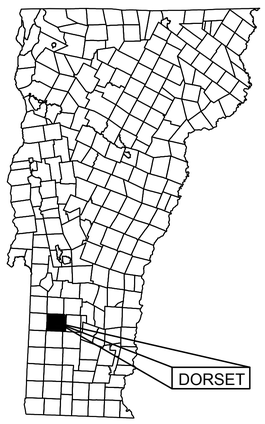
DORSET FIRE DISTRICT NO. 1

SERVICE LINE REPLACEMENT

DORSET, VERMONT

2022





BID SET

OTTER CREEK
ENGINEERING

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GENERAL NOTES

1. IN THE PREPARATION OF THESE PLANS, DATA FROM THE FOLLOWING SOURCES WAS INCORPORATED:
   - A. PLANS PREPARED FOR DORSET FIRE DISTRICT, BY KEPLER CONSULTING, LLC., MANCHESTER CENTER, DATED 8/30/18.
   - B. ORTHOIMAGERY AND TOWN OF DORSET TAX MAPS DOWNLOADED FROM THE CENTER FOR GEOGRAPHIC INFORMATION WEBSITE.
   - C. WATER SERVICE LOCATIONS HAVE BEEN TRACED AND LOCATED BY OTTER CREEK ENGINEERING, INC.
   - D. TOPOGRAPHY SHOWN FOR PROFILING IS BASED ON LIDAR DATA DOWNLOADED FROM THE VERMONT CENTER FOR GEOGRAPHIC INFORMATION WEBSITE.
   - E. PLAN TITLED "DORSET FIRE DISTRICT, PROPOSED SOURCE WELL – SITE PLAN, DORSET, VERMONT", PREPARED BY KEPLER CONSULTING, LLC, MANCHESTER CENTER, VERMONT, DATED DECEMBER 18, 2017.
   - F. WETLANDS FOR 194 CHENEY ROAD WERE DELINEATED BY MARY BETH POLI OF OTTER CREEK ENGINEERING, INC. AND REVIEWED AND APPROVED BY ZAPATA COURAGE FROM THE STATE OF VERMONT ENVIRONMENTAL CONSERVATION ON 5/4/2021.
2. ELEVATION IS BASED ON NAVD 88.
3. COORDINATE SYSTEM IS BASED ON VERMONT STATE PLANE NAD 83.
4. REFER TO LEGEND LOCATED ON THIS SHEET FOR SYMBOL DESIGNATIONS.
5. ALL UNDERGROUND UTILITIES ARE SHOWN AS APPROXIMATE LOCATIONS.
6. FOR CLARITY, OVERHEAD LINES ARE NOT SHOWN.
7. THIS IS NOT A BOUNDARY SURVEY.
8. CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS ACCOMPANY THESE PLANS AND ARE ESSENTIAL FOR CONSTRUCTION OF THIS PROJECT.

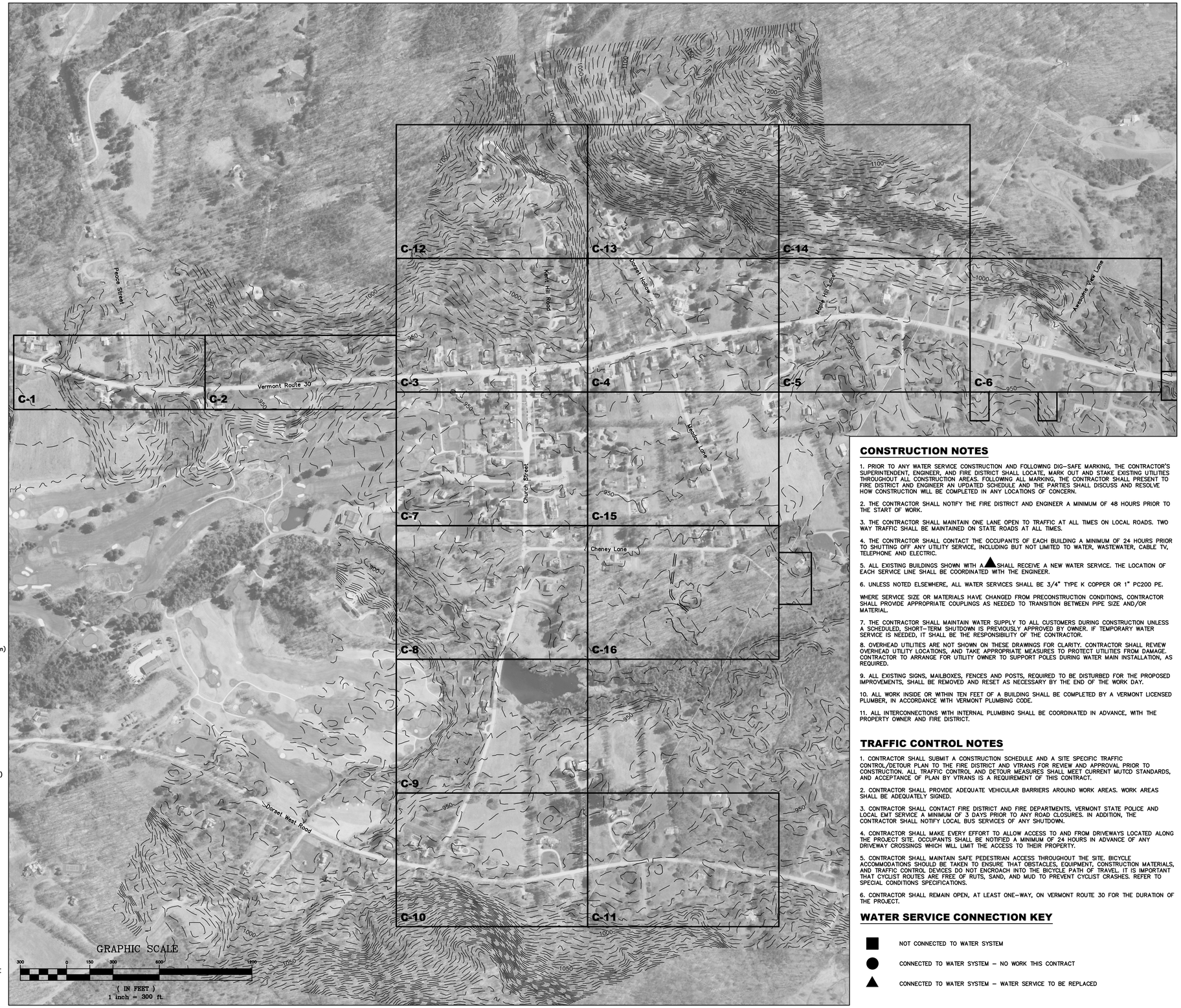
LEGEND

- boundary line/r.o.w.
- easement
- road/parking/drive (paved)
- road/parking/drive (gravel)
- tree line/hedge row
- 1 foot contour
- 5 foot contour
- stone wall
- underground electric
- underground telephone
- water main
- water main (abandoned)
- sanitary sewer
- sewer force main
- liquid propane
- guardrail
- 100' wetland buffer–VSWI class I
- wetlands–VSWI
- wetlands–advisory
- signs
- light pole
- utility pole
- guy
- gate valve
- curb stop
- hydrant
- iron pipe found
- catch basin
- well
- wastewater system (approximate location)
- septic tank (approximate location)
- archeologically sensitive area (ASA)
- 1B TESTING AT CONNECTION POINT
- 1B TESTING OF TRENCH
- FINISH GRADE
- WATER SERVICE
- WATER MAIN
- GATE VALVE
- REDUCER
- CURB STOP
- FLUSHING HYDRANT
- UTILITY EASEMENT
- ASA AREAS (NO DISTURBANCE ALLOWED)
- RECEIVING PIT

NOTE:
TEXT DENOTING EXISTING ITEMS IS SHOWN IN LOWER CASE, AND TEXT DENOTING PROPOSED ITEMS IS UPPERCASE AND BOLD.

ABBREVIATIONS

CI	– CAST IRON	MH	– MANHOLE
CB	– CATCH BASIN	MJ	– MECHANICAL JOINT
CL	– CLASS	NFL	– NOT FIELD LOCATED
CMP	– CORRUGATED METAL PIPE	NLTD	– NO LEDGE TO DEPTH
CS	– CURB STOP	NTS	– NOT TO SCALE
DI	– DUCTILE IRON	PVC	– POLYVINYL CHLORIDE
DMH	– DRAIN MANHOLE	ROW	– RIGHT OF WAY
FL	– FLANGE	SCH	– SCHEDULE
FM	– FORCE MAIN	SD	– STORM DRAIN
FRP	– FIBERGLASS REINFORCED PLASTIC	SMH	– SEWER MANHOLE
GPM	– GALLONS PER MINUTE	TBM	– TEMPORARY BENCHMARK
GSP	– GALVANIZED SERVICE PIPE	TBA	– TO BE ABANDONED
GV	– GATE VALVE	TBR	– TO BE REMOVED
HDPE	– HIGH DENSITY POLYETHYLENE	TMH	– TELEPHONE MANHOLE
INV	– INVERT	WMH	– WATER MANHOLE
IP	– IRON PIPE/PIN	UE	– UNDERGROUND ELECTRIC
IPF	– IRON PIPE/PIN FOUND	U.N.O.	– UNLESS NOTED OTHERWISE



CONSTRUCTION NOTES

1. PRIOR TO ANY WATER SERVICE CONSTRUCTION AND FOLLOWING DIG–SAFE MARKING, THE CONTRACTOR'S SUPERINTENDENT, ENGINEER, AND FIRE DISTRICT SHALL LOCATE, MARK OUT AND STAKE EXISTING UTILITIES THROUGHOUT ALL CONSTRUCTION AREAS. FOLLOWING ALL MARKING, THE CONTRACTOR SHALL PRESENT TO FIRE DISTRICT AND ENGINEER AN UPDATED SCHEDULE AND THE PARTIES SHALL DISCUSS AND RESOLVE HOW CONSTRUCTION WILL BE COMPLETED IN ANY LOCATIONS OF CONCERN.
2. THE CONTRACTOR SHALL NOTIFY THE FIRE DISTRICT AND ENGINEER A MINIMUM OF 48 HOURS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL MAINTAIN ONE LANE OPEN TO TRAFFIC AT ALL TIMES ON LOCAL ROADS. TWO WAY TRAFFIC SHALL BE MAINTAINED ON STATE ROADS AT ALL TIMES.
4. THE CONTRACTOR SHALL CONTACT THE OCCUPANTS OF EACH BUILDING A MINIMUM OF 24 HOURS PRIOR TO SHUTTING OFF ANY UTILITY SERVICE, INCLUDING BUT NOT LIMITED TO WATER, WASTEWATER, CABLE TV, TELEPHONE AND ELECTRIC.
5. ALL EXISTING BUILDINGS SHOWN WITH A ▲ SHALL RECEIVE A NEW WATER SERVICE. THE LOCATION OF EACH SERVICE LINE SHALL BE COORDINATED WITH THE ENGINEER.
6. UNLESS NOTED ELSEWHERE, ALL WATER SERVICES SHALL BE 3/4" TYPE K COPPER OR 1" PC200 PE.

