

# CITY OF QUINCY, MASSACHUSETTS

## DEPARTMENT OF PUBLIC WORKS

# ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS

THE HONORABLE THOMAS P. KOCH, MAYOR  
DEPARTMENT OF PUBLIC WORKS

DANIEL RAYMONDI, COMMISSIONER  
LARRY PRENDEVILLE, SUPERINTENDENT

SHAWN HARDY, CITY ENGINEER

AUGUST 2012



LOCUS MAP  
SCALE: 1"=2000'

### DRAWING INDEX

SHEET	TITLE
G-1	ABBREVIATIONS, NOTES AND LEGEND
C-1	ADAMS STREET
C-2	ADAMS STREET
C-3	ADAMS STREET
C-4	ADAMS STREET
C-5	ADAMS STREET
C-6	ADAMS STREET
C-7	ALBATROSS ROAD
D-1	DETAILS I
D-2	DETAILS II
D-3	CONSTRUCTION ZONE SAFETY PLAN I
D-4	CONSTRUCTION ZONE SAFETY PLAN II



**Weston&Sampson**

Five Centennial Drive, Peabody, Massachusetts 01960

**LEGEND**

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	—S—	—8" PVC—
FORCE MAIN	—FM—	—6" FM DI—
WATER MAIN	—W—	—6" W DI—
TEMPORARY WATER	—TW—	—4" W—
STORM DRAIN	—D—	—18" RCP—
GAS	—G—	—4" G—
ELECTRIC	—E—	—E—
TELEPHONE	—T—	—T—
GAS BY OTHERS	—G—	—G—
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP	⊙	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● SDMH
ELECTRICAL MANHOLE	⊙	● EMH
TELEPHONE MANHOLE	⊙	● TMH
AIR RELEASE VALVE MANHOLE	⊙	● ARMH
FORCE MAIN CLEANOUT MANHOLE	⊙	● FMCO
CLEANOUT	⊙	● CO
CATCH BASIN	□	■ CB
CATCH BASIN (CURB INLET)	□	■ CB
HYDRANT	⊙	⊙
TEMPORARY HYDRANT		⊙
GATE VALVE	⊙	⊙
CHECK VALVE	⊙	⊙
CURB STOP	⊙	⊙
BUTTERFLY VALVE	⊙	⊙
BALL VALVE	⊙	⊙
REDUCER	⊙	⊙
CAP OR PLUG	⊙	⊙
GAS GATE VALVE	⊙	⊙
UTILITY POLE	⊙	⊙
GUY POLE	⊙	⊙
LIGHT POST	⊙	⊙
TRAFFIC SIGNAL	⊙	⊙
EDGE OF PAVEMENT	—	—
EDGE OF UNPAVED ROAD	—	—
CURB	—	—
SIDEWALK	—	—
RAILROAD	—	—
STONE WALL	—	—
RETAINING WALL	—	—
FENCE	—	—
INDIVIDUAL DECIDUOUS TREE	⊙	⊙
INDIVIDUAL EVERGREEN TREE	⊙	⊙
TREE LINE	—	—
SURVEY MARKER	⊙	⊙
PROPERTY LINE	—	—
EASEMENT LINE	—	—
LIMIT OF WORK	—	—
APPROX. LIMIT OF REFUSE	—	—
SPOT ELEVATIONS	x 141.5	x 141.5
CONTOUR LINES	—56—	—56—
DEPRESSION CONTOUR LINES	—	—
HOUSE NUMBER	#35	#35
FLOOR ELEVATION	FL=56.7	FL=56.7
SILL ELEVATION	S=56.7	S=56.7
WETLAND	—	—
WETLAND FLAGS	—	—
RIP RAP	—	—
STATE HIGHWAY STATION	○	○
SURFACE MOUNTED DELINEATOR	△	△
GUARD POST	△	△
BOLLARD	○ B	○ B
SIGN	—	—
BENCH MARK	⊙	⊙
AUGER	⊙ A-1	⊙ A-1
PERCOLATION TEST	⊙ 1	⊙ PT-1
TEST PIT	⊙ 1	⊙ TP-1
BORING	⊙ B-10	⊙ B-11
PROBE	⊙ P-10	⊙ P-11
GROUNDWATER MONITORING WELL	⊙ WS-1	⊙ WS-1
GAS MONITORING WELL	⊙ GMW-10	⊙ GMW-10
GAS VENT	⊙ GV	⊙ GV
HAY BALES	—	—
ROCK OUTCROP	—	—
DRAINAGE DITCH / SWALE	—	—

**ABBREVIATIONS**

AC	ASBESTOS CEMENT PIPE
ACCP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CL	CENTERLINE
CL	CEMENT LINED IRON OR STEEL
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CS	CURB STOP
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
GR	GRANITE
HC	HOUSE CONNECTION
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HSE	HOUSE
HYD	FIRE HYDRANT
I	INVERT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LL	LEAD LINED
LP	LOW PRESSURE
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDPW	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL
MH	MANHOLE
MassDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MWRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER, SOUTH
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SVC	SERVICE
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
THK	THICK (NESS)
TYP	TYPICAL
UNK	UNKNOWN
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/O	WITHOUT
WI	WROUGHT IRON
WM	WATER MAIN

**CONSTRUCTION NOTES**

- THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN TO CLEAR EXISTING UTILITIES OR VERIFY EXISTING UTILITY LOCATION, SIZE AND TYPE.
- STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AS NECESSARY TO PERFORM THE WORK AND REPLACED TO A CONDITION AT LEAST EQUAL TO THAT BEFORE CONSTRUCTION BEGAN. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR WATER MAINS WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS AND TIE RODS MAY BE USED FOR 6-INCH AND 8-INCH PIPE WHERE JOINT RESTRAINT IS NOT FEASIBLE. FOR THRUST BLOCK DETAILS AND MINIMUM BLOCK BEARING AREAS, SEE DETAILS AND SPECIFICATIONS.
- UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED AT THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE AS SHOWN ON THE DRAWINGS. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER ABOVE THE UNIT PRICES OF THE BID ITEMS. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
- EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL THAT MAIN HAS PASSED PRESSURE TEST AND DISINFECTION REQUIREMENTS.
- EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE OWNER. WATER SERVICE SHALL NOT BE INTERRUPTED MORE THAN 4 HOURS WITHOUT PRIOR APPROVAL OF THE OWNER.
- AS APPROVED BY THE ENGINEER, HYDRANTS SHALL BE EITHER DISPOSED OF OR SALVAGED. SALVAGED HYDRANTS SHALL BE DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
- ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED BURLAP BAG.
- THE LOCATION OF PIPES, CAPS, REDUCERS, BENDS, AND OTHER FITTINGS AT POINTS OF CONNECTIONS TO EXISTING MAINS IS APPROXIMATE. CONTRACTOR SHALL DIG A TEST PIT AT EACH LOCATION TO DETERMINE THE DIAMETER AND MATERIAL OF THE EXISTING PIPE AND THE LOCATION OF THE TIE-IN POINT.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
- THE OWNER WILL, ON 48 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO THE VARIOUS SECTIONS OF THE WATER MAINS. HOWEVER, THE CONTRACTOR MAY OCCASIONALLY BE REQUIRED TO OPERATE VALVES IN ORDER TO OBTAIN SHUTDOWNS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY IN WRITING 24 HOURS IN ADVANCE ANY OCCUPANT THAT WILL BE WITHOUT WATER DUE TO A SHUTDOWN.
- THE EXISTING WATER AND SEWER SERVICE LOCATIONS SHOWN ON THE DRAWINGS ARE BASED ON RECORD INFORMATION AND WERE NOT FIELD SURVEYED. THE CONTRACTOR IS TO CONFIRM ALL WATER AND SEWER SERVICE LOCATIONS WITH THE OWNER IN THE FIELD.
- SOME WATER SERVICE CONNECTIONS MAY NOT BE SHOWN ON THE DRAWINGS. THE OWNER WILL MARK THE LOCATION OF SUCH CONNECTIONS, PROVIDED THE CONTRACTOR GIVES THE OWNER AT LEAST 48 HOURS ADVANCE NOTICE.
- EXISTING UTILITY AND PROPERTY LINE INFORMATION, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM THE CITY'S GIS. THE GIS WAS CREATED FROM DIGITIZING AERIAL PHOTOGRAMMETRY AND SUPPLEMENTAL FIELD AND UTILITY SURVEY THROUGH GPS.
- CONTRACTOR SHALL REMOVE AND STACK ALL GATE BOXES OF EXISTING GATE VALVES TO BE ABANDONED AT THE CITY OF QUINCY PUBLIC WORKS DEPARTMENT YARD UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- PROPOSED WATER MAINS SHALL BE INSTALLED IN THE SAME TRENCH AS THE EXISTING WATER MAINS, UNLESS OTHERWISE APPROVED BY THE ENGINEER OR SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE QUINCY CONSERVATION COMMISSION AT LEAST 48 HOURS IN ADVANCE OF THE DATE UPON WHICH WORK ACTIVITIES ARE TO PROCEED.

**Weston & Sampson**  
 Five Centennial Drive, Peabody, MA 01960  
 (978) 532-1900 (800) 5AMFSON  
 www.westonsampson.com

No.	Date	Dr. By	Chk. By	App. By	Description		
A		P	R	O	V	E	D

REGISTERED PROFESSIONAL ENGINEER  
 DATE: 8/14

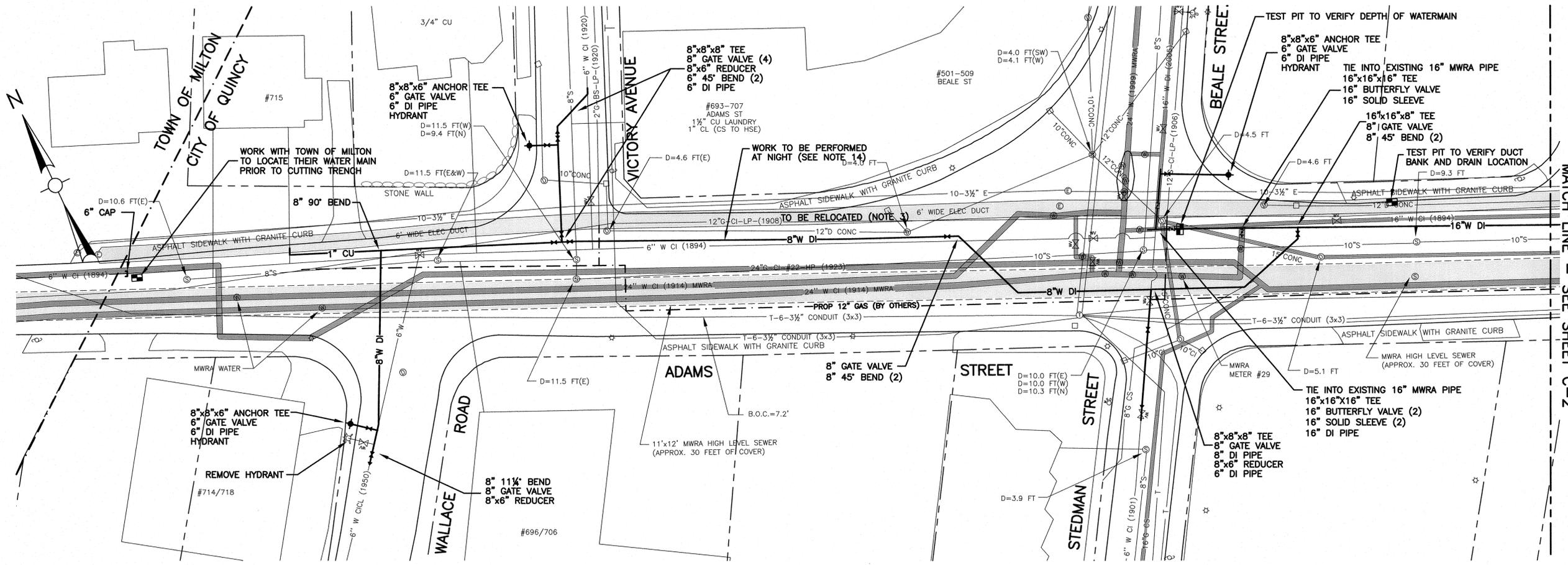


CITY OF QUINCY, MASSACHUSETTS  
 DEPARTMENT OF PUBLIC WORKS  
 ADAMS STREET AND ALBROSS ROAD WATER MAIN IMPROVEMENTS

**ABBREVIATIONS, NOTES AND LEGEND**

SCALE: G-1  
 CONTRACT: NOTED  
 JOB NO.: 2120266  
 DR. BY: RWS  
 DSN. BY: MDW  
 CHK. BY: BWA  
 APP. BY: LES  
 CAD. NO.: 194-43

