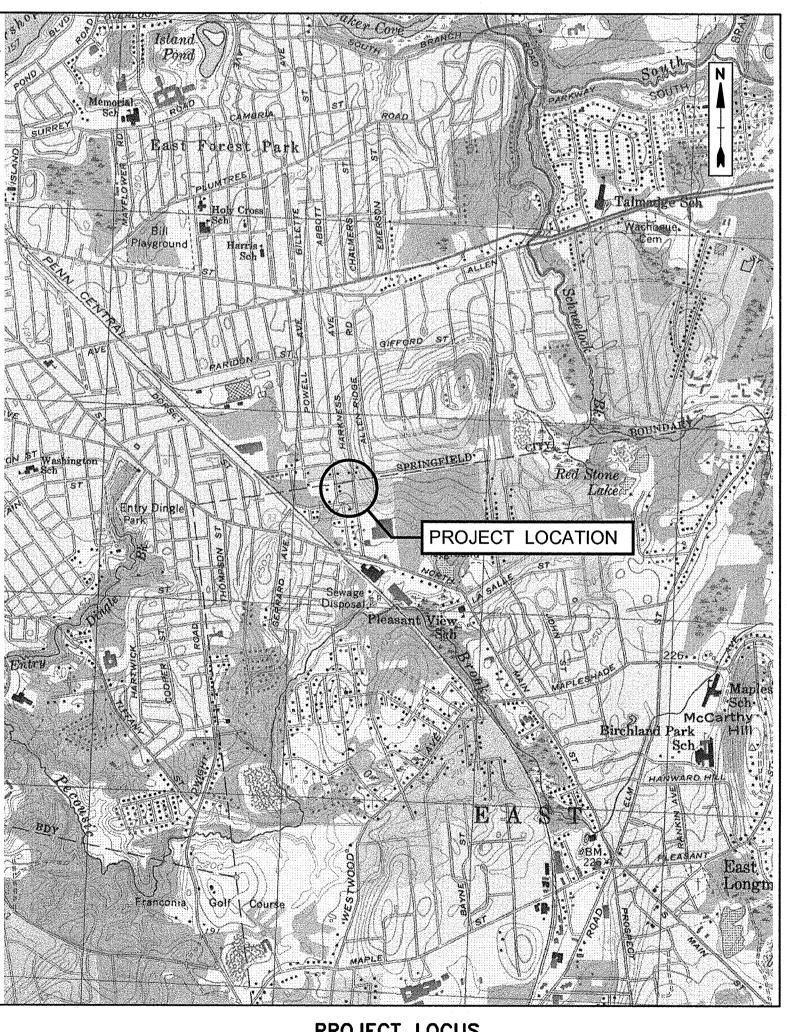
HARKNESS AVENUE BOOSTER PUMP STATION REPLACEMENT EAST LONGMEADOW, MASSACHUSETTS OCTOBER 2012 RECORD DRAWINGS - AUGUST 2013

DRAWING INDEX							
SHEET NO. TITLE							
G-001	COVER SHEET						
G-002	G-002 LEGEND, ABBREVIATIONS, AND GENERAL NOTES						
C-101	VALVE LOCATION PLAN AND SITE PLAN						
C-102	SITE DETAILS - 1						
C-103	SITE DETAILS - 2						
S-101	FOUNDATION PLAN, SECTIONS, AND NOTES						
M-101	EXISTING / DEMOLITION AND PROPOSED FLOOR PLANS						
M-102	PREFABRICATED PACKAGED BOOSTER PUMP STATION						
E-101	ELECTRICAL SITE PLAN, LEGEND, AND ONE-LINE DIAGRAM						
E-102	ELECTRICAL PLANS AND PANELBOARD LAYOUTS						

RECORD DRAWING

PROVIDED BY THE CONTRACTOR AND INDICATES ONLY SIGNIFICANT CHANGES MADE FROM THE DESIGN DRAWINGS DURING CONSTRUCTION.



PROJECT LOCUS
NO SCALE

BOARD OF PUBLIC WORKS

JOHN F. MAYBURY, CHAIRMAN DANIEL S. BURACK THOMAS G. WILSON JR.

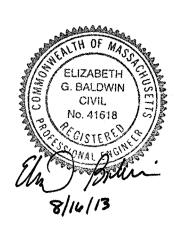
DEPARTMENT OF PUBLIC WORKS

SUPERINTENDENT / TOWN ENGINEER DAVID J. GROMASKI, P.E.
SENIOR PROJECT MANAGER
SEAN P. KELLEY





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COMPLETE SET 10 SHEETS

LEGEND

(S)	EXISTING SANITARY MANHOLE
⊞ · · · · · · · · · · · · · · · · · · ·	EXISTING CATCH BASIN
PW	EXISTING PUBLIC WATER LINE
SS	EXISTING SANITARY SEWER LINE
FO	EXISTING UNDERGROUND FIBER OPTIC LINE
Ε	EXISTING UNDERGROUND ELECTRICAL LINE
OE	EXISTING OVERHEAD ELECTRICAL LINE
G	EXISTING NATURAL GAS LINE
SD	EXISTING STORM DRAIN LINE
	PROPOSED SILTATION FENCE
	PROPERTY LINE
	EDGE OF PAVEMENT
	5 FOOT CONTOUR
	1 FOOT CONTOUR
- 	WIRE OR CHAIN LINK FENCE
	EXISTING TREE
	EXISTING ARBORVITAE SHRUB
₽.	EXISTING UTILITY POLE
<i> GG</i>	EXISTING GAS GATE
<i>WG</i> −−−−−1	EXISTING WATER GATE
- ◇-	EXISTING HYDRANT
- o -	EXISTING SIGN
	TEST PIT

ABBREVIATIONS

ASBESTOS CEMENT PIPE

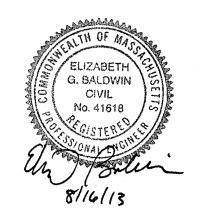
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BIT. CONC	BITUMINOUS CONCRETE
CI	CAST IRON
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CL	CLASS OF PIPE
CONC	CONCRETE
CW	CONCRETE WALK
CMP	CORRUGATED METAL PIPE
DB	DEBRIS
DR	DIMENSION RATIO
DMH	DRAIN MANHOLE
DW	DRIVEWAY
DI	
	DUCTILE IRON
EC	EROSION CONTROL
ECS	EPOXY COATED STEEL
FF	FINISHED FLOOR
GAR	GARAGE
GG	GAS GATE
GR CURB	GRANITE CURB
GW	GUY WIRE
GP	GUY POLE
HP	HIGH PRESSURE
HSE	HOUSE
HYD	HYDRANT
INV	INVERT
N.S.	NOT SERVICED
IP	IRON PIPE
MB	MAIL BOX
MCP	MOTOR CONTROL PANEL
MH	MANHOLE
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
PW	PAVED WALK
PE	POLYETHYLENE PIPE
PVC	POLY-VINYL CHLORIDE
P	PROPERTY LINE
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
SB	STONE BOUND
SIM	SIMILAR
SMH	SANITARY MANHOLE
STA	STATION
TBM	TEMPORARY BENCH MARK
TC TP	TRAFFIC CONTROL TELEPHONE POLE
UC	UNDER CONSTRUCTION
U.P.	UTILITY POLE
	UTILITY STRUCTURE
W/	WITH
wg	WATER GATE