   WHERE SERVICE SIZE OR MATERIALS HAVE CHANGED FROM PRECONSTRUCTION CONDITIONS, CONTRACTOR SHALL PROVIDE APPROPRIATE COUPLINGS AS NEEDED TO TRANSITION BETWEEN PIPE SIZE AND/OR MATERIAL.
7. THE CONTRACTOR SHALL MAINTAIN WATER SUPPLY TO ALL CUSTOMERS DURING CONSTRUCTION UNLESS A SCHEDULED, SHORT–TERM SHUTDOWN IS PREVIOUSLY APPROVED BY OWNER. IF TEMPORARY WATER SERVICE IS NEEDED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. OVERHEAD UTILITIES ARE NOT SHOWN ON THESE DRAWINGS FOR CLARITY. CONTRACTOR SHALL REVIEW OVERHEAD UTILITY LOCATIONS, AND TAKE APPROPRIATE MEASURES TO PROTECT UTILITIES FROM DAMAGE. CONTRACTOR TO ARRANGE FOR UTILITY OWNER TO SUPPORT POLES DURING WATER MAIN INSTALLATION, AS REQUIRED.
9. ALL EXISTING SIGNS, MAILBOXES, FENCES AND POSTS, REQUIRED TO BE DISTURBED FOR THE PROPOSED IMPROVEMENTS, SHALL BE REMOVED AND RESET AS NECESSARY BY THE END OF THE WORK DAY.
10. ALL WORK INSIDE OR WITHIN TEN FEET OF A BUILDING SHALL BE COMPLETED BY A VERMONT LICENSED PLUMBER, IN ACCORDANCE WITH VERMONT PLUMBING CODE.
11. ALL INTERCONNECTIONS WITH INTERNAL PLUMBING SHALL BE COORDINATED IN ADVANCE, WITH THE PROPERTY OWNER AND FIRE DISTRICT.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND A SITE SPECIFIC TRAFFIC CONTROL/DETOUR PLAN TO THE FIRE DISTRICT AND VTRANS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL TRAFFIC CONTROL AND DETOUR MEASURES SHALL MEET CURRENT MUTCD STANDARDS, AND ACCEPTANCE OF PLAN BY VTRANS IS A REQUIREMENT OF THIS CONTRACT.
2. CONTRACTOR SHALL PROVIDE ADEQUATE VEHICULAR BARRIERS AROUND WORK AREAS. WORK AREAS SHALL BE ADEQUATELY SIGNED.
3. CONTRACTOR SHALL CONTACT FIRE DISTRICT AND FIRE DEPARTMENTS, VERMONT STATE POLICE AND LOCAL EMT SERVICE A MINIMUM OF 3 DAYS PRIOR TO ANY ROAD CLOSURES. IN ADDITION, THE CONTRACTOR SHALL NOTIFY LOCAL BUS SERVICES OF ANY SHUTDOWN.
4. CONTRACTOR SHALL MAKE EVERY EFFORT TO ALLOW ACCESS TO AND FROM DRIVEWAYS LOCATED ALONG THE PROJECT SITE. OCCUPANTS SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE OF ANY DRIVEWAY CROSSINGS WHICH WILL LIMIT THE ACCESS TO THEIR PROPERTY.
5. CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ACCESS THROUGHOUT THE SITE. BICYCLE ACCOMMODATIONS SHOULD BE TAKEN TO ENSURE THAT OBSTACLES, EQUIPMENT, CONSTRUCTION MATERIALS, AND TRAFFIC CONTROL DEVICES DO NOT ENCROACH INTO THE BICYCLE PATH OF TRAVEL. IT IS IMPORTANT THAT CYCLIST ROUTES ARE FREE OF RUTS, SAND, AND MUD TO PREVENT CYCLIST CRASHES. REFER TO SPECIAL CONDITIONS SPECIFICATIONS.
6. CONTRACTOR SHALL REMAIN OPEN, AT LEAST ONE–WAY, ON VERMONT ROUTE 30 FOR THE DURATION OF THE PROJECT.

WATER SERVICE CONNECTION KEY

- ■ NOT CONNECTED TO WATER SYSTEM
- ● CONNECTED TO WATER SYSTEM – NO WORK THIS CONTRACT
- ▲ CONNECTED TO WATER SYSTEM – WATER SERVICE TO BE REPLACED

OTTER CREEK ENGINEERING

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E-mail: info@ottercrk.com

STAMP AND SIGNATURE:

STATE OF VERMONT · ROBERT M. CHAMPNEY · 10,009 · REGISTERED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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GRID NORTH

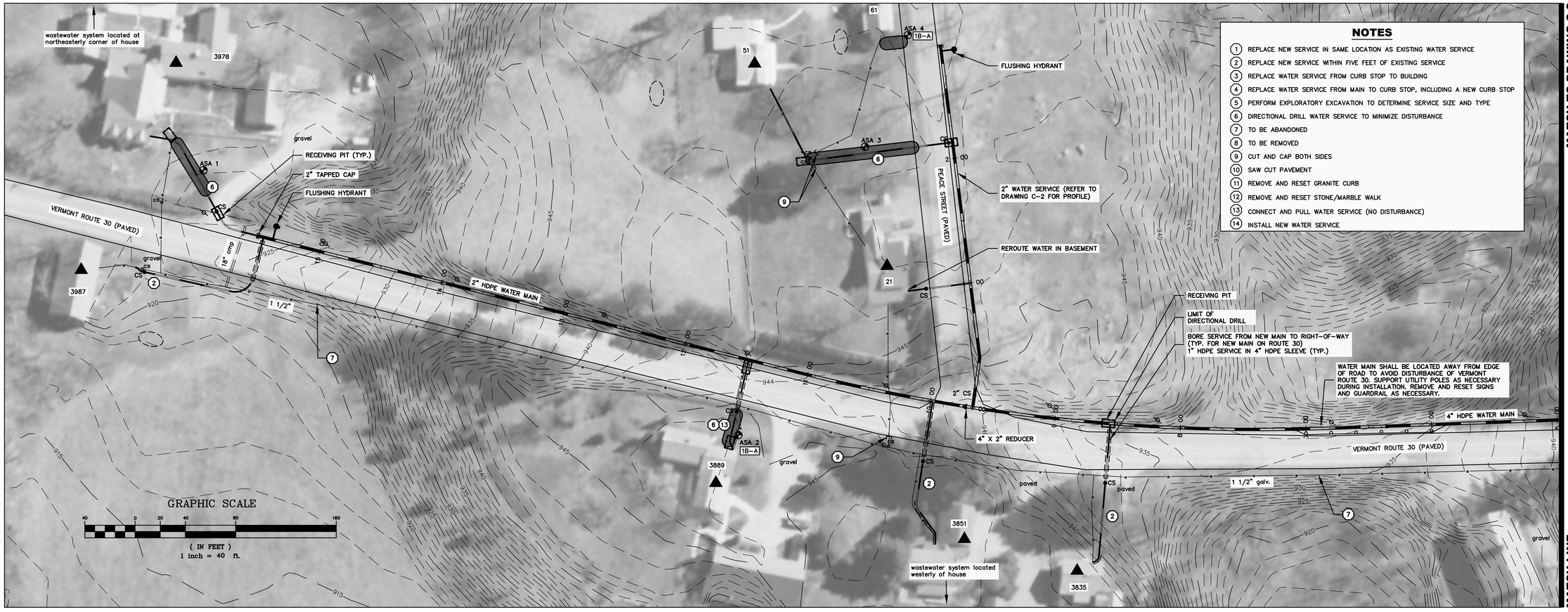
DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

DATE ISSUED:	2/1/2022
REVISIONS:	
1	ARCHAEOLOGY COMMENTS 5–10–2022 HB
2	VTRANS COMMENTS 6–28–2022 RR
DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=300'
PROJECT NO.:	407.002
CADD FILE:	407-002

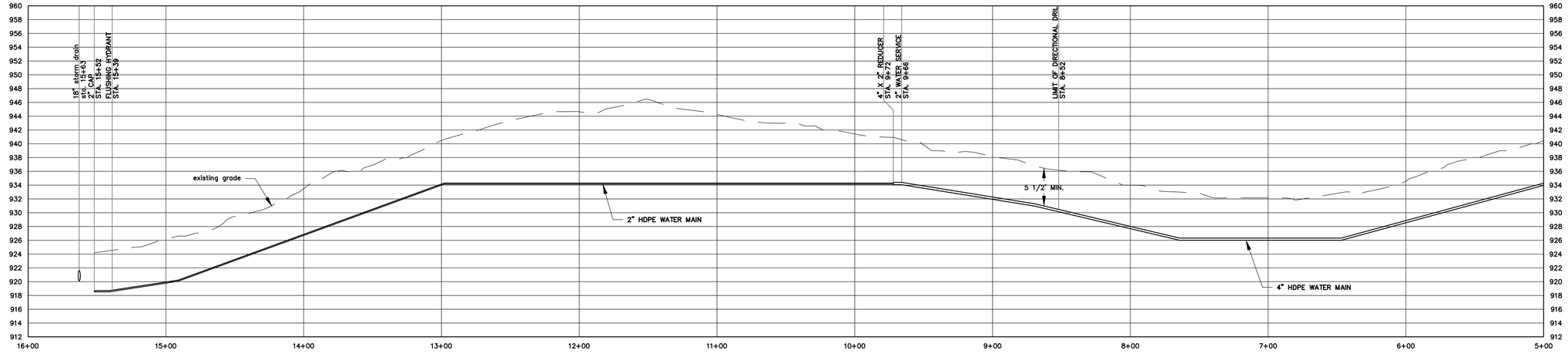
TITLE: INDEX SHEET

DRAWING NO. **I-1**



NOTES

1. REPLACE NEW SERVICE IN SAME LOCATION AS EXISTING WATER SERVICE
2. REPLACE NEW SERVICE WITHIN FIVE FEET OF EXISTING SERVICE
3. REPLACE WATER SERVICE FROM CURB STOP TO BUILDING
4. REPLACE WATER SERVICE FROM MAIN TO CURB STOP, INCLUDING A NEW CURB STOP
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6. DIRECTIONAL DRILL WATER SERVICE TO MINIMIZE DISTURBANCE
7. TO BE ABANDONED
8. TO BE REMOVED
9. CUT AND CAP BOTH SIDES
10. SAW CUT PAVEMENT
11. REMOVE AND RESET GRANITE CURB
12. REMOVE AND RESET STONE/MARBLE WALK
13. CONNECT AND PULL WATER SERVICE (NO DISTURBANCE)
14. INSTALL NEW WATER SERVICE



ROUTE 30 WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL

OTTER CREEK ENGINEERING

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STAMP AND SIGNATURE:

STATE OF VERMONT · ROBERT M. CLOUGH · 010095 · LICENSED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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GRID NORTH

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

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DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002

TITLE: SITE PLAN AND WATER MAIN PROFILE

DRAWING NO.

