Schofield Elementary School - Renovations

27 CEDAR STREET
WELLESLEY, MA 02481

ZBA SITE PLAN REVIEW & SPECIAL PERMIT | **7-14-2014** | **PROJECT # 13097.00**

OWNER:
TOWN OF WELLESLEY
525 WASHINGTON STREET
WELLESLEY, MA 02482

APPLICANT:
MATTHEW KING
TOWN OF WELLESLEY PERMANENT BUILDING COMMITTEE
525 WASHINGTON STREET, 3RD FLOOR
WELLESLEY, MA 02482
PHONE: (781) 431-1019 x2206

CIVIL ENGINEER:
CHRISTOPHER RACINE
SYMMES MAINI & MCKEE ASSOCIATES
1000 MASSACHUSETTS AVE
CAMBRIDGE, MA 02138
PHONE: (617) 520-9428

ARCHITECT:
JENNIFER SOUCY
SYMMES MAINI & MCKEE ASSOCIATES
1000 MASSACHUSETTS AVE
CAMBRIDGE, MA 02138
PHONE: (617) 520-9261

CONSTRUCTION MANAGER:
STEVEN AGOSTINI
AGONSTINI CONSTRUCTION CO, INC.
241 NARRAGANSETT PARK DRIVE
EAST PROVIDENCE, RI 02916
PHONE: (401) 431-1200 x235

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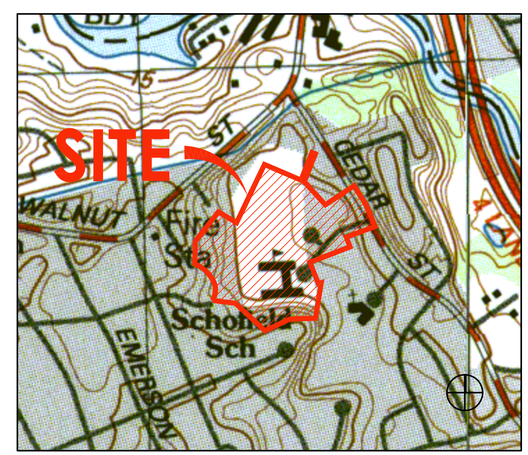

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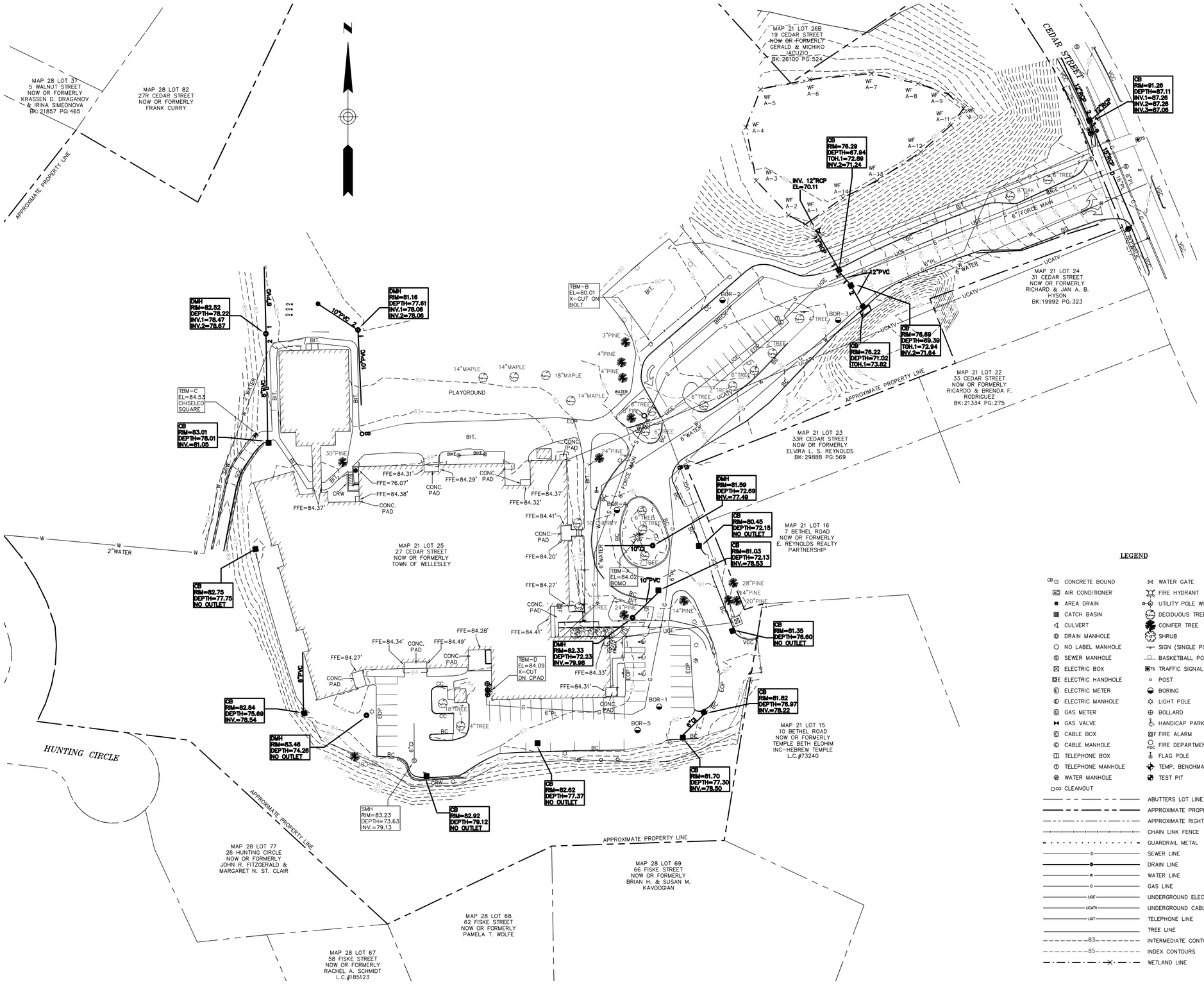
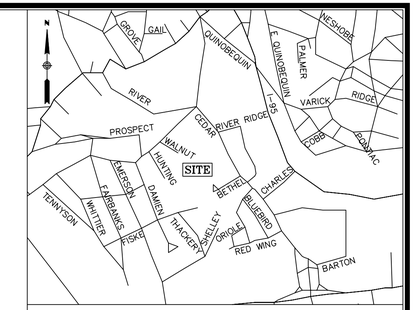
ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS





LOCUS MAP
(N.T.S.)

NOTES

1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP BETWEEN MARCH 5, 2014 AND MARCH 12, 2014.

2. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83).

3. THE VERTICAL DATUM SHOWN HEREON REFERENCES THE TOWN OF WELLESLEY VERTICAL DATUM.

4. THE PROPERTY LINES SHOWN HEREON ARE COMPILED FROM RECORD DOCUMENTS AND DO NOT REFLECT AN ACTUAL ON THE GROUND FIELD SURVEY AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE.

PLAN REFERENCES

1. ASSESSORS MAP NUMBERS 21 AND 28 ON FILE AT THE TOWN OF WELLESLEY ASSESSORS OFFICE.

UTILITY STATEMENTS

THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICES OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

LEGEND

- CB CONCRETE BOUND
- AC AIR CONDITIONER
- AREA DRAIN
- CATCH BASIN
- CULVERT
- DRAIN MANHOLE
- NO LABEL MANHOLE
- SEWER MANHOLE
- ELECTRIC BOX
- E ELECTRIC HANDHOLE
- E ELECTRIC METER
- E ELECTRIC MANHOLE
- G GAS METER
- GAS VALVE
- C CABLE BOX
- C CABLE MANHOLE
- T TELEPHONE BOX
- T TELEPHONE MANHOLE
- W WATER MANHOLE
- CO CLEANOUT
- WG WATER GATE
- FH FIRE HYDRANT
- UTILITY POLE WITH LIGHT AND RISER
- DECIDUOUS TREE
- CONIFER TREE
- SHRUB
- SIGN (SINGLE POSTED)
- BASKETBALL POLE
- TS TRAFFIC SIGNAL
- POST
- BORING
- LIGHT POLE
- BOLLARD
- HANDICAP PARKING
- F FIRE ALARM
- FDC FIRE DEPARTMENT CONNECTION
- FLAG POLE
- TEMP. BENCHMARK
- TEST PIT
- ABUTTERS LOT LINE
- APPROXIMATE PROPERTY LINE
- APPROXIMATE RIGHT OF WAY
- CHAIN LINK FENCE
- GUARDRAIL METAL
- S SEWER LINE
- D DRAIN LINE
- W WATER LINE
- G GAS LINE
- UGE UNDERGROUND ELECTRIC
- UCATV UNDERGROUND CABLE
- UGT TELEPHONE LINE
- TREE LINE
- 83 INTERMEDIATE CONTOURS
- 85 INDEX CONTOURS
- WETLAND LINE

CERTIFICATION:

COMMONWEALTH OF MASSACHUSETTS
DARREN J. HARDY
NO. 48385
REGISTERED PROFESSIONAL LAND SURVEYOR

DARREN J. HARDY, P.L.S.
REG. NO. 48385
WSP USA, CORP.

DATE: MAY 20, 2014

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Revision:	ADJUSTED ELEVATIONS FROM NAVD 88 TO THE TOWN OF WELLESLEY VERTICAL DATUM.	05/20/14

EXISTING CONDITIONS PLAN
SCHOFIELD ELEMENTARY SCHOOL
WELLESLEY, MASSACHUSETTS

