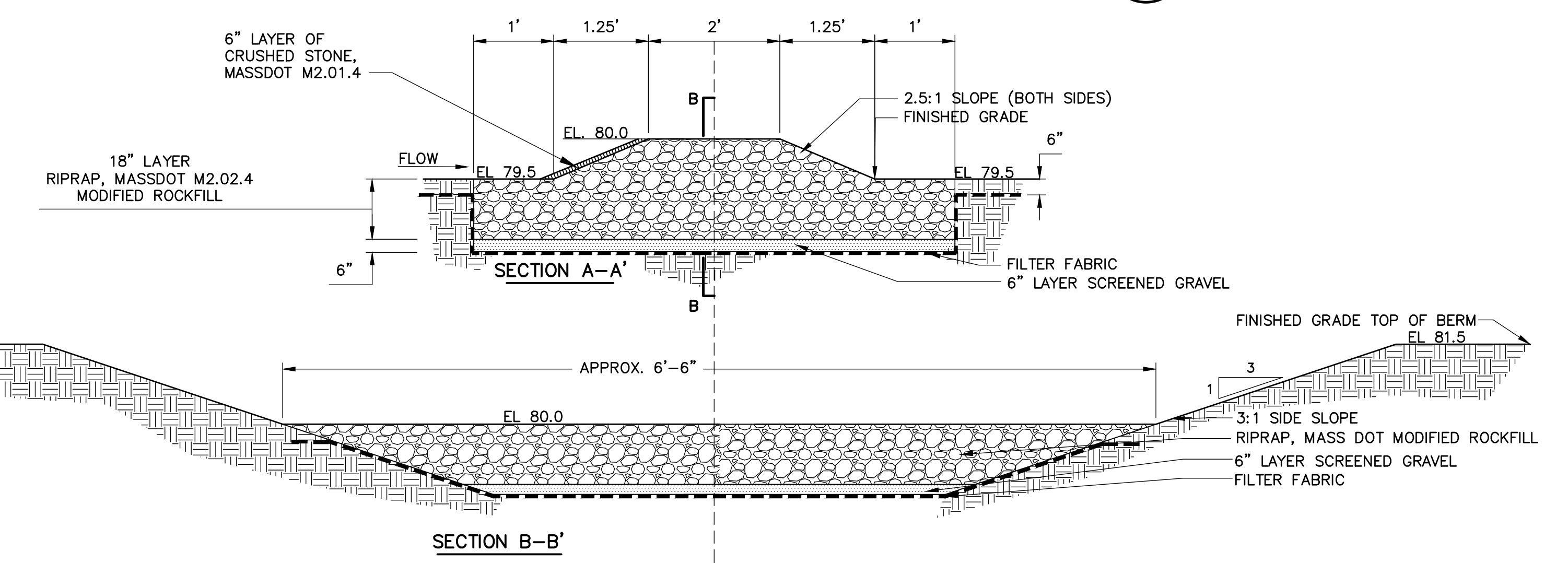
STABILIZED CONSTRUCTION ENTRANCE

DETAIL B
NOT TO SCALE
CD-1



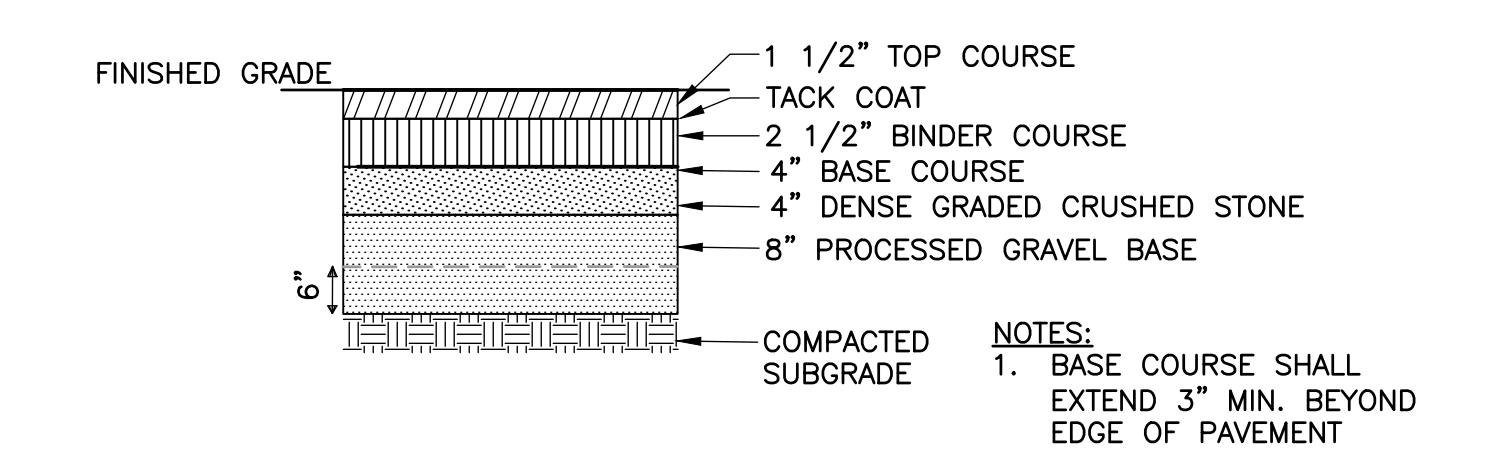
SECTION A-A
FLARED END SECTION

DETAIL D
NTS
CD-1



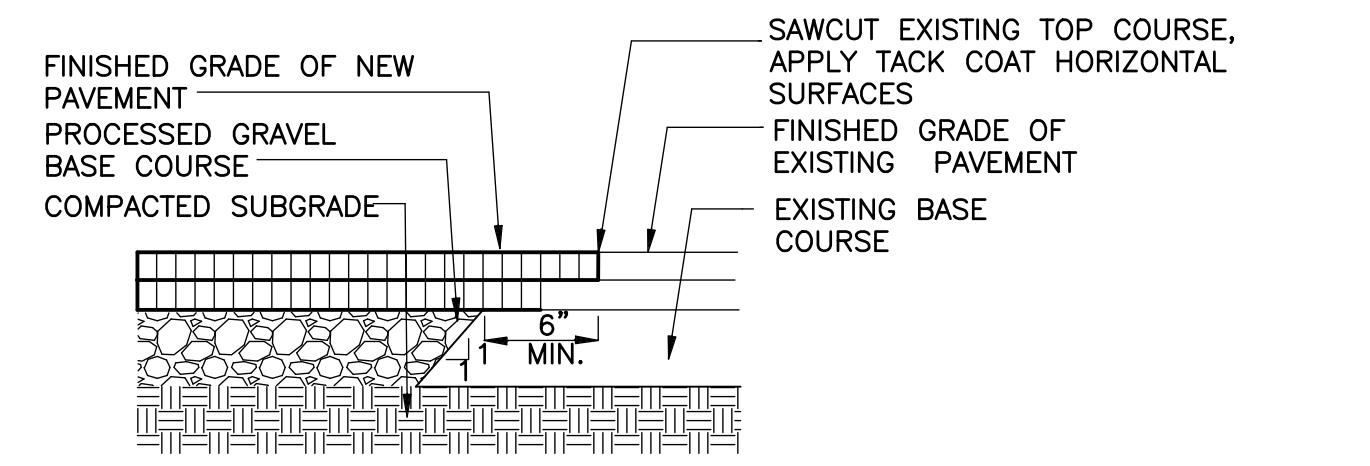
CHECK DAM AT FOREBAY

DETAIL H
NTS
CD-1



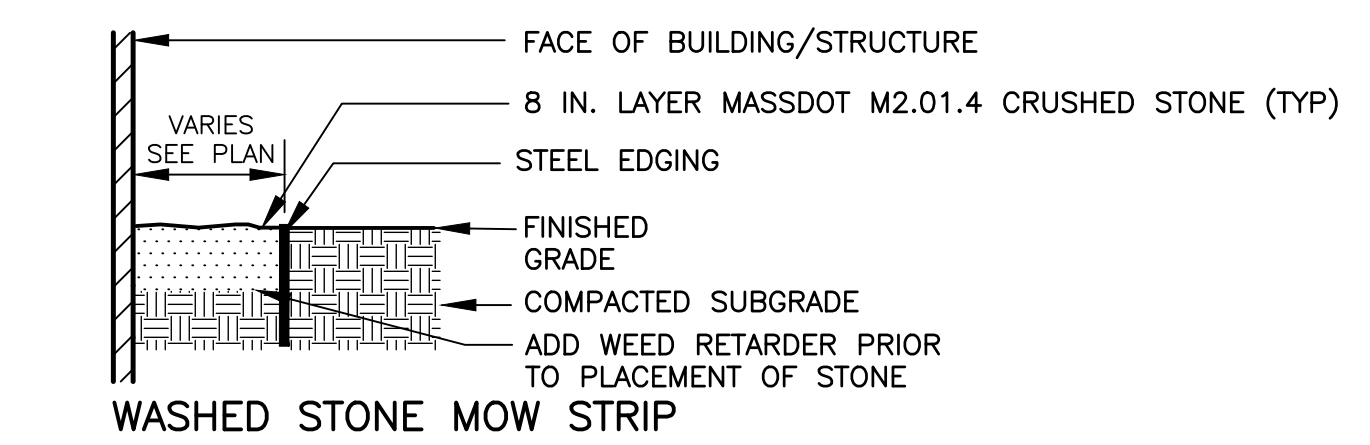
FULL DEPTH BITUMINOUS CONCRETE PAVEMENT

DETAIL E
SCALE: NTS
CD-1



PAVEMENT MATCH

DETAIL F
NOT TO SCALE
CD-1



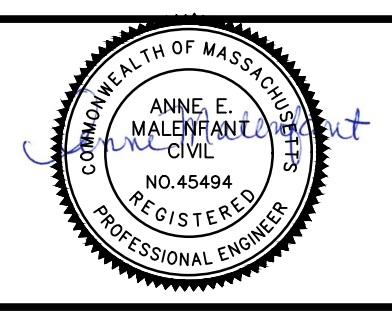