GENERAL NOTES

- 1. NOTIFY 'DIGSAFE'" AT 1-888-344-7233 TO ARRANGE FOR MARKING OUT EXISTING UNDERGROUND UTILITIES AT LEAST 72 HOURS IN ADVANCE OF MAKING EXCAVATION AT ANY GIVEN LOCATION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE ALLOWED TO START ANY KIND OF EXCAVATION WORK PRIOR TO OBTAINING ALL THE NECESSARY INFORMATION REGARDING THE LOCATION OF UNDERGROUND UTILITIES AT THE SITE.
- 2. EXISTING UTILITY LOCATIONS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT, OR OTHER METHODS WHERE REQUIRED, WHEN AUTHORIZED BY THE ENGINEER. SECTIONS OF PROPOSED WATER MAIN MAY HAVE TO BE ADJUSTED BASED ON LOCATIONS AND DEPTH OF EXISTING UTILITIES. TEST PIT WORK IS REQUIRED BEFORE COMMENCEMENT OF MAINLINE PIPE WORK.
- 3. THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY, AND THE EXACT SIZE, TYPE, LOCATION AND ELEVATION SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 4. FIELD MEASURE TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS.
- 5. PROPERTY LINE INFORMATION AS SHOWN ON THE PLANS WAS OBTAINED FROM VARIOUS SOURCES, LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE PURPOSES ONLY.
- 6. ACCOMPLISH ALL EXCAVATION SO THAT UNDERGROUND UTILITIES OR STRUCTURES ARE NOT DAMAGED. BE RESPONSIBLE FOR ANY DAMAGE INCURRED DURING EXCAVATION OPERATIONS. REPAIR ANY EXISTING PIPE OR UTILITY DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 7. CONTRACTOR SHALL BE AWARE OF OVERHEAD UTILITIES AND MAKE THE NECESSARY ARRANGEMENTS TO PERFORM ANY WORK NEAR THE OVERHEAD UTILITIES, PRIOR TO THE START OF CONSTRUCTION.
- 8. EXISTING UTILITY POLES IN CLOSE PROXIMITY TO CONSTRUCTION MAY REQUIRE TEMPORARY SUPPORT BY THE UTILITY COMPANY. INCLUDE COST UNDER THE PRICES BID FOR VARIOUS ITEMS OF WORK.
- 9. SHEET UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES
- 10. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE FROM THE SITE TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- 11. PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS, SUCH AS BOOMS OR BLANKETS, AT THE CONSTRUCTION SITES AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS.
- 12. IMMEDIATELY REPORT SPILLS OF OIL AND/OR HAZARDOUS MATERIALS (OHM) TO THE MA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 13. NOTIFY THE OWNER AND THE ENGINEER OF ANY STORM, SANITARY, OR OTHER PIPE DISCOVERED DURING CONSTRUCTION THAT IS NOT SHOWN ON THE DRAWINGS.



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Harkness Ave. Booster Pump Station Replacement

East Longmeadow, Massachusetts

> VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST

SCALES ACCORDINGLY

1 8/13 RECORD DRAWING 0 10/12 ISSUED FOR BIDDING Mark Date Description PROJECT NO: E0451/25 HARKNESS AVE PS\G-002 DRAWN BY: RWK CHECKED: JAF1

LEGEND, ABBREVIATIONS, AND GENERAL NOTES

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APPROVED BY:

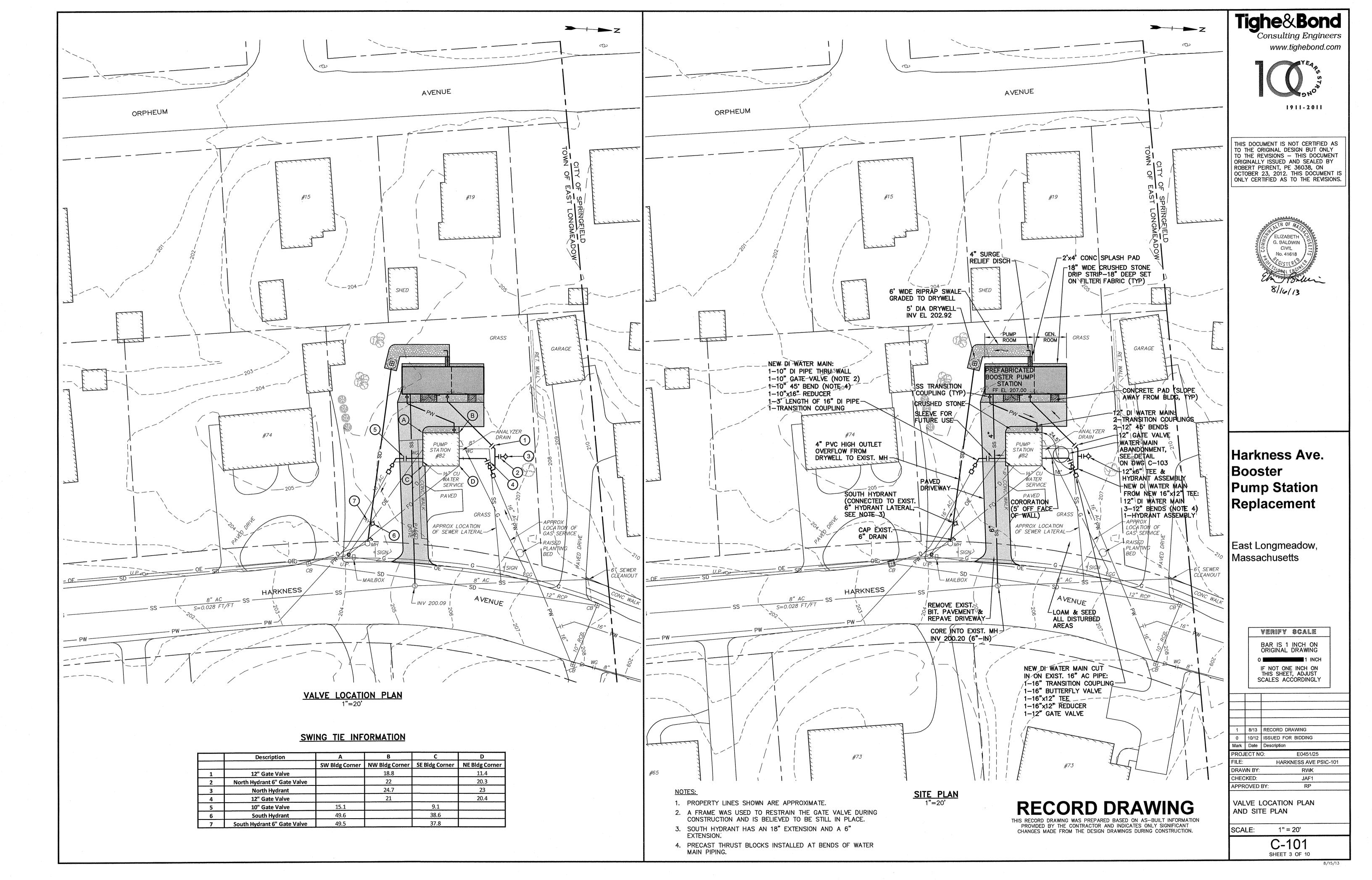
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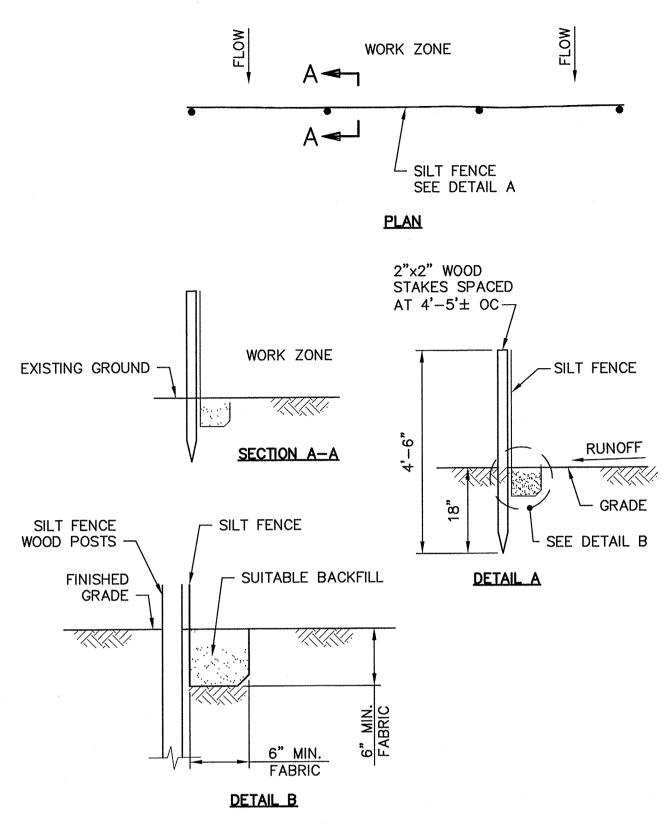
SHEET 2 OF 10