C-1

MATCH TO DRAWING C-1

MATCH LINE

MATCH TO DRAWING C-3

MATCH LINE

MATCH TO C-7

NOTES

1. REPLACE NEW SERVICE IN SAME LOCATION AS EXISTING WATER SERVICE
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WATER MAIN SHALL BE LOCATED AWAY FROM EDGE OF ROAD TO AVOID DISTURBANCE OF VERMONT ROUTE 30. SUPPORT UTILITY POLES AS NECESSARY DURING INSTALLATION. REMOVE AND RESET SIGNS AND GUARDRAIL AS NECESSARY.

RECEIVING PIT

LIMIT OF DIRECTIONAL DRILL

PINNACLE LANE (GRAVEL)

4" HDPE WATER MAIN

ASA 44
1B-A

REMOVE EXISTING CAP AND CONNECT TO EXISTING WATER MAIN. INSTALL 6" GATE VALVE WITH FOSTER ADAPTER AND 6" X 4" REDUCER

CONTRACTOR TO PERFORM EXPLORATORY EXCAVATIONS ON EXISTING WATER MAIN. CUT AND CAP TO BE COMPLETED OUTSIDE OF EXISTING ROADWAY.

VERMONT ROUTE 30 (PAVED)

6"

paved

3650

3584

3518

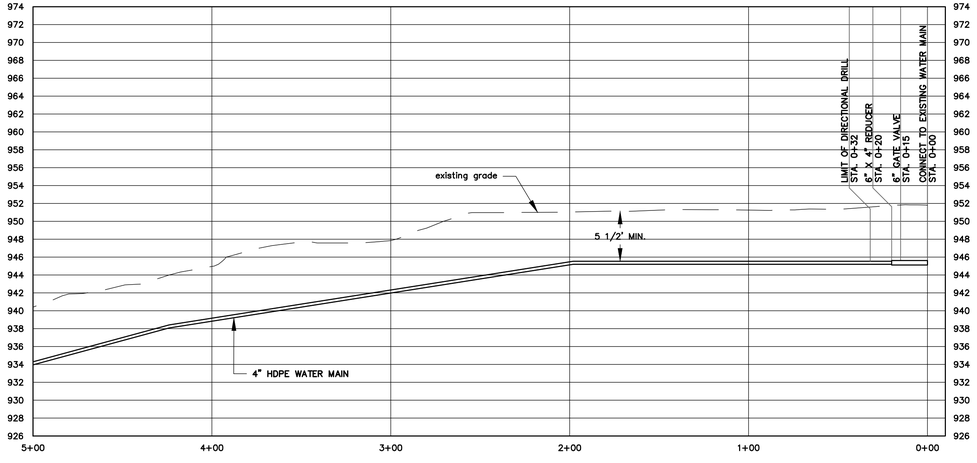
3739

gravel

GRAPHIC SCALE

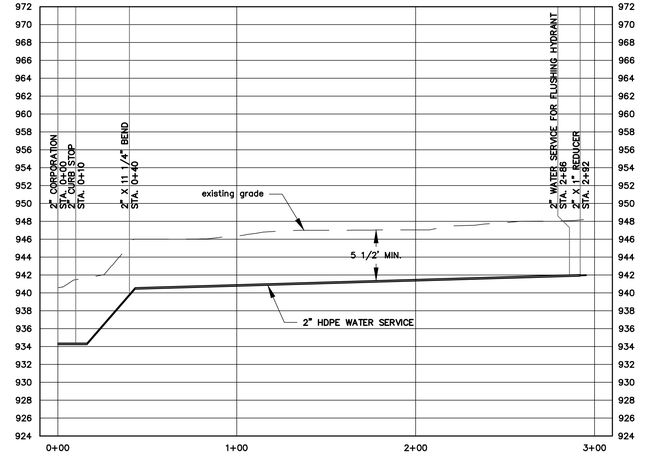
40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.



ROUTE 30 WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL



PEACE STREET WATER SERVICE PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL

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DESIGN ENGINEER

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GRID NORTH

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

DATE ISSUED:	2/1/2022
REVISIONS:	
1	ARCHAEOLOGY COMMENTS 4-22-2022 HB
2	ARCHAEOLOGY COMMENTS 5-10-2022 HB
3	VTRANS COMMENTS 6-28-2022 RR
DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002

TITLE:
SITE PLAN AND WATER MAIN PROFILE

DRAWING NO.
C-2

MATCH LINE

MATCH TO DRAWING C-12

MATCH TO DRAWING C-4

MATCH TO DRAWING C-2

NOTES

1. REPLACE NEW SERVICE IN SAME LOCATION AS EXISTING WATER SERVICE
2. REPLACE NEW SERVICE WITHIN FIVE FEET OF EXISTING SERVICE
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13. CONNECT AND PULL WATER SERVICE (NO DISTURBANCE)
14. INSTALL NEW WATER SERVICE

KENT HILL ROAD (PAVED)

DORSET VILLAGE LANE (GRAVEL)

VERMONT ROUTE 30 (PAVED)

2" X 1" REDUCER (TYP.)

2" X 2" TEE

FLUSHING HYDRANT

2" WATER SERVICE (SLEEVED IN AREA OF WASTEWATER SYSTEM)

RECEIVING PIT (TYP.)

underground power/telephone per owner

ASA 5 1B–A

ASA 6 1B–A

ASA 7 1B–A

ASA 8 1B–A

ASA 9 1B–A

ASA 10 1B–B

ASA 11 1B–B

ASA 12 1B–B

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

MATCH LINE

MATCH TO DRAWING C-7

OTTER CREEK ENGINEERING

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STATE OF VERMONT ROBERT M. CHAMPNEY 10005 LICENSED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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GRID NORTH

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

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DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002
TITLE:	SITE PLAN
DRAWING NO.	C-3

MATCH LINE

MATCH TO DRAWING C-13

MATCH TO DRAWING C-3

MATCH TO DRAWING C-5



NOTES

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14. INSTALL NEW WATER SERVICE

MATCH LINE

MATCH TO DRAWING C-15

OTTER CREEK ENGINEERING

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STAMP AND SIGNATURE:

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DESIGN ENGINEER

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GRID NORTH

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

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2 ARCHAEOLOGY COMMENTS 5-10-2022 HB	
DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002

TITLE: SITE PLAN

DRAWING NO.

C-4

MATCH LINE

MATCH TO DRAWING C-14

MATCH TO DRAWING C-4

MATCH TO DRAWING C-6

NOTES

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14. INSTALL NEW WATER SERVICE

MARLE HILL LANE (PAVED)

2" WATER SERVICE

1" or 1 1/4"

CONNECT TO EXISTING. PROVIDE FITTINGS AS NECESSARY.

CONTRACTOR TO PERFORM EXPLORATORY EXCAVATION TO CONFIRM THE PRESENCE OF CONTAMINATED EARTHWORK (FORMER GAS STATION)

VERMONT ROUTE 30 (PAVED)

ASA 14 1B-A

ASA 15 1B-A

ASA 16 1B-B

ASA 17

FOX LANE (GRAVEL)

2" X 1" REDUCER (TYP.)

2" X 2" TEE

FLUSHING HYDRANT

2" WATER SERVICE

INSTALL 4" GATE VALVE

PROVIDE CORPORATION STOP DURING SHUTDOWN FOR INTERCONNECTION OF NEW VALVE AND PIPE

MILL AND OVERLAY ROUTE 30 TOP COURSE PAVEMENT

OPTION 1: NEW SERVICE AND REWORK INTERIOR BUILDING PLUMBING

OPTION 2: DIRECTIONAL DRILL SERVICE

LIMIT OF DIRECTIONAL DRILL

RECEIVING PIT (TYP.)

CONNECT TO EXISTING WATER SERVICE. PROVIDE FITTINGS AS NECESSARY.

LIMIT OF DIRECTIONAL DRILL (TYP.)

RECEIVING PIT (TYP.)

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

GRID NORTH

MATCH LINE

OTTER CREEK ENGINEERING

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E-mail: info@ottercrk.com

STAMP AND SIGNATURE:

STATE OF VERMONT ROBERT M. CASEY 10,000 LICENSED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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OTTER CREEK ENGINEERING, INC.

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

DATE ISSUED:	2/1/2022
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1	ARCHAEOLOGY COMMENTS 4-22-2022 HB
2	ARCHAEOLOGY COMMENTS 5-10-2022 HB
DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002

TITLE: SITE PLAN

DRAWING NO.