WASHED STONE MOW STRIP

DETAIL G
NOT TO SCALE
CD-1

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
DRAWN BY: A. MURRAY
SHEET CHK'D BY: X
CROSS CHK'D BY: X
APPROVED BY: X
DATE: JULY 2023

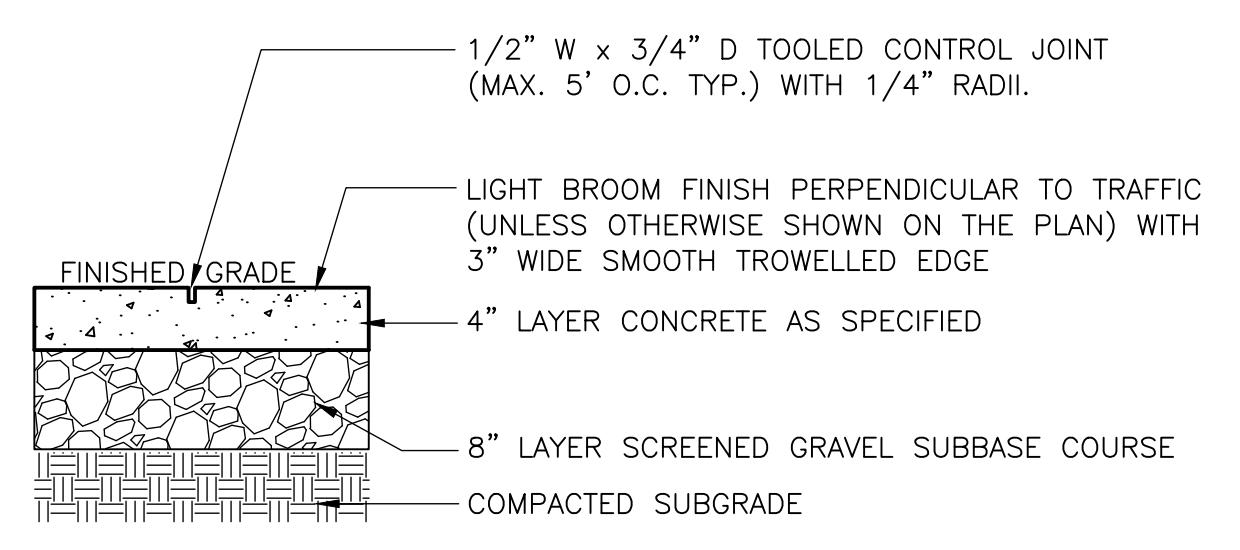
CDM Smith
75 State Street, Suite 701
Boston, MA 02109
Tel: (617) 452-6000



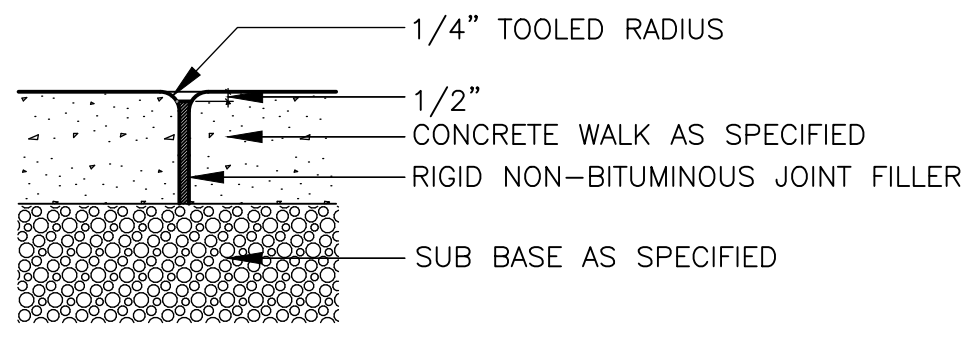
LYNNFIELD CENTER WATER DISTRICT
LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

