LOCATION PLAN
SCALE: 1"=500'

CITY OF WOBURN

IFB 18-10 CLAPP SCHOOL DEMOLITION

40 HUDSON STREET WOBURN, MASSACHUSETTS

DRAWING INDEX

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D-1	DETAILS
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COMMONWEALTH OF MASSACHUSETTS
DUANE C. HIMES
CIVIL
No. 32336
REGISTERED PROFESSIONAL ENGINEER
3/27/18

MARCH 2018

Weston & Sampson SM

Weston & Sampson Engineers, Inc.
Five Centennial Drive, Peabody, MA 01960

File No. 230-76
Contract No. IFB 18-10
Project No. 2170992
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LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	S	8"S PVC
FORCE MAIN	FM	6"FM DI
WATER MAIN	W	6"W DI
STORM DRAIN	D	18"D RCP
GAS	G	4"G
UNDERGROUND ELECTRIC	UE	UE
UNDERGROUND TELEPHONE	T	T
OVERHEAD WIRES	OW	OW
AREA TO BE DEMOLISHED OR EQUIPMENT TO BE REMOVED		
SANITARY SEWER MANHOLE	S	SMH
STORM DRAIN MANHOLE	D	SDMH
ELECTRICAL MANHOLE		EMH
TELEPHONE MANHOLE		TMH
CLEANOUT		CO
CATCH BASIN		CB
HYDRANT		
GATE VALVE		
CHECK VALVE		
CURB STOP		
BUTTERFLY VALVE		
BALL VALVE		
REDUCER		
CAP OR PLUG		
GAS GATE VALVE	GV	
UTILITY POLE		
LIGHT POST		
EDGE OF PAVEMENT		
EDGE OF UNPAVED ROAD		
CURB		
SIDEWALK		
RAILROAD		
STONE WALL		
RETAINING WALL	RET WALL	RET WALL
FENCE		X
INDIVIDUAL DECIDUOUS TREE		
INDIVIDUAL EVERGREEN TREE		
TREE LINE		
SURVEY MARKER		
PROPERTY LINE		
EASEMENT LINE		
LIMIT OF WORK		
SPOT ELEVATIONS	x 141.5	x141.5
CONTOUR LINES	56	56
DEPRESSION CONTOUR LINES		
WETLAND		
WETLAND FLAGS		1 2
BOLLARD	B	B
SIGN		
BENCH MARK		
TEST PIT	TP 1	TP-1
BORING	B-10	B-11
PROBE	P-10	P-11
STRAW BALES / STRAW WATTLES		
ROCK OUTCROP		
DRAINAGE DITCH / SWALE		
TRANSFORMER	T	
TRACKING PAD		

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCMP	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
℄	CENTERLINE
CL	CEMENT LINED OR CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
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
HYD	FIRE HYDRANT
I OR INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MECH	MECHANICAL
MH	MANHOLE
MHD	MASSACHUSETTS HIGHWAY DEPARTMENT
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
ℙ	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RT	RADIO TOWER
RQD	ROCK QUALITY
S	SEWER, SOUTH, SILL ELEVATION
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SPS	SEWAGE PUMP STATION
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

CONSTRUCTION NOTES:

1. EXISTING TOPOGRAPHY INFORMATION, PROPERTY LINE, UTILITY, EDGE OF PAVEMENT AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM GEOGRAPHIC INFORMATION SYSTEM SOFTWARE, AS-BUILT DRAWINGS PROVIDED BY THE OWNER, A SITE PLAN DATED JUNE 29, 2016 PREPARED BY SAMIOTES CONSULTANTS, INC., AND ADDITIONAL DETAIL FIELD LOCATED BY WESTON & SAMPSON IN JANUARY 2018.
2. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 OR 811 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 OWNER PRIOR TO EXCAVATION.
3. 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. CONTRACTOR SHALL PERFORM TEST PITTING TO CONFIRM UNDERGROUND PIPE LOCATIONS AS DESCRIBED IN THE SPECIFICATION SECTION 01140 – SPECIAL PROVISIONS.
4. CONTRACTOR SHALL VISIT AND EXAMINE THE SITE TO FULLY UNDERSTAND ALL THE CONDITIONS PERTAINING TO THE WORK, UNDERSTAND DIFFICULTIES TO BE ENCOUNTERED, UNDERSTAND THE SCOPE OF THE REMOVAL/DEMOLITION WORK FOR ALL SYSTEMS WHETHER SHOWN OR DESCRIBED AT NO ADDITIONAL COST TO OWNER. CONTRACTOR TO VERIFY ALL DIMENSIONS, CLEARANCE ELEVATIONS, SITE FEATURES/ANCILLARY ITEMS, SERVICES, SIZES OF EXISTING PIPES AND BUILDINGS, INCLUDING DIMENSIONS, AND MISCELLANEOUS MATERIALS WITHIN THE BUILDING. BIDDERS ARE ENCOURAGED TO VISIT THE SITE BY COORDINATING WITH THE CITY OF WOBURN AS DESCRIBED IN THE INVITATION FOR BIDS. OWNER AND THE ENGINEER ARE NOT RESPONSIBLE FOR CONTRACTOR'S HEALTH AND SAFETY DURING VISITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTH AND SAFETY OF THEIR EMPLOYEES.
5. ALL STRUCTURES, SHALL BE REMOVED AND DISPOSED OF AS DETAILED IN THE CONTRACT DOCUMENTS, UNLESS OTHERWISE INDICATED BY THE ENGINEER.
6. ALL WORK UNDER THIS CONTRACT SHALL BE LIMITED TO THE LIMIT OF WORK BOUNDARIES SHOWN ON SHEET C-3.
7. EXCAVATION ON SITE SHALL BE PERFORMED AS REQUIRED FOR TEST PITTING, DEMOLITION AND UTILITY DISCONNECTION/ABANDONMENT ACTIVITIES ONLY. THE CONTRACTOR SHALL USE CLASS B BACKFILL AND GRAVEL BORROW TO BACKFILL DEMOLISHED AREAS TO MATCH SURROUNDING GRADE AND PROVIDE POSITIVE RUNOFF FROM BACKFILLED AREAS TO PREVENT PONDING IN ACCORDANCE WITH SPECIFICATION SECTION 02300-EARTHWORK.
8. DEMOLITION DEBRIS MATERIAL SHALL IMMEDIATELY BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AND RECYCLED/DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND SPECIFICATION SECTION 02220 – DEMOLITION, UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
9. ALL AREAS DISTURBED BY THE CONTRACTOR, INCLUDING INSTALLATION OF TEMPORARY FENCING AND PLACEMENT OF STRAW WATTLES, SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
10. THE CONTRACTOR SHALL CONDUCT ALL ABATEMENT/DEMOLITION ACTIVITY DURING DAYLIGHT HOURS BETWEEN 7:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY.
11. ELEVATIONS REFERENCED ARE NATIONAL GEODETIC VERTICAL DATUM (NGVD), DATUM OF 1929.
12. ABANDON/DISCONNECT ALL UTILITIES AS DETAILED IN THE CONTRACT DOCUMENTS, UNLESS OTHERWISE INDICATED BY THE ENGINEER.
13. ALL PAVED AREAS, CURBING, AND SIDEWALKS DISTURBED BY THE CONTRACTOR BEYOND THE LIMITS OF WORK, INCLUDING PLACEMENT OF CATCH BASIN PROTECTION CONTROL, SIGNAGE, AND UTILITY TERMINATIONS SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL USE EXTRA CARE TO PROTECT ADJACENT ROADWAYS (HUDSON STREET AND ARLINGTON ROAD), DRIVEWAY, SIDEWALKS AND ASSOCIATED UTILITIES.
14. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE EXISTING STORMWATER COLLECTION SYSTEM SHALL REMAIN AND THE CONTRACTOR SHALL PROTECT CATCH BASINS, STORMWATER DRAINS, AND MANHOLES PER DRAWINGS AND SPECIFICATION SECTION 01570-ENVIRONMENTAL PROTECTION.
15. THE CONTRACTOR SHALL CLEAR AND GRUB AREAS NO MORE THAN 10 FEET FROM THE BUILDING, UNLESS REQUIRED FOR DEMOLITION ACTIVITIES PER SPECIFICATION SECTION 02230 – CLEARING AND GRUBBING.
16. FOR RESULTS OF THE COMPREHENSIVE SITE SURVEY FOR ASBESTOS CONTAINING MATERIALS, SEE SPECIFICATION SECTION 02051-ASBESTOS ABATEMENT.
17. FOR RESULTS OF THE COMPREHENSIVE SITE SURVEY FOR PCB- AND DEHP-CONTAINING LIGHT BALLASTS, FLUORESCENT LIGHT/MERCURY CONTAINING VAPOR LAMP BULBS, AND OTHER HAZARDOUS WASTES, SEE SPECIFICATION SECTION 02075-UNIVERSAL AND HAZARDOUS WASTES.
18. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORKING DAY USING BACKFILLING, FENCING, OR STEEL PLATING AS PER TRENCH PERMIT REGULATIONS (520 CMR 14.00).
19. CONTRACTOR SHALL UTILIZE ONLY AREAS WITHIN THE LIMIT OF WORK FOR EMPLOYEE PARKING, VEHICLE AND EQUIPMENT STORAGE, AND TEMPORARY MATERIAL/DEBRIS STAGING PER SPECIFICATION SECTIONS 01014-SCOPE AND SEQUENCE OF WORK, 01110-CONTROL OF WORK AND MATERIALS, AND 01140-SPECIAL PROVISIONS, UNLESS OTHERWISE APPROVED BY OWNER.
20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER TRUCKS OR COORDINATE WITH OWNER AND WOBURN DEPARTMENT OF PUBLIC WORKS FOR USE OF HYDRANTS NEAR THE BUILDING DURING ALL ASBESTOS ABATEMENT AND DEMOLITION ACTIVITIES IF HYDRANTS ARE UNAVAILABLE. THE CONTRACTOR SHALL PROVIDE WATER TRUCKS, AS REQUIRED, FOR ABATEMENT ACTIVITIES AND DUST CONTROL AT NO ADDITIONAL COST TO OWNER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RELATED DUST CONTROL PER SPECIFICATION SECTION 01562-DUST CONTROL.
22. ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO ENTERING STREETS AND ROADWAYS. CONTRACTOR SHALL ENSURE THAT MATERIAL HAULING VEHICLES REMAIN ON PAVED SURFACES AS MUCH AS POSSIBLE.
24. ALL SOLID WASTE AND HAZARDOUS WASTE SHALL BE MANAGED IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
25. MISCELLANEOUS DISCREPANCIES OR OMISSIONS THAT MAY NOT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE CONTRACTOR FROM CODE COMPLIANCE.
26. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING FENCING AND GATES AND INSTALL TEMPORARY FENCING/GATES, AS SHOWN ON SHEET C-3 AND SPECIFIED IN SECTION 02821 – TEMPORARY CHAIN LINK FENCE. ACCESS SHALL BE AVAILABLE TO OWNER AND WOBURN POLICE AND FIRE DEPARTMENTS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE SITE WORK WITH OWNER AND ENGINEER. CONTRACTOR TO COORDINATE KEYS/LOCKS FOR ACCESS TO THE PROPERTY THROUGH THE OWNER. SEE CHAIN LINK FENCE AND GATE DETAIL ON SHEET D-1 FOR ADDITIONAL DETAILS.