C-5

MATCH TO DRAWING C-5

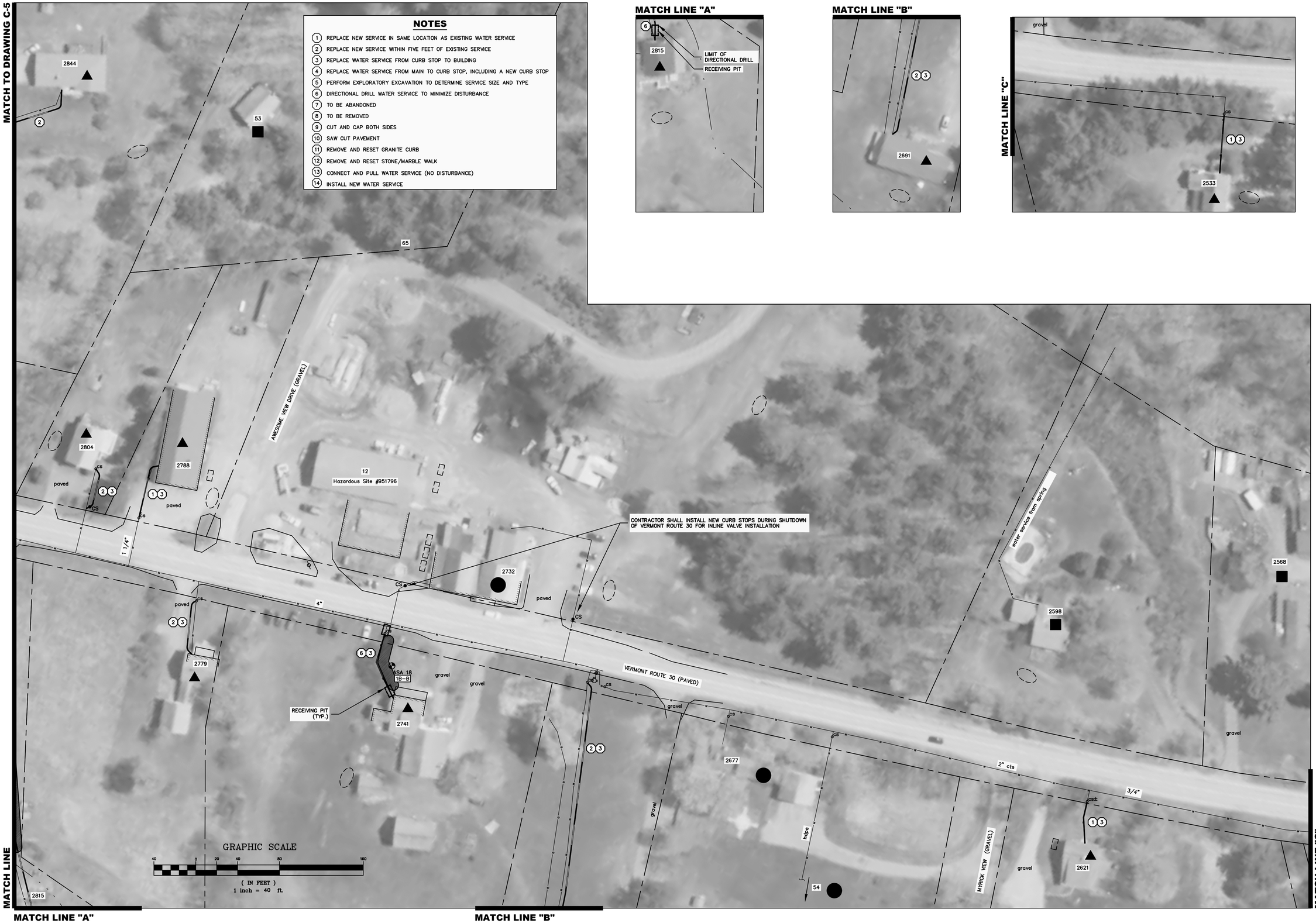
NOTES

1. REPLACE NEW SERVICE IN SAME LOCATION AS EXISTING WATER SERVICE
2. REPLACE NEW SERVICE WITHIN FIVE FEET OF EXISTING SERVICE
3. REPLACE WATER SERVICE FROM CURB STOP TO BUILDING
4. REPLACE WATER SERVICE FROM MAIN TO CURB STOP, INCLUDING A NEW CURB STOP
5. PERFORM EXPLORATORY EXCAVATION TO DETERMINE SERVICE SIZE AND TYPE
6. DIRECTIONAL DRILL WATER SERVICE TO MINIMIZE DISTURBANCE
7. TO BE ABANDONED
8. TO BE REMOVED
9. CUT AND CAP BOTH SIDES
10. SAW CUT PAVEMENT
11. REMOVE AND RESET GRANITE CURB
12. REMOVE AND RESET STONE/MARBLE WALK
13. CONNECT AND PULL WATER SERVICE (NO DISTURBANCE)
14. INSTALL NEW WATER SERVICE

MATCH LINE "A"

MATCH LINE "B"

MATCH LINE "C"



MATCH LINE "A"

MATCH LINE "B"

MATCH LINE "C"

OTTER CREEK ENGINEERING

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E-mail: info@ottercrk.com

STAMP AND SIGNATURE:

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CADD FILE:	407-002
TITLE:	SITE PLAN
DRAWING NO.	C-6

MATCH LINE

MATCH TO DRAWING C-3

MATCH TO DRAWING C-15

NOTES

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14. INSTALL NEW WATER SERVICE



MATCH LINE

MATCH TO DRAWING C-8

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DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

DATE ISSUED:	2/1/2022

REVISIONS:

1. ARCHAEOLOGY 03-09-2022 RR
2. ARCHAEOLOGY COMMENTS 4-22-2022 HB
3. ARCHAEOLOGY COMMENTS 5-10-2022 HB

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SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002

TITLE: SITE PLAN

DRAWING NO.

C-7

MATCH LINE

MATCH TO DRAWING C-7

MATCH TO DRAWING C-16



NOTES

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14. INSTALL NEW WATER SERVICE

MATCH LINE

MATCH TO DRAWING C-9

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CADD FILE:	407-002

TITLE: SITE PLAN

DRAWING NO.

C-8

MATCH LINE

MATCH TO DRAWING C-8

NOTES

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13. CONNECT AND PULL WATER SERVICE (NO DISTURBANCE)
14. INSTALL NEW WATER SERVICE

PRENTIS POND

paved over

gravel

412

CHURCH STREET (PAVED)

paved

442

gravel

cu

6"

517

gravel

2918

CONNECT TO EXISTING SERVICE BETWEEN STONE PATIO AND EDGE OF PAVEMENT

RECEIVING PIT

2" WATER SERVICE

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

MATCH LINE

MATCH TO DRAWING C-10

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SCALE:	1"=40'
PROJECT NO.:	407.002
CADD FILE:	407-002
TITLE:	SITE PLAN
DRAWING NO.	C-9

MATCH LINE

MATCH TO DRAWING C-9

MATCH TO DRAWING C-11



NOTES

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14. INSTALL NEW WATER SERVICE

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

MATCH LINE

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TITLE: SITE PLAN

DRAWING NO.

C-10

MATCH TO DRAWING C-10

NOTES

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14. INSTALL NEW WATER SERVICE

2746
2868
2804
2773
2733
2915
2717

RECEIVING PIT (TYP.)
LIMIT OF DIRECTIONAL DRILL (TYP.)
ASA 30 1B-A
4" WATER MAIN (REFER TO DRAWING C-17 FOR PROFILE)
FLUSHING HYDRANT
4" CAP
DORSET WEST ROAD (PAVED)
4" GATE VALVE
CONNECT TO EXISTING 4" WATER MAIN. PROVIDE FITTINGS AS NECESSARY.
ASA 40 1B-A
paved
gravel
gravel
4"

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MATCH LINE

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TITLE: SITE PLAN

DRAWING NO.

C-11

NOTES

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13. CONNECT AND PULL WATER SERVICE (NO DISTURBANCE)
14. INSTALL NEW WATER SERVICE

MATCH TO DRAWING C-13

284
241
349
242
227
176
163
161
158
gravel
DORSET HOLLOW ROAD (PAVED)
FLUSHING HYDRANT
9
10
2
6
ASA 41
1B-A
paved
KENT HILL ROAD (PAVED)
LIMIT OF DIRECTIONAL DRILL (TYP.)
RECEIVING PIT (TYP.)

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MATCH LINE
MATCH TO DRAWING C-3
MATCH LINE

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TITLE: SITE PLAN

DRAWING NO.

C-12

MATCH TO DRAWING C-12

MATCH TO DRAWING C-14



NOTES

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MATCH LINE

MATCH LINE

MATCH TO DRAWING C-4

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GRID NORTH

DORSET FIRE DISTRICT NO. 1
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TITLE: SITE PLAN

DRAWING NO.

C-13

MATCH TO DRAWING C-13

NOTES

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12. REMOVE AND RESET STONE/MARBLE WALK

211

209

191

paved

117

163

207

gravel

MAPLE HILL LANE (PAVED)

2

7

2

FLUSHING HYDRANT

CS

CS

CS

2" X 1" REDUCER (TYP.)

2" X 2" TEE

paved

2" WATER SERVICE

2846

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

MATCH LINE

MATCH LINE

MATCH TO DRAWING C-5

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TITLE: SITE PLAN

DRAWING NO.

C-14

MATCH LINE

MATCH TO DRAWING C-4

MATCH TO DRAWING C-7



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MATCH LINE

MATCH TO DRAWING C-16

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ROBERT M. CASEY
01/07/2005
LICENSED
PROFESSIONAL ENGINEER

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TITLE: SITE PLAN

DRAWING NO.

C-15

MATCH LINE

MATCH TO DRAWING C-15

MATCH TO DRAWING C-8

4" WATER MAIN (REFER TO DRAWING C-17 FOR PROFILE)

4" X 4" TEE AND 4" GATE VALVE

CONNECT TO EXISTING WATER MAIN. PROVIDE FITTINGS AS NECESSARY. (TYP.)

PLAYHOUSE LANE (GRAVEL)

CONNECT TO EXISTING WATER MAIN. PROVIDE FITTINGS AS NECESSARY. (TYP.)

4" X 4" TEE

4" GATE VALVE (NORMALLY OPEN)

4" GATE VALVE (NORMALLY CLOSED)

CHENEY ROAD (PAVED)

MEADOW LANE (PAVED)

MARSH LANE

2" WATER SERVICE

2" X 1" REDUCER (TYP.)