RECORD DRAWING THIS RECORD DRAWING WAS PREPARED BASED ON AS-BUILT INFORMATION

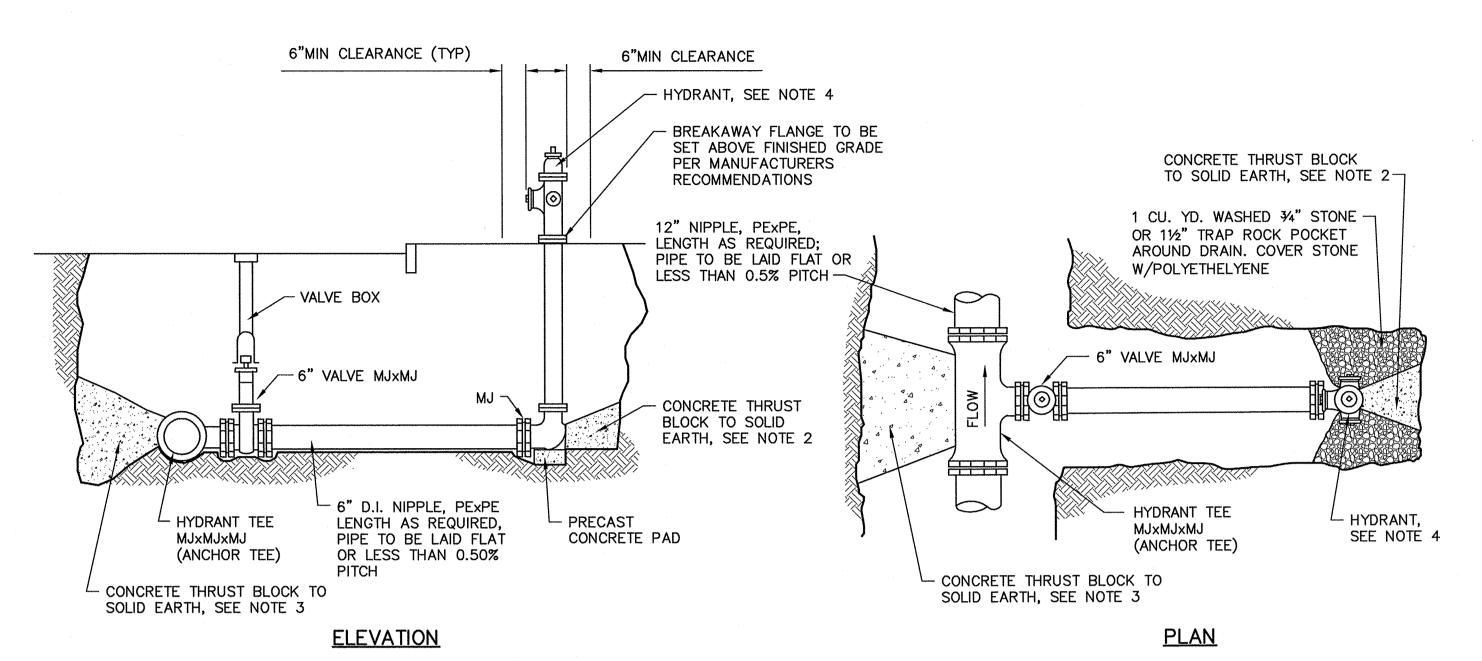
PROVIDED BY THE CONTRACTOR AND INDICATES ONLY SIGNIFICANT

CHANGES MADE FROM THE DESIGN DRAWINGS DURING CONSTRUCTION.





SILTATION FENCE
NO SCALE



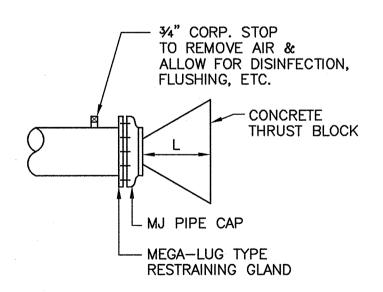
NOTES

1. ALL MJ JOINTS SHALL HAVE RETAINER GLANDS

- 2. CARE SHALL BE TAKEN TO SHIELD HYDRANT BASE DRAIN HOLES DURING PLACEMENT OF THE CONCRETE THRUST BLOCK. DRAIN HOLES SHALL BE VERIFIED AS OPEN AND FREE OF OBSTRUCTIONS PRIOR TO BACKFILLING.
- 3. CARE SHALL BE TAKEN TO SHIELD ALL MECHANICAL JOINT GLANDS AND BOLTS DURING PLACEMENT OF CONCRETE THRUST BLOCK. ALL BOLTS AND GLANDS SHALL BE FREE AND UNOBSTRUCTED BEFORE BACKFILLING.
- 5. HYDRANT SHALL BE SET PLUMB. VERTICAL HYDRANT EXTENSIONS SHALL BE USED AS NECESSARY TO PROPERLY LOCATE THE BREAKAWAY FLANGE PER MANUFACTURERS RECOMMENDATIONS.
- 6. POLYETHYLENE SHEETING SHALL BE PLACED OVER THE FITTING AND/OR HYDRANT BASE TO PREVENT DIRECT CONTACT OF CONCRETE WITH THE FITTING

HYDRANT ASSEMBLY DETAIL

NO SCALE



WATER MAIN CAPPING DETAIL

NO SCALE

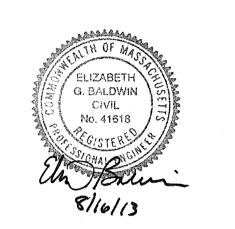
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Harkness Ave.
Booster
Pump Station
Replacement

East Longmeadow, Massachusetts

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 10/12
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 Mark
 Date
 Description

 PROJECT NO:
 E0451/25

 FILE:
 HARKNESS AVE PS\C-102

 DRAWN BY:
 RWK

JAF1

RP

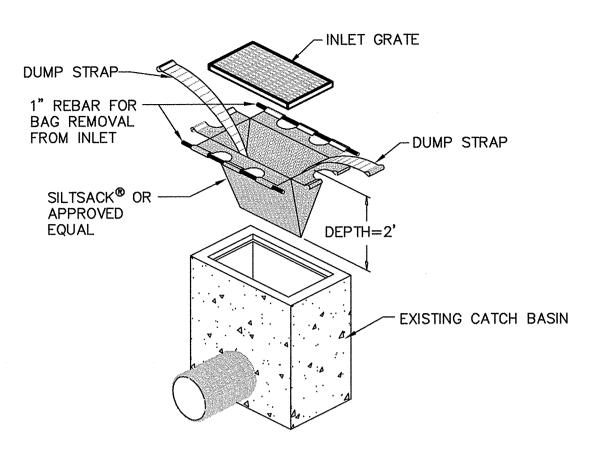
SITE DETAILS - 1

CHECKED:

APPROVED BY:

scale: No scale C-102

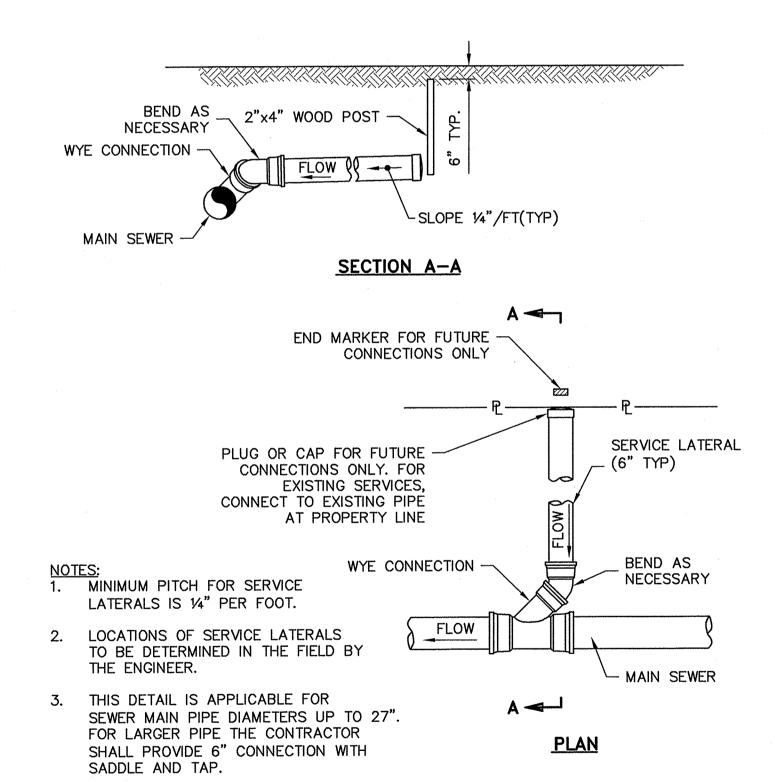
SHEET 4 OF 10



NOTES:

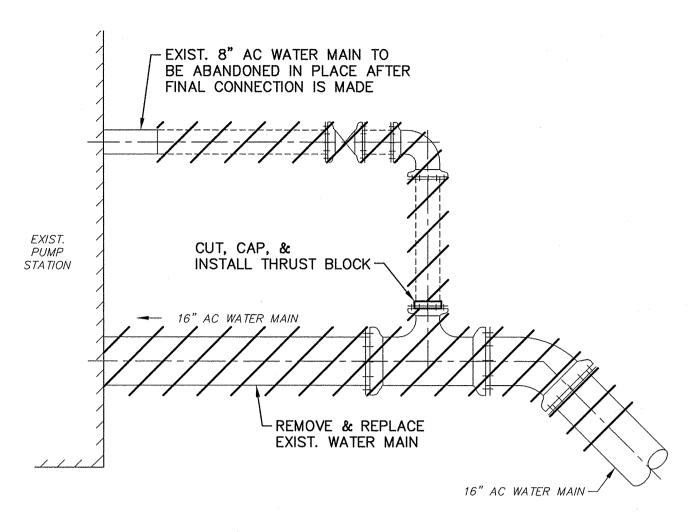
- SILTSACKS FOR TRENCH GRATE WILL MATCH OPENING LENGTH AS REQUIRED.
- 2. SILTSACKS SHALL BE CLEANED OUT AND MAINTAINED IN GOOD WORKING ORDER PER MANUFACTURER RECOMMENDATIONS.

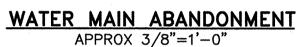
CATCH BASIN PROTECTION DETAIL NO SCALE

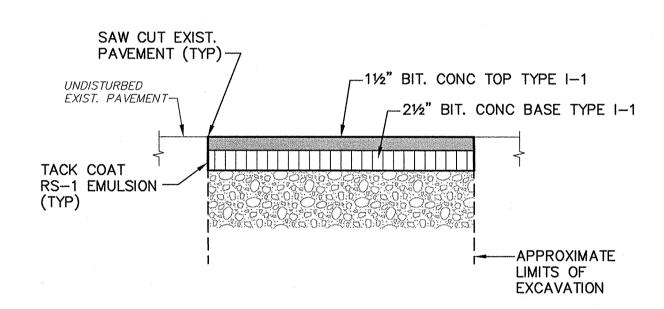


SANITARY SERVICE LATERAL

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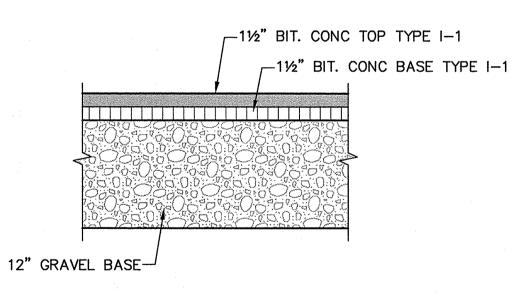




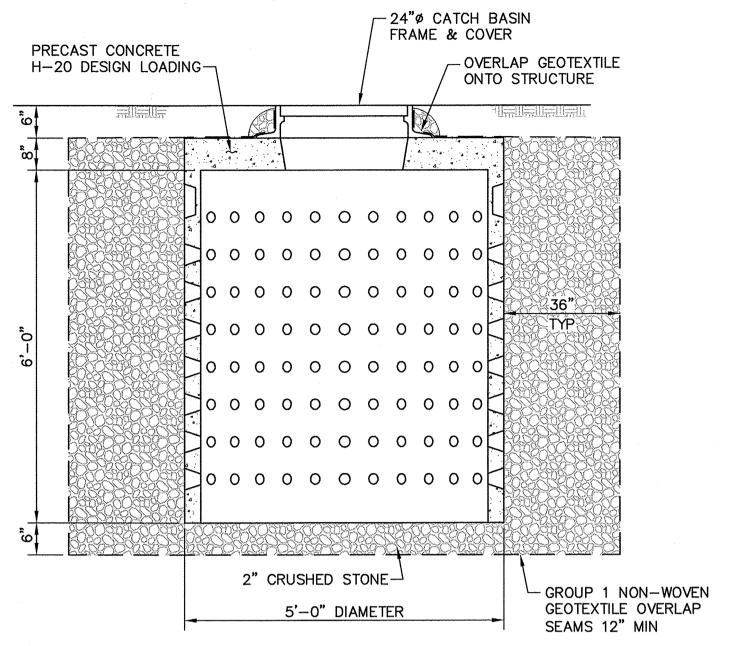


TRENCH REPAIR—TOWN ROAD

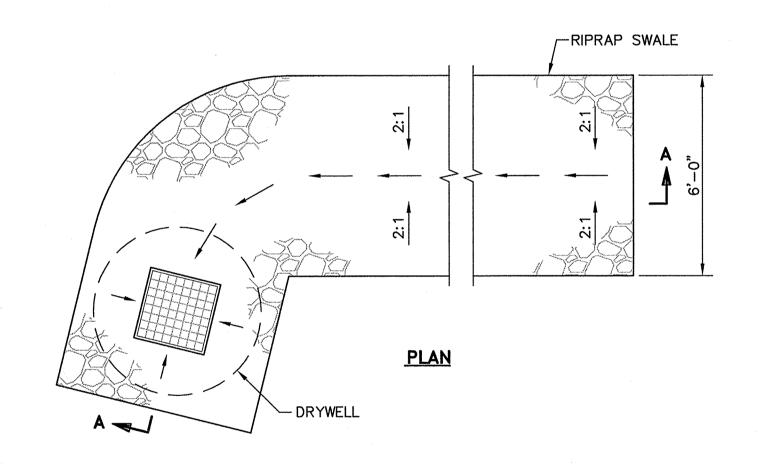
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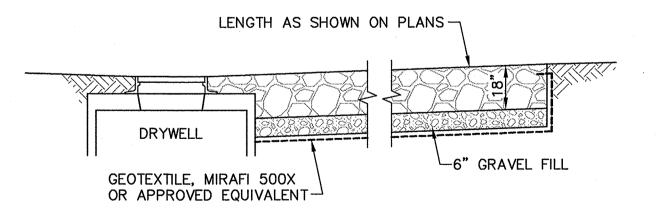


DRIVEWAY PAVING
NO SCALE









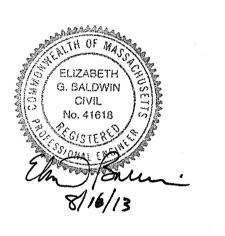
SECTION A-A
RIPRAP SWALE
NO SCALE

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Mark Date Description
PROJECT NO: E0451/25
FILE: HARKNESS AVE PS\C-103

RWK

JAF1

SITE DETAILS - 2

DRAWN BY:

CHECKED:

APPROVED BY:

scale: NO SCALE

C-103

SHEET 5 OF 10

GENERAL

- G1 Structural work shall conform to Massachusetts State Building Code, latest edition, including most recent addenda, and Contract Documents. In case of conflict, most stringent requirement shall govern.
- 2 Contractor shall verify and coordinate dimensions related to this project.
- G3 Contractor shall examine drawings for all trades for the verification of location and dimensions of all chases, inserts, openings, sleeves and other project requirements not shown on the structural drawings.
- G4 Provide caulking at all control joints. Provide compressible filler and sealant at all expansion and isolation joints.

REINFORCEMENT

- Place Detailing, fabrication, and erection of reinforcement, unless otherwise noted, shall conform to ACI "Building Code Requirements for Reinforced Concrete (ACI 318)" and ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI 315)", latest edition.
- R2 Steel reinforcement unless otherwise shown shall conform to ASTM A615 Grade 60 minimum (yield strength 60,000 psi).
- Provide and schedule on shop drawings, all necessary accessories to hold reinforcement securely in position: minimum requirements shall be: high chairs, 4'-0" on center, #5 support bar for high chairs, slab bolsters, 3'-6" on center, all wire chairs and bolsters to be plastic tipped.
- R4 The concrete protective covering for reinforcement shall be as follows, unless otherwise shown:

(A)	Cast-	in-place	concrete.
(A)	Cast-	-in-blace	concrete.

