

LOCATION MAP

TOWN OF MAYNARD
DEPARTMENT OF PUBLIC WORKS
DUPLEX PUMP STATION
INSTALLATION
58 SUMMER HILL ROAD

| SHEET LIST TABLE | | |
|------------------|------------|-----------------------------|
| SHEET NO | DRAWING NO | TITLE |
| 1 | G-001 | COVER SHEET |
| 2 | C-101 | CIVIL PLAN AND DETAILS |
| 3 | E-101 | ELECTRICAL PLAN AND DETAILS |

JULY 2023

Project Number: 195110237



DIRECTOR OF PUBLIC WORKS
JUSTIN DEMARCO



| | |
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| Consultants | |
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Legend



Notes



1. TRENCH WIDTH LIMITS IN LEDGE EXCAVATION:

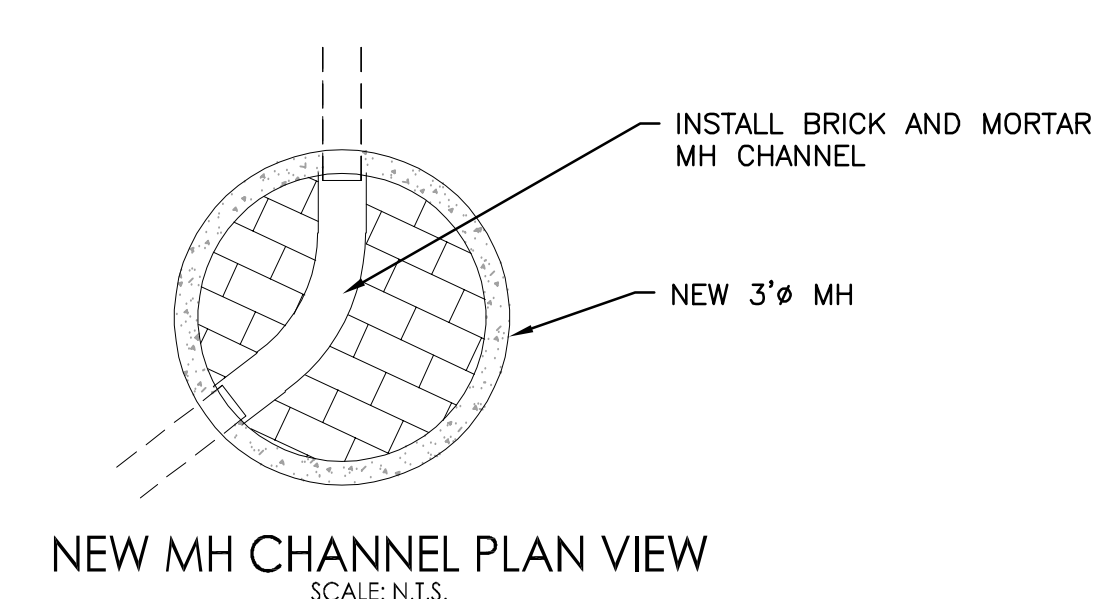
| DEPTH TO INVERT | PIPE DIAMETER | |
|-----------------|---------------|----------|
| | 0"-24" | OVER 24" |
| 0'-12' | 5' | D+3' |
| 12'-20' | 7' | D+5' |

2. PROVIDE A MAGNETIC DETECTION STRIP ABOVE ALL PIPING, BURIED 2' BELOW FINISHED GRADE.

TYPICAL TRENCH DETAIL
SCALE: N.T.S.