FLUSHING HYDRANT

2" X 2" TEE

4" fire

House removed 2020

ASA 47

32' easement

4" WATER MAIN (REFER TO DRAWING C-17 FOR PROFILE)

edge of leased land

HYDRANT (REFER TO DETAIL)

METER SOCKET AND ELECTRICAL PANEL BOX

gravel well (well no. 2)

4" CAP

1B TESTING OF LOT ASA 47

4" GATE VALVE (TYP.–NORMALLY CLOSED)

100' wetland buffer

drilled bedrock well (well no. 1)

MATCH LINE "A"

MATCH LINE "A"

MATCH LINE

EMERGENCY WATER SUPPLY CONNECTION NOTES:

1. PERMANENT POWER SUPPLY TO BE COORDINATED WITH GREEN MOUNTAIN POWER.
2. CONTRACTOR TO MOUNT ELECTRIC SERVICE DISCONNECTS ON LOCATION SHOWN.
3. CONTRACTOR TO SUPPLY WELL PUMPS AND CONNECT WELLS AS EMERGENCY SOURCES TO SYSTEM WITH AIR GAP (CAPPED 4" MAINS WITH HYDRANTS FOR TEMPORARY EMERGENCY CONNECTION).

NOTES

1. REPLACE NEW SERVICE IN SAME LOCATION AS EXISTING WATER SERVICE
2. REPLACE NEW SERVICE WITHIN FIVE FEET OF EXISTING SERVICE
3. REPLACE WATER SERVICE FROM CURB STOP TO BUILDING
4. REPLACE WATER SERVICE FROM MAIN TO CURB STOP, INCLUDING A NEW CURB STOP
5. PERFORM EXPLORATORY EXCAVATION TO DETERMINE SERVICE SIZE AND TYPE
6. DIRECTIONAL DRILL WATER SERVICE TO MINIMIZE DISTURBANCE
7. TO BE ABANDONED
8. TO BE REMOVED
9. CUT AND CAP BOTH SIDES
10. SAW CUT PAVEMENT
11. REMOVE AND RESET GRANITE CURB
12. REMOVE AND RESET STONE/MARBLE WALK

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)

1 inch = 40 ft.

GRID NORTH

OTTER CREEK ENGINEERING

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STAMP AND SIGNATURE:

STATE OF VERMONT · ROBERT M. CLOUGH · 11 DOUGLAS 2019 · LICENSED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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DORSET, VERMONT

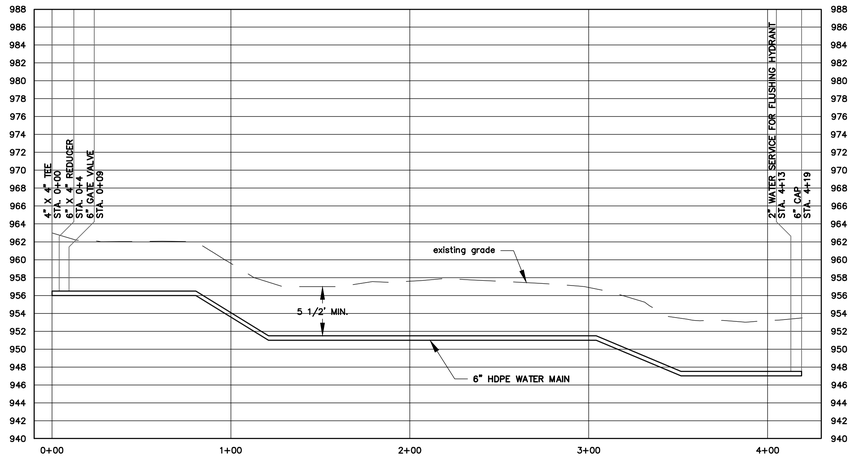
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PROJECT NO.:	407.002
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TITLE: SITE PLAN

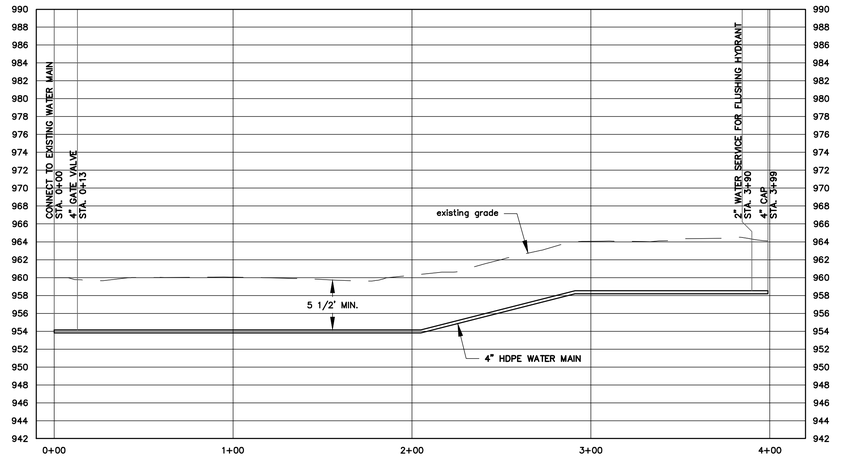
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C-16



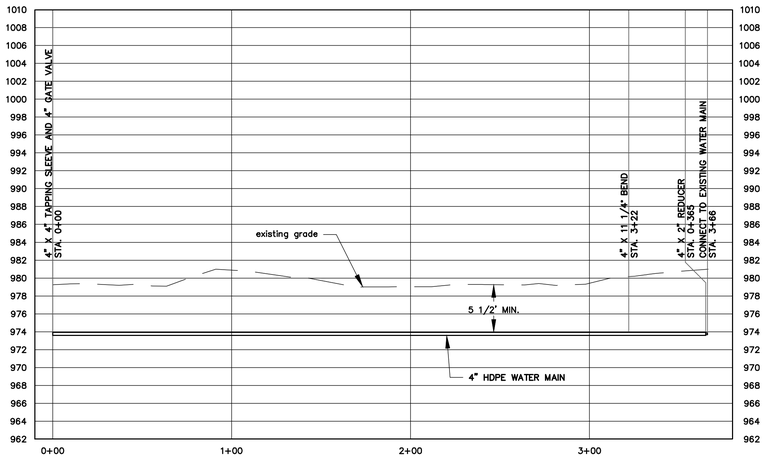
2918 DORSET WEST ROAD WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL



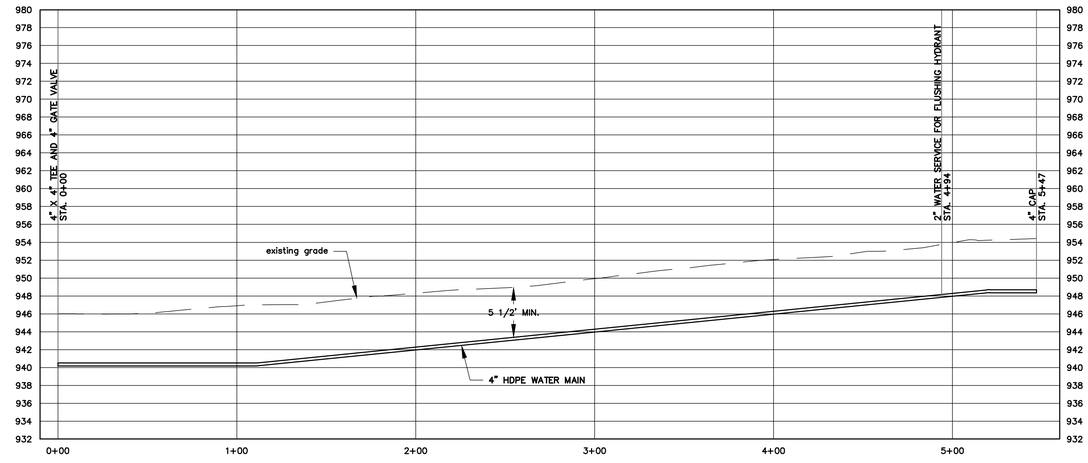
DORSET WEST ROAD WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL



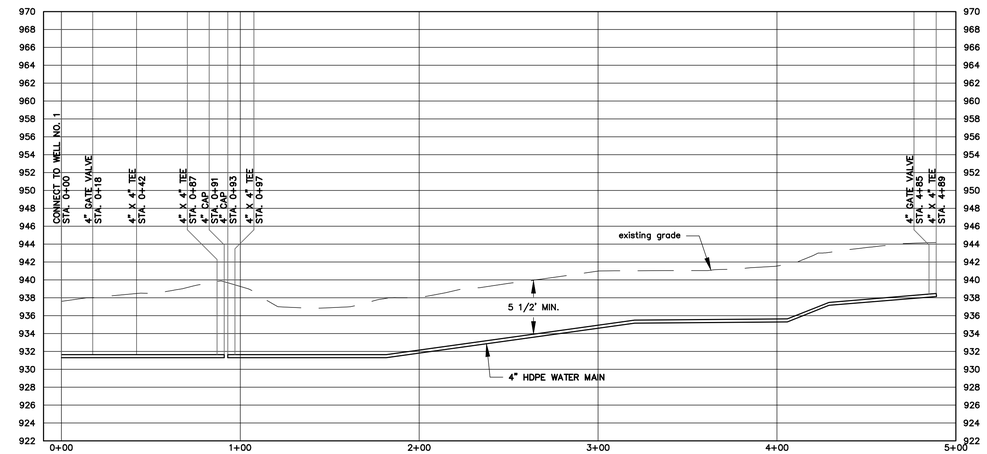
BARROWS HEIGHTS WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL



PLAYHOUSE LANE WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL



WELL CONNECTION WATER MAIN PROFILE

SCALE: 1"=40' HORIZONTAL
1"=8' VERTICAL

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ROBERT M. CASEY
11009
LICENSED
PROFESSIONAL ENGINEER

DESIGN ENGINEER

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C-17

SAFETY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL WORK SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE, INJURY OR LOSS TO:

   A. ALL EMPLOYEES ON THE WORK SITE AND OTHER PERSONS WHO MAY BE AFFECTED.

   B. THE WORK SITE AND ALL THE MATERIALS AND EQUIPMENT TO BE INCORPORATED WHETHER IN STORAGE ON OR OFF THE SITE.

   C. OTHER PROPERTY AT THE SITE OR ADJACENT, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.

2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS (INCLUDING O.S.H.A. REGULATIONS) OF ANY PUBLIC BODY HAVING JURISDICTION OVER THE SAFETY OF PERSONS OR PROPERTY.