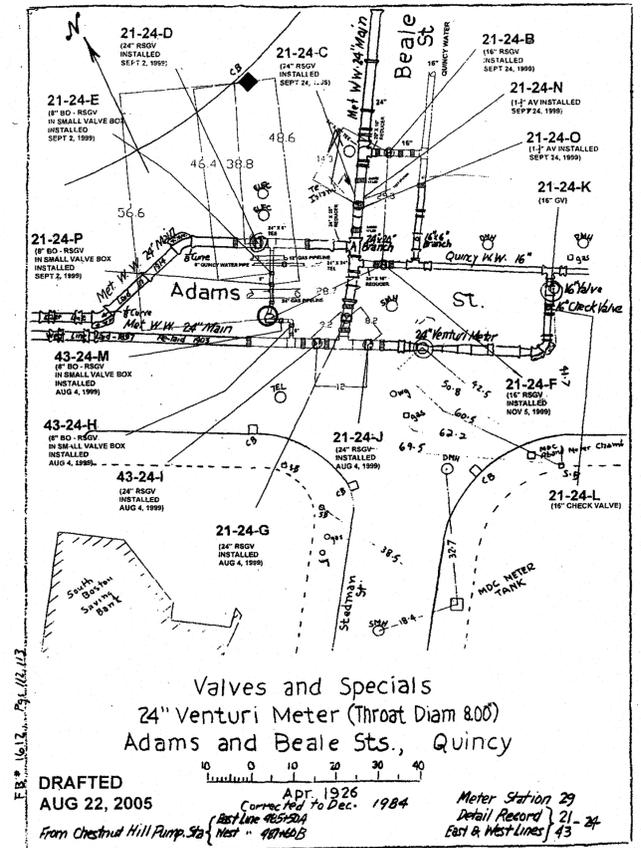
0:\quincy\MA\Adams St. & Albross Rd. Improv\CAD\DESIGN\G-1.dwg



**PLAN**  
SCALE: 1" = 20'  
20 10 0 20 40  
SCALE: 1" = 20'

**NOTES:**

1. WORK WITHIN DEPARTMENT OF CONSERVATION AND RECREATION (DCR) ROADWAY SHALL BE PERFORMED IN ACCORDANCE WITH DCR ROAD OPENING PERMIT. SEE SECTION 00890, PERMITS.
2. WORK WITHIN 100-YEAR FLOOD PLAIN AND 100-FOOT WETLAND BUFFER SHALL BE PERFORMED IN ACCORDANCE WITH QUINCY CONSERVATION COMMISSION REQUIREMENTS. SEE SECTION 00890, PERMITS.
3. GAS COMPANY IS SCHEDULED TO RELOCATE EXISTING 12-INCH GAS MAIN PRIOR TO THE INSTALLATION OF NEW WATER MAIN. NEW LOCATION IS SHOWN ON PLANS (PROPOSED). CONTRACTOR TO REMOVE ABANDONED 12" GAS MAIN AS NECESSARY TO INSTALL 16" WATER MAIN.
4. VALVE BOXES ON WATER MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. BACKFILL AND PAVE THESE AREAS AS REQUIRED.
5. SIZE AND MATERIAL OF THE WATER SERVICES FOR EACH BUILDING ARE LISTED ON THE PLANS BASED ON INFORMATION FROM WATER SERVICE CARDS. UNLESS NOTED, THE CONTRACTOR SHALL ASSUME THAT THE LEAD, IRON OR STEEL SERVICE IS LEAD, IRON OR STEEL FROM THE WATER MAIN TO THE WATER METER IN THE BUILDING. VERIFY ALL INFORMATION WITH THE WATER DEPARTMENT.
6. THE CONTRACTOR SHALL REPLACE ALL LEAD, IRON, AND STEEL WATER SERVICES FROM THE WATER MAIN TO THE WATER METER WITH NEW COPPER PIPE, CORPORATION STOP, AND CURB STOP, AS REQUIRED. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
7. ALL NEW WATER SERVICES SHALL BE THE SAME SIZE AS THE EXISTING WATER SERVICE, EXCEPT THAT NO SERVICE SHALL BE LESS THAN 1" IN DIAMETER. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
8. ALL EXISTING HYDRANTS WITHIN CONTRACT LIMITS ARE TO BE REMOVED AT NO ADDITIONAL COST TO THE OWNER AND AS REQUIRED BY THE ENGINEER, SHALL BE EITHER DISPOSED OF OR DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
9. TEMPORARY WATER SERVICE PIPE WILL BE REQUIRED FOR ALL RESIDENTS WITHIN THE CONTRACT LIMITS WHERE THEY WILL BE WITHOUT WATER FOR A PERIOD OF 4 HOURS OR MORE AND ALSO WHERE REQUIRED BY THE ENGINEER. TEMPORARY GATE VALVES AND FIRE HYDRANTS ARE TO BE PROVIDED, AS REQUIRED.
10. ALL JOINTS IN PROXIMITY TO FITTINGS SHALL BE RESTRAINED. SEE TABLE 1; SHEET D-1. MECHANICAL JOINT SOLID SLEEVE COUPLINGS SHALL BE USED WHENEVER POSSIBLE.
11. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATER MAIN WHEN THE EXISTING WATER MAIN IS WITHIN THE NEW WATER MAIN TRENCH.
12. ALL STEEL PLATES SHALL BE RECESSED AND INSTALLED WITH PINS WHEN UTILIZED IN THE ROADWAY DURING WINTER MONTHS.
13. SEWER RECORD DRAWINGS INDICATED THAT EXCAVATION REQUIRED BLASTING BETWEEN THE AREAS INDICATED ON SHEET C-3 AND C-4. RECORD DRAWINGS WILL BE AVAILABLE DURING NORMAL BUSINESS HOURS FOR INSPECTION DURING THE BID PHASE BY CONTACTING THE CITY OF QUINCY'S ENGINEERING DEPARTMENT.
14. WORK PERFORMED ON ADAMS STREET BETWEEN VICTORY AVENUE AND THE BEALE STREET AND STEDMAN STREET INTERSECTION (INCLUDING THESE INTERSECTIONS) SHALL BE PERFORMED BY THE CONTRACTOR AT NIGHT BETWEEN THE HOURS OF 8:00P.M. AND 5:00A.M.



Valves and Specials  
24" Venturi Meter (Throat Diam 8.00)  
Adams and Beale Sts., Quincy

DRAFTED  
AUG 22, 2005

Apr. 1926  
Corrected to Dec. 1984

Meter Station 29  
Detail Record 21-24  
East & West Lines 43

**Weston & Sampson**  
Five Centennial Drive, Peabody, MA 01960  
(978) 532-1900 (800) 541PSON  
www.westonsampson.com

REGISTERED PROFESSIONAL ENGINEER  
DATE: 8/16/05

No.	Date	Dr. By	Ch. By	App. By	Description

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS

ADAMS STREET  
ADAMS-ALBA

ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS

CONTRACT:	NOTED
SCALE:	NOTED
JOB NO.:	21-20266
DR. BY:	PJS
DES. BY:	MDW
CHK. BY:	BWA
APP. BY:	LES

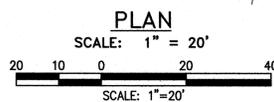
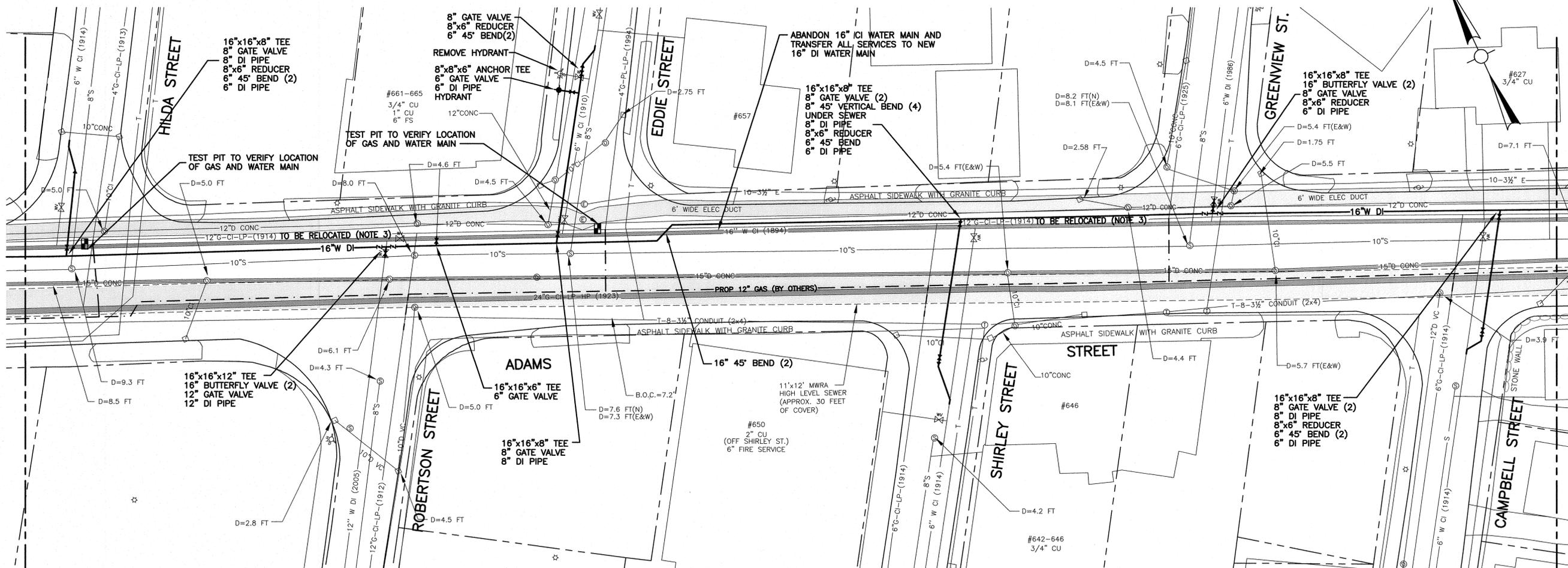
FILE NO. 194-42

SHEET 3 OF 13

© Quincy, MA, Adams St. & Albatross Rd. W. Improv. CAD/DESIGN/ADAMS-ALBA-Improvements.DWG