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No.	Date	Dr.By	Ck.By	App.By	Description
A	3/27/18	DCH	DCH	DCH	ISSUED FOR BIDDING

DUANE C. HUBBS CIVIL No. 32038 REGISTERED PROFESSIONAL ENGINEER

DATE 3/27/18

40 HUDSON STREET
CITY OF WOBURN, MASSACHUSETTS
IFB 18-10 CLAPP SCHOOL DEMOLITION

ABBREVIATIONS, NOTES AND LEGEND

CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY	DSN.BY	CHK.BY	APP.BY
-	AS NOTED	IFB 18-10	2170992	NWA	NWA	BJM	DCH

G-1

FILE NO. 230-75

SHEET 2 OF 7

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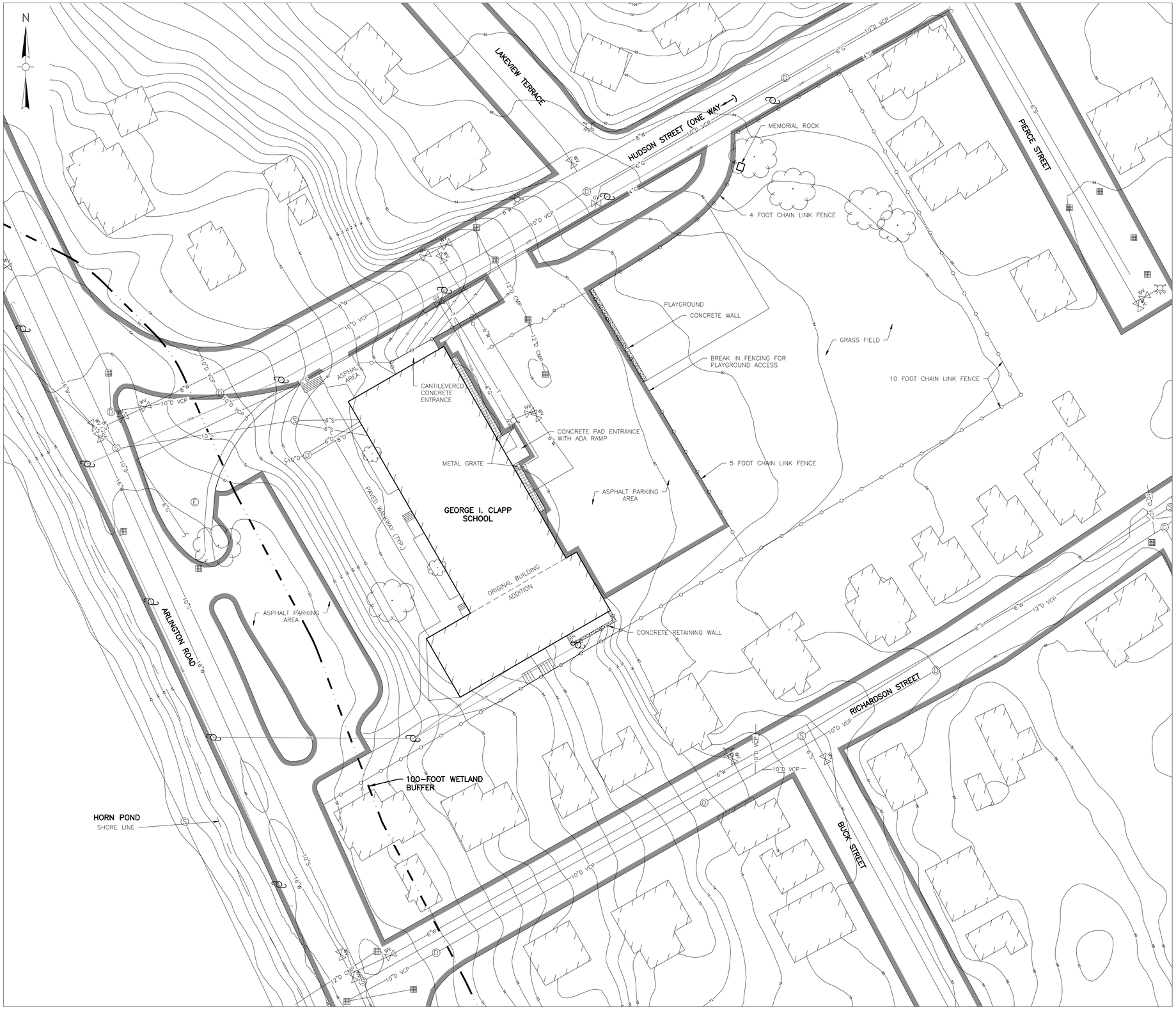
LEGEND

- CHAIN LINK FENCE
- CONCRETE WALL
- BUILDING EXTENTS
- EDGE OF ROADWAY/PARKING AREA
- TREE

NOTES:

1. EXISTING CONDITIONS SITE PLAN BASED ON "EXISTING CONDITION PLAN OF LAND" BY SAMIOTES CONSULTANTS, INC. DATED JUNE 29, 2016 WITH ADDITIONAL DETAIL FIELD LOCATED BY WESTON & SAMPSON IN JANUARY 2018.

2. FOR BUILDING INFORMATION AND DESCRIPTION SEE SPECIFICATION SECTIONS 01014 – SCOPE AND SEQUENCE OF WORK AND 02220 – DEMOLITION.