FLEXIBLE COUPLING FOR JOINING DISSIMILAR PIPE MATERIALS
SCALE: N.T.S.



| | | | |
|-------------------------|-----|-------|----------|
| Revision | By | Appd. | YY.MM.DD |
| | | | |
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| | | | |
| | | | |
| △ REVISE TO 2-PUMP UNIT | MFB | VAO | 22.10.20 |
| Issued | By | Appd. | YY.MM.DD |

| | | | | |
|------------|------|-------|-------|----------|
| File Name: | MPB | NRB | MPB | 22.08.03 |
| | Dwn. | Chkd. | Dsgn. | YY.MM.DD |

Permit-Seal 

MAYNARD, MASSACHUSETTS

| Title |
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PLAN AND DETAILS

| | |
|--------------------------|-------------------|
| Project No. 195110237 | Scale AS NOTED |
|--------------------------|-------------------|

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|-------------|-------|----------|
| Drawing No. | Sheet | Revision |
|-------------|-------|----------|

C-101 1 of 2

DIG SAFE NOTE:
UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL "DIG SAFE" AT 1(888)344-7233 [1(888)DIG-SAFE] IN MA, ME, NH, RI, AND VT. WEBSITE: WWW.DIGSAFE.COM

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| 1 BID DOCUMENTS | CSM | VAQ | 23.07.12 |
| Issued | By | Appd. | YY.MM.DD |

| | | | | |
|------------|------|-------|--------|----------|
| File Name: | CSM | DMG | CSM | YY.MM.DD |
| | Dwn. | Chkd. | Desgn. | |