MATCH LINE - SEE SHEET C-1

MATCH LINE - SEE SHEET C-3



**NOTES:**

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2. WORK WITHIN 100-YEAR FLOOD PLAIN AND 100-FOOT WETLAND BUFFER SHALL BE PERFORMED IN ACCORDANCE WITH QUINCY CONSERVATION COMMISSION REQUIREMENTS. SEE SECTION 00890, PERMITS.
3. GAS COMPANY IS SCHEDULED TO RELOCATE EXISTING 12-INCH GAS MAIN PRIOR TO THE INSTALLATION OF NEW WATER MAIN. NEW LOCATION IS SHOWN ON PLANS (PROPOSED). CONTRACTOR TO REMOVE ABANDONED 12\"/>
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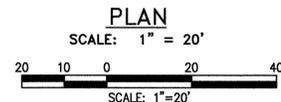
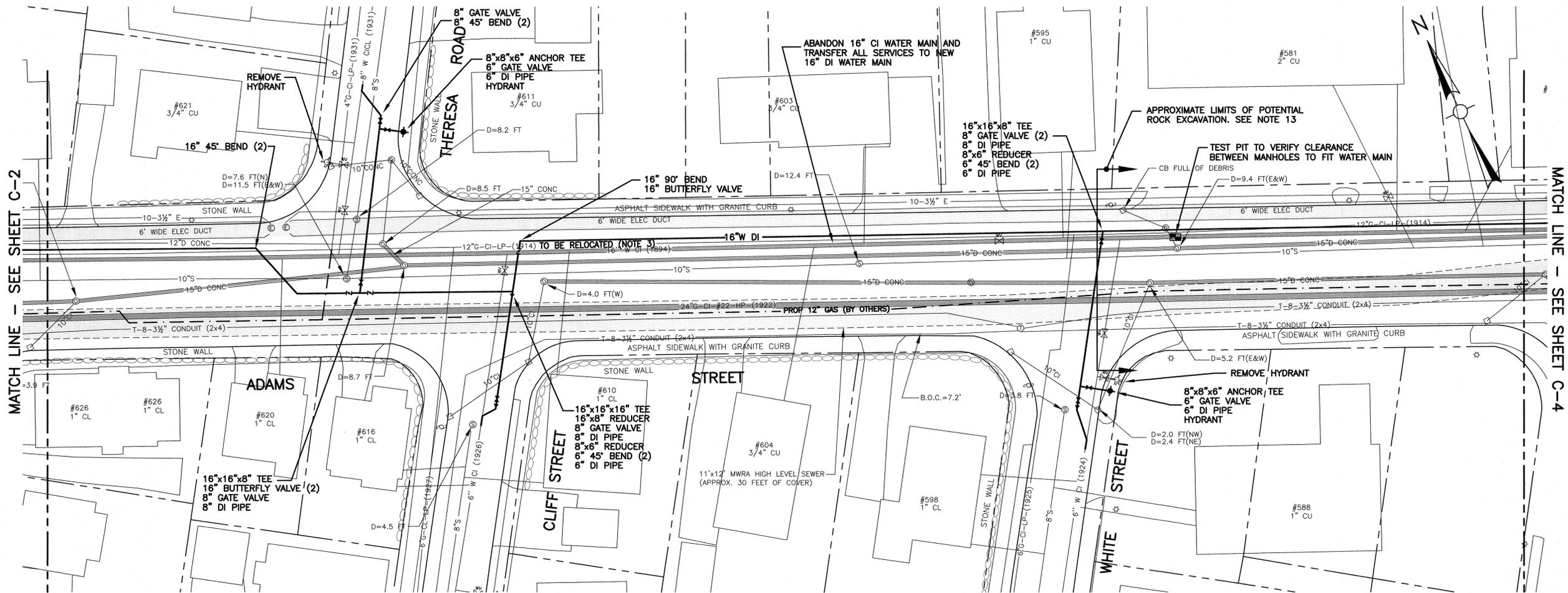
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 www.westonsampson.com

No.	Date	Dr. By	Chk. By	App. By	Description			
		A	P	R	O	V	E	D

REGISTERED PROFESSIONAL ENGINEER  
*[Signature]*  
 DATE: 8/2/14



CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS	ADAMS STREET	FILE NO. 194-41
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS	CONTRACT: NOTED	SCALE: ADAMS-ALBA
DR. BY: PJS	CHK. BY: MDW	APP. BY: BWA
JOB NO. 2120266	DR. BY: PJS	APP. BY: BWA



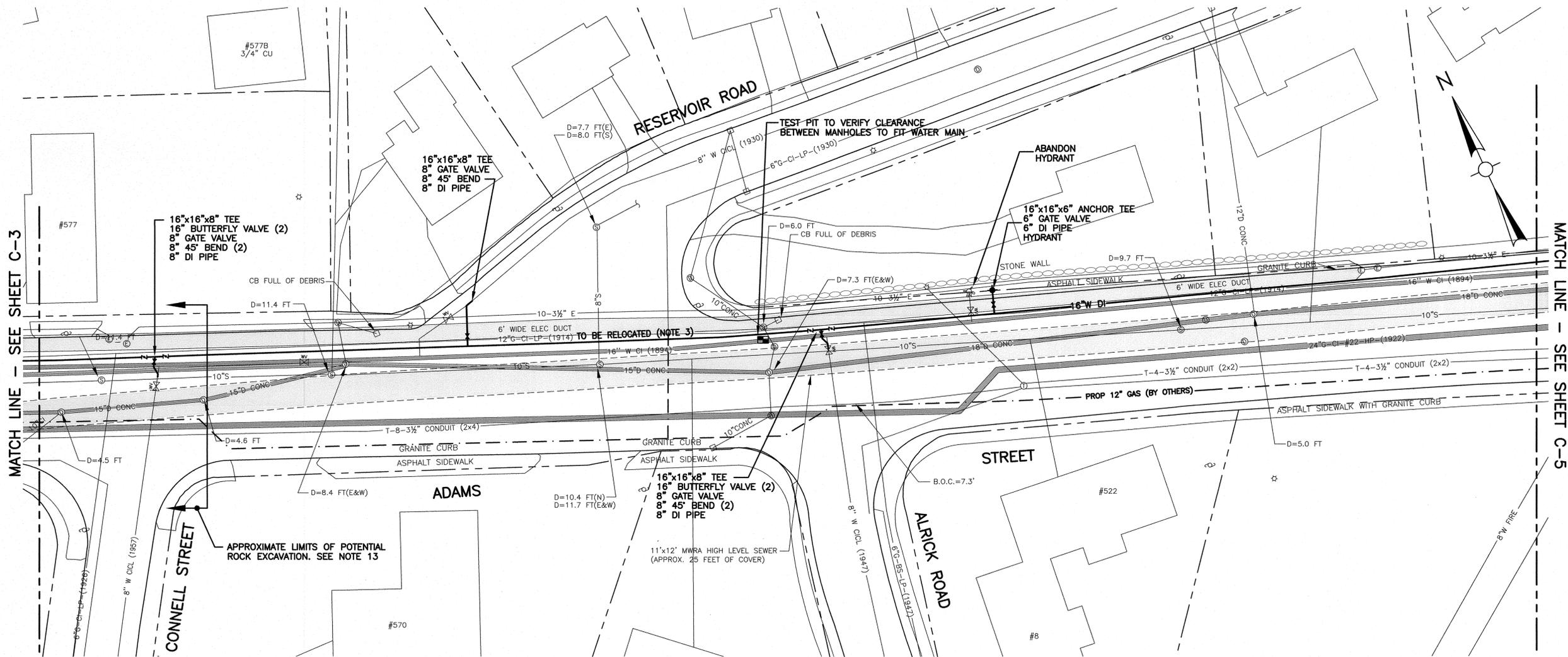
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9. TEMPORARY WATER SERVICE PIPE WILL BE REQUIRED FOR ALL RESIDENTS WITHIN THE CONTRACT LIMITS WHERE THEY WILL BE WITHOUT WATER FOR A PERIOD OF 4 HOURS OR MORE AND ALSO WHERE REQUIRED BY THE ENGINEER. TEMPORARY GATE VALVES AND FIRE HYDRANTS ARE TO BE PROVIDED, AS REQUIRED.
10. ALL JOINTS IN PROXIMITY TO FITTINGS SHALL BE RESTRAINED. SEE TABLE 1; SHEET D-1. MECHANICAL JOINT SOLID SLEEVE COUPLINGS SHALL BE USED WHENEVER POSSIBLE.
11. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATER MAIN WHEN THE EXISTING WATER MAIN IS WITHIN THE NEW WATER MAIN TRENCH.
12. ALL STEEL PLATES SHALL BE RECESSED AND INSTALLED WITH PINS WHEN UTILIZED IN THE ROADWAY DURING WINTER MONTHS.
13. SEWER RECORD DRAWINGS INDICATED THAT EXCAVATION REQUIRED BLASTING BETWEEN THE AREAS INDICATED ON SHEET C-3 AND C-4. RECORD DRAWINGS WILL BE AVAILABLE DURING NORMAL BUSINESS HOURS FOR INSPECTION DURING THE BID PHASE BY CONTACTING THE CITY OF QUINCY'S ENGINEERING DEPARTMENT.
14. WORK PERFORMED ON ADAMS STREET BETWEEN VICTORY AVENUE AND THE BEALE STREET AND STEDMAN STREET INTERSECTION (INCLUDING THESE INTERSECTIONS) SHALL BE PERFORMED BY THE CONTRACTOR AT NIGHT BETWEEN THE HOURS OF 8:00P.M. AND 5:00A.M.

No.	Date	Dr. By	Ck. By	App. By	Description
					A P P R O V E D
					REGISTERED PROFESSIONAL ENGINEER



CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS	ADAMS STREET	ADAMS-ALBA	2120266	PJS	MDW	BWA	LES
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS	ADAMS STREET	ADAMS-ALBA	2120266	PJS	MDW	BWA	LES