30 15 0 30 60

SCALE: 1"=30'

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No.	Date	Description	Dr.By	Ck.By	App.By
A	3/27/18	PRELIMINARY			
B					
C					
D					
E					

REGISTERED PROFESSIONAL ENGINEER

DUANE C. HAYES CIVIL No. 32038 COMMONWEALTH OF MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER

40 HUDSON STREET
CITY OF WOBURN, MASSACHUSETTS
IFB 18-10 CLAPP SCHOOL DEMOLITION

EXISTING CONDITIONS SITE PLAN

CONTRACT:	JOB NO.	DR.BY	DSN.BY	CHK.BY	APP.BY
IFB 18-10	2170992	NWA	NWA	BJM	DCH

SCALE:	CAD'D NO.	FILE NO.
AS NOTED	-	230-74

C-1

SHEET 3 OF 7

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LEGEND

- PIPE CUT/CAP/PLUG LOCATION
- UTILITY STRUCTURE/VALVE TO BE REMOVED
- CATCH BASIN PROTECTION (SEE NOTE 11)
- CUT/ABANDONED PIPE TO BE REMOVED
- LIMIT OF WORK

NOTES:

1. UTILITIES DEPICTED ON THIS DRAWING OBTAINED FROM GIS SOFTWARE AND THE "EXISTING CONDITIONS PLAN OF LAND" PREPARED BY SAMIOTES CONSULTANTS INC. IN JUNE 2016. UTILITY LOCATIONS WERE FIELD VERIFIED (WHERE ACCESSIBLE) BY WESTON AND SAMPSON IN 2018. UTILITY LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

2. CONTRACTOR SHALL NOTIFY DIGSAFE AT 1-888-344-7233 OR 811 PRIOR TO UTILITY REMOVAL AND OBTAIN A DIGSAFE NUMBER.

3. CONTRACTOR SHALL DISCONNECT 6" WATER SERVICE AT THE LOCATIONS SHOWN. REMOVE VALVE BOXES TOP SECTIONS AND COVERS AND BACKFILL WITH CLASS B BACKFILL. THE CONTRACTOR SHALL PLUG THE SERVICE PIPE AND FILL WITH CONTROLLED DENSITY FILL AND ABANDON IN PLACE IN ACCORDANCE WITH SPECIFICATION SECTION 02222 – UTILITY ABANDONMENT. REMOVE HYDRANT AND RELOCATE AS INDICATED.

4. CONTRACTOR SHALL DISCONNECT SEWER SERVICE AT THE LOCATIONS SHOWN. PLUG MANHOLE INLETS AND PLUG SERVICE PIPE TO BE ABANDONED AND FILL WITH CONTROLLED DENSITY FILL IN ACCORDANCE WITH SECTION 02222 – UTILITY ABANDONMENT.

5. CONTRACTOR SHALL DISCONNECT ROOF DRAINS AT THE LOCATIONS SHOWN. PLUG MANHOLE INLETS AND PLUG SERVICE PIPE TO BE ABANDONED AND FILL WITH CONTROLLED DENSITY FILL IN ACCORDANCE WITH SPECIFICATION SECTION 02222 – UTILITY ABANDONMENT.

6. CONTRACTOR SHALL DISCONNECT TELECOMMUNICATION CABLE AT THIS LOCATION. ABANDON IN PLACE.

7. CONTRACTOR SHALL CALL NATIONAL GRID AT 800-732-3400 TO COORDINATE THE TERMINATION AND DISCONNECTION OF GAS SERVICE AT THE LOCATION SHOWN.

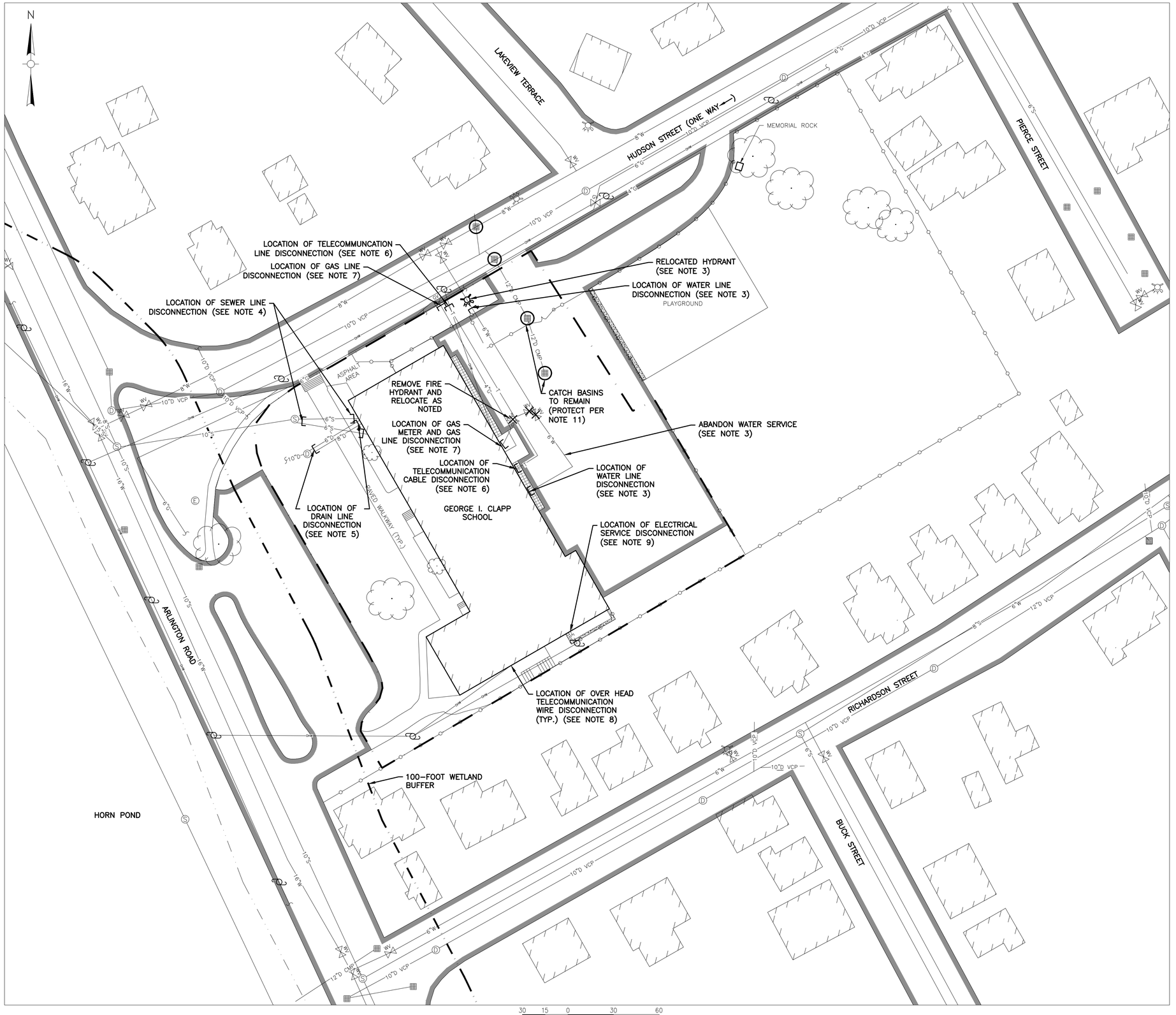
8. CONTRACTOR SHALL COORDINATE WITH VERIZON FOR THE DISCONNECTION OF OVER HEAD TELECOMMUNICATION WIRES TO BUILDING AT THE LOCATIONS SHOWN.