Permit-Seal

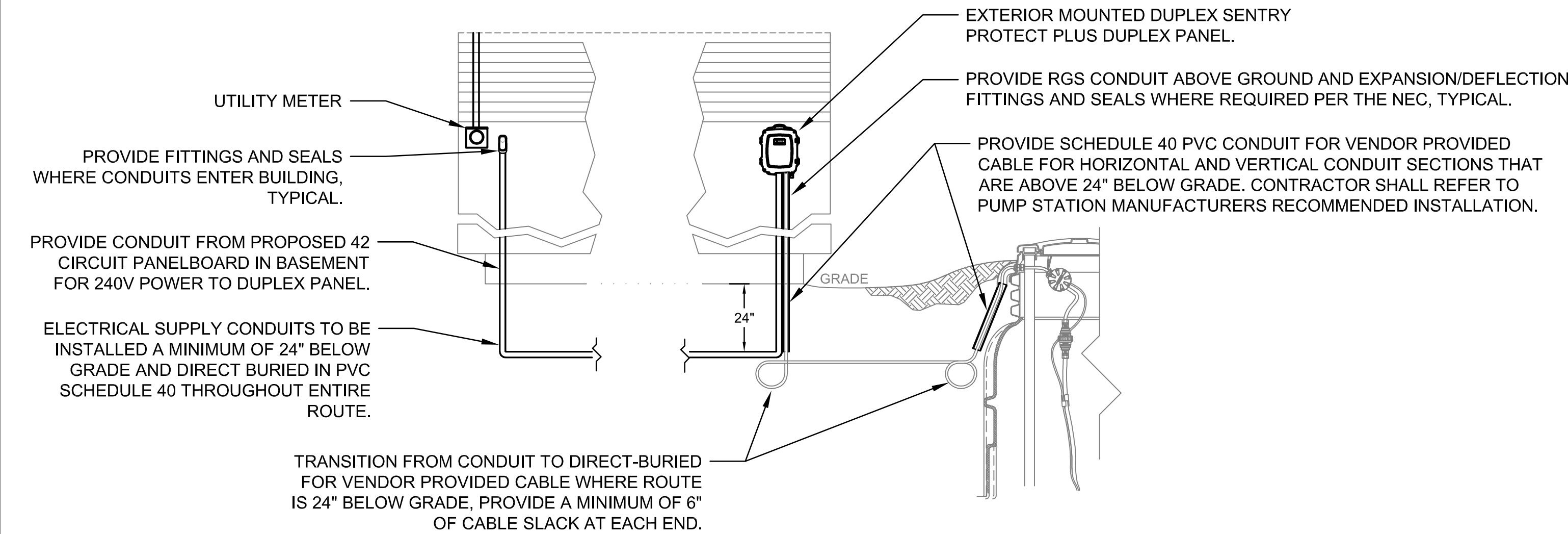