3. THE CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILITIES WHEN EXECUTION OF THE WORK WILL AFFECT THEM.

4. THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED.

5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. IF PIPELINE DAMAGES OCCUR WHICH RESULTS IN A GAS RELEASE, CONTRACTOR IS REQUIRED BY LAW TO CALL 911.

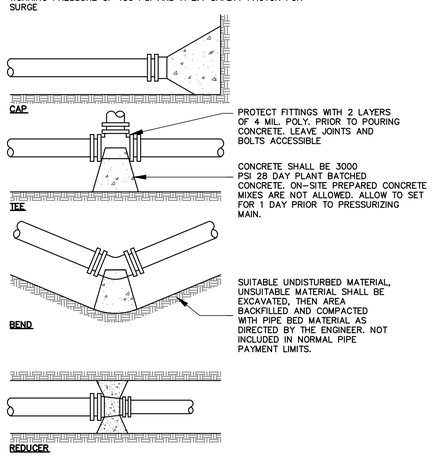
6. CONTRACTOR SHALL COORDINATE WITH DIG-SAFE (888)-344-7233 OR WWW.DIGSAFE.COM A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

7. AT THE CLOSE OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL OR ADEQUATELY BARRICADE ALL OPEN TRENCHES.

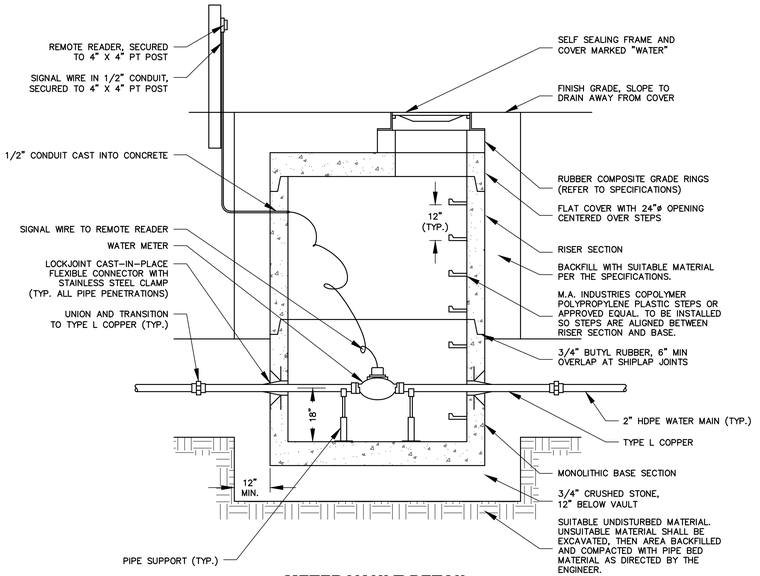
AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS
(IN SQUARE FEET)

PIPE SIZE (INCHES)	SOFT WET CLAY, SAND OR SILT (1000 PSF)	DRY SAND (3000 PSF)	COMPACT SAND, COARSE GRAVEL OR HARDPAN (5000 PSF)
HORIZONTAL CAP OR TEE			
8 OR LESS	20 SF	7 SF	4 SF
HORIZONTAL 90° BEND			
8 OR LESS	27 SF	9 SF	6 SF
HORIZONTAL 45° BEND			
8 OR LESS	15 SF	5 SF	3 SF
HORIZONTAL 22 1/2° BEND OR LESS			
8 OR LESS	8	3	2
REDUCER			
8 X 6	8 SF	7 SF	3 SF

NOTE: BEARING SURFACE AREAS CALCULATED ASSUMING A MAXIMUM WORKING PRESSURE OF 150 PSI AND A 2:1 SAFETY FACTOR FOR SURGE



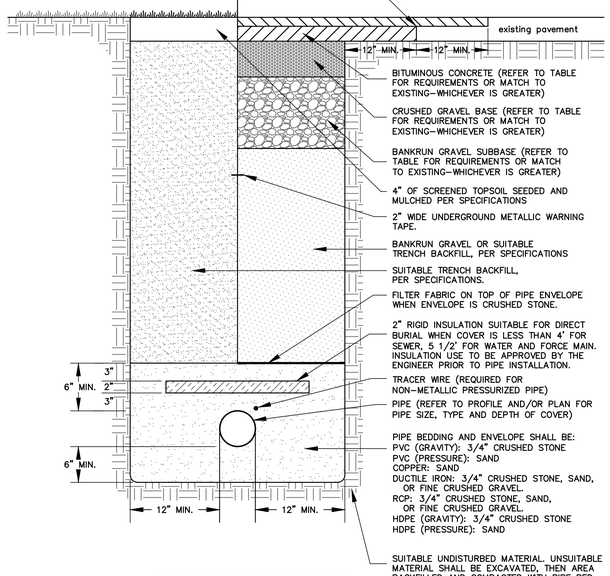
THRUST BLOCK DETAIL
NOT TO SCALE



METER VAULT DETAIL
NOT TO SCALE

NOTES:
1. MANHOLE SHALL BE 4000 PSI, STEEL REINFORCED, H-20 RATED PRECAST 4'ø MANHOLE AS MANUFACTURED BY CAMP PRECAST OR APPROVED EQUAL.

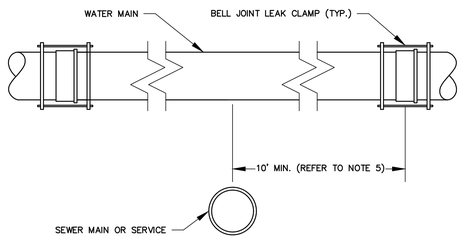
2. ALL PIPING WITHIN METER VAULTS SHALL BE INSTALLED LEVEL.



PIPE IN TRENCH DETAIL
NOT TO SCALE

TRENCH RESTORATION TABLE

LOCATION	BITUMINOUS PAVEMENT (THICKNESS/TYPE)	CRUSHED GRAVEL BASE	BANKRUN SUBBASE
STATE VTRANS	TOP: 1.5"/TYPE 3 (1/2") BASE: 2.5"/TYPE 2 (3/4")	6"	18"
TOWN ROADS	TOP: 1.5"/TYPE 4 (3/8") BASE: 2.5"/TYPE 2 (3/4")	6"	12"
PRIVATE/DRIVE	TOP: 1.5"/TYPE 4 (3/8") BASE: 2.5"/TYPE 2 (3/4")	12"	0"



WATER / SEWER CROSSING DETAIL
NOT TO SCALE

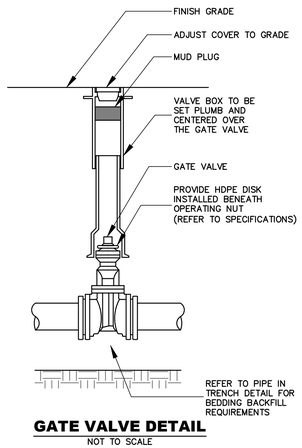
1. WATER MAINS CROSSING OVER SEWER MAINS OR SERVICES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES.

2. WATER AND SEWER PIPE JOINTS SHALL BE LOCATED AS FAR APART AS POSSIBLE.

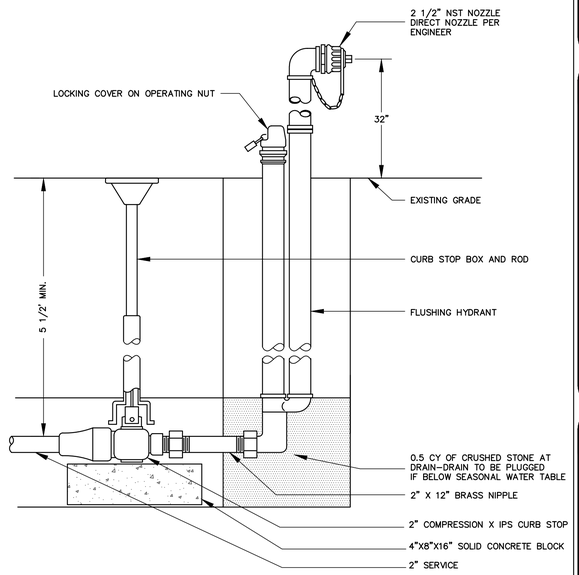
3. PROVIDE STRUCTURAL SUPPORT FOR EXPOSED WATER AND SEWER PIPES.

4. FOR PARALLEL INSTALLATION, THERE SHALL BE A HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER MAINS AND SANITARY SEWER, AND A SEPARATION OF 5 FT BETWEEN WATER MAINS AND STORM SEWERS.

5. IN THE EVENT 18 INCHES OF VERTICAL CLEARANCE (WATER OVER SEWER) OR 10' OF HORIZONTAL SEPARATION CANNOT BE ACHIEVED OR IN ALL CASES WHERE SEWER IS OVER WATER (REGARDLESS OF VERTICAL SEPARATION), CONTRACTOR SHALL INSTALL BELL JOINT LEAK CLAMPS, AT EACH WATER MAIN BELL JOINT. REFER TO SPECIFICATIONS.