7 I	('antIn NIANA ANDARATA	1	
۹)	Cast-in-place concrete.	Exposed to earth,	Not exposed to earth,
		water, or weather	water, or weather
	(a) Slab on grade	3 inches	2 inches
	(b) Column ties	2 inches	1 1/2 inches
	(c) Column main rebars	2 1/2 inches	2 inches
	(d) Beam stirrups	2 inches	1 1/2 inches
	(e) Beam main rebars	2 1/2 inches	2 inches
	(f) Slab's #3 to #5 incl's	1 1/2 inches	3/4 inches
	(a) Slabs #6 to #11 incl's	2 inches	3/4 inches
	(h) Wall #11 bar or smaller	2 inches	3/4 inches
	(i) Note: Maximum deviati	on from these requirements st	nall be +1/4" for sections
	ten (10) inches	or less, and $+1/2$ " for sectior	ns over ten (10) inches thick.

- B) In no case shall the cover be less than the bar diameter.
- R5 Where continuous bars are called for they shall be run continuously around corners and
- lapped at necessary splices or hooked at discontinuous ends.

 Where reinforcement is not shown on drawings provide reinforcement.
- Where reinforcement is not shown on drawings, provide reinforcement in accordance with applicable typical details or similar to that shown for most nearly similar situations, as determined by the Engineer. In no case shall reinforcement be less than minimum reinforcement permitted by the applicable codes.
- R7 Where reinforcement is called for in section, reinforcement is considered typical wherever the section applies.
- R8 Reinforcement shall be continuous through all construction joints unless otherwise indicated on the drawings.
- R9 Reinforcement coupler splices shall be mechanical devices capable of transmitting the ultimate tensile and compressive strength of the bar.
- R10 Installation of reinforcement shall be completed at least 24 hours prior to scheduled concrete placement. Notify Engineer of completion at least 24 hours prior to scheduled completion of placement or reinforcement.
- R11 Reinforcement shall be set before placing concrete. Setting any reinforcement into wet concrete is prohibited.

CONCRET

- C1 Concrete work shall conform to the latest editions of the building code requirements for reinforced concrete (ACI 318), and specifications for structural concrete for building (ACI 301).
- C2 Concrete shall be controlled concrete, proportioned, mixed and placed under the
- supervision of an approved concrete testing agency or the Engineer.

 C3 Concrete shall be normal weight concrete and shall have a compressive strength of 4000
- psi at 28 days, unless otherwise noted and shall be air entrained (see specs)

 The use of construction joints where shown on the drawings is mandatory. Omissions, additions or changes shall not be made except with the submission of a written request together with drawings of the proposed joint locations for approval of the structural engineer.
- Where construction joints are not shown, drawings showing location of construction joints and concrete placing sequence shall be submitted to the Engineer for approval prior to preparation of the reinforcement shop drawings.
- C6 Concrete slabs shall be cast so that the slab thickness is at no point less than that
- indicated on the drawings.

 C7 Concrete slabs and walls shall be cast alternately or in a checkerboard fashion so that adjacent sections are placed no sooner than three days apart. At least two days must elapse after placing concrete in walls before placing floor system supported thereon.
- C8 Concrete shall be placed without horizontal construction joints except where shown or noted.
- noted.

 C9 Exposed edges of concrete elements shall have chamfered corners.
- Only critical construction joints are shown. See Specifications for required maximum spacing of construction joints.
- C11 Contractor shall coordinate connection of building ground system to slab on grade reinforcement.

FOUNDATIONS

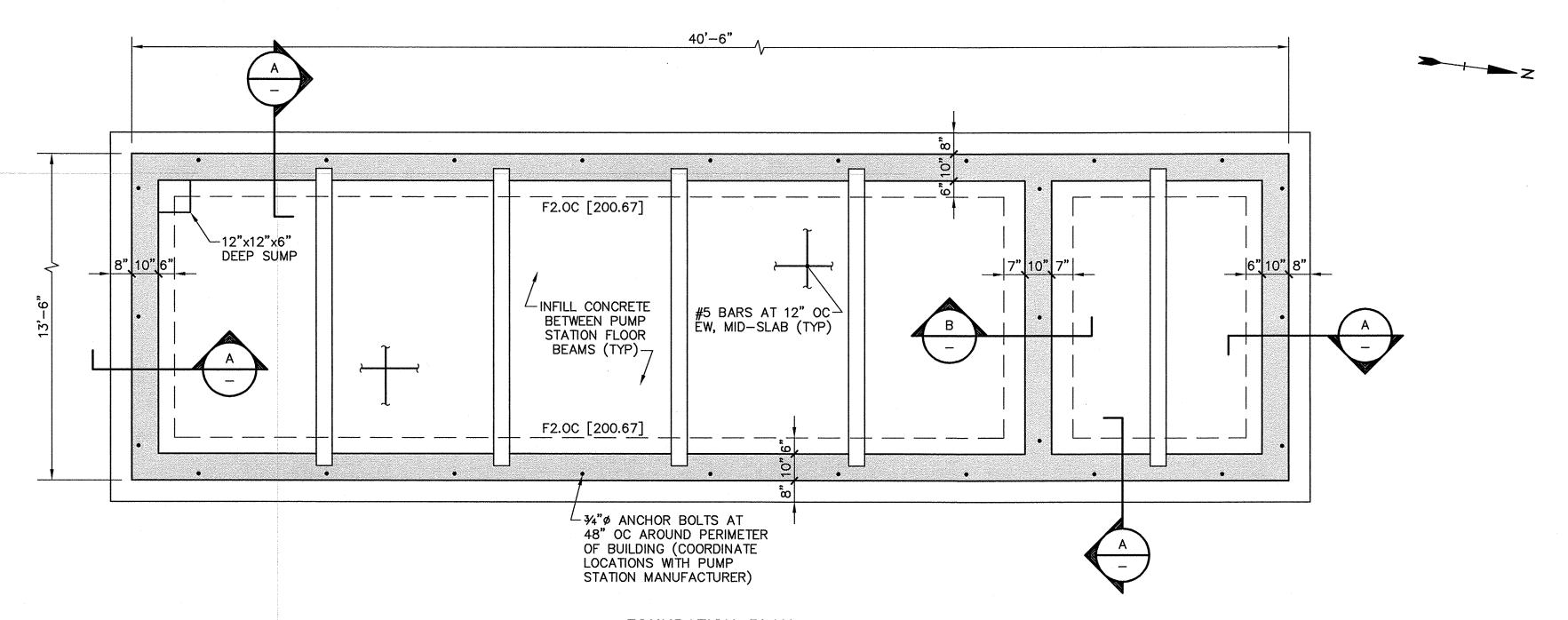
- FOUNDATIONS

 F1 No concrete shall be placed in water or on frozen ground.
- F2 Bottom of foundation elevations given on plans are to be considered minimum depths.

 Contractor shall have further excavation as required to reach good bearing.
- 3 All excavations for footings shall be finished by hand for the last 6".
- F4 All finished excavations shall be inspected by the Engineer before any concrete is placed.
- F5 All backfill under or adjacent to any portion of the structures shall be compacted in 6" lifts. See Specifications.
- Remove unsuitable fill and/or improve the subgrade per specification requirements.

 Backfill with compacted structural (granular) fill up to the underside of the building slabs.