**PLAN**  
SCALE: 1" = 20'  
0 10 20 40  
SCALE: 1" = 20'

**NOTES:**

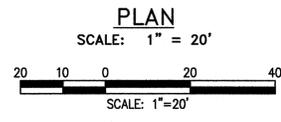
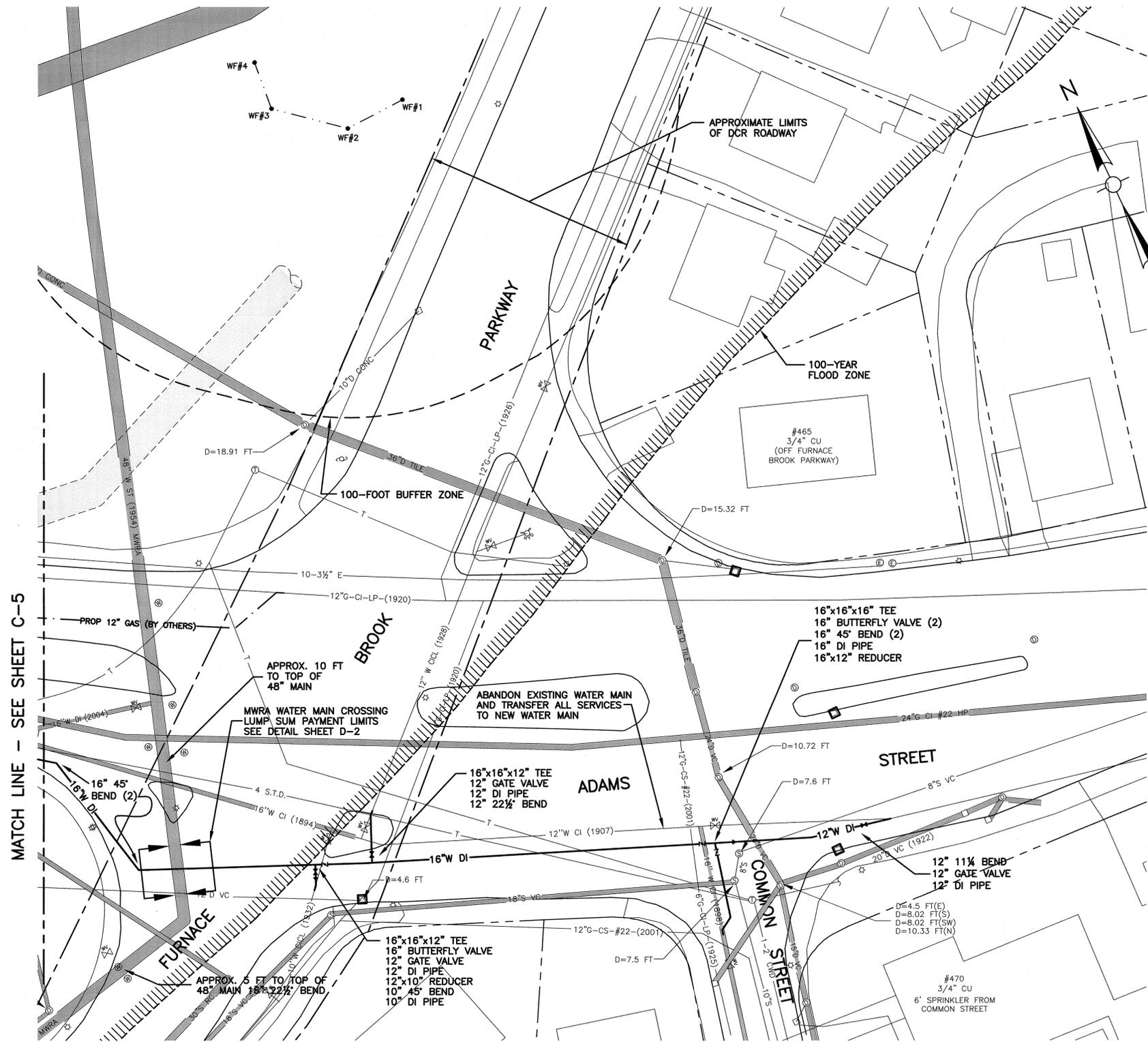
- WORK WITHIN DEPARTMENT OF CONSERVATION AND RECREATION (DCR) ROADWAY SHALL BE PERFORMED IN ACCORDANCE WITH DCR ROAD OPENING PERMIT. SEE SECTION 00890, PERMITS.
- WORK WITHIN 100-YEAR FLOOD PLAIN AND 100-FOOT WETLAND BUFFER SHALL BE PERFORMED IN ACCORDANCE WITH QUINCY CONSERVATION COMMISSION REQUIREMENTS. SEE SECTION 00890, PERMITS.
- GAS COMPANY IS SCHEDULED TO RELOCATE EXISTING 12-INCH GAS MAIN PRIOR TO THE INSTALLATION OF NEW WATER MAIN. NEW LOCATION IS SHOWN ON PLANS (PROPOSED). CONTRACTOR TO REMOVE ABANDONED 12" GAS MAIN AS NECESSARY TO INSTALL 16" WATER MAIN.
- VALVE BOXES ON WATER MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. BACKFILL AND PAVE THESE AREAS AS REQUIRED.
- SIZE AND MATERIAL OF THE WATER SERVICES FOR EACH BUILDING ARE LISTED ON THE PLANS BASED ON INFORMATION FROM WATER SERVICE CARDS. UNLESS NOTED, THE CONTRACTOR SHALL ASSUME THAT THE LEAD, IRON OR STEEL SERVICE IS LEAD, IRON OR STEEL FROM THE WATER MAIN TO THE WATER METER IN THE BUILDING. VERIFY ALL INFORMATION WITH THE WATER DEPARTMENT.
- THE CONTRACTOR SHALL REPLACE ALL LEAD, IRON, AND STEEL WATER SERVICES FROM THE WATER MAIN TO THE WATER METER WITH NEW COPPER PIPE, CORPORATION STOP, AND CURB STOP, AS REQUIRED. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
- ALL NEW WATER SERVICES SHALL BE THE SAME SIZE AS THE EXISTING WATER SERVICE, EXCEPT THAT NO SERVICE SHALL BE LESS THAN 1" IN DIAMETER. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
- ALL EXISTING HYDRANTS WITHIN CONTRACT LIMITS ARE TO BE REMOVED AT NO ADDITIONAL COST TO THE OWNER AND AS REQUIRED BY THE ENGINEER, SHALL BE EITHER DISPOSED OF OR DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
- TEMPORARY WATER SERVICE PIPE WILL BE REQUIRED FOR ALL RESIDENTS WITHIN THE CONTRACT LIMITS WHERE THEY WILL BE WITHOUT WATER FOR A PERIOD OF 4 HOURS OR MORE AND ALSO WHERE REQUIRED BY THE ENGINEER. TEMPORARY GATE VALVES AND FIRE HYDRANTS ARE TO BE PROVIDED, AS REQUIRED.
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- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATER MAIN WHEN THE EXISTING WATER MAIN IS WITHIN THE NEW WATER MAIN TRENCH.
- ALL STEEL PLATES SHALL BE RECESSED AND INSTALLED WITH PINS WHEN UTILIZED IN THE ROADWAY DURING WINTER MONTHS.
- SEWER RECORD DRAWINGS INDICATED THAT EXCAVATION REQUIRED BLASTING BETWEEN THE AREAS INDICATED ON SHEET C-3 AND C-4. RECORD DRAWINGS WILL BE AVAILABLE DURING NORMAL BUSINESS HOURS FOR INSPECTION DURING THE BID PHASE BY CONTACTING THE CITY OF QUINCY'S ENGINEERING DEPARTMENT.
- WORK PERFORMED ON ADAMS STREET BETWEEN VICTORY AVENUE AND THE BEALE STREET AND STEDMAN STREET INTERSECTION (INCLUDING THESE INTERSECTIONS) SHALL BE PERFORMED BY THE CONTRACTOR AT NIGHT BETWEEN THE HOURS OF 8:00P.M. AND 5:00A.M.

No.	Date	Dr. By	Chk. By	App. By	Description
					DATE
					1/1/12
					REGISTERED PROFESSIONAL ENGINEER
					B. B. B.



CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS		DR. BY	CHK. BY	APP. BY
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS		PJS	MDW	BWA
ADAMS STREET		JOB NO.	CONTRACT:	SCALE:
		2120266	NOTED	NOTED
CADD NO.	ADAMS-ALBA	FILE NO.	194-39	





**NOTES:**

1. WORK WITHIN DEPARTMENT OF CONSERVATION AND RECREATION (DCR) ROADWAY SHALL BE PERFORMED IN ACCORDANCE WITH DCR ROAD OPENING PERMIT. SEE SECTION 00890, PERMITS.
2. WORK WITHIN 100-YEAR FLOOD PLAIN AND 100-FOOT WETLAND BUFFER SHALL BE PERFORMED IN ACCORDANCE WITH QUINCY CONSERVATION COMMISSION REQUIREMENTS. SEE SECTION 00890, PERMITS.
3. GAS COMPANY IS SCHEDULED TO RELOCATE EXISTING 12-INCH GAS MAIN PRIOR TO THE INSTALLATION OF NEW WATER MAIN.
4. VALVE BOXES ON WATER MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. BACKFILL AND PAVE THESE AREAS AS REQUIRED.
5. SIZE AND MATERIAL OF THE WATER SERVICES FOR EACH BUILDING ARE LISTED ON THE PLANS BASED ON INFORMATION FROM WATER SERVICE CARDS. UNLESS NOTED, THE CONTRACTOR SHALL ASSUME THAT THE LEAD, IRON OR STEEL SERVICE IS LEAD, IRON OR STEEL FROM THE WATER MAIN TO THE WATER METER IN THE BUILDING. VERIFY ALL INFORMATION WITH THE WATER DEPARTMENT.
6. THE CONTRACTOR SHALL REPLACE ALL LEAD, IRON, AND STEEL WATER SERVICES FROM THE WATER MAIN TO THE WATER METER WITH NEW COPPER PIPE, CORPORATION STOP, AND CURB STOP, AS REQUIRED. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
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10. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATER MAIN WHEN THE EXISTING WATER MAIN IS WITHIN THE NEW WATER MAIN TRENCH.
11. ALL STEEL PLATES SHALL BE RECESSED AND INSTALLED WITH PINS WHEN UTILIZED IN THE ROADWAY DURING WINTER MONTHS.

MATCH LINE - SEE SHEET C-5

**Weston & Sampson**  
Five Centennial Drive, Peabody, MA 01860  
(978) 532-1900 (800) SAMPSON  
www.westonandsampson.com

No.	Date	Dr. By	Ck. By	App. By	Description

REGISTERED PROFESSIONAL ENGINEER

*[Signature]*

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS

ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS

ADAMS STREET

SCALE: NOTED

CONTRACT: 2120266

DR. BY: PJS

CHECK BY: MDW

APP. BY: BWA

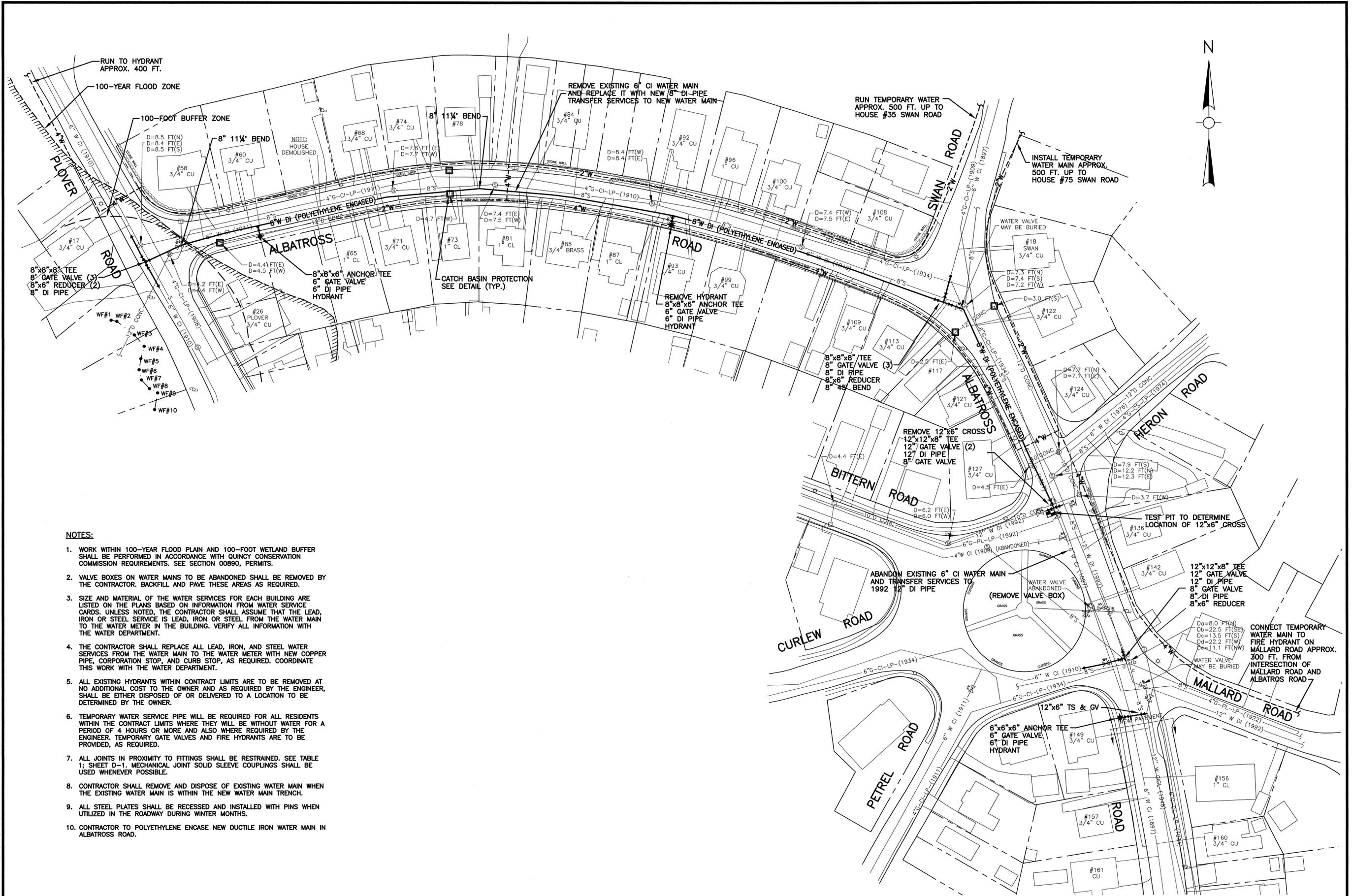
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CADD NO. ADAMS-ALBA

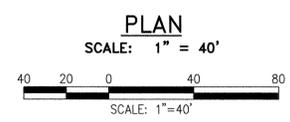
FILE NO. 194-37

C-6

**SHEET 8 OF 13**



- NOTES:**
1. WORK WITHIN 100-YEAR FLOOD PLAIN AND 100-FOOT WETLAND BUFFER SHALL BE PERFORMED IN ACCORDANCE WITH QUINCY CONSERVATION COMMISSION REQUIREMENTS. SEE SECTION 00890, PERMITS.
  2. VALVE BOXES ON WATER MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. BACKFILL AND PAVE THESE AREAS AS REQUIRED.
  3. SIZE AND MATERIAL OF THE WATER SERVICES FOR EACH BUILDING ARE LISTED ON THE PLANS BASED ON INFORMATION FROM WATER SERVICE CARDS. UNLESS NOTED, THE CONTRACTOR SHALL ASSUME THAT THE LEAD, IRON OR STEEL SERVICE IS LEAD, IRON OR STEEL FROM THE WATER MAIN TO THE WATER METER IN THE BUILDING. VERIFY ALL INFORMATION WITH THE WATER DEPARTMENT.
  4. THE CONTRACTOR SHALL REPLACE ALL LEAD, IRON, AND STEEL WATER SERVICES FROM THE WATER MAIN TO THE WATER METER WITH NEW COPPER PIPE, CORPORATION STOP, AND CURB STOP, AS REQUIRED. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
  5. ALL EXISTING HYDRANTS WITHIN CONTRACT LIMITS ARE TO BE REMOVED AT NO ADDITIONAL COST TO THE OWNER AND AS REQUIRED BY THE ENGINEER, SHALL BE EITHER DISPOSED OF OR DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
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  8. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WATER MAIN WHEN THE EXISTING WATER MAIN IS WITHIN THE NEW WATER MAIN TRENCH.
  9. ALL STEEL PLATES SHALL BE RECESSED AND INSTALLED WITH PINS WHEN UTILIZED IN THE ROADWAY DURING WINTER MONTHS.
  10. CONTRACTOR TO POLYETHYLENE ENCASE NEW DUCTILE IRON WATER MAIN IN ALBATROSS ROAD.