CIVIL DETAILS I
PROJECT NO. 0690-265722
FILE NAME: CD01STD.DWG
SHEET NO. **CD-1**
PERMITTING SUBMITTAL

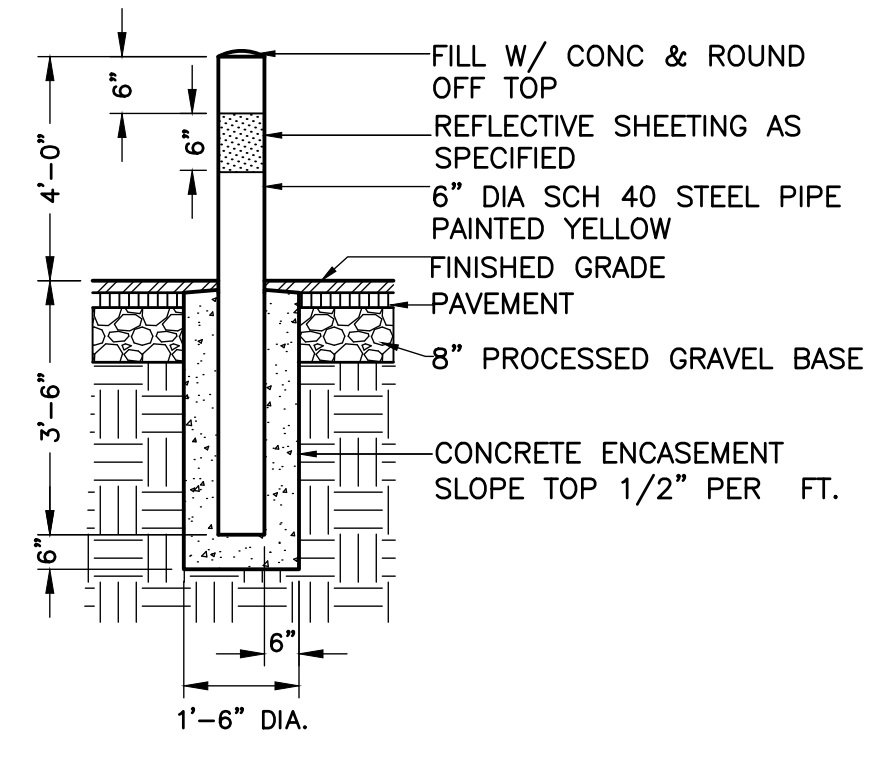
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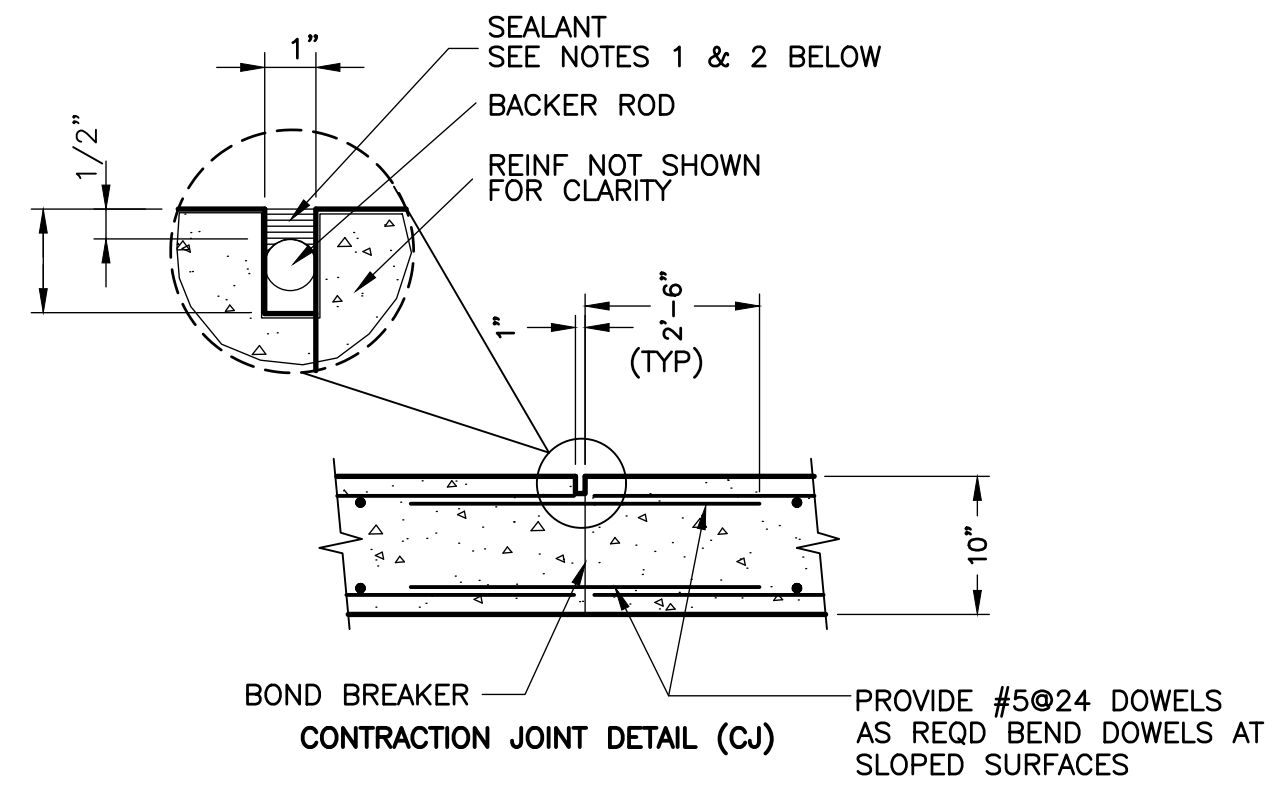
CONCRETE WALK
DETAIL A
 SCALE: NTS
 CD-2



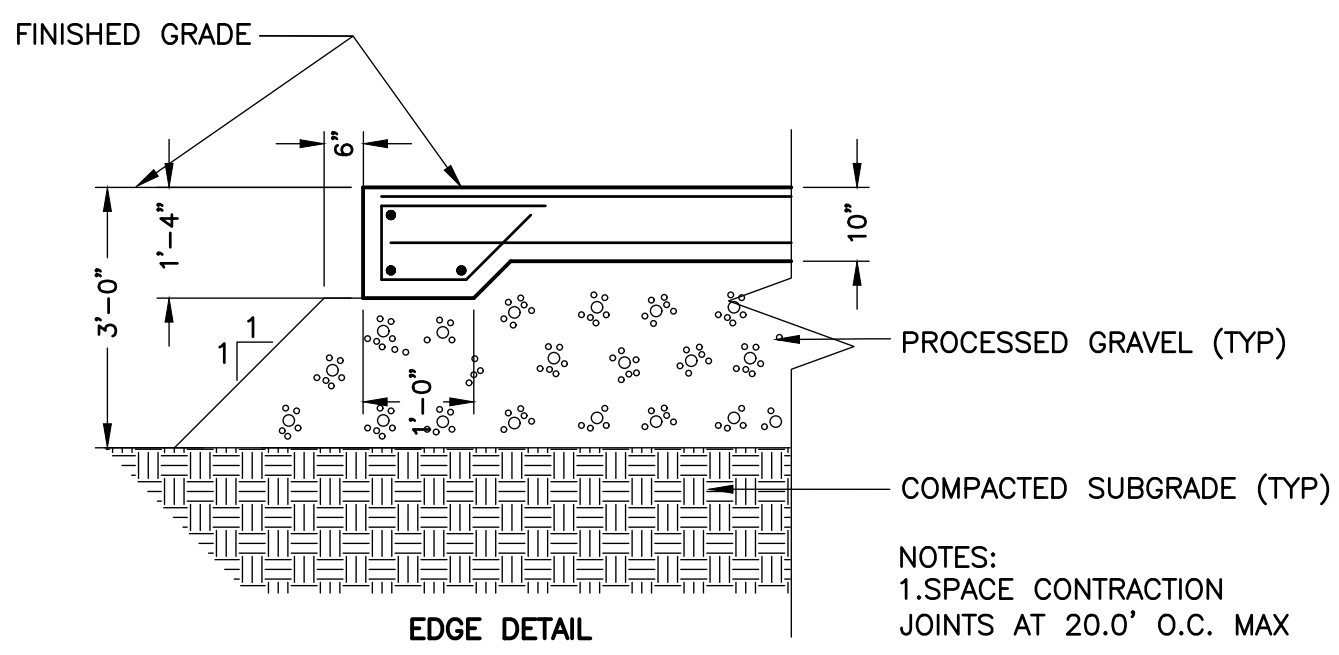
TYPICAL EXPANSION JOINT
DETAIL B
 SCALE: NTS
 CD-2



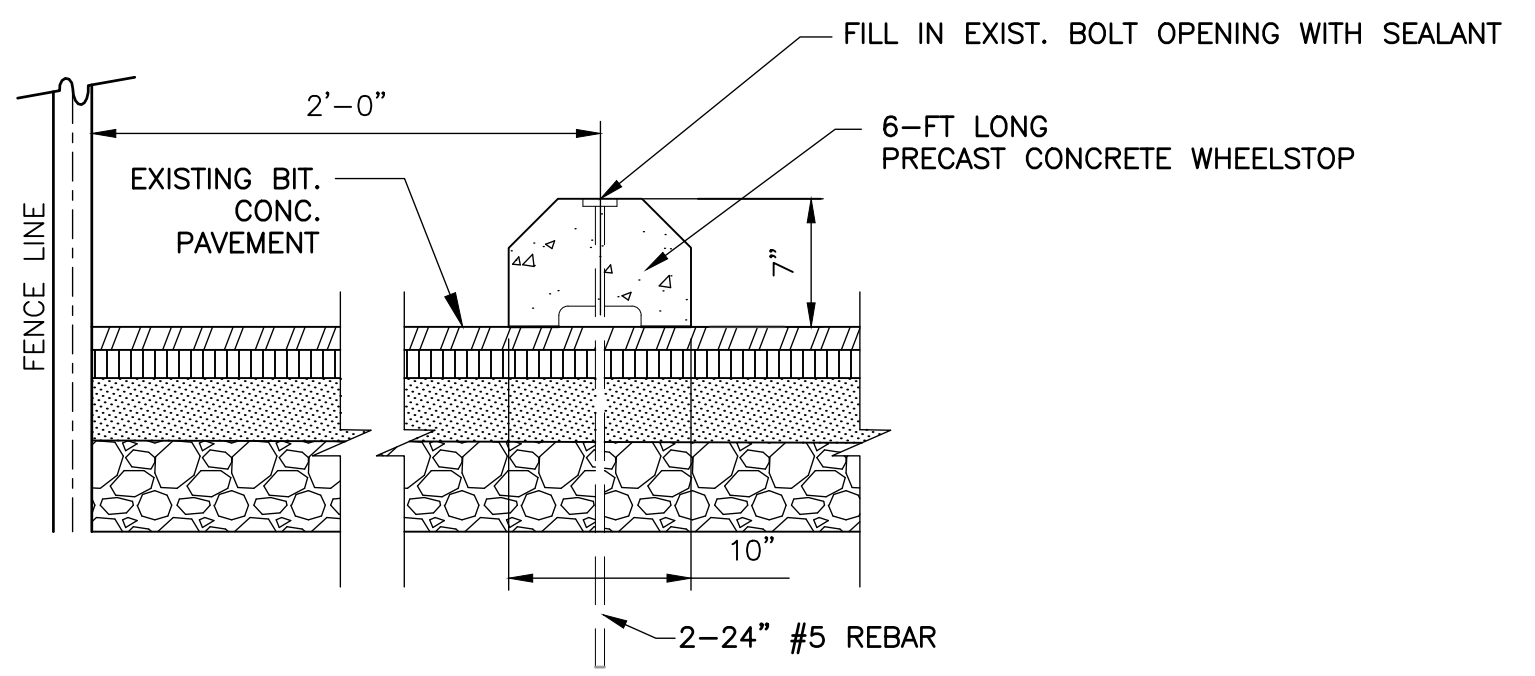
STEEL BOLLARD
DETAIL C
 NOT TO SCALE
 CD-2