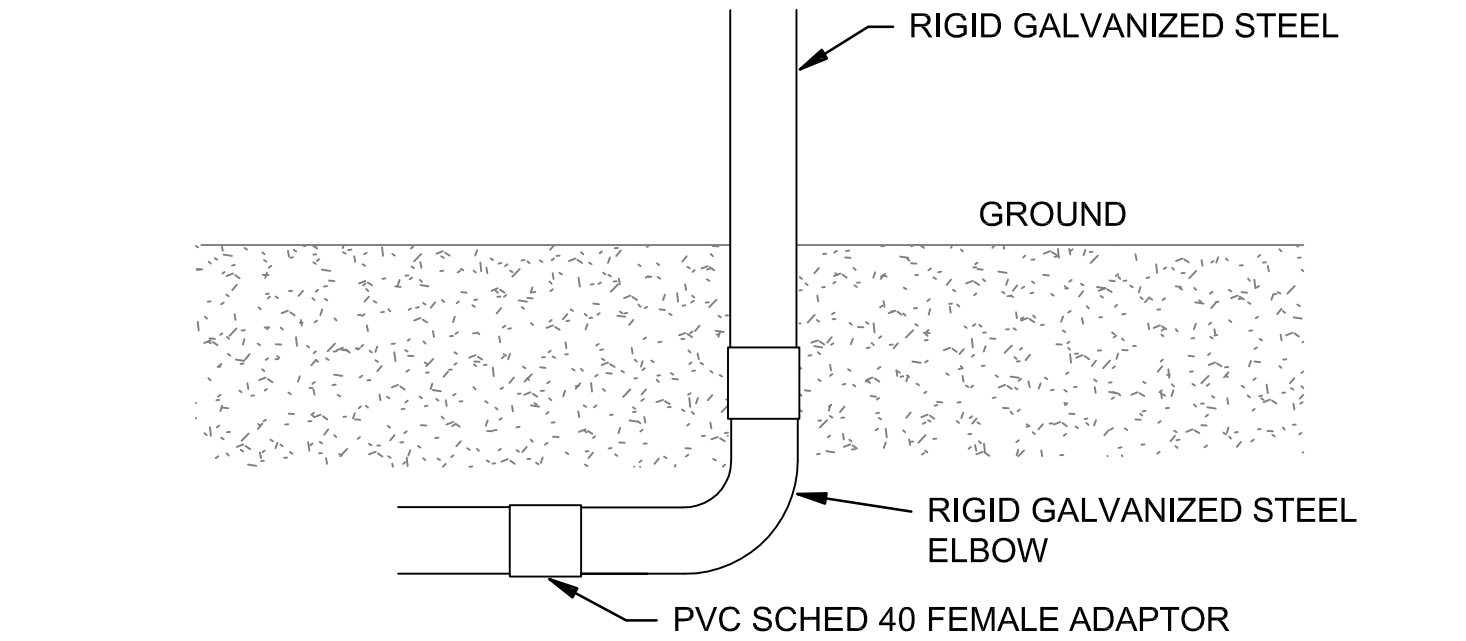
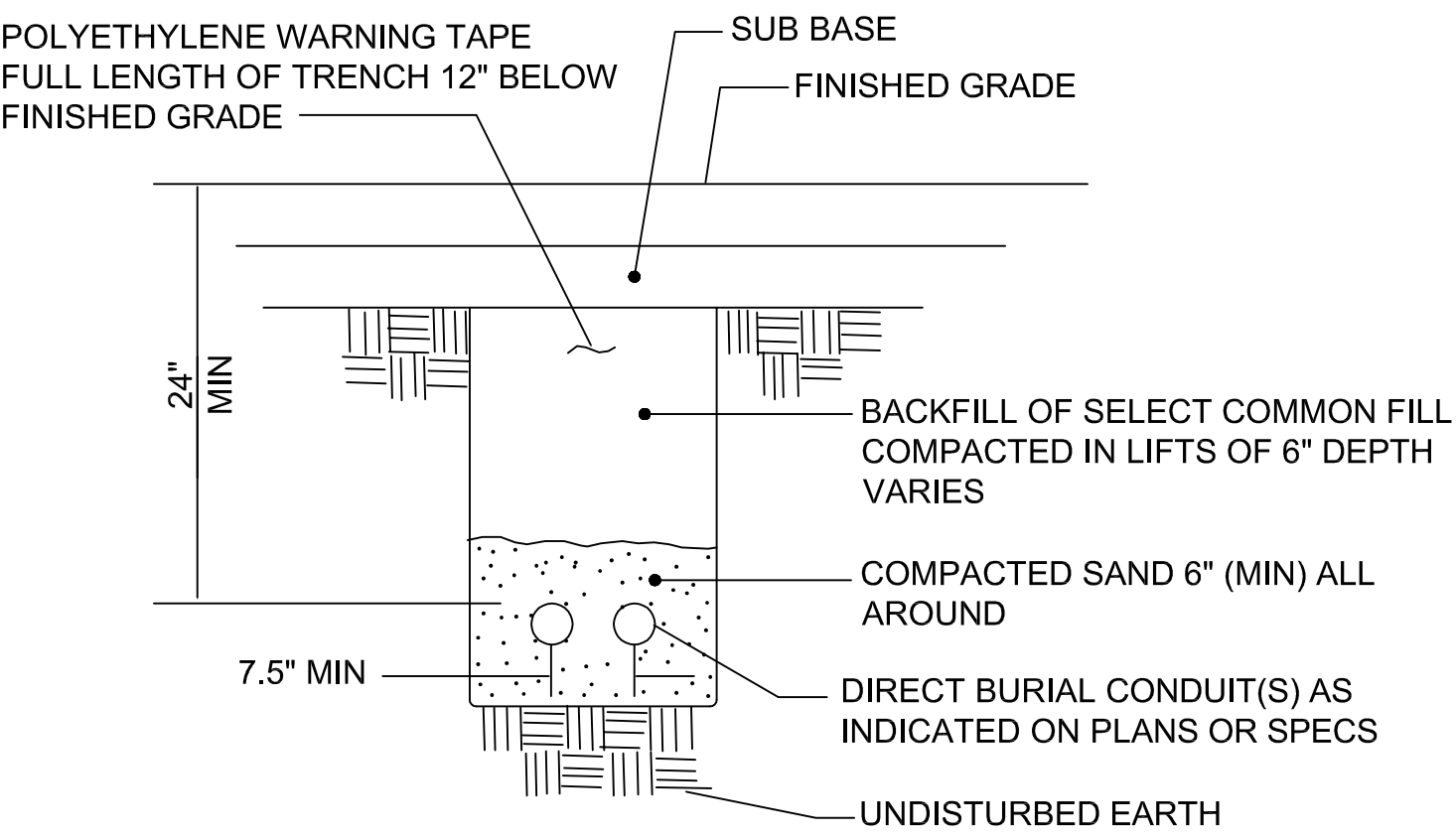