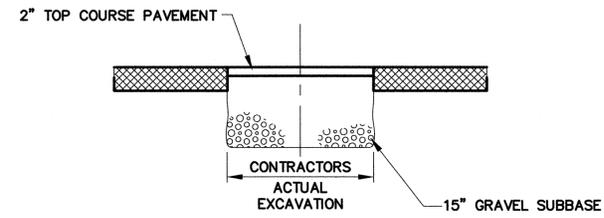


No.	Date	Dr. By	Ck. By	App. By	Description

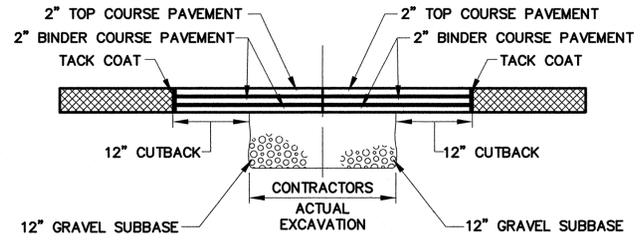
A. P. R. O. V. E. D.  
 DATE: 8/1/14  
 REGISTERED PROFESSIONAL ENGINEER  
 J. M. W.



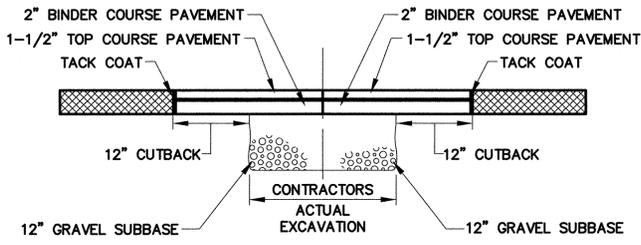
CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS	ALBATROSS ROAD	APP. BY: BWA	LES
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS	SCALE: NOTED	CHK. BY: MDW	
CONTRACT: 2120266	DR. BY: PJS	APP. BY: BWA	
CADD NO. ADAMS-ALBA	SCALE: 1"=40'	APP. BY: BWA	
FILE NO. 194-36	SCALE: 1"=40'	APP. BY: BWA	



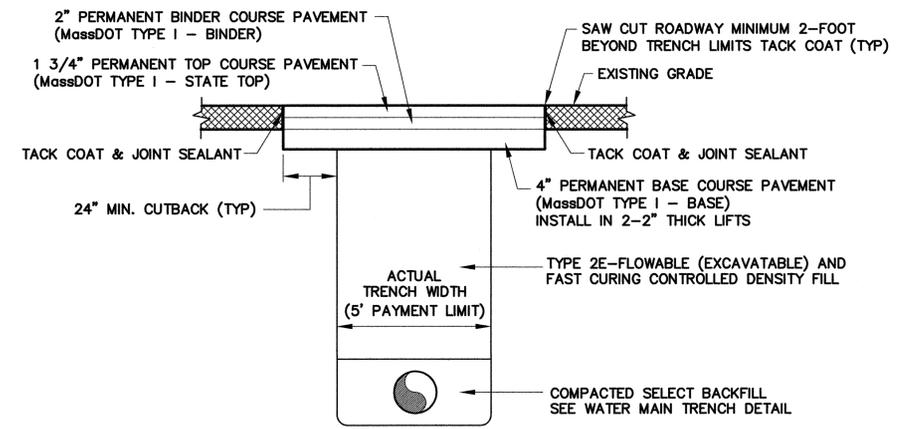
**TYPE 1 AND 3:  
TEMPORARY TRENCH PAVEMENT**



**TYPE 2:  
ADAMS STREET  
PERMANENT TRENCH PAVEMENT**



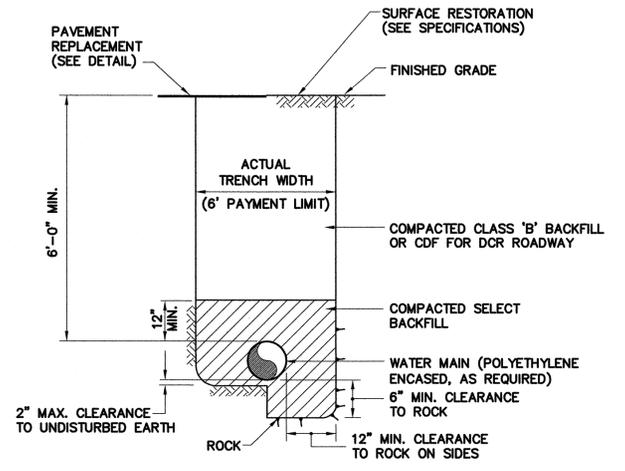
**TYPE 4:  
ALBATROSS ROAD  
PERMANENT TRENCH PAVEMENT**



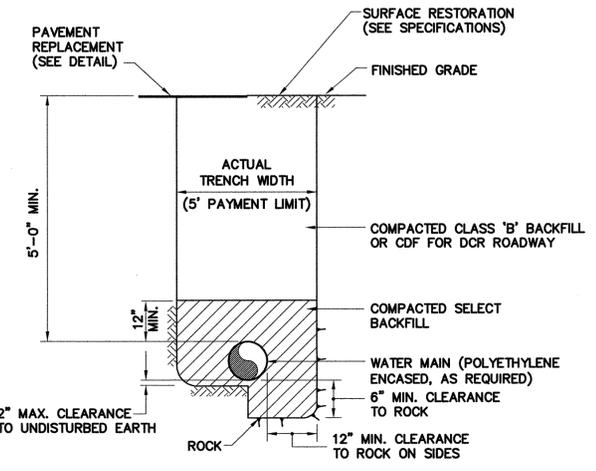
**TYPE 4:  
DEPARTMENT OF CONSERVATION AND RECREATION ROADWAY  
WATER MAIN TRENCH DETAIL WITH PERMANENT TRENCH PAVEMENT**

**NOTE:**  
1. SEE SECTION 02745, PAVING FOR PAVEMENT SCHEDULE.

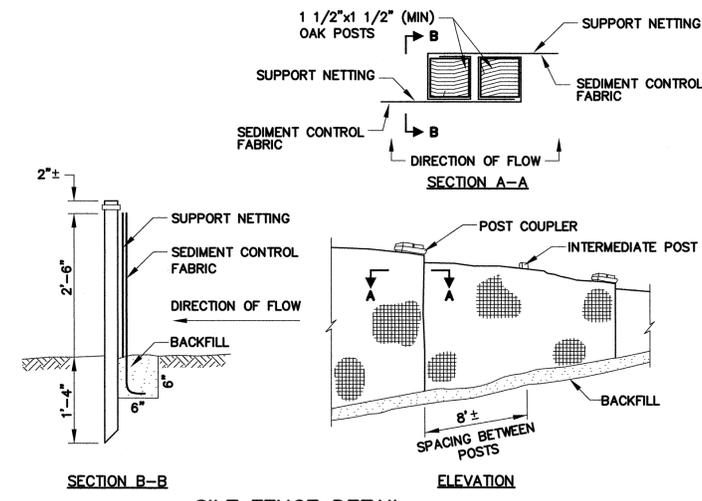
**PAVEMENT REPLACEMENT DETAILS  
N.T.S.**



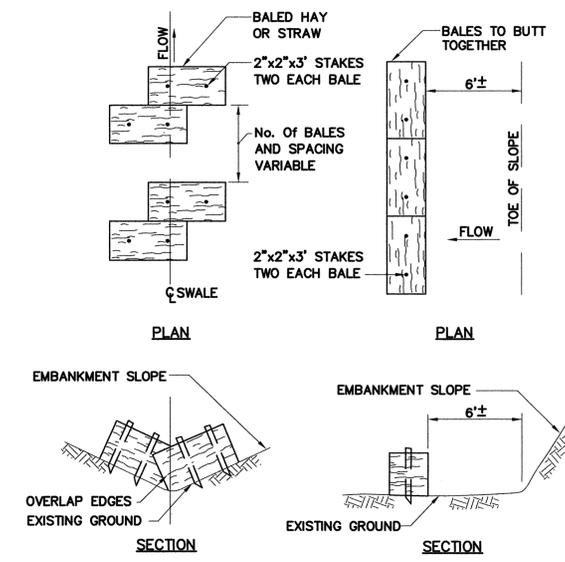
**ADAMS STREET  
WATER MAIN TRENCH DETAIL  
N.T.S.**



**ALBATROSS STREET  
WATER MAIN TRENCH DETAIL  
N.T.S.**



**SILT FENCE DETAIL  
N.T.S.**



**NOTE:** TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE TOE OF SLOPE

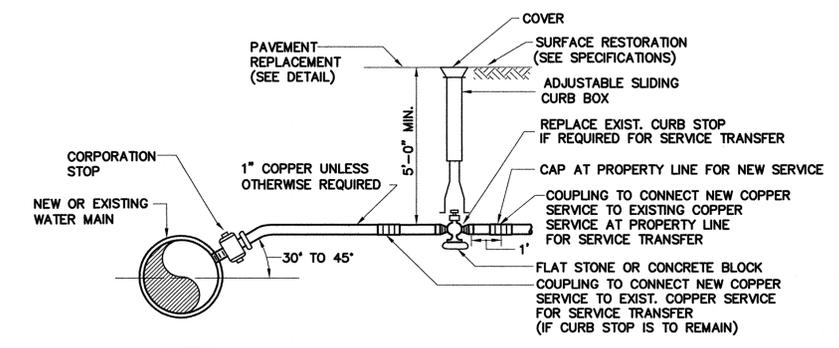
**NOTE:** TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES AWAY FROM THE TOE OF SLOPE

**HAY BALES DETAIL  
N.T.S.**

**TABLE 1  
REQUIRED LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)**

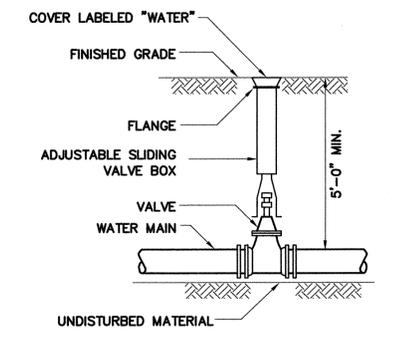
PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG, CAP OR IN-LINE VALVE	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)
16"	59.5 (72)	24.5 (30)	12 (14.5)	6 (7)	101 (152)	92 (139)
20"	72 (86.5)	30 (36)	14.5 (17)	7 (8.5)	123 (184)	114 (171)
24"	84 (100)	35 (41)	16.5 (20)	8 (10)	144 (216)	134 (202)
30"	100 (120)	41 (50)	20 (24)	10 (12)	174 (261)	165 (247)

**NOTES:**  
1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.  
2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.