CONCRETE EQUIPMENT SLAB
DETAIL D
 NOT TO SCALE
 CD-2

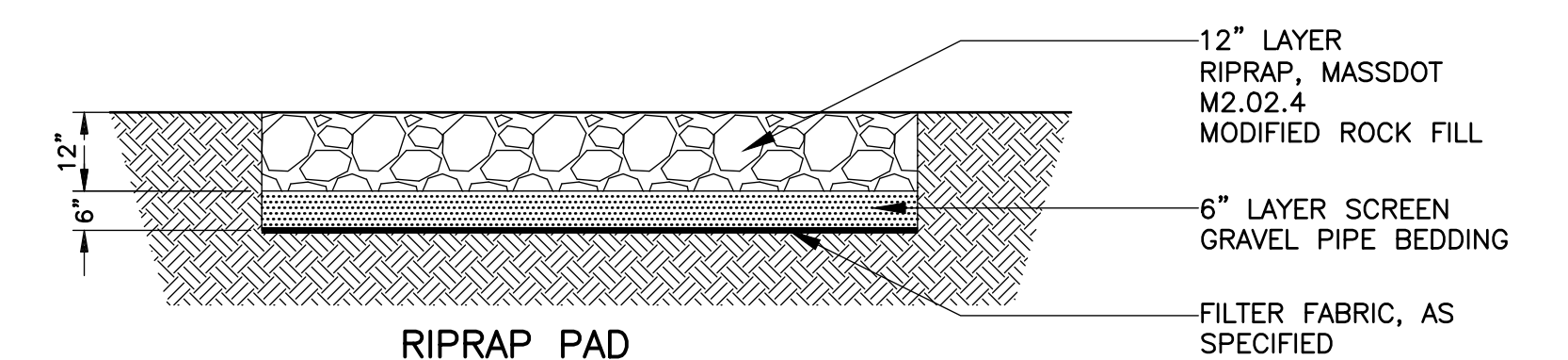


CONCRETE EQUIPMENT SLAB
DETAIL D
 NOT TO SCALE
 CD-2

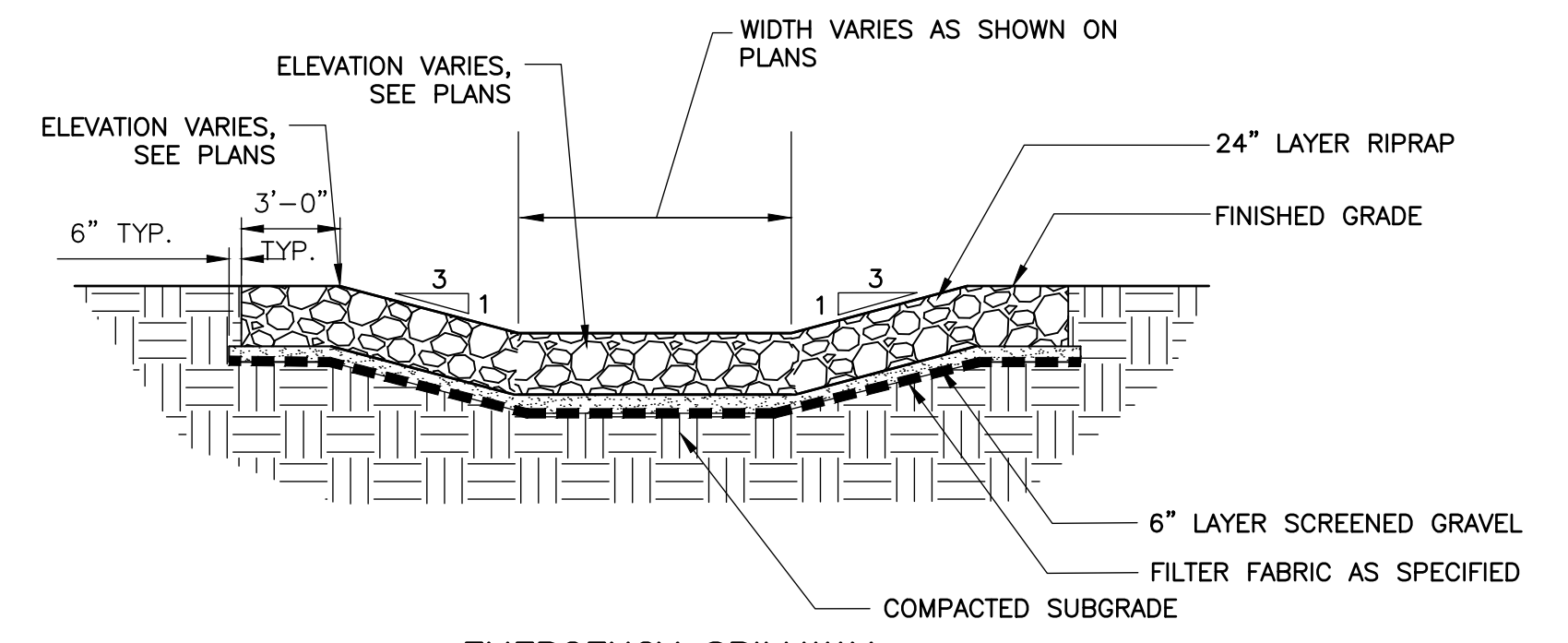


1. CONCRETE SHALL BE PRECAST 4000 PSI.
2. WHEELSTOP SHALL BE MIN. 6- FEET LONG X 10- INCH WIDE.