9. CONTRACTOR SHALL COORDINATE WITH EVERSOURCE ENERGY FOR DISCONNECTION OF ELECTRICAL SERVICE TO BUILDING AT THE LOCATION SHOWN.

10. LOCATIONS OF PIPES AND CONDUITS SHOWN ARE NOT WARRANTED TO BE CORRECT, AND OTHER PIPING/CONDUIT MAY BE ENCOUNTERED THAT IS NOT SHOWN ON THE DRAWING. CONTRACTOR SHALL ABANDON UTILITY PIPING AND DUCTBANKS ENCOUNTERED WITHIN THE LIMIT OF WORK DURING CONSTRUCTION.

11. PROTECT CATCH BASINS AND STORMWATER DRAINS WITH STRAW BALES AND SEDIMENT CONTROL FABRIC – SEE DETAILS SHEET D-1.

12. CONTRACTOR SHALL AVOID IMPACTING THE ROOT SYSTEMS OF TREES TO REMAIN (SEE SHEET C-3) DURING UTILITY DISCONNECTION ACTIVITIES.



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

3/27/18
DATE

REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH OF MASSACHUSETTS
DUANE C. HUBES
CIVIL
No. 42538
REGISTERED PROFESSIONAL ENGINEER

40 HUDSON STREET
CITY OF WOBURN, MASSACHUSETTS
IFB 18-10 CLAPP SCHOOL DEMOLITION

UTILITY DISCONNECTION PLAN

DR.BY	CHK.BY	DSN.BY	APP.BY
NWA	BJM	NWA	DCH

JOB NO.	CONTRACT:	SCALE:	CADD NO.
2170992	IFB 18-10	AS NOTED	-

C-2

FILE NO.
230-73

SHEET 4 OF 7

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LEGEND

- DEMOLISH BUILDING (SEE NOTE 11)
- REMOVE ENTRANCE PADS AND STAIRS (SEE NOTE 11)
- EXISTING FENCE
- PROPOSED CONSTRUCTION FENCE TO BE INSTALLED BY THE CONTRACTOR (SEE NOTE 3)
- LIMIT OF WORK
- EROSION/SEDIMENTATION CONTROLS (STRAW WATTLES)
- EXISTING FENCING TO BE REMOVED BY CONTRACTOR
- TREE PROTECTION (SEE DETAILS SHEET D–1)

NOTES:

1. PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CITY OF WOBURN. CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH PERMIT.

2. THE CONTRACTOR SHALL PERFORM ABATEMENT OF HAZARDOUS BUILDING MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02051 – ASBESTOS ABATEMENT AND 02075 – UNIVERSAL AND HAZARDOUS WASTES.

3. THE CONTRACTOR SHALL MAINTAIN A TEMPORARY 8–FOOT CONSTRUCTION CHAIN LINK FENCE WITH MESH FABRIC/WIND SCREEN THROUGHOUT THE PROJECT DURATION AND IN ACCORDANCE OF SPECIFICATION SECTION 02821 – TEMPORARY CHAIN LINK FENCE. CONSTRUCTION FENCING SHALL CONSIST OF EXISTING FENCING AND PROPOSED FENCING AS NEEDED TO FULLY SECURE THE WORK AREA. EXISTING FENCE ALIGNMENT SHOWN IS APPROXIMATE AND CONTRACTOR MAY ADJUST ALIGNMENT AS NECESSARY TO COMPLETE THE WORK OF THE PROJECT WHILE ADEQUATELY SECURING THE WORK AREA.

4. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION/SEDIMENTATION CONTROL MEASURES AS INDICATED AND IN ACCORDANCE WITH SPECIFICATION SECTION 01570 – ENVIRONMENTAL PROTECTION. CONTRACTOR SHALL PROTECT CATCH BASINS WITH STRAW BALES AND SEDIMENT CONTROL FABRIC.

5. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS FOR TEMPORARY ELECTRICAL UTILITY SERVICE. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL TEMPORARY WIRING, SWITCHES, CONNECTIONS, METERS, AND SERVICE. THE CONTRACTOR SHALL INSTALL TEMPORARY ELECTRICAL SERVICE, AS NEEDED, AT A LOCATION APPROVED BY THE ENGINEER AND OWNER. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY SUPPLEMENTAL POWER AND LIGHTING NEEDED TO PERFORM WORK. DEMOLITION CONTRACTOR IS RESPONSIBLE TO DISCONNECT AND REMOVE ALL TEMPORARY LIGHTING AND POWER BACK TO THE POINT OF SOURCE.