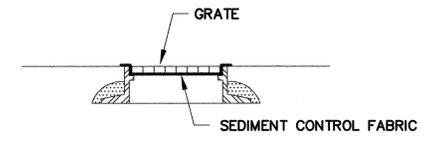


**NOTES:**  
1. REPLACE SADDLE FOR ALL AC AND PVC MAINS AND ALL 2" OR LARGER STOPS.  
2. REPLACE ALL LEAD, STEEL OR IRON WATER SERVICES FROM THE WATER MAIN TO THE HOUSE WATER METER WITH THE SAME SIZE AS THE EXISTING SERVICE, EXCEPT NO SERVICE SHALL BE LESS THAN 1" IN DIAMETER.

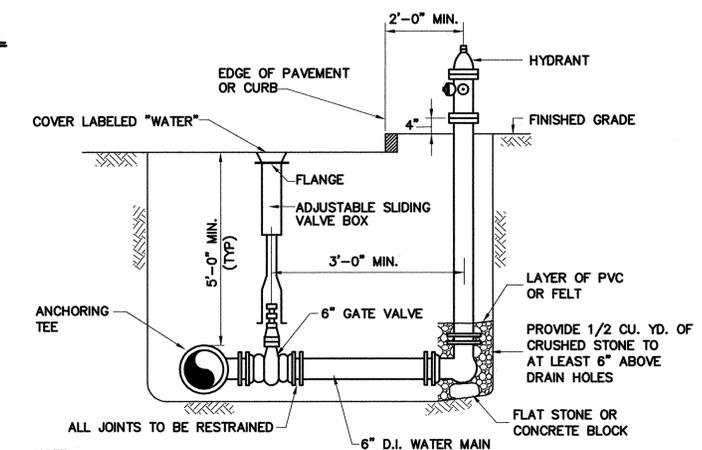
**WATER SERVICE DETAIL  
N.T.S.**



**VALVE AND BOX DETAIL  
N.T.S.**



**CATCH BASIN PROTECTION DETAIL  
N.T.S.**



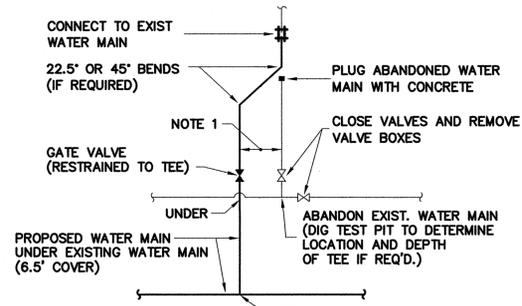
**NOTE:**  
USE TWO 6" BENDS OR OFFSET ON LATERAL TO ACHIEVE REQUIRED HYDRANT ELEVATION IF NECESSARY

**HYDRANT AND VALVE DETAIL  
N.T.S.**

No.	Date	Dr. By	Ck. By	App. By	Description
					A P P R O V E D
					DATE

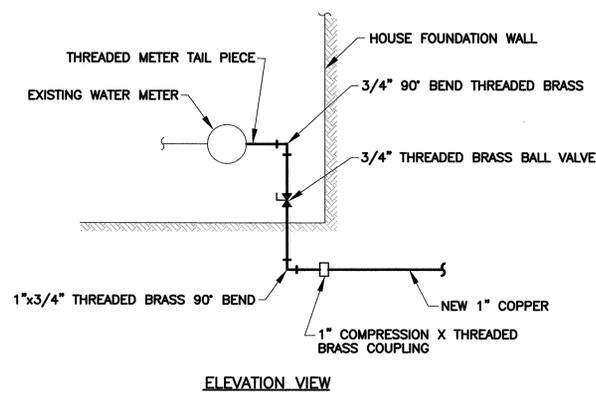


DR. BY	DS. BY	CHK. BY	APP. BY
RWS	MDW	BWA	LES
CONTRACT NO.	SCALE	NOTED	DETAILS
2120266			
CADD NO.	FILE NO.	194-35	



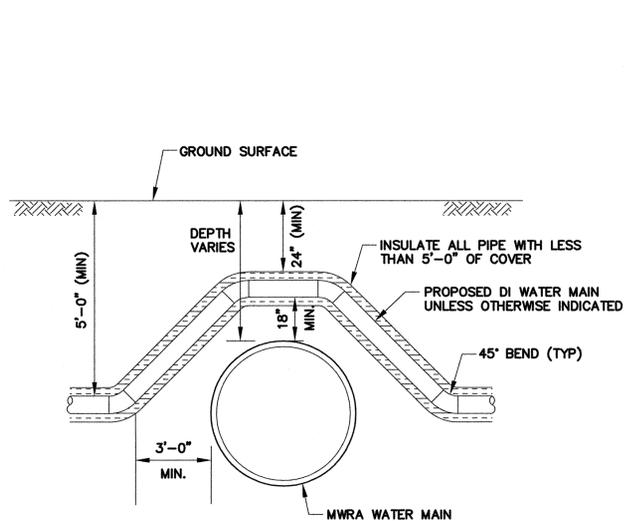
NOTE 1:  
MINIMUM PRACTICAL DISTANCE - GENERALLY NO MORE THAN 2 FT.

**WATER MAIN LATERAL CONNECTION**  
N.T.S.



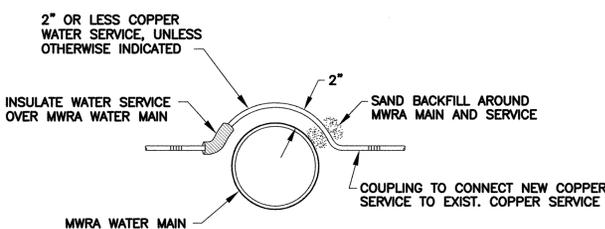
- NOTES:**
1. VERIFY SIZE OF HOUSE METER BEFORE DOING WORK.
  2. UTILIZE 1" THREADED BRASS FITTINGS BEFORE WATER METER.
  3. ADJUST HEIGHT OF BRASS THREADED FITTINGS TO MEET EXISTING WATER METER.
  4. BREAK UP BASEMENT FLOOR AND UTILIZE 3" CONCRETE TO REPAIR FLOOR.
  5. RE-SECURE GROUND WIRE AS NECESSARY.
  6. COORDINATE ALL WORK WITH THE WATER DEPARTMENT AND HOME OWNER.

**SERVICE REPLACEMENT TO HOUSE METER**  
N.T.S.

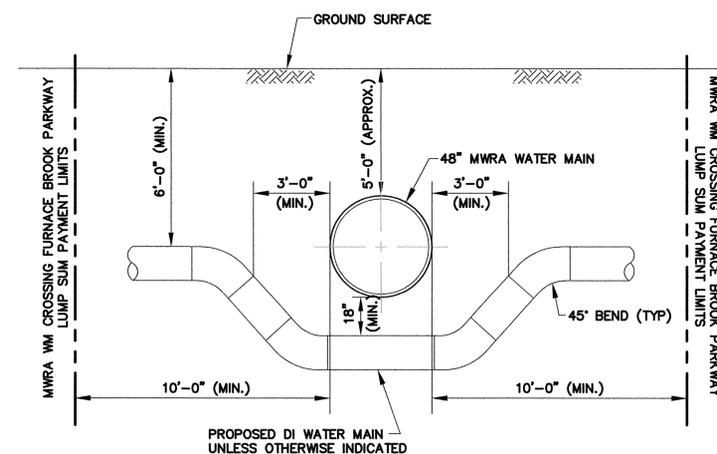


- NOTES:**
1. DUCTILE IRON WATER MAIN SHALL CROSS A MINIMUM OF 4'-0" FROM ANY JOINT ON THE MWRA WATER MAIN.
  2. NO VALVES OR APPURTENANCES SHALL BE INSTALLED IN CROSSING PIPING BETWEEN 45° BENDS.

**MWRA WATER MAIN CROSSING DETAIL**  
N.T.S.

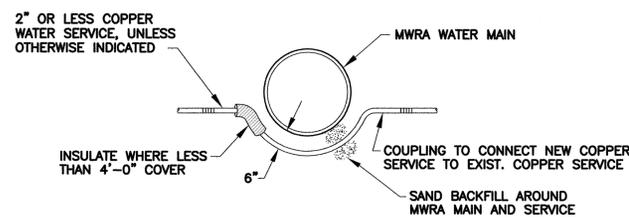


**WATER SERVICE RELOCATION DETAIL**  
N.T.S.

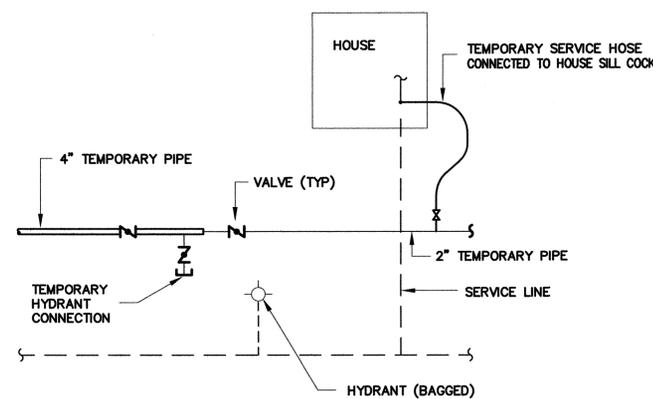


- NOTES:**
1. DUCTILE IRON WATER MAIN SHALL CROSS A MINIMUM OF 4'-0" FROM ANY JOINT ON THE MWRA WATER MAIN.
  2. NO VALVES OR APPURTENANCES SHALL BE INSTALLED IN CROSSING PIPING BETWEEN 45° BENDS.
  3. PREPARE TRENCH SHORING PLAN AND 48" MAIN SUPPORT PLAN. COORDINATE WITH ENGINEER.

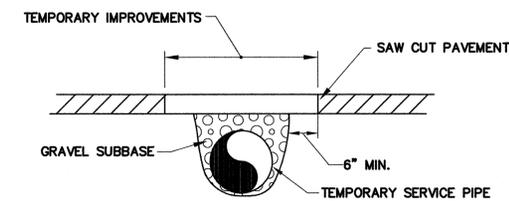
**MWRA WATER MAIN CROSSING FURNACE BROOK PARKWAY DETAIL**  
N.T.S.



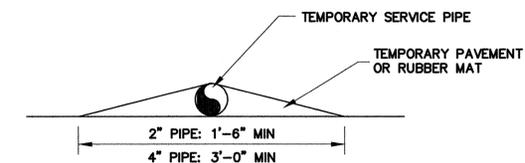
**WATER SERVICE RELOCATION DETAIL**  
N.T.S.



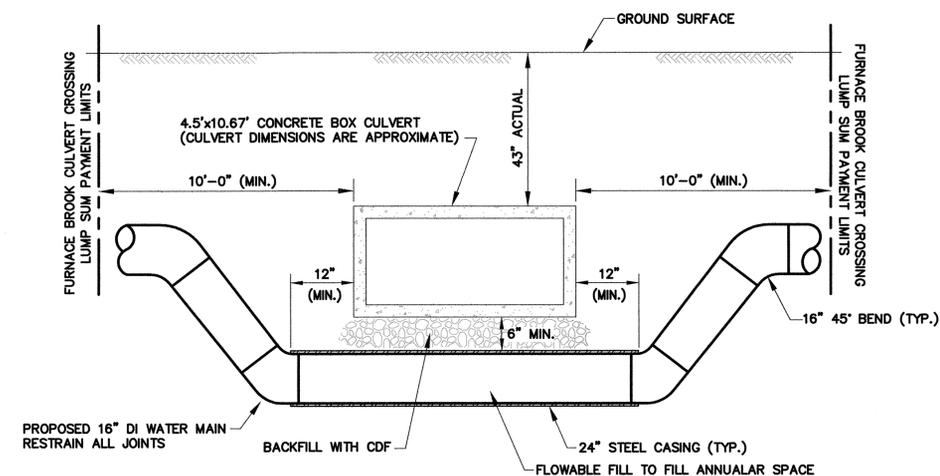
**TEMPORARY SERVICE PIPE DETAIL**  
N.T.S.