CONCRETE BUMPER STOP
DETAIL E
 NOT TO SCALE
 CD-2



RIPRAP PAD
DETAIL F
 NOT TO SCALE
 CD-2

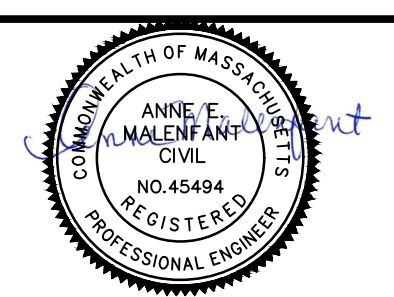


EMERGENCY SPILLWAY
DETAIL G
 NTS
 CD-2

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

CDM Smith
 75 State Street, Suite 701
 Boston, MA 02109
 Tel: (617) 452-6000

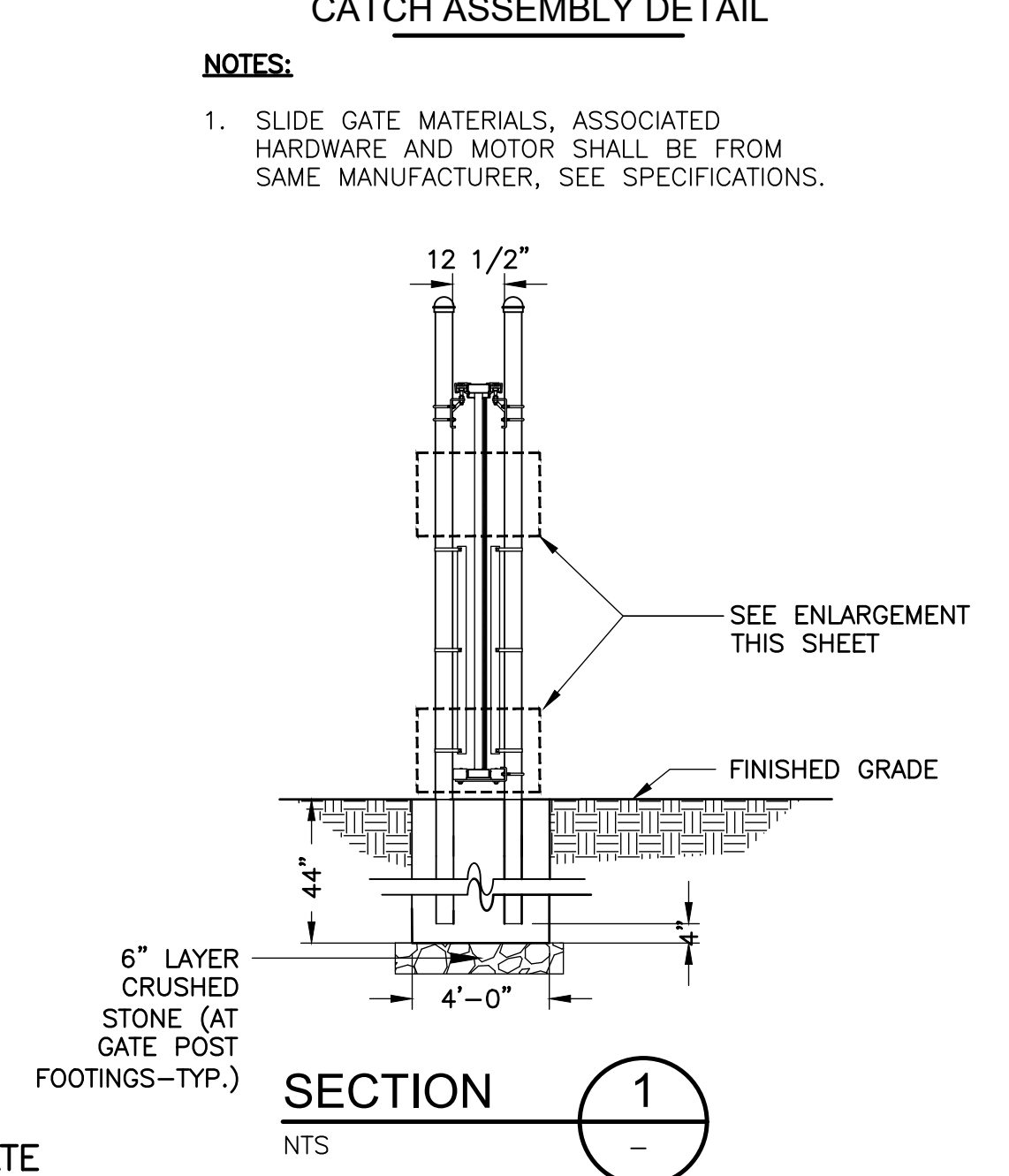
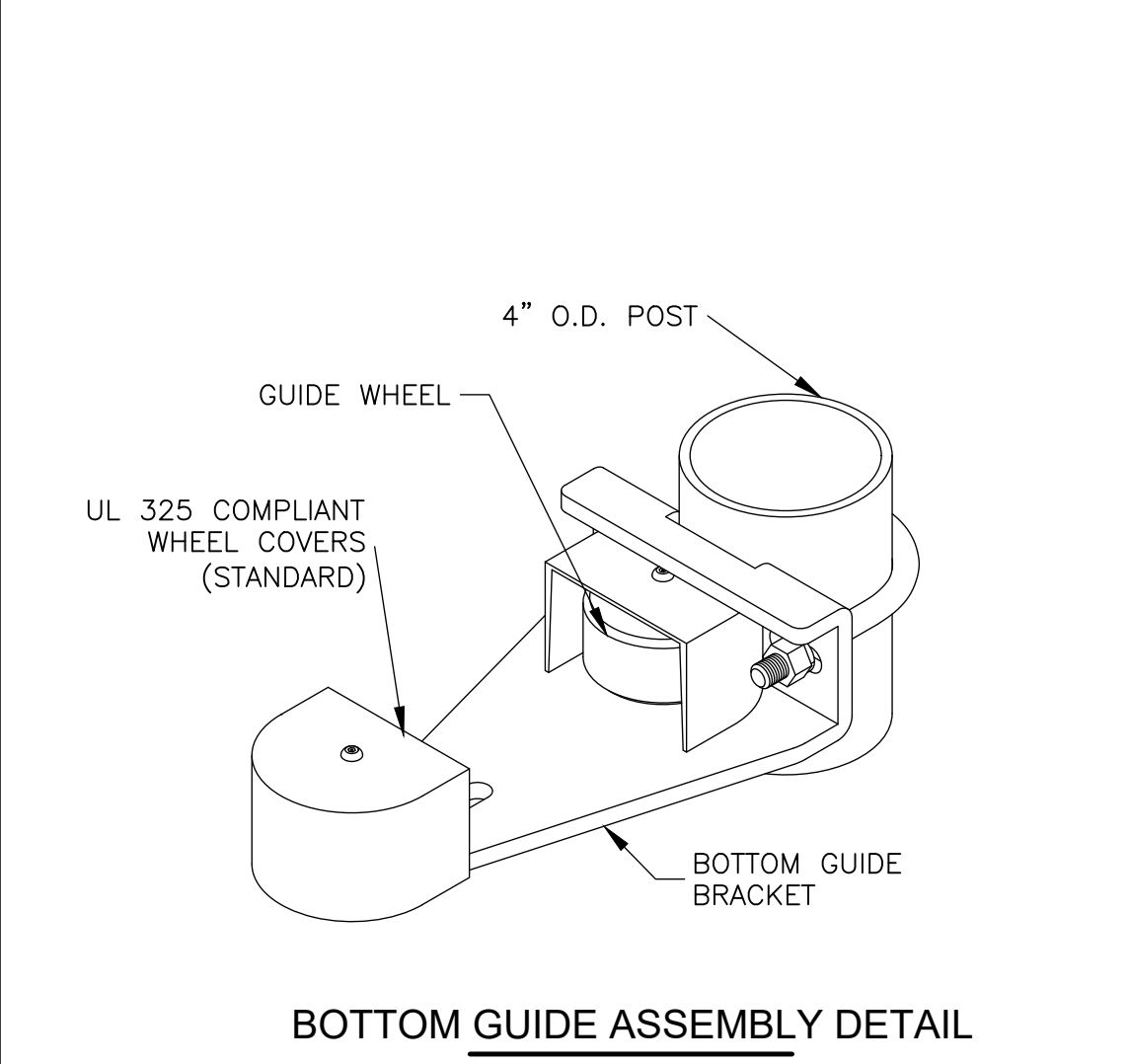
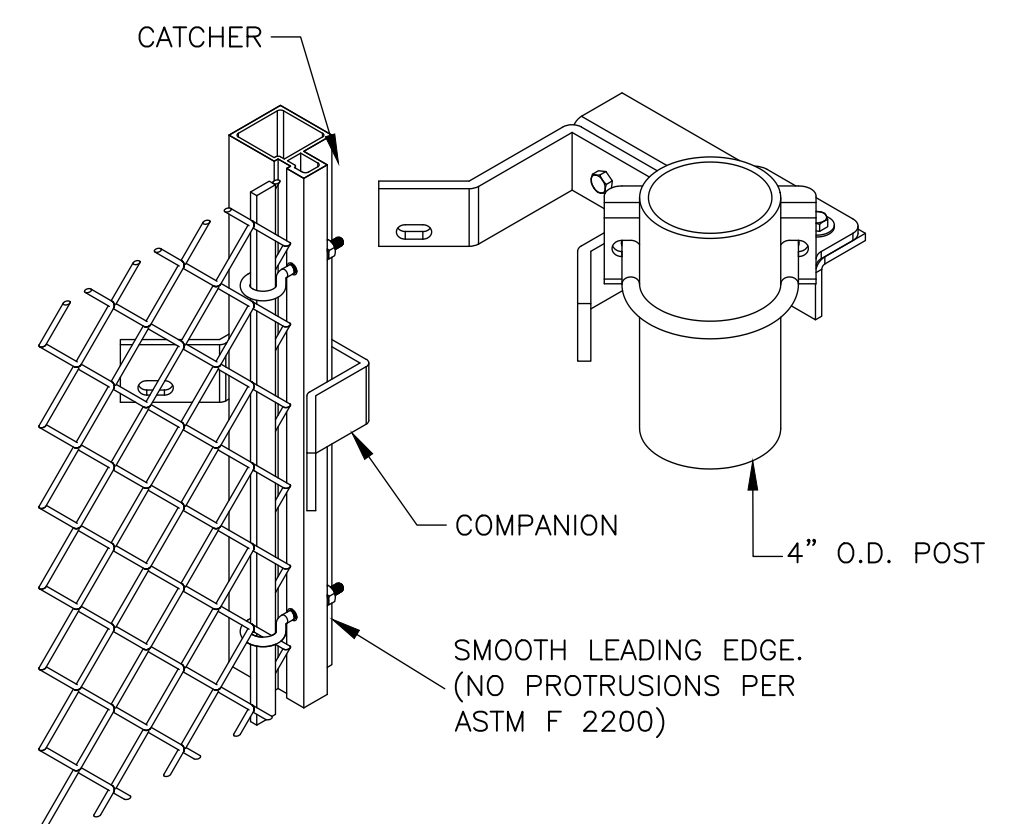
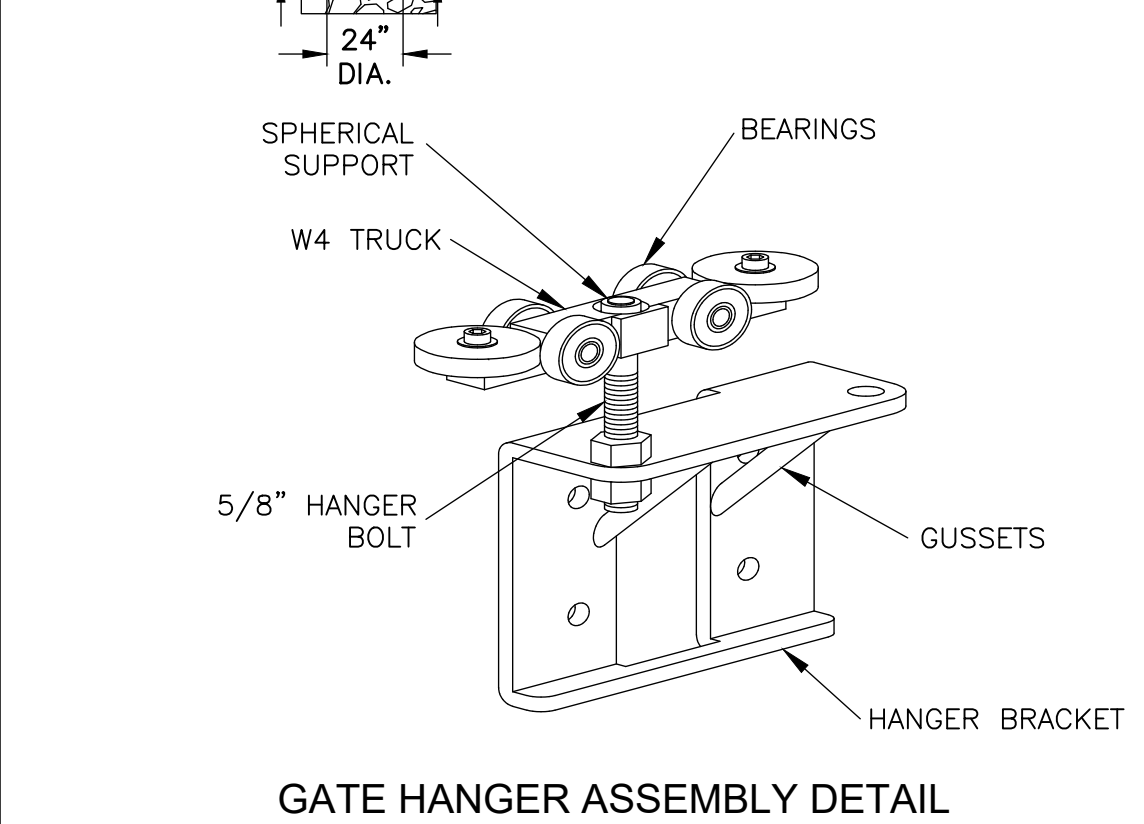
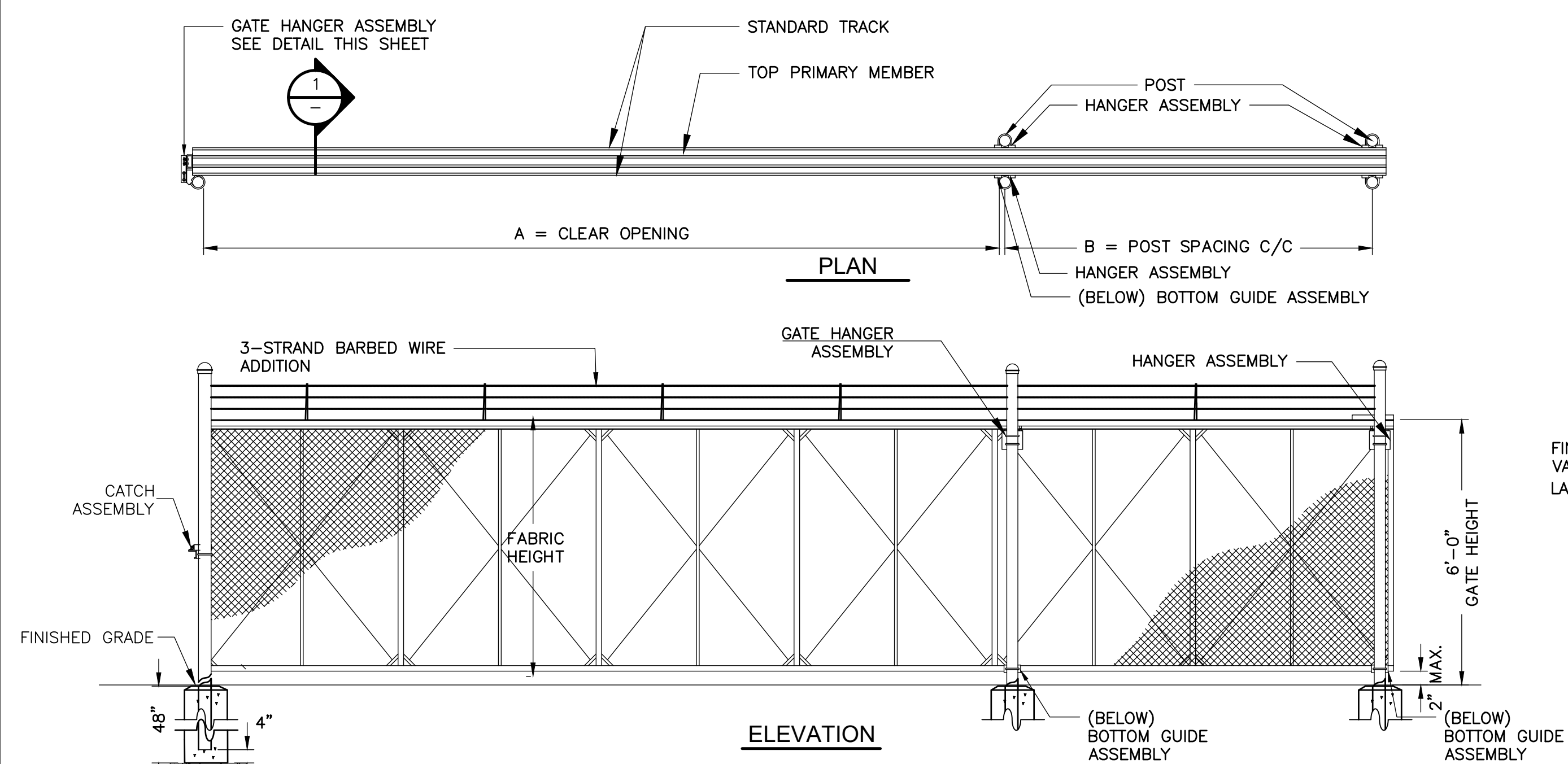


LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

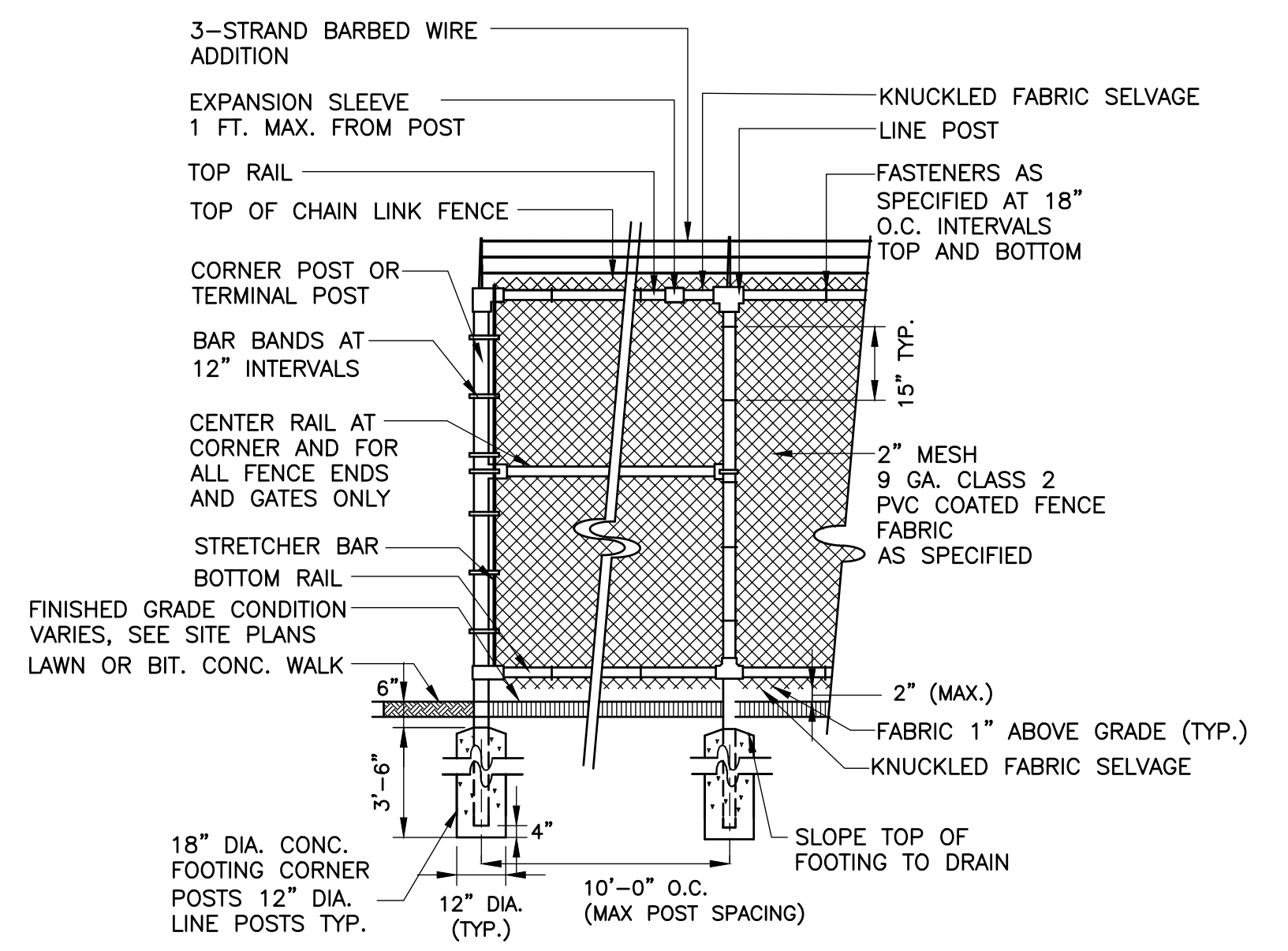
CIVIL DETAILS II
 CD-2

PROJECT NO. 0690-265722
 FILE NAME: CD02STD.DWG
 SHEET NO.
CD-2

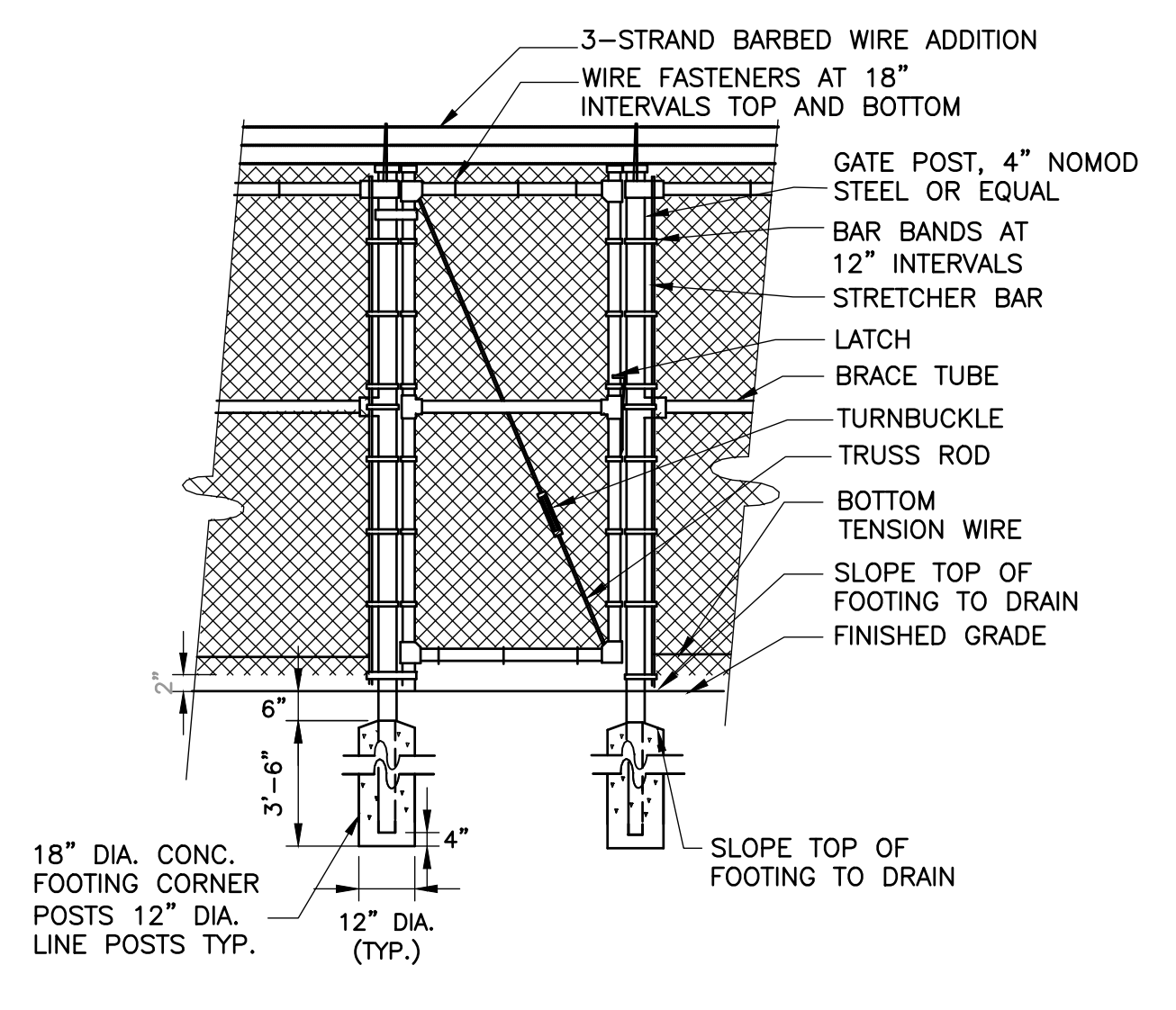
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CANTILEVER SLIDING GATE
DETAIL A
 NTS CD-3