6. THE CONTRACTOR SHALL PROTECT ALL UTILITIES DESIGNATED TO REMAIN AND ADJACENT PROPERTIES FROM DAMAGE AND UNDERMINING DURING DEMOLITION ACTIVITIES BY MEANS AND METHODS ACCEPTABLE TO OWNER AND ENGINEER.

7. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND USE OF A TEMPORARY WATER SERVICE FOR DEMOLITION ACTIVITIES AND FIRE PROTECTION WITH THE WOBURN WATER DEPARTMENT AND SHALL PROVIDE REQUIRED BACKFLOW PREVENTER(S) AND METERS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. DEMOLITION CONTRACTOR SHALL PROVIDE A TEMPORARY FIRE SERVICE THROUGHOUT THE DURATION OF DEMOLITION ACTIVITIES ACCEPTABLE TO ALL LOCAL AUTHORITIES HAVING JURISDICTION.

8. THE CONTRACTOR SHALL CLEAR SHRUBS AND TREES WITHIN 10 FEET OF THE BUILDING TO BE DEMOLISHED, OR AS REQUIRED FOR DEMOLITION ACTIVITIES.

9. PRIOR TO DEMOLITION OF THE BUILDING, THE DEMOLITION CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES HAVE BEEN DISCONNECTED TO THE BUILDING. DEMOLITION CONTRACTOR SHALL LOCATE, ABANDON/REMOVE, AND DISPOSE OF SUCH PRIOR TO COMMENCING WORK. UTILITY DEMOLITION/ABANDONMENT SHALL BE AS INDICATED ON SHEET C–2 – UTILITY DISCONNECTION PLAN.

10. ALL BUILDING CONTENTS SHALL BE REMOVED AND TRANSPORTED TO APPROPRIATE DISPOSAL OR RECYCLING FACILITIES AS SPECIFIED IN SPECIFICATION SECTION 02220–DEMOLITION OR AS SPECIFIED IN THE CONTRACTOR'S SUBMITTAL FOR DEMOLITION PLAN. MECHANICAL EQUIPMENT, HVAC SYSTEMS, BOILERS, PIPING, STORAGE TANKS, AND MISCELLANEOUS DEBRIS AND OTHER BUILDING CONTENTS NOT SHOWN ON THIS SHEET SHALL BE REMOVED, DISPOSED OR RECYCLED PER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AND SECTION 02220 – DEMOLITION.

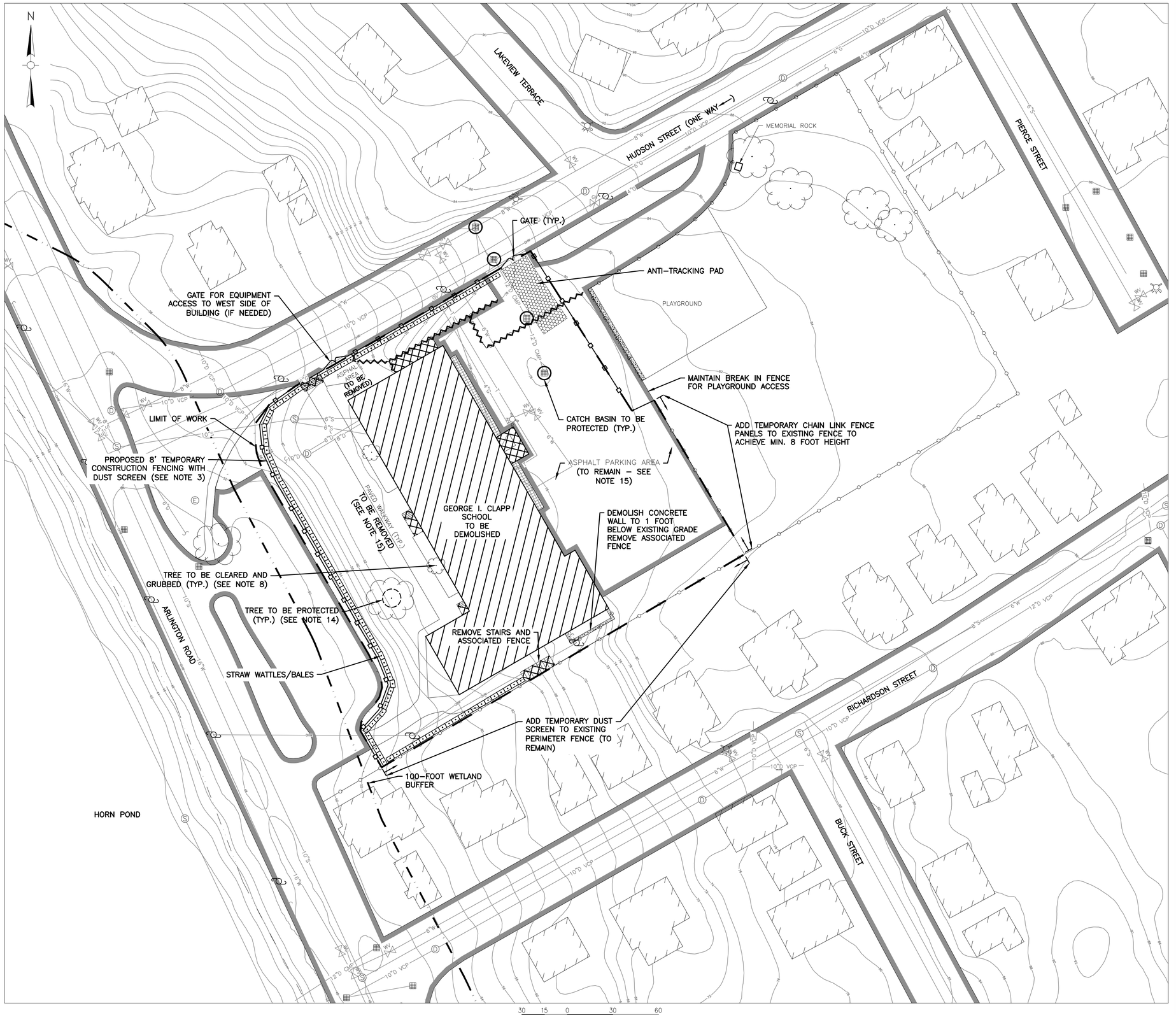
11. THE BUILDING SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING SUBSURFACE STRUCTURES (BASEMENTS, CRAWL SPACES, FOUNDATIONS, FLOOR SLABS, RETAINING WALLS, FOOTINGS, AND FROST WALLS). THE CONTRACTOR SHALL ALSO DEMOLISH AND REMOVE ALL IMPROVEMENTS AND APPURTENANCES ASSOCIATED WITH THE STRUCTURES (E.G., PLATFORMS, STAIRS, PORCHES, BUILD–OUTS, ENTRANCE WAYS, RETAINING WALLS, FENCING, ANCILLARY ITEMS, ETC.) THAT MAY EXIST BEYOND THE HATCHING SHOWN, AS INDICATED ON THE DRAWING. DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION SECTION 02220–DEMOLITION.