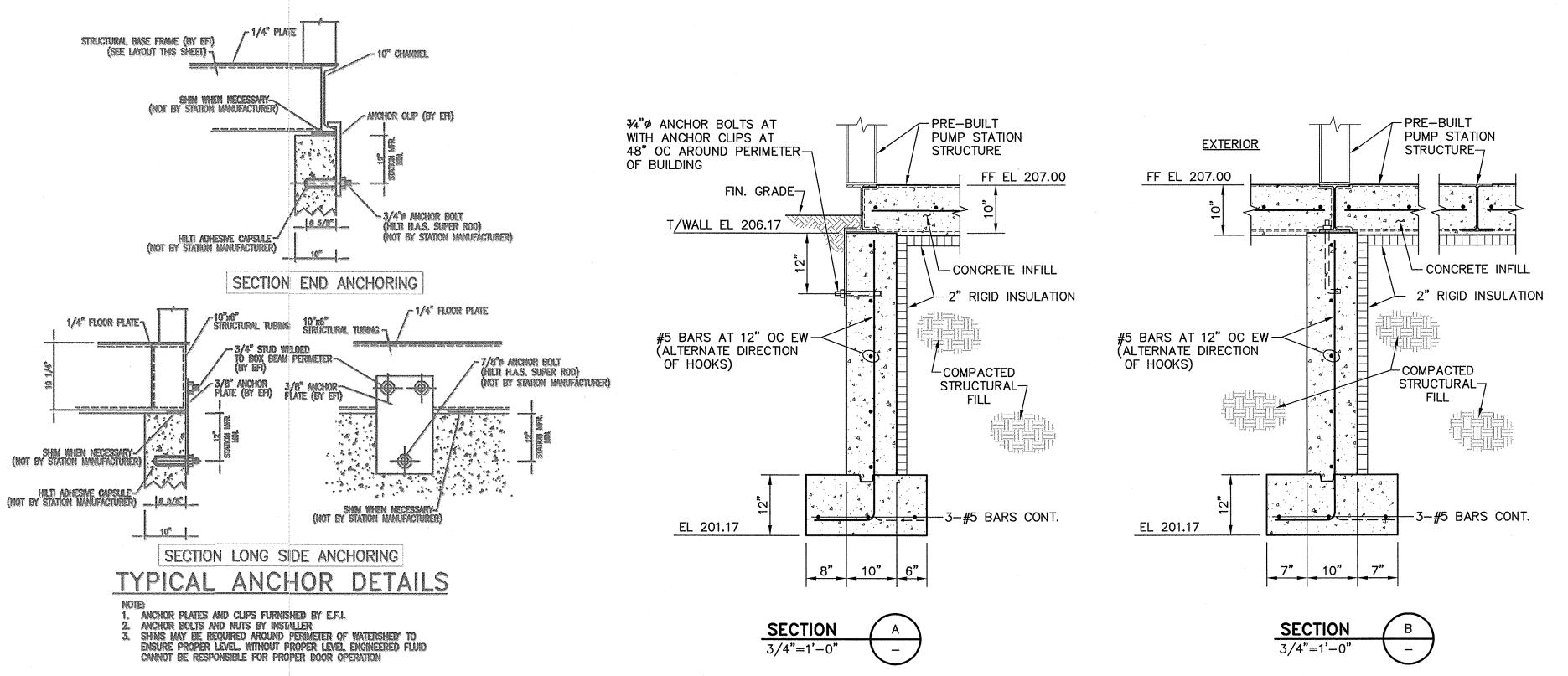
 See Specifications.



FOUNDATION PLAN NO SCALE

NOTES:

SEE PUMP STATION SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
 TYPICAL ANCHOR DETAIL FROM PUMP STATION SHOP DRAWINGS IS
 SHOWN ON THIS SHEET.



RECORD DRAWING

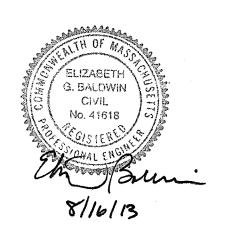
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Harkness Ave.
Booster
Pump Station
Replacement

East Longmeadow,
Massachusetts

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1 8/13 RECORD DRAWING
0 10/12 ISSUED FOR BIDDING
Mark Date Description
PROJECT NO: E0451/25

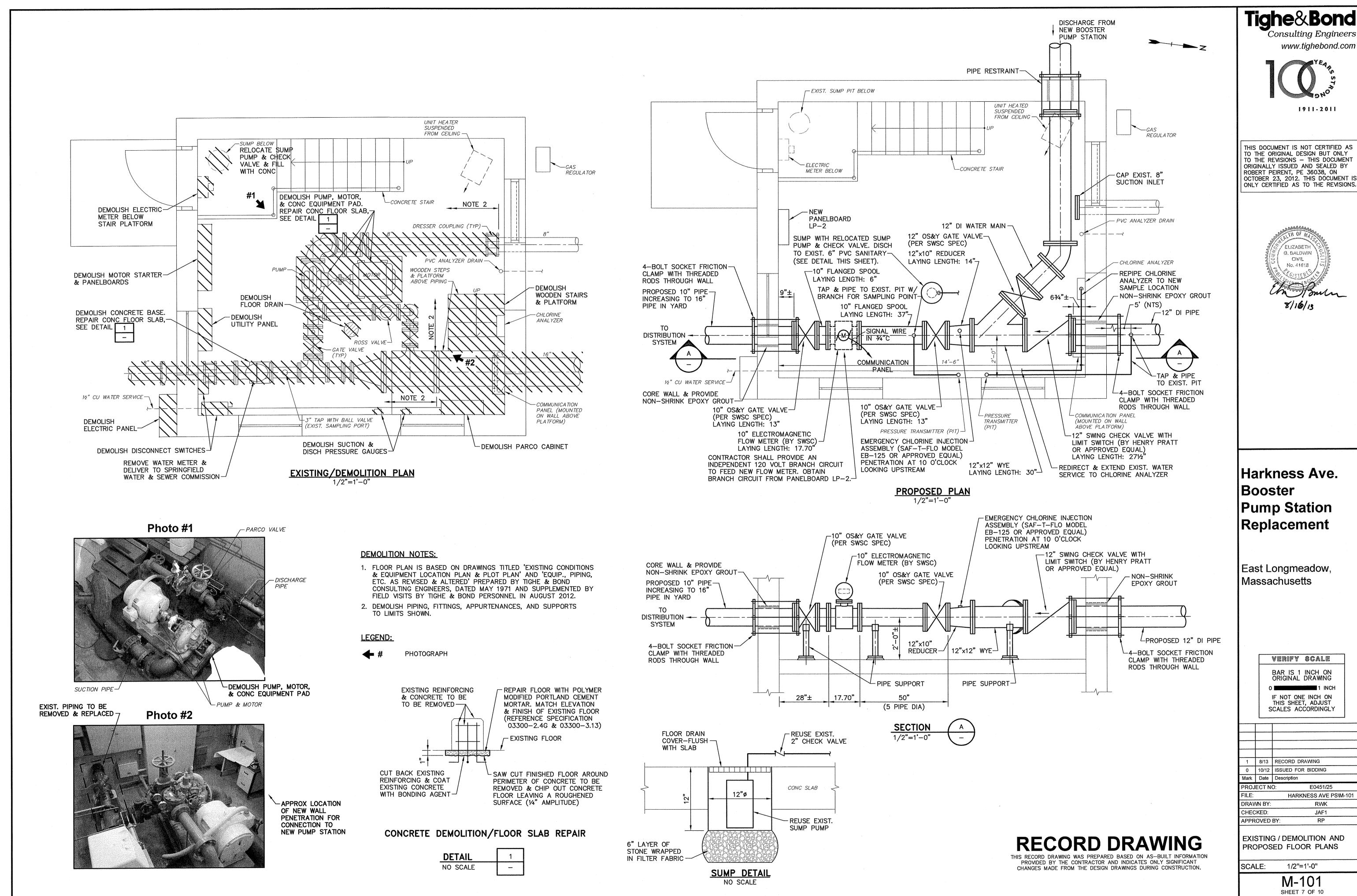
DRAWN BY: RWK
CHECKED: JAF1
APPROVED BY: RP