**TEMPORARY SERVICE PIPE ROADWAY CROSSING DETAIL**  
N.T.S.

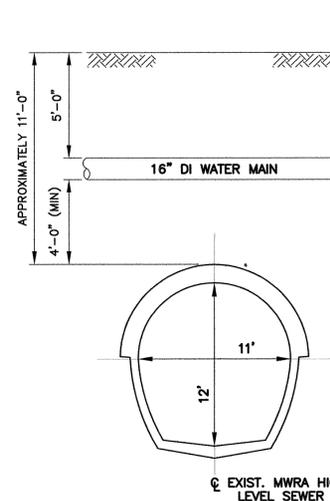


**TEMPORARY SERVICE PIPE DRIVEWAY CROSSING DETAIL**  
N.T.S.

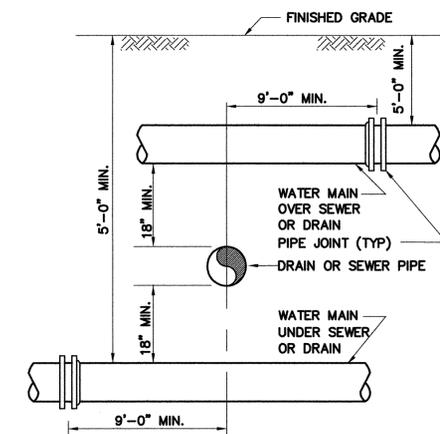


- NOTE:**
1. WATER MAIN JOINTS TO BE INSTALLED UNDER BOX CULVERT.

**FURNACE BROOK CONCRETE CULVERT CROSSING**  
N.T.S.



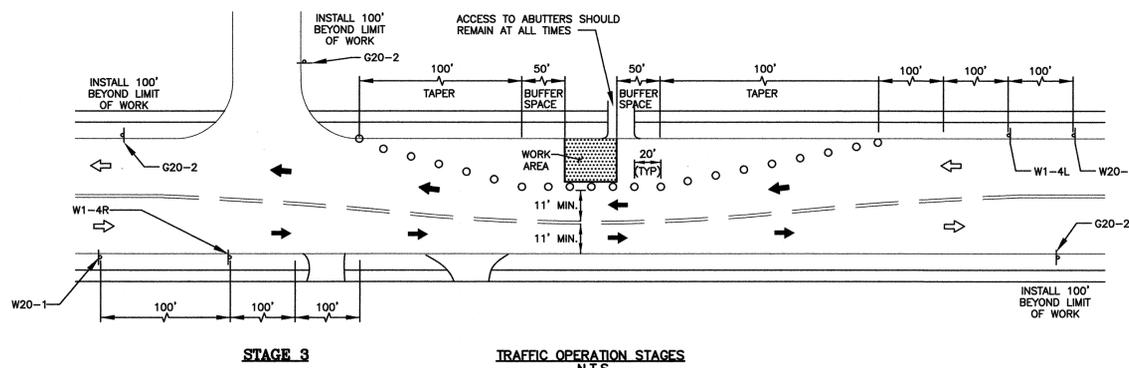
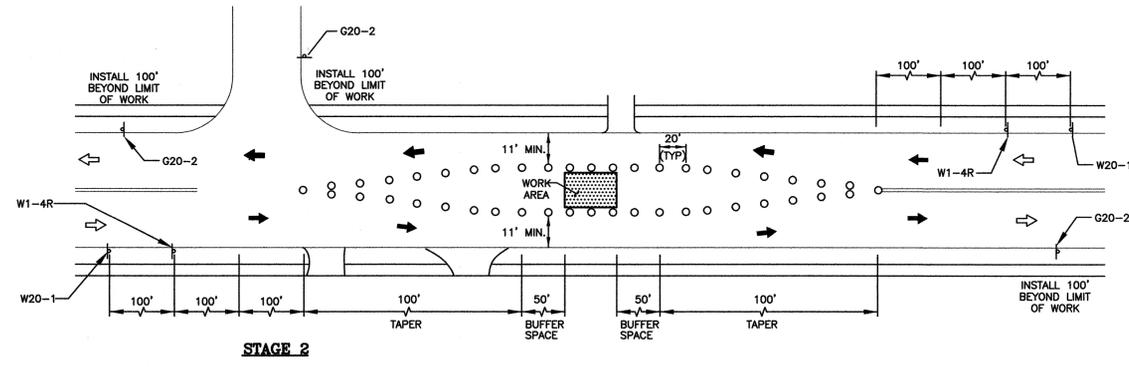
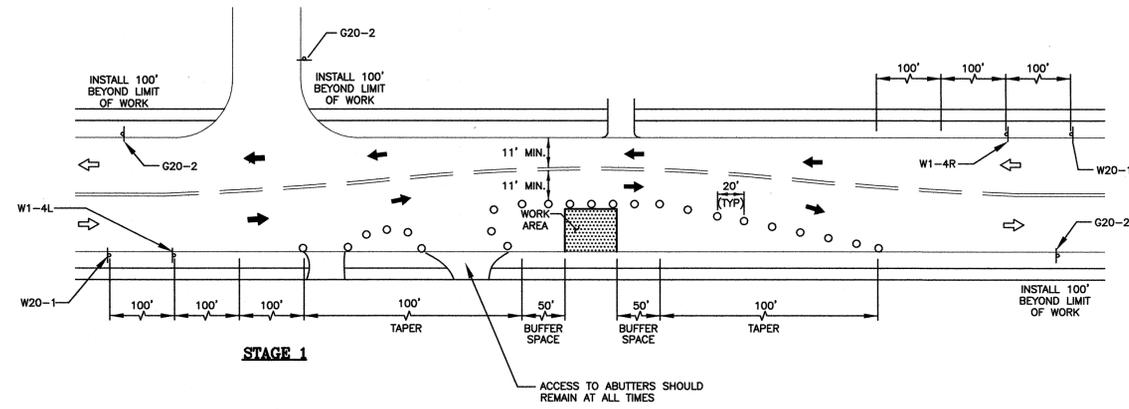
**MWRA (MDC) HIGH LEVEL SEWER CROSSING DETAIL STA 16+00±**  
N.T.S.



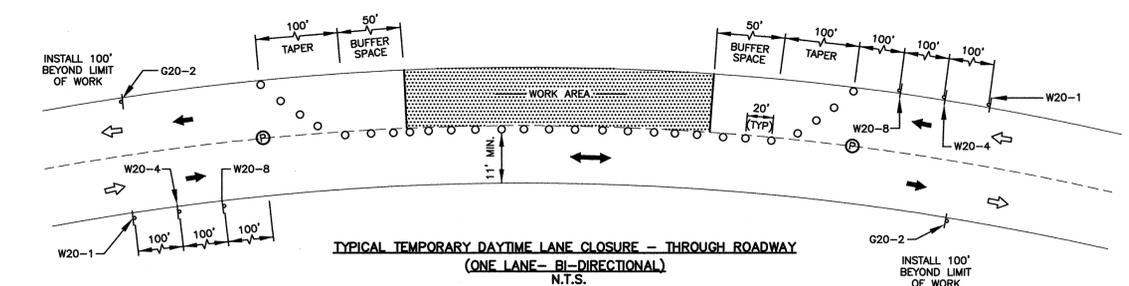
**SEWER OR DRAIN CROSSING DETAIL**  
N.T.S.

No.	Date	Dr. By	Ck. By	App. By	Description
					A P P R O V E D
					8/12 DATE
					REGISTERED PROFESSIONAL ENGINEER

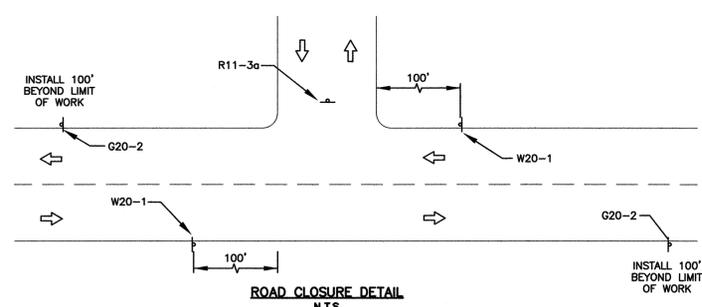




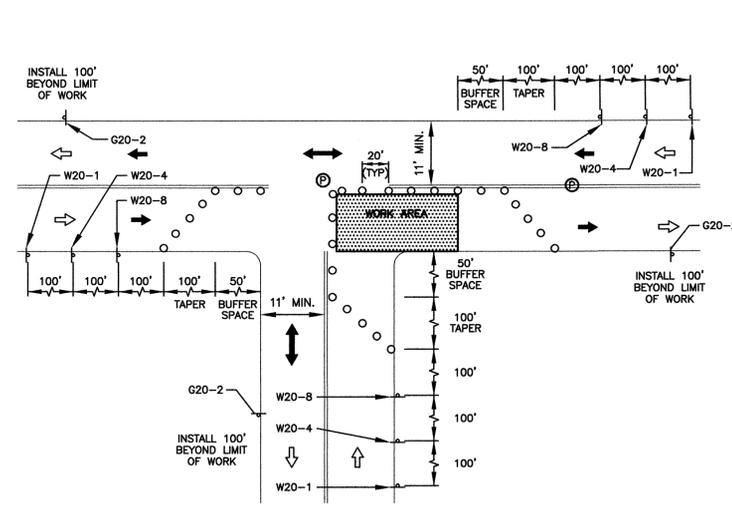
TRAFFIC OPERATION STAGES  
N.T.S.



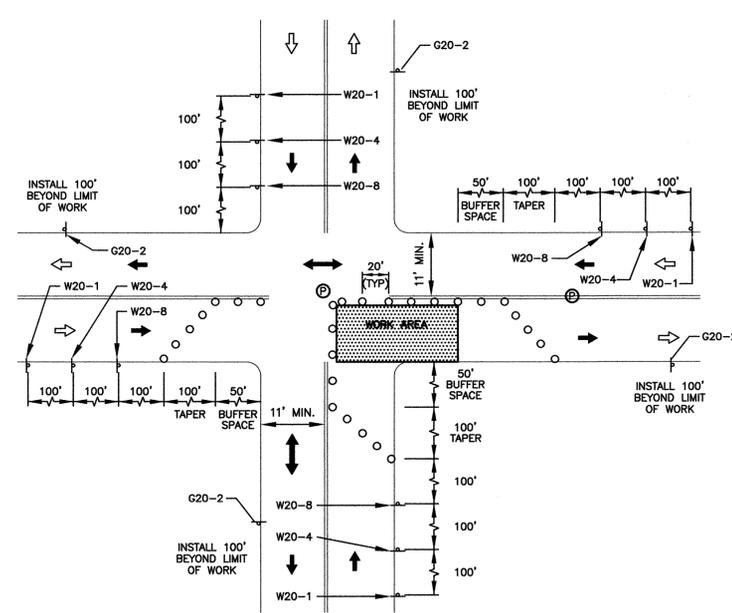
TYPICAL TEMPORARY DAYTIME LANE CLOSURE - THROUGH ROADWAY  
(ONE LANE - BI-DIRECTIONAL)  
N.T.S.



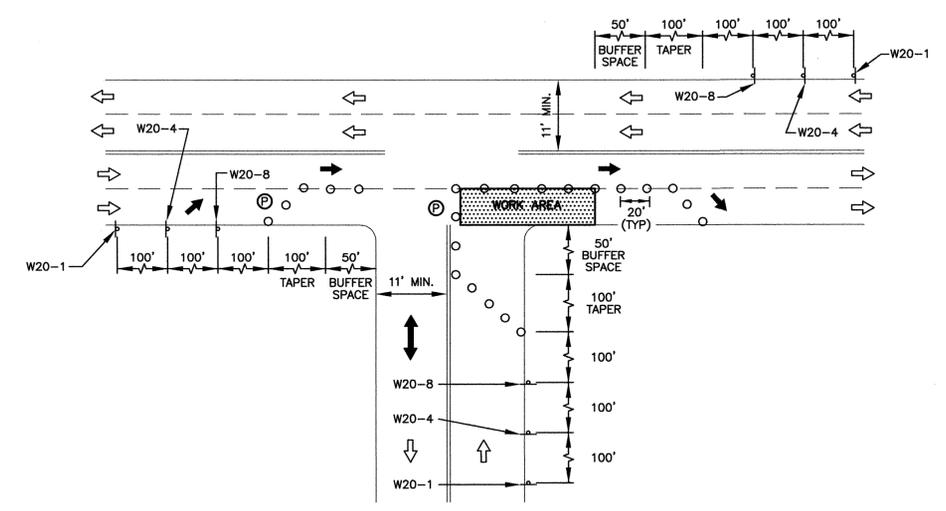
ROAD CLOSURE DETAIL  
N.T.S.