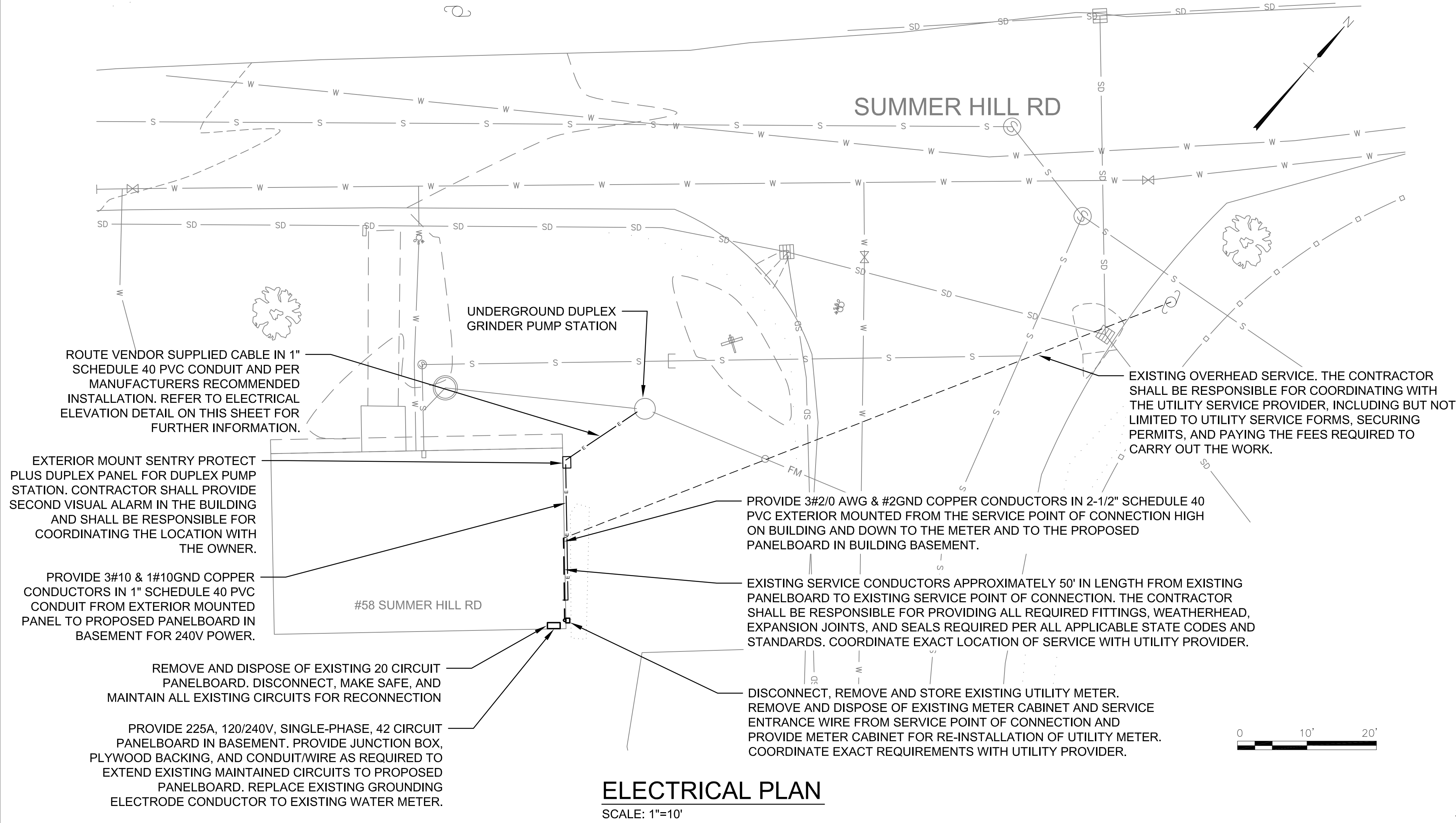