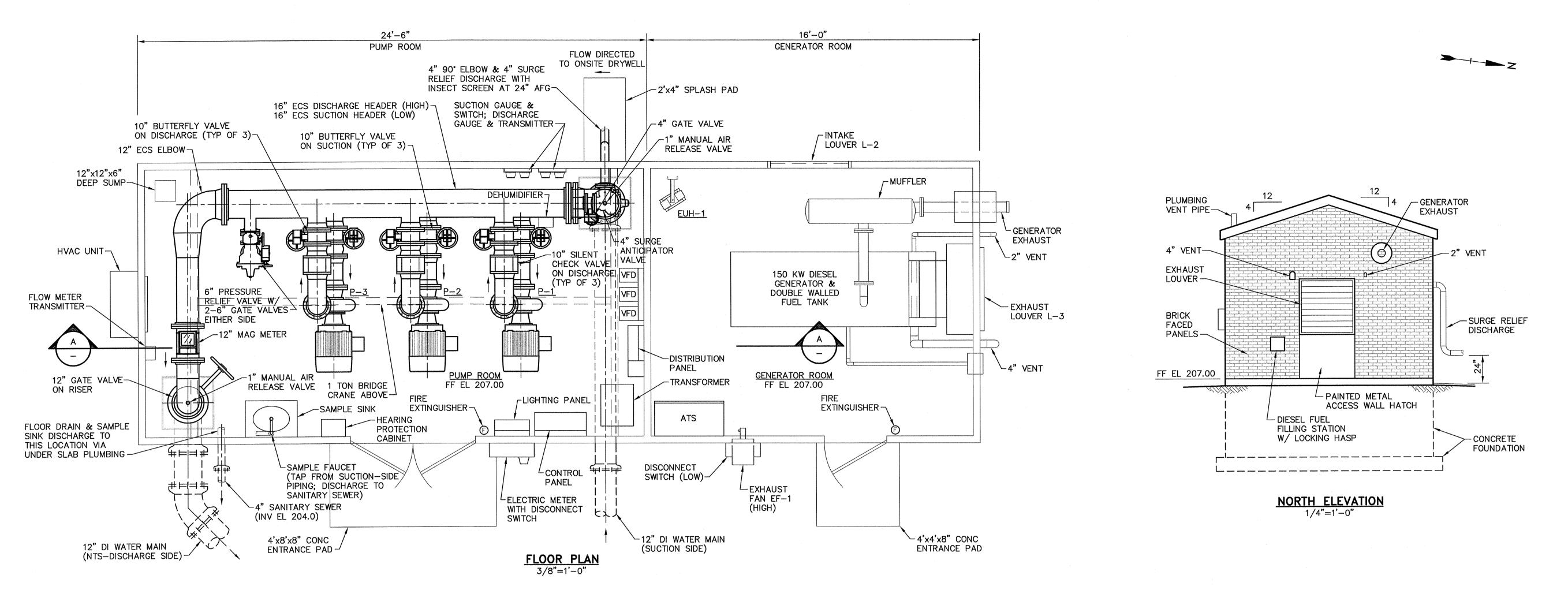
HARKNESS AVE PS\S-101

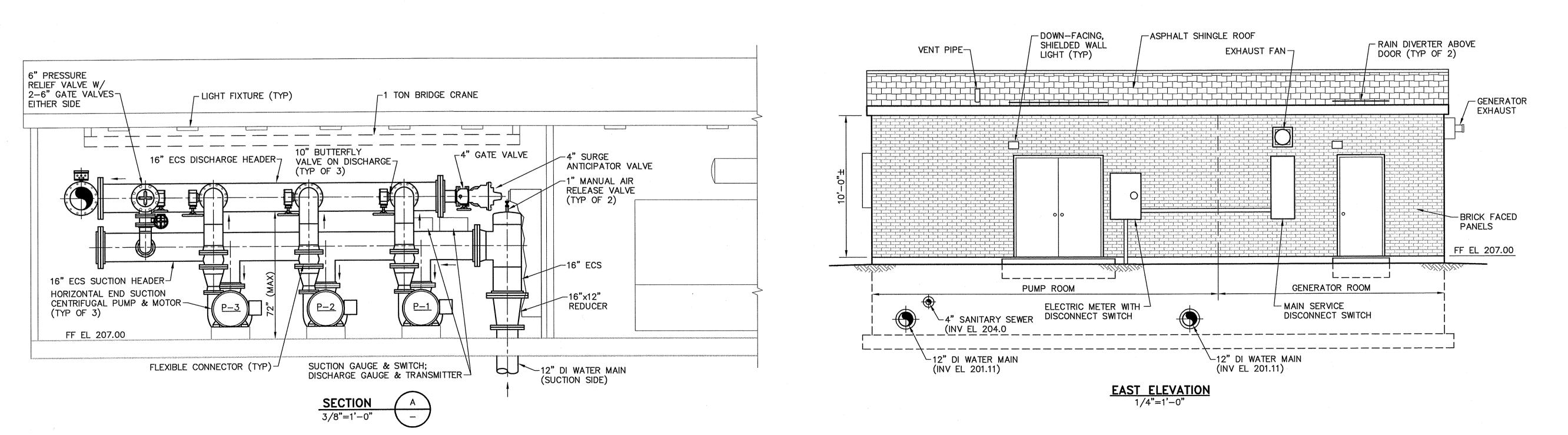
FOUNDATION PLAN, SECTIONS, AND NOTES

scale: as shown S-101

SHEET 6 OF 10







Harkness Ave. Booster Pump Station Replacement

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1911-2011

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ELIZABETH

G. BALDWIN

No. 41618

East Longmeadow, Massachusetts

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O 1 INCH

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1	1	8/13	RECORD DRAWING
-	0	10/12	ISSUED FOR BIDDING
	Mark	Date	Description
	PROJ	ECT N	O: E0451/25
1	FILE:		HARKNESS AVE PS\M-1

PROJECT NO: E0451/25

FILE: HARKNESS AVE PS\M-102

DRAWN BY: RWK

CHECKED: JAF1

APPROVED BY: RP

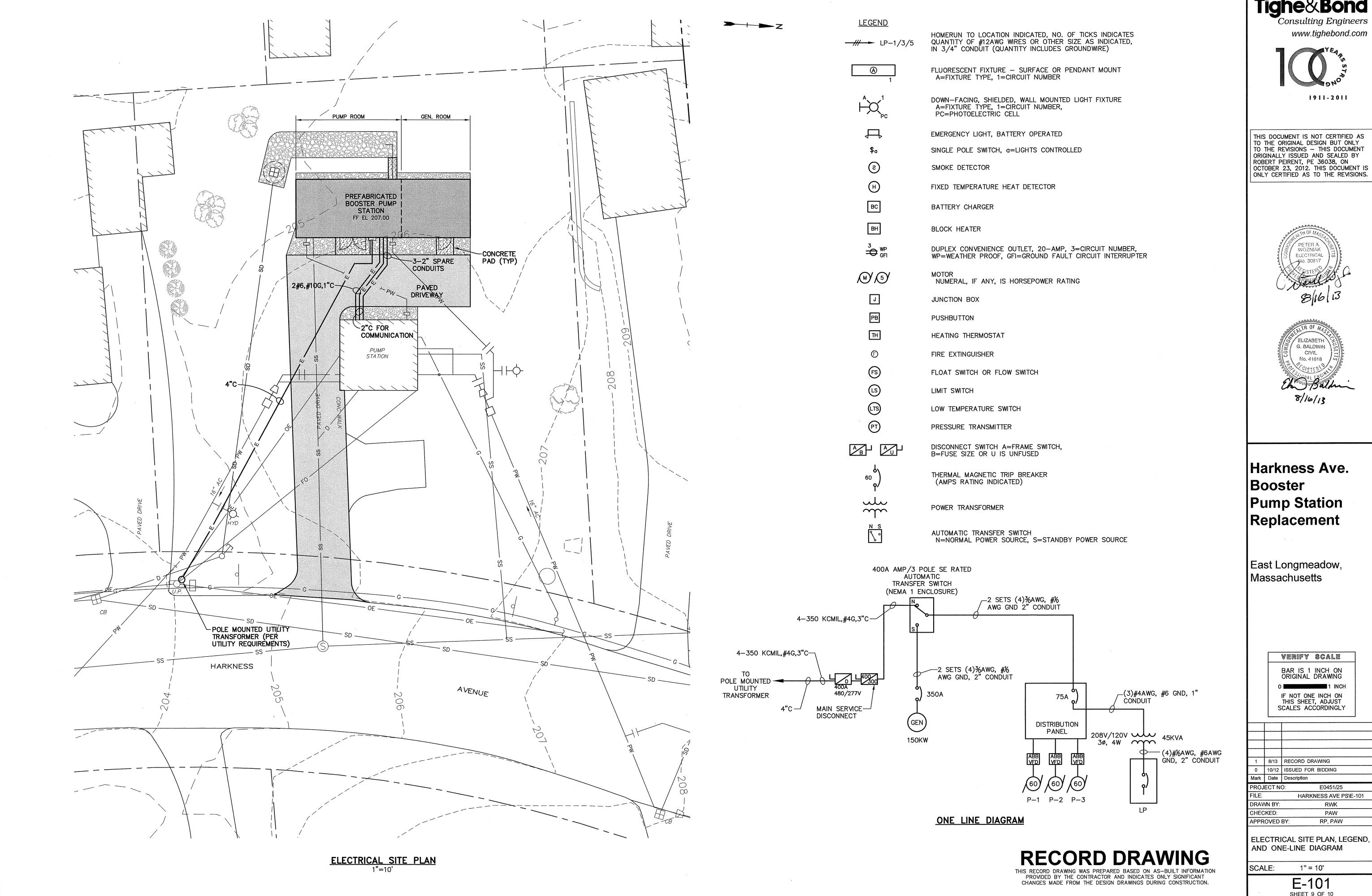
PREFABRICATED PACKAGED BOOSTER PUMP STATION