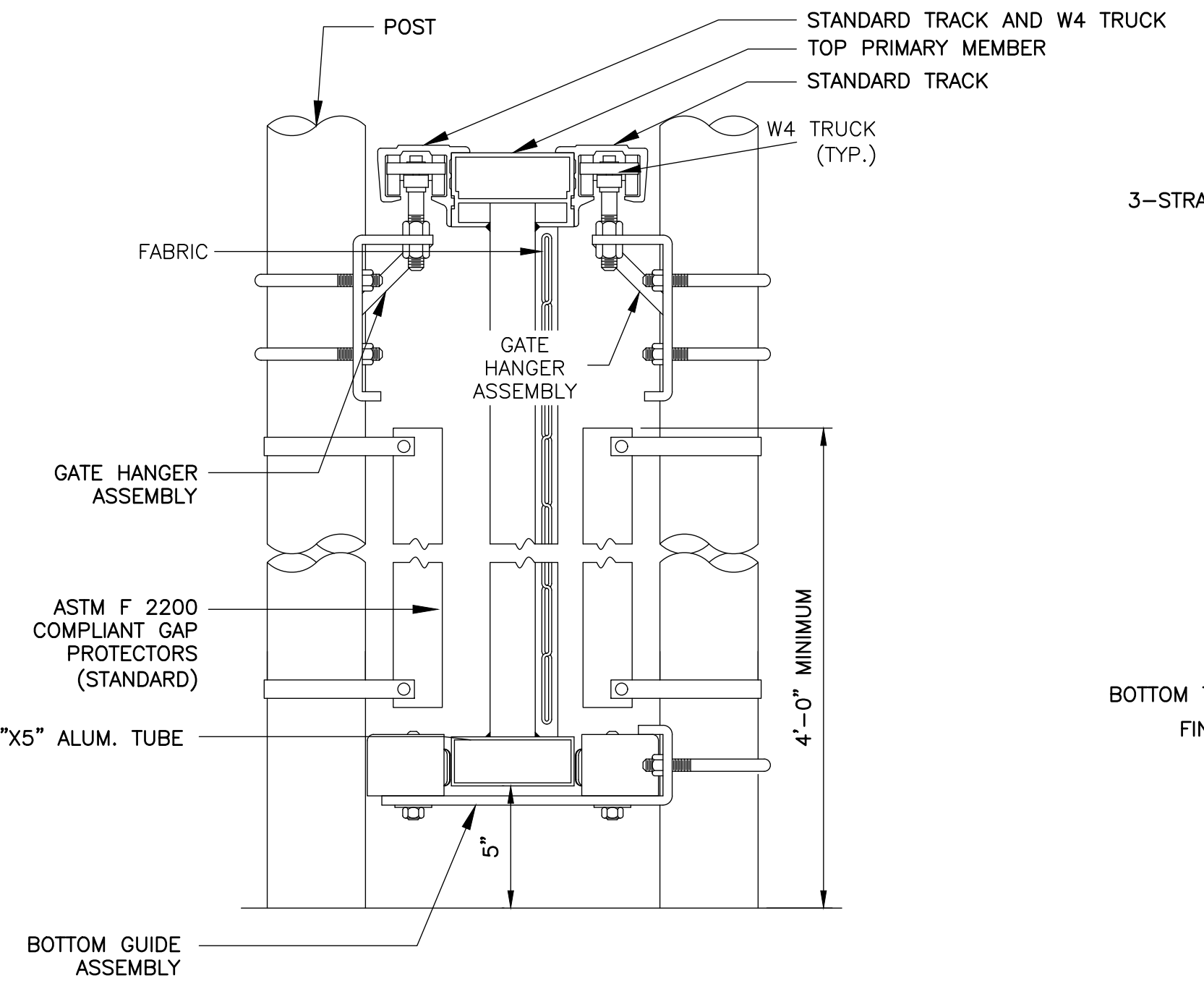


6-FT HIGH CHAIN LINK FENCE
DETAIL B
 NOT TO SCALE CD-3

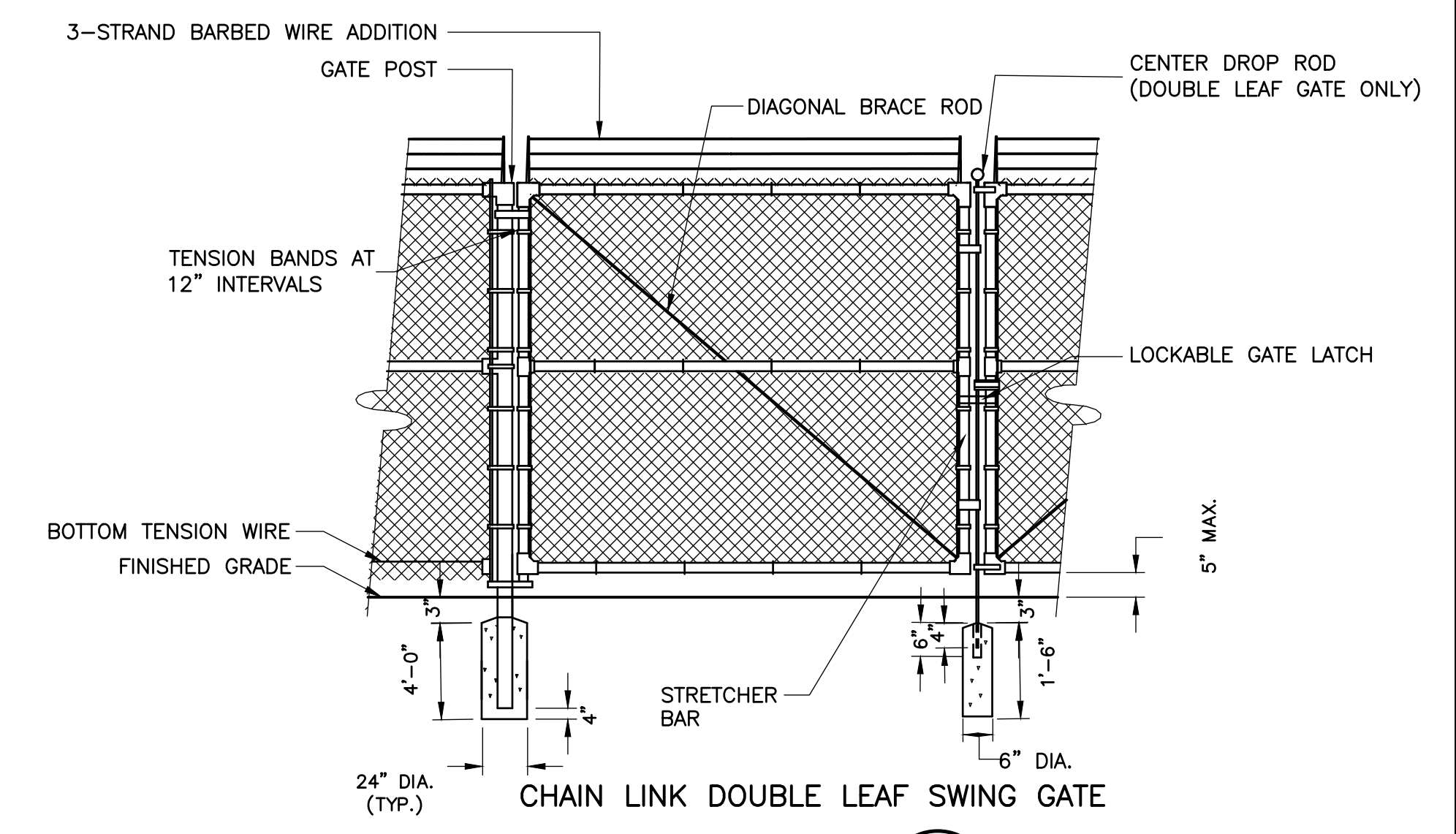


PEDESTRAIN CHAIN LINK FENCE GATE
DETAIL C
 NOT TO SCALE CD-3

CRITICAL DIMENSION CHART		PUMPING STATION GATE		TREATMENT PLANT GATES	
MARK	DESCRIPTION	FORMULA	DIM. GATE	FORMULA	DIM. GATE
A	CLEAR OPENING	A	20'-0"	A	30'-0"
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	9'-1"	(A/2)-11"	14'-1"
C	OVERALL GATE LENGTH	A x 1.5	30'-0"	A x 1.5	45'-0"
D	COUNTERBALANCE LENGTH	A x 0.5	10'-0"	A x 0.5	15'-0"



SECTION 1
 ENLARGEMENT



CHAIN LINK DOUBLE LEAF SWING GATE
DETAIL D
 NOT TO SCALE CD-3

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: K. DRAKE
 DRAWN BY: A. MURRAY
 SHEET CHK'D BY: X
 CROSS CHK'D BY: X
 APPROVED BY: X
 DATE: JULY 2023

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ANNE E. MALLENFANT
 CIVIL
 No. 45494
 REGISTERED
 PROFESSIONAL ENGINEER

LYNNFIELD CENTER WATER DISTRICT
 LYNNFIELD, MASSACHUSETTS
GLEN DRIVE WATER TREATMENT PLANT

CIVIL DETAILS III
CD-3

PROJECT NO. 0690-265722
FILE NAME: CD03STD.DWG
SHEET NO. CD-3

PERMITTING SUBMITTAL