12. THE CONTRACTOR SHALL BACKFILL, COMPACT AND GRADE DEMOLISHED AREAS/VOIDS WITH BACKFILL PER SPECIFICATION SECTION 02300–EARTHWORK. CONTRACTOR MAY CRUSH CLEAN (UNCOATED) CONCRETE DEMOLITION DEBRIS TO SIZE 3–INCH MINUS AND USE FOR BACKFILLING PURPOSES. BACKFILL BUILDING FOOTPRINT TO A MAXIMUM SLOPE OF 3:1 AND TO WITHIN 4 INCHES OF EXISTING GRADE AT THE FILL PERIMETER. PLACE 4 INCHES OF LOAM AND SEED IN ACCORDANCE WITH SPECIFICATION SECTION 02920 – LOAMING AND SEEDING.

13. ALL HAULING VEHICLES/TRUCKS SHALL EXIT FROM GATE WITH ANTI–TRACKING PAD.

14. PROTECT TREES AS NOTED WITH FENCING PER DETAIL SHEET D–1 AND SPECIFICATION SECTION 01110 – CONTROL OF WORK AND MATERIALS.

15. CONTRACTOR SHALL REMOVE ALL PAVED WALKWAYS WITHIN THE LIMIT OF WORK. ASPHALT PARKING AREA TO REMAIN.



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

3/27/18
DATE

REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH OF MASSACHUSETTS
DUANE C. HITTES
CIVIL
No. 32038
REGISTERED PROFESSIONAL ENGINEER

40 HUDSON STREET
CITY OF WOBURN, MASSACHUSETTS
IFB 18-10 CLAPP SCHOOL DEMOLITION

DEMOLITION PLAN

DSN.BY	DR.BY	CHK.BY	APP.BY
NWA	NWA	BJM	DCH

CADD NO.	SCALE:	CONTRACT:	JOB NO.
-	AS NOTED	IFB 18-10	21709.92

C-3

FILE NO. 230-72

SHEET 5 OF 7

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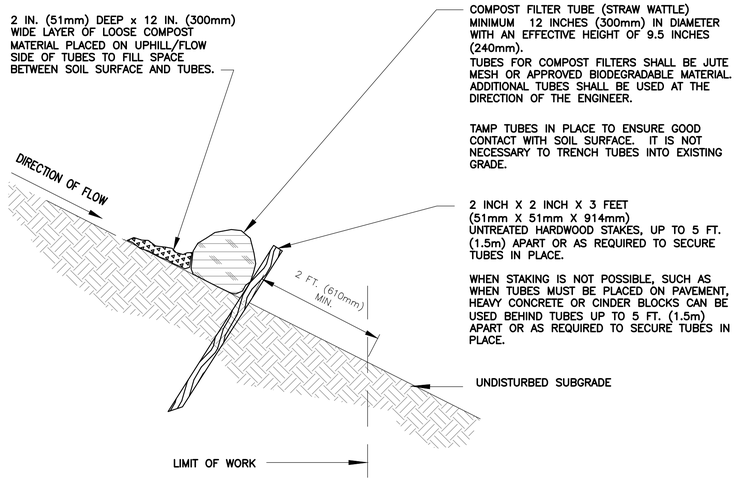
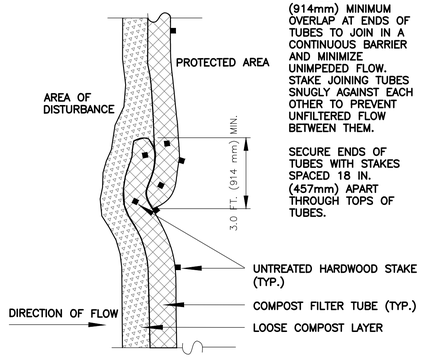


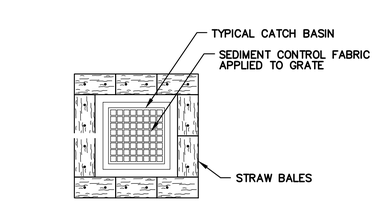


PLAN VIEW – JOIN DETAIL

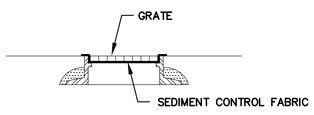
GENERAL NOTES:

1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW. CURVE ENDS UPHILL TO PREVENT DIVERSION OF UNFILTERED RUN–OFF.
3. TUBES CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.
4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN–OFF.