RECORD DRAWING

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SCALE: AS SHOWN

M-102
SHEET 8 OF 10



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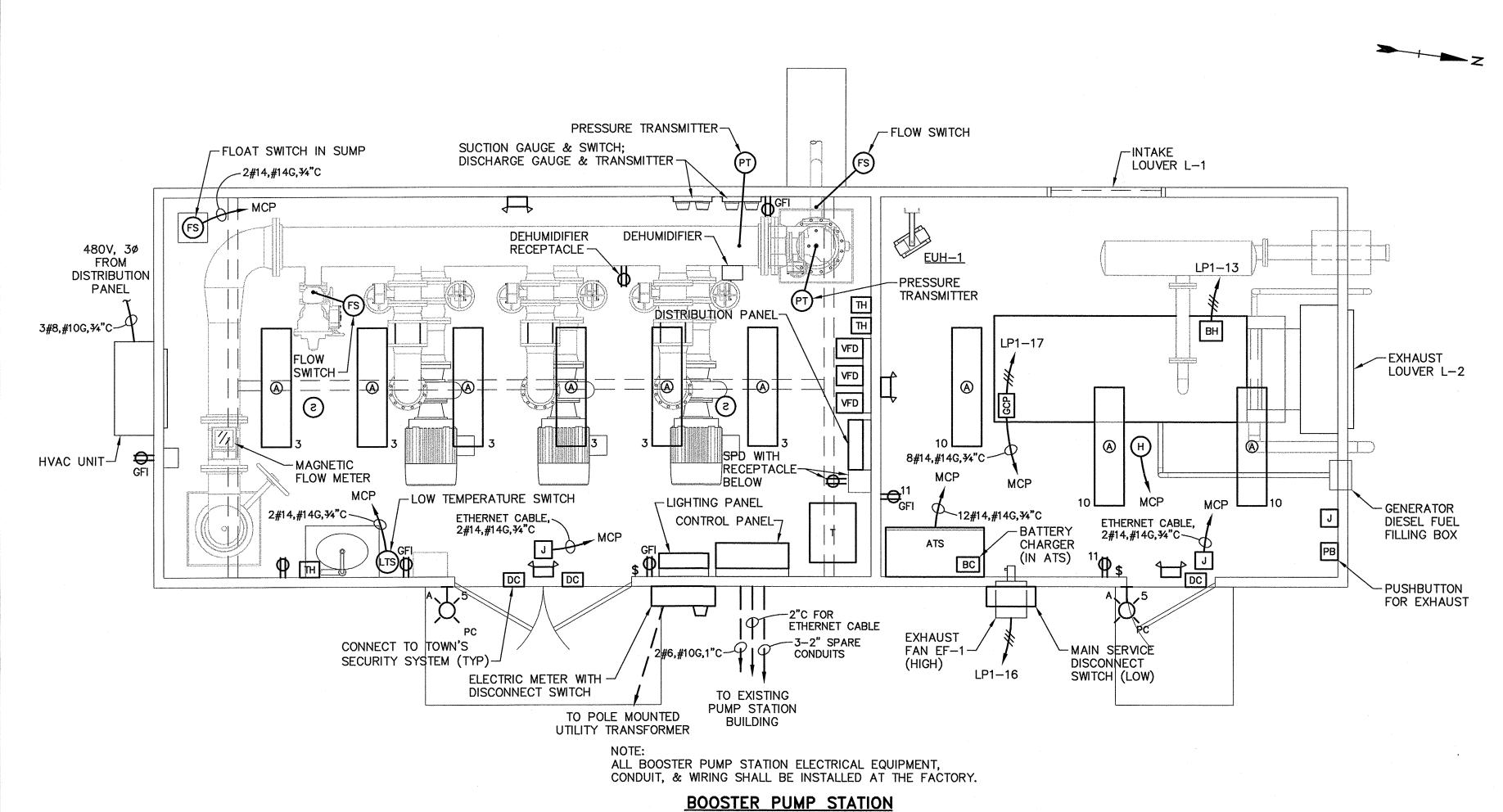
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1	8/13	RECORD DRAWING			
0	10/12	ISSUED FOR BIDDING			
Mark	Date	Description			
PROJ	ECT N	O: E0451/25			
FILE:		HARKNESS AVE PS\E-101			
DRAV	DRAWN BY: RWK				

ELECTRICAL SITE PLAN, LEGEND,

SHEET 9 OF 10



ELECTRICAL PLAN

LIMIT

FLOAT

SWITCH-

2#14,#14G,3/4"C-

LP1-5

-2#14,#14G,3/4"C

— COMMUNICATION PANEL (MOUNTED ON WALL ABOVE PLATFORM)

COMMUNICATION

PANEL

3/8"=1'-0"

TO NEW

PUMP STATION

-3-2" SPARE

- PANELBOARD

COMMUNICATION PANEL

~ 2"C FOR ETHERNET

EXISTING PUMP STATION ELECTRICAL PLAN

CABLE TO EXIST.
COMMUNICATION PANEL

CONDUITS

ETHERNET CABLE IN 2"C

2#6,#10G,1"C

120/208 VOLTS, 3 PH, 4 WIRE 125 AMP MAIN BUS 22,000 AIC 150 (LOCATION: NEW BOOSTER PUMP STATION CONTROLS PUMP ROOM RECEPTACLES PUMP ROOM LIGHTS PUMP ROOM RECEPTACLES PUMP ROOM RECEPTACLES EXTERIOR LIGHTS DEHUMIDIFIER EUH-1 10 GENERATOR ROOM LIGHTS GENERATOR ROOM RECEPTACLES GENERATOR ROOM EXHAUST BLOCK HEATER BPS FEED (LP-2) 15 SPARE 17 GENERATOR CONTROL PANEL SPARE 19 20 SPACE 21 22 SPACE SPACE 23 SPACE SPACE

PANELBOARD LP-1 LAYOUT

		50 ((120/208 VOLTS, 3 PH, 4 WIRE 100 AMP MAIN BUS 10,000 AIC LOCATION: EXISTING PUMP STATION
EXISTING PUMP STATION LIGHTS	20	1		2	30	EXISTING RECEPTACLE—CONVENIEN
EXISTING SUMP PUMP RECEPTACLE	20	3		4	20	EXISTING RECEPTACLE—CONTR
EXISTING GAS HEATER	30 —	5		6	20	NEW RECEPTAC
NEW RECEPTACLE	20	7		8	20	NEW RECEPTAC
SPARE	20 —	9		10	20	SPA
SPACE		11		12		SPA
SPACE		13		14		SPA
SPACE		15		16		SPA
SPACE		17		18		SPA

PANELBOARD LP-2 LAYOUT

RECORD DRAWING

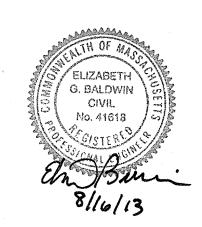
THIS RECORD DRAWING WAS PREPARED BASED ON AS-BUILT INFORMATION PROVIDED BY THE CONTRACTOR AND INDICATES ONLY SIGNIFICANT CHANGES MADE FROM THE DESIGN DRAWINGS DURING CONSTRUCTION.

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Harkness Ave.
Booster
Pump Station
Replacement

East Longmeadow, Massachusetts

WERIFY SCALE

BAR IS 1 INCH ON ORIGINAL DRAWING

0 1 INCH

IF NOT ONE INCH ON THIS SHEET, ADJUST

SCALES ACCORDINGLY

 1
 8/13
 RECORD DRAWING

 0
 10/12
 ISSUED FOR BIDDING

 Mark
 Date
 Description

 PROJECT NO:
 E0451/25

 FILE:
 HARKNESS AVE PS\E-102

 DRAWN BY:
 RWK

 CHECKED:
 PAW

 APPROVED BY:
 RP, PAW

ELECTRICAL PLANS AND PANELBOARD LAYOUTS

SCALE: 3/8"=1'-0"

E-102 SHEET 10 OF 10