GATE VALVE DETAIL
NOT TO SCALE

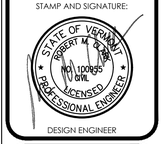


FLUSHING HYDRANT DETAIL
NOT TO SCALE

OTTER CREEK ENGINEERING

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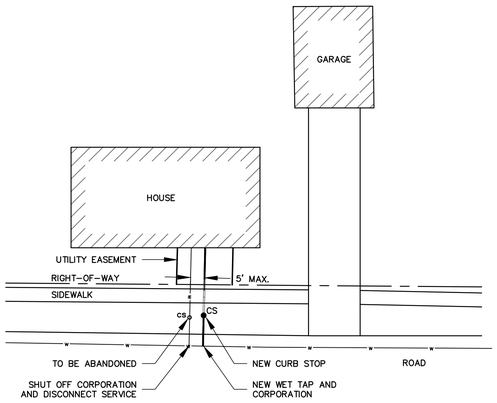
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PROJECT NO.:	407.002
CADD FILE:	407-002 Details

TITLE: NOTES AND DETAILS

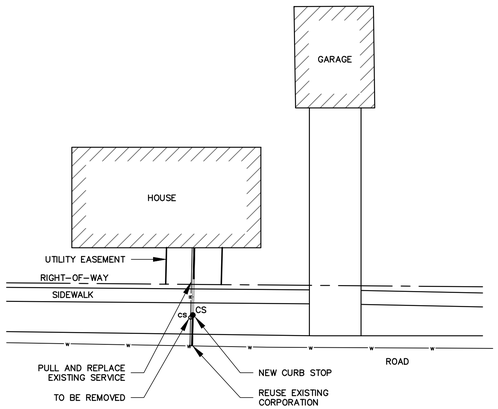
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C-18



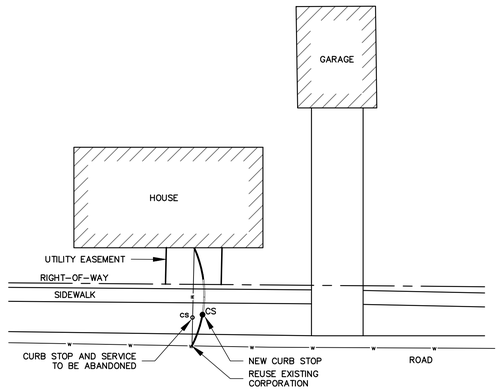
WATER SERVICE SCENARIO "A"

NOT TO SCALE



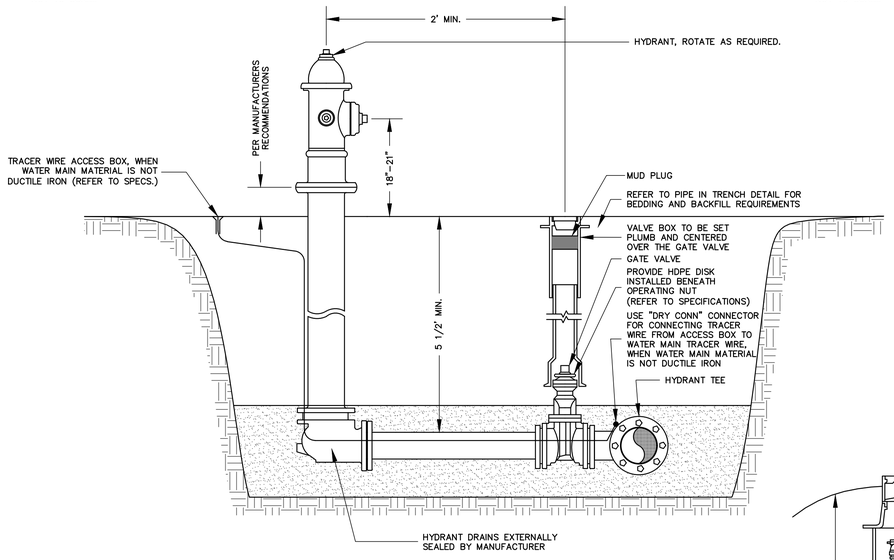
WATER SERVICE SCENARIO "B"

NOT TO SCALE



WATER SERVICE SCENARIO "C"

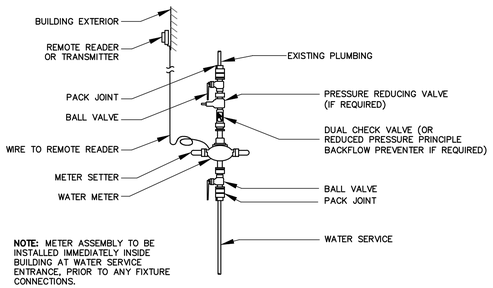
NOT TO SCALE



NOTE:
1. ALL MECHANICAL JOINT FITTINGS SHALL HAVE RESTRAINED RETAINER GLANDS.

HYDRANT ASSEMBLY DETAIL

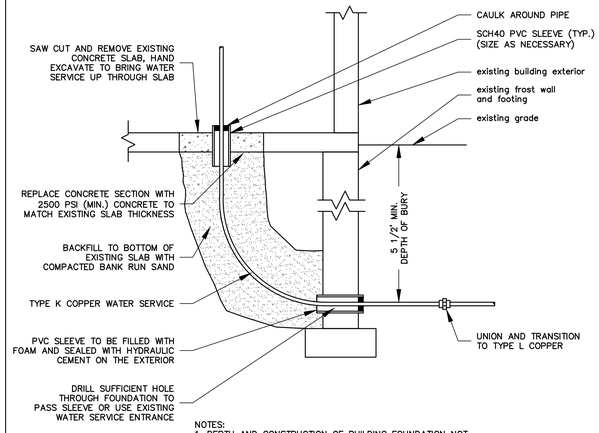
NOT TO SCALE



NOTE: METER ASSEMBLY TO BE INSTALLED IMMEDIATELY INSIDE BUILDING AT WATER SERVICE ENTRANCE, PRIOR TO ANY FIXTURE CONNECTIONS.

METER ASSEMBLY DETAIL

NOT TO SCALE

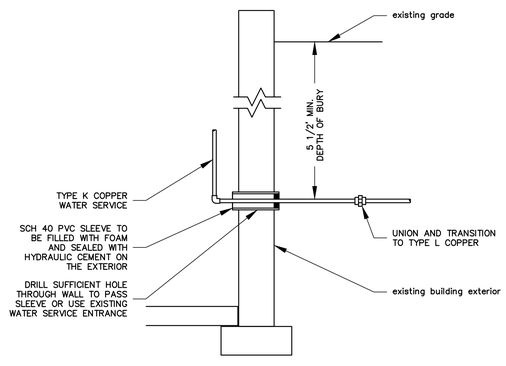


NOTES:
1. DEPTH AND CONSTRUCTION OF BUILDING FOUNDATION NOT FIELD VERIFIED. CONTRACTOR TO FIELD VERIFY PRIOR TO THE START OF WORK. WATER PIPE INSTALLATION MAY REQUIRE CORING THROUGH FOUNDATION.

2. IF INSTALLATION REQUIRES GOING UNDER FOOTING, WATER SERVICE PIPING TO BE PUSHED OR "MOLED" BENEATH FOOTING.

FOUNDATION SERVICE ENTRANCE DETAIL

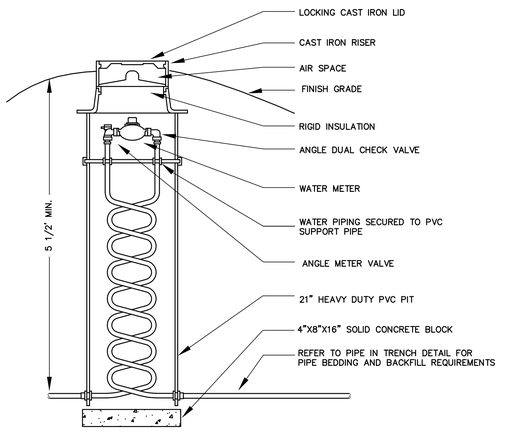
NOT TO SCALE



NOTES:
1. IF INSTALLATION REQUIRES GOING UNDER FOOTING, WATER SERVICE PIPING TO BE PUSHED OR "MOLED" BENEATH FOOTING.

WALL SERVICE ENTRANCE DETAIL

NOT TO SCALE



NOTES:
1. METER PITS SHALL BE SET AS FOLLOWS:
   A. WHEN IN PAVED OR CONCRETE SURFACE THE METER PIT SHALL BE INSTALLED FLUSH TO FINISH GRADE.
   B. WHEN IN GRAVEL SURFACE, THE METER PIT SHALL BE BURIED 2".
   C. WHEN IN A LAWN OR OTHER MOWED AREA, METER PIT SHALL BE INSTALLED 1/2" ABOVE FINISH GRADE.
   D. WHEN IN A FIELD OR WOODS, THE METER PIT SHALL BE INSTALLED 2" ABOVE FINISH GRADE AND MARKED WITH A STEEL FENCE POST.

2. WHEN SERVICE IS BEING INSTALLED AT A DEPTH LESS THAN 5 1/2 FEET IT SHALL BE INSULATED AS SHOWN ON THE PIPE IN TRENCH DETAIL.

3. METER PITS, METERS AND FITTINGS SHALL COMPLY WITH THE MUNICIPALITIES STANDARDS.

4. METER PIT IS TO REST ON A CONCRETE BLOCK.

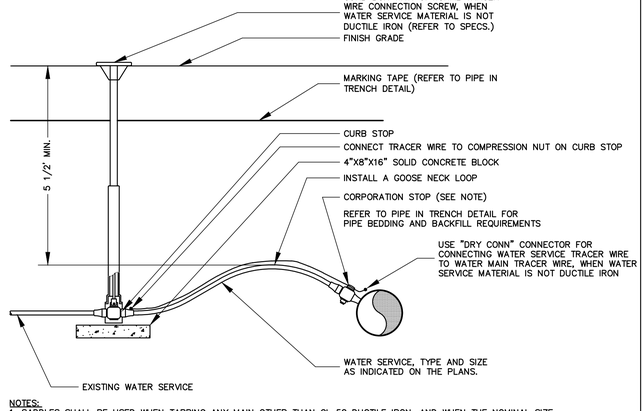
5. METER PIT SHALL BE SET PLUMB AND CENTERED ON THE METER.

6. METER PIT SHALL BE LOCATED AT THE RIGHT OF WAY, OR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MINIMUM OF THREE SWING TIES TO THE METER PIT

WATER METER PIT DETAIL

NOT TO SCALE



NOTES:
1. SADDLES SHALL BE USED WHEN TAPPING ANY MAIN OTHER THAN CL 52 DUCTILE IRON, AND WHEN THE NOMINAL SIZE ON THE CORPORATION IS GREATER THAN 1/5 THE NOMINAL DIAMETER OF THE MAIN.

2. CURB BOXES SHALL BE SET AS FOLLOWS:
   A. WHEN IN PAVED OR CONCRETE SURFACE, THE CURB BOX SHALL BE INSTALLED FLUSH TO FINISH GRADE.
   B. WHEN IN GRAVEL SURFACE, THE CURB BOX SHALL BE BURIED 2".
   C. WHEN IN A LAWN OR OTHER MOWED AREA, CURB BOX SHALL BE INSTALLED 1/2" ABOVE FINISH GRADE.
   D. WHEN IN A FIELD OR WOODS, THE CURB STOP SHALL BE INSTALLED 1/2" ABOVE FINISH GRADE AND MARKED WITH A STEEL FENCE POST.

3. WHEN SERVICE IS BEING INSTALLED AT A DEPTH LESS THAN 5 1/2 FEET, IT SHALL BE INSULATED AS SHOWN ON THE PIPE IN TRENCH DETAIL.