STRAW WATTLE DETAIL
NOT TO SCALE



CATCH BASIN PROTECTION DETAIL
N.T.S.



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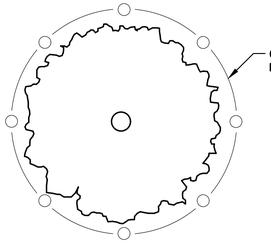
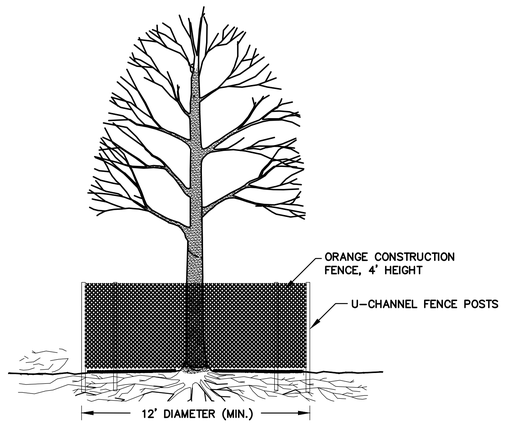


PLAN VIEW



SECTION VIEW

TREE PROTECTION DETAIL
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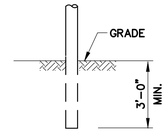
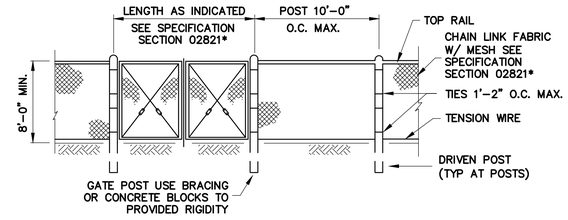


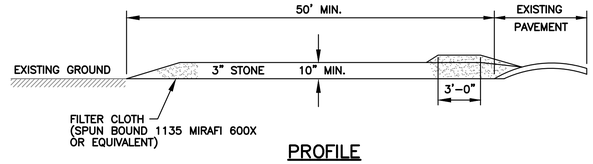
NOTES:
1. SEE SHEET C–3 AND SPECIFICATION SECTION 02821*.
2. PORTABLE/TEMPORARY CHAIN LINK FENCE IS ALLOWABLE.

DRIVEN POST DETAIL
N.T.S.

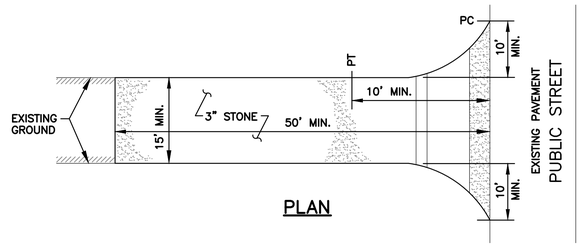


TEMPORARY CHAIN LINK FENCE AND GATE DETAIL
N.T.S.

* SPECIFICATION SECTION 02821–TEMPORARY CHAIN LINK FENCE



PROFILE



PLAN

NOTES:
1. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
2. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
3. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
4. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
6. STONE SHALL BE REMOVED AT THE CONCLUSION OF PROJECT AND ACCUMULATED SEDIMENT DISPOSED OF. REMOVAL OF STONE SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

STABILIZED CONSTRUCTION ENTRANCE (ANTI–TRACKING PAD)
N.T.S.

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DCH	BJM	NWA	NWA	2170992	IFB 18-10	AS NOTED	DETAILS	230-71

D-1

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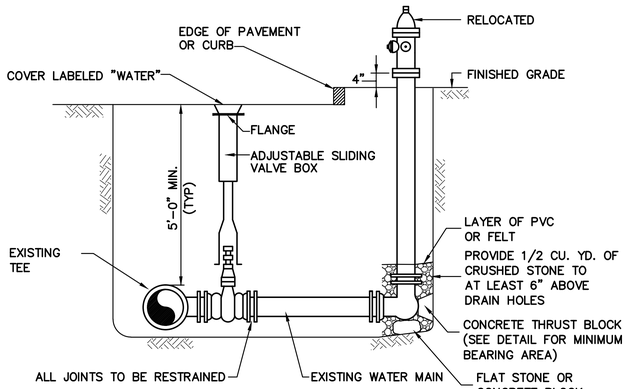

NOTES:

1. USE TWO 6" BENDS OR OFFSET ON LATERAL TO ACHIEVE REQUIRED HYDRANT ELEVATION IF NECESSARY

HYDRANT RELOCATION DETAIL

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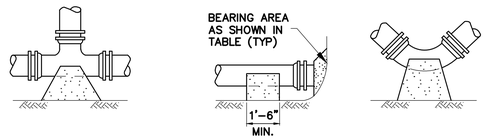

TEE DETAIL (PLAN VIEW)

CAP DETAIL (PLUG SIMILAR) (SECTION VIEW)

BEND DETAIL (PLAN VIEW)

TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS				
SIZE OF MAIN	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS AND WYES	22-1/2° BENDS	11-1/4° BENDS
6", 8"	5	4	2	2
10", 12"	12	9	5	2

NOTES:

1. CONCRETE THRUST RESTRAINT SHALL ONLY BE USED WHERE OTHER MEANS OF RESTRAINT ARE NOT FEASIBLE.
2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS

CONCRETE THRUST RESTRAINT FOR FITTINGS

N.T.S.

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DETAILS	AS NOTED	IFB 18-10	2170992	NWA	NWA	BJM	DCH

D-2

FILE NO. 230-70

SHEET 7 OF 7

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