Client/Project
SEWER SERVICE REPLACEMENT
58 SUMMER HILL ROAD

MAYNARD, MASSACHUSETTS

Title
ELECTRICAL PLAN AND DETAILS

| | |
|--------------------------|-------------------|
| Project No. 195110237 | Scale AS NOTED |
| Drawing No. | Sheet |
| | Revision |



| PANEL LP | | | | | | | | | | | | | | | |
|---|------------------------------|-----|---------------------------|------|------|-----------|-------------------|-----------|----------|-----------|------|-----------------------|--------------|----------|----|
| VOLTAGE (L-N): | | 120 | MAIN TYPE: | | MCB | | ENCLOSURE RATING: | | NEMA 1 | | | | | | |
| VOLTAGE (L-L): | | 240 | MAIN BREAKER RATING (A): | | 200 | | MOUNTING: | | SURFACE | | | | | | |
| PHASE: | | 1ϕ | MINIMUM BUS CAPACITY (A): | | 225 | | LOCATION: | | BASEMENT | | | | | | |
| WIRE: | | 3W | NEUTRAL BUS RATING: | | 100% | | AIC RATING (A): | | 22,000 | | | | | | |
| CKT. NO. | LOAD SERVED | | | TRIP | POLE | KVA-A | | KVA-B | | POLE | TRIP | LOAD SERVED | | CKT. NO. | |
| 1 | EXIST. KITCHEN CIRCUIT | | | 20 | 1P | 1.92 | 1.92 | | | 1P | 20 | EXIST. UNLABELED | | 2 | |
| 3 | EXIST. KITCHEN CIRCUIT | | | 20 | 1P | | | 1.92 | 1.92 | 1P | 20 | EXIST. KITCHEN LIGHTS | | 4 | |
| 5 | EXIST. FURNACE | | | 15 | 1P | 1.44 | 2.88 | | | | | | | 6 | |
| 7 | EXIST. HALL/LIVING CIRCUIT | | | 15 | 1P | | | 1.44 | 2.88 | 2P | 30 | EXIST. DRYER | | 8 | |
| 9 | EXIST. CONV. RECEPT. CIRCUIT | | | 15 | 1P | 1.44 | 1.44 | | | 1P | 15 | EXIST. BEDROOM | | 10 | |
| 11 | EXIST. UNLABELED | | | 20 | 2P | | | 1.92 | 1.44 | 1P | 15 | EXIST. BEDROOM | | 12 | |
| | | | | | | 1.92 | 3.84 | | | | | | | | |
| 13 | EXIST. UNLABELED | | | 30 | 2P | | | | 1.44 | 3.84 | 2P | 50 | EXIST. RANGE | | 14 |
| | | | | | | 1.44 | 2.4 | | | | | | | | |
| 15 | | | | | | | | | | | | | | 16 | |
| | | | | | | | | | | | | | | | |
| 17 | DUPLEX ALARM, PUMP STATION | | | 30 | 2P | | | 1.44 | 2.4 | 2P | 25 | EXIST. WATER HEATER | | 18 | |
| | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | 20 | |
| 21 | SPARE | | | 15 | 1P | | | 0 | 0 | 1P | 15 | SPARE | | 22 | |
| 23 | SPARE | | | 15 | 1P | 0 | 0 | | | 1P | 15 | SPARE | | 24 | |
| 25 | SPARE | | | 15 | 1P | | | 0 | 0 | 1P | 15 | SPARE | | 26 | |
| 27 | SPARE | | | 15 | 1P | 0 | 0 | | | 1P | 15 | SPARE | | 28 | |
| 29 | SPARE | | | 15 | 1P | 0 | 0 | | | 1P | 15 | SPARE | | 30 | |
| 31 | SPARE | | | 20 | 1P | | | 0 | 0 | 1P | 20 | SPARE | | 32 | |
| 33 | SPARE | | | 20 | 1P | 0 | 0 | | | 1P | 20 | SPARE | | 34 | |
| 35 | SPACE | | | | | | | | | | | SPACE | | 36 | |
| 37 | SPACE | | | | | | | | | | | SPACE | | 38 | |
| 39 | SPACE | | | | | | | | | | | SPACE | | 40 | |
| 41 | SPACE | | | | | | | | | | | SPACE | | 42 | |
| TOTAL LOAD: | | | | | | 22.08 KVA | | 20.64 KVA | | | | | | | |
| TOTAL CONNECTED LOAD: | | | | | | | | | | 42.72 KVA | | 178 A | | | |
| NOTES: 1. ALL CIRCUITS LABELED "EXIST." ARE EXISTING CIRCUITS AND HAVE BEEN ESTIMATED AT A KVA RATING EQUIVALENT WITH CIRCUIT AMPACITY TRIP. 2. PROVIDE "HACR" RATED TYPE BREAKERS FOR MECHANICAL MOTOR LOADS SUCH AS EXHAUST FANS, HEATERS, AND PUMP MOTORS. 3. PROVIDE AFCI / GFCI BREAKERS AS REQUIRED PER THE NEC AND CAPABLE OF MULTI-WIRE BRANCH CIRCUITS WHERE REQUIRED. 4. TOTAL CONNECTED LOAD AMPACITY IS SHOWN AT A DEMAND OF 50% OF TOTAL CONNECTED LOAD. | | | | | | | | | | | | | | | |