4. CORPORATIONS, CURB STOPS AND CURB BOXES SHALL COMPLY WITH THE MUNICIPALITY'S STANDARDS.

5. CURB STOP AND CURB BOX SHALL REST ON THE CONCRETE BLOCK.

6. CURB BOX SHALL BE SET PLUMB AND CENTERED ON THE CURB STOP.

7. CURB BOX SHALL BE LOCATED AT THE RIGHT OF WAY, OR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

8. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MINIMUM OF THREE SWING TIES FOR EACH OF THE FOLLOWNG: CORPORATION, CURB STOP, END OF SERVICE AND ANY OTHER FITTINGS OR BENDS INCORPORATED INTO THE SERVICE.

9. WHEN A SERVICE IS NOT GOING TO BE CONNECTED TO THE CURB STOP BY THE CONTRACTOR, AS DIRECTED BY ENGINEER INSTALL A STUB PIECE OUT OF THE CURB STOP. IF THE STUB PIECE IS LESS THAN 1 FOOT, THE CONTRACTOR SHALL CRIMP THE END TO PREVENT DIRT FROM ENTERING THE CURB STOP. IF THE STUB PIECE IS TO BE GREATER THAN 1 FOOT, THEN THE CONTRACTOR SHALL INSTALL A COMPRESSION STYLE CAP AT THE END OF THE SERVICE.

WATER SERVICE DETAIL

NOT TO SCALE

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STAMP AND SIGNATURE:

STATE OF VERMONT ROBERT M. CLARK 10012695 CIVIL LICENSED PROFESSIONAL ENGINEER

DESIGN ENGINEER

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DORSET FIRE DISTRICT NO. 1

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DORSET, VERMONT

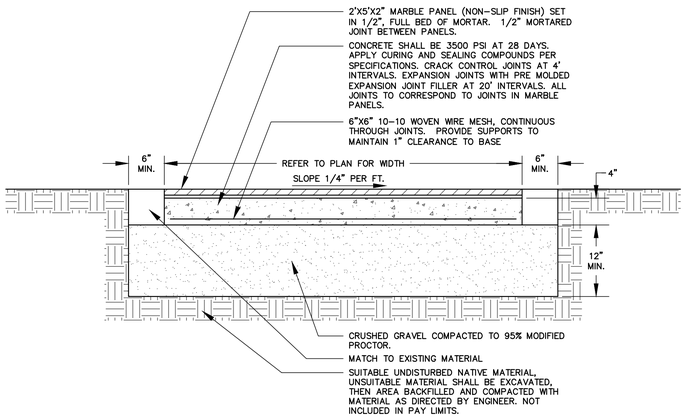
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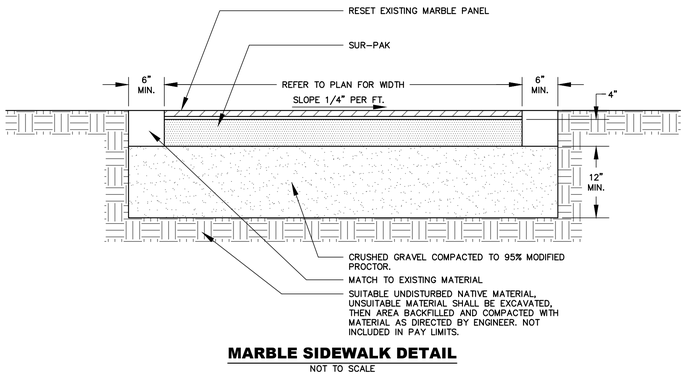
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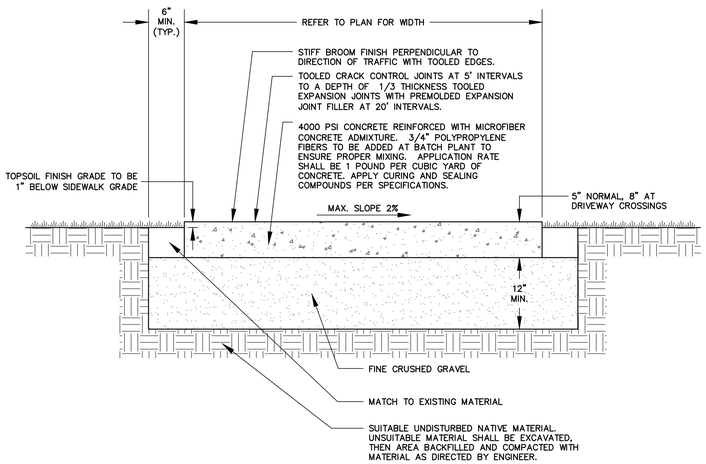
MARBLE TOPPED REINFORCED CONCRETE SIDEWALK DETAIL

NOT TO SCALE



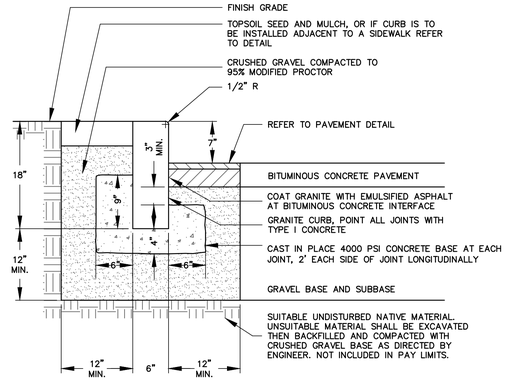
MARBLE SIDEWALK DETAIL

NOT TO SCALE



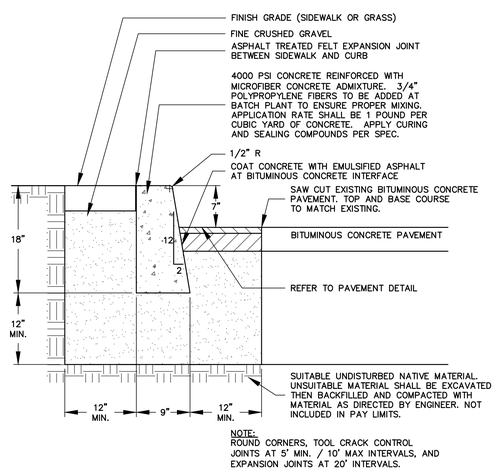
CONCRETE SIDEWALK DETAIL

NOT TO SCALE



VERTICAL GRANITE CURB DETAIL

NOT TO SCALE



NOTE:
ROUND CORNERS, TOOL CRACK CONTROL JOINTS AT 5' MIN. / 10' MAX INTERVALS, AND EXPANSION JOINTS AT 20' INTERVALS.

CONCRETE CURB DETAIL

NOT TO SCALE

EROSION CONTROL NOTES

1. THE PROJECT IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE STATE OF VERMONT'S CONSTRUCTION GENERAL PERMIT (3-9020).

2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF VERMONT WATER QUALITY STANDARDS. ANY FINES ASSESSED BY REGULATORY AGENCIES FOR THE NONCOMPLIANCE WITH STATE WATER QUALITY STANDARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PERSONNEL REQUIRED TO INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) FOR THIS PROJECT.

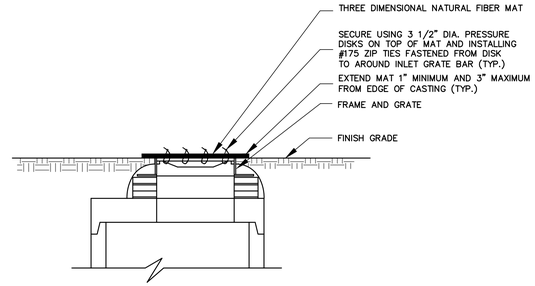
3. THE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS DO NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE, EVALUATE AND CONSIDER ALTERNATIVES AND TO PROPOSE APPROPRIATE RECOMMENDATIONS IN ORDER TO LIMIT POTENTIAL WATER QUALITY IMPACTS.

4. EROSION CONTROL MEASURES SHALL BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED AFTER PROJECT AREA AND DRAINAGE COURSES ARE FULLY ESTABLISHED AND STABLE.

5. ALL DISTURBED AREAS NOT UNDER ACTIVE CONSTRUCTION SHALL BE STABILIZED BY ROUGH GRADING TO MINIMIZE SLOPES AND MULCHED. FOLLOWING FINAL GRADING OF ANY PORTION OF THE SITE, CONTRACTOR SHALL LOAM, SEED AND MULCH WITHIN ONE WEEK.

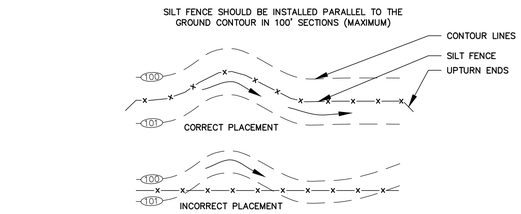
6. REFER TO CONTRACT SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

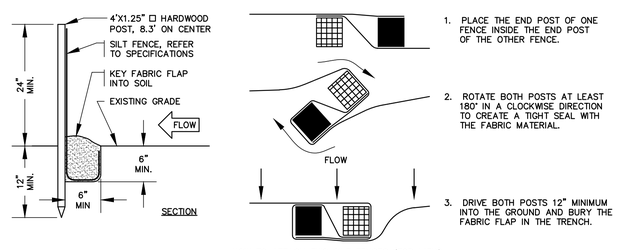
7. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL CATCH BASINS WITHIN 100 FEET DOWN GRADIENT OF THE ACTIVELY WORKED CONSTRUCTION AREA. INLET PROTECTION BEST MANAGEMENT PRACTICES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



TEMPORARY CATCH BASIN INLET FILTER DETAIL

NOT TO SCALE





HOW TO ATTACH TWO SILT FENCES (TOP VIEW)

NOTES:
1. SILT FENCE SHALL BE INSTALLED AT THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SILT FENCE DETAIL

NOT TO SCALE

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DESIGN ENGINEER

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OTTER CREEK ENGINEERING, INC.

DORSET FIRE DISTRICT NO. 1
SERVICE LINE REPLACEMENT
DORSET, VERMONT

BID

DATE ISSUED:	2/1/2022
REVISIONS:	
DRAWN BY:	HB
CHECKED BY:	RC
SCALE:	SHOWN
PROJECT NO.:	407.002
CADD FILE:	407-002 Details

TITLE: NOTES AND DETAILS

DRAWING NO.

C-20