'T' INTERSECTION LANE CLOSURE (2 LANE ROAD)  
N.T.S.



CLOSURE AT SIDE OF INTERSECTION  
N.T.S.



'T' INTERSECTION LANE CLOSURE (4 LANE ROAD)  
N.T.S.

TEMPORARY TRAFFIC SIGN SUMMARY			
MUTCD CODE	SIZE OF SIGN		SIGN
	WIDTH	HEIGHT	
W1-4L	30"	30"	
W1-4R	30"	30"	
W20-1	36"	36"	
W20-4	36"	36"	
W20-8	36"	36"	
G20-2	36"	18"	

**NOTE:**

- FOR THE LATEST SPECIFICATION ON TEXT DIMENSIONS AND COLOR, CONTRACTOR SHALL REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

**LEGEND:**

- REFLECTORIZED DRUM
- TRAFFIC FLOW DURING CONSTRUCTION
- NORMAL TRAFFIC FLOW
- POLICE DETAIL OFFICER
- CONSTRUCTION SIGN
- WORK AREA

**GENERAL NOTES:**

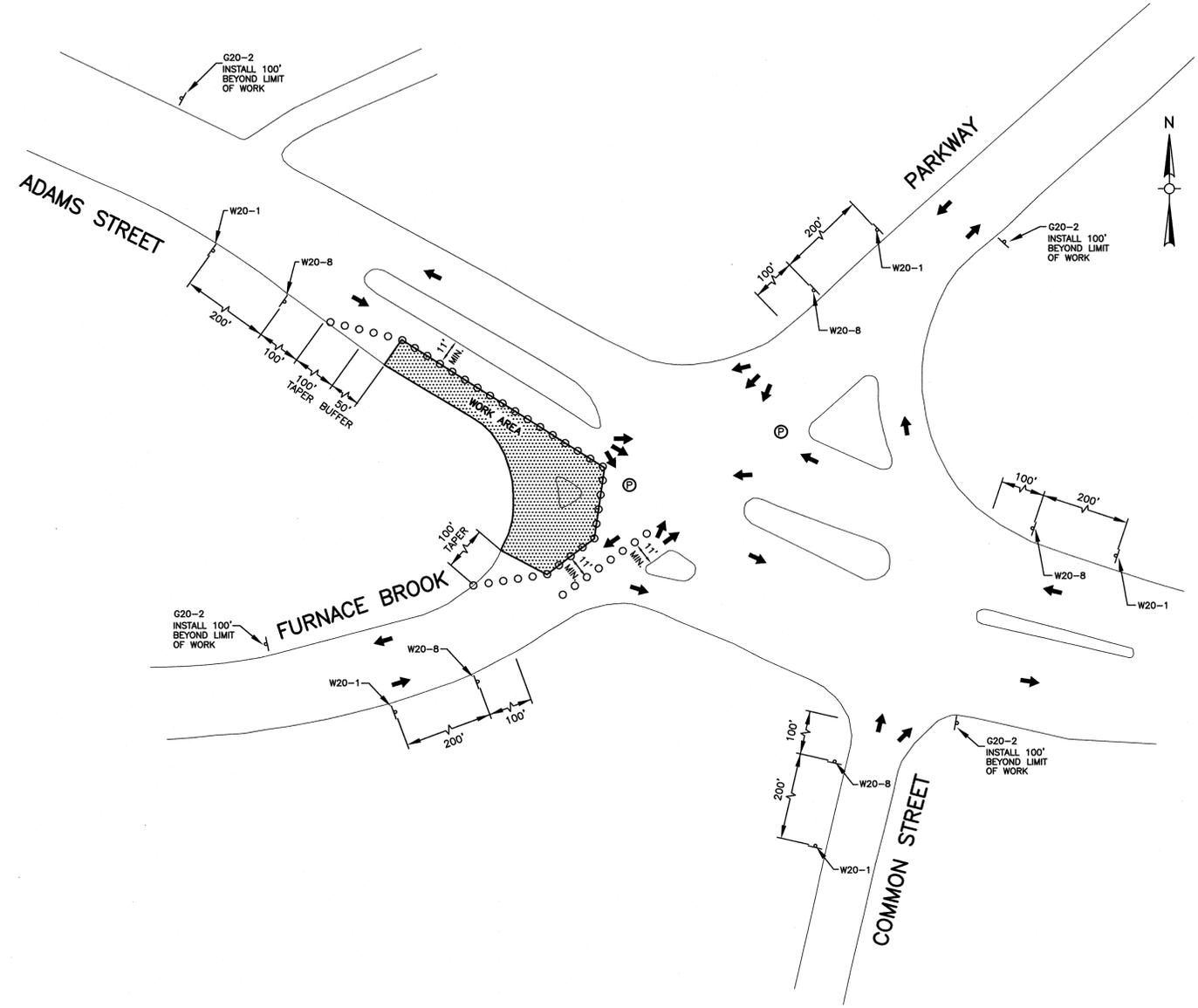
- PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
- NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
- PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
- W20-8 SHALL BE TAKEN DOWN OR COVERED AFTER EACH WORKING DAY OR WHEN OTHERWISE NOT APPLICABLE, OR WHEN POLICE OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
- ADVISORY SPEED PLATES (W13-1 - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
- NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
- SAMPLE TRAFFIC PLANS INCLUDED ON THIS PLAN SHEET ARE BASED ON AN URBAN (LOW SPEED) ROAD TYPE FROM THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
- THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.
- CONTRACTOR TO MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES. IF LATERAL AND SERVICE INSTALLATION DO NOT ALLOW FOR TWO LANES OF TRAFFIC, WORK WILL BE REQUIRED TO BE PERFORMED BETWEEN HOURS OF 8:30A.M.-4:30P.M.
- CONTRACTOR REQUIRED TO OBTAIN HIS WORK STAGING AREA AT HIS EXPENSE. NO SHARING OF MATERIALS AND EQUIPMENT (EXCEPTION OF TRACK EXCAVATOR) WILL BE ALLOWED WITHIN THE RIGHT-OF-WAY.

No.	Date	Dr. By	Chk. By	App. By	Description
					A P P R O V E D
					REGISTERED PROFESSIONAL ENGINEER
					DATE

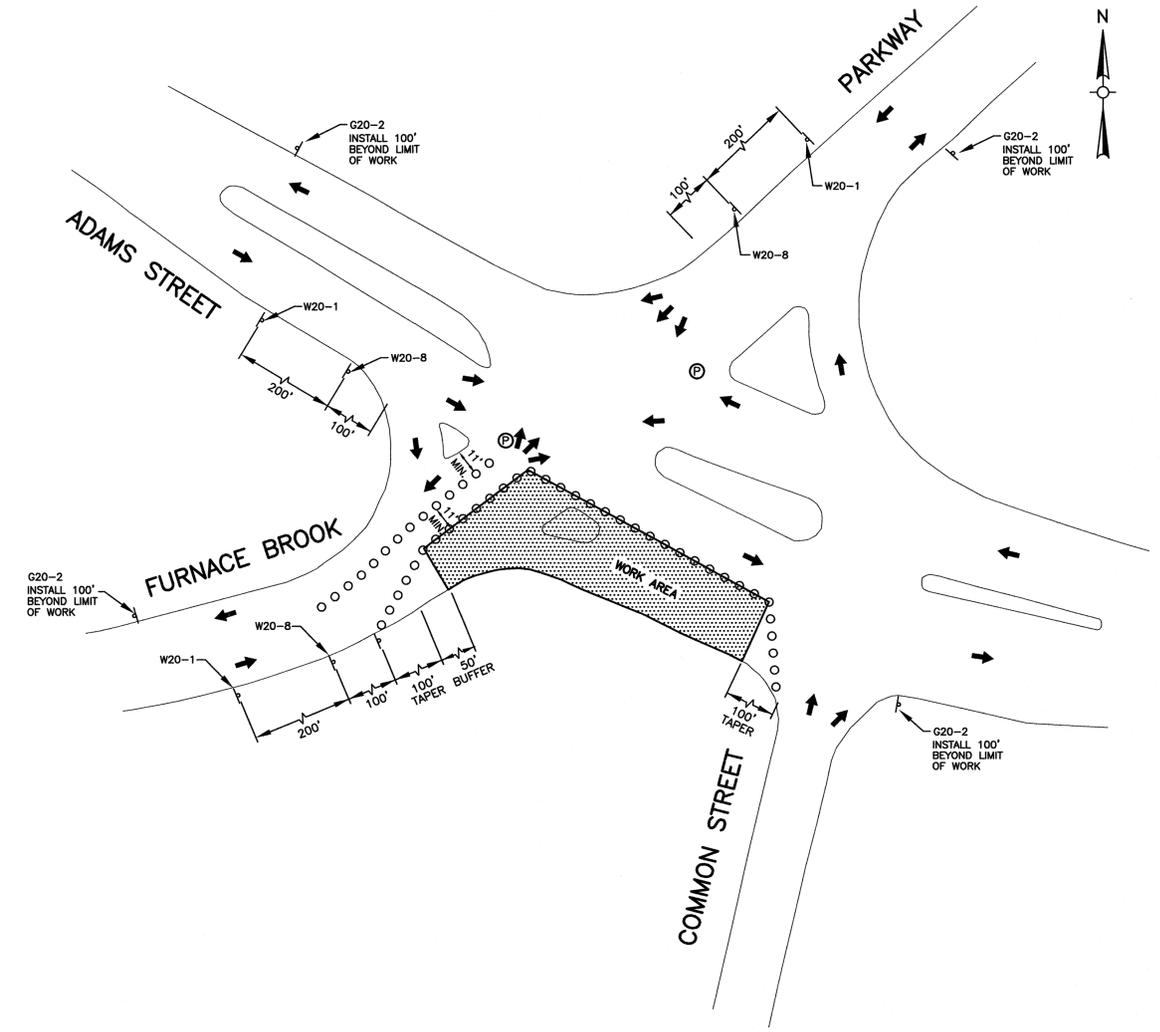


CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS  
**CONSTRUCTION ZONE SAFETY PLAN 1**  
JOB NO. 2120266  
SCALE: NOTED  
CONTRACT: NOTED  
CADD NO. CZS-PLAN  
DR BY: RWS  
CHK BY: BWA  
APP BY: LES  
FILE NO. 194-33

G:\Quincy MA\Adams St & Albatross Rd IM Improv\CADD\DESIGN\CZS-PLAN.dwg



**FURNACE BROOK PARKWAY TRAFFIC  
MANAGEMENT DETAIL NO. 1**  
N.T.S.



**FURNACE BROOK PARKWAY TRAFFIC  
MANAGEMENT DETAIL NO. 2**  
N.T.S.

**GENERAL NOTES:**

1. CONTRACTOR TO FURNISH AND MAINTAIN ELECTRONIC MESSAGE BOARDS IN UP TO THREE LOCATIONS FOR DURATION OF CONSTRUCTION PROJECT.
2. CONTRACTOR TO MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES. IF WATER MAIN, LATERAL MAIN AND SERVICE INSTALLATION DO NOT ALLOW FOR TWO LANES OF TRAFFIC, WORK WILL BE REQUIRED TO BE PERFORMED BETWEEN HOURS OF 8:30A.M.-4:30P.M.

No.	Date	Dr. By	Ck. By	App. By	Description
					A P P R O V E D
					3/17/12 DATE

*Bull*  
 REGISTERED PROFESSIONAL ENGINEER



CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS		DR. BY	DSN. BY	CHK. BY	APP. BY
ADAMS STREET AND ALBATROSS ROAD WATER MAIN IMPROVEMENTS		RWS	MDW	BWA	LES
CONSTRUCTION ZONE SAFETY PLAN II		CONTRACT:	NOTED	SCALE:	CZS-PLAN
JOB NO.	2120266	SCALE:	NOTED	CADD NO.	CZS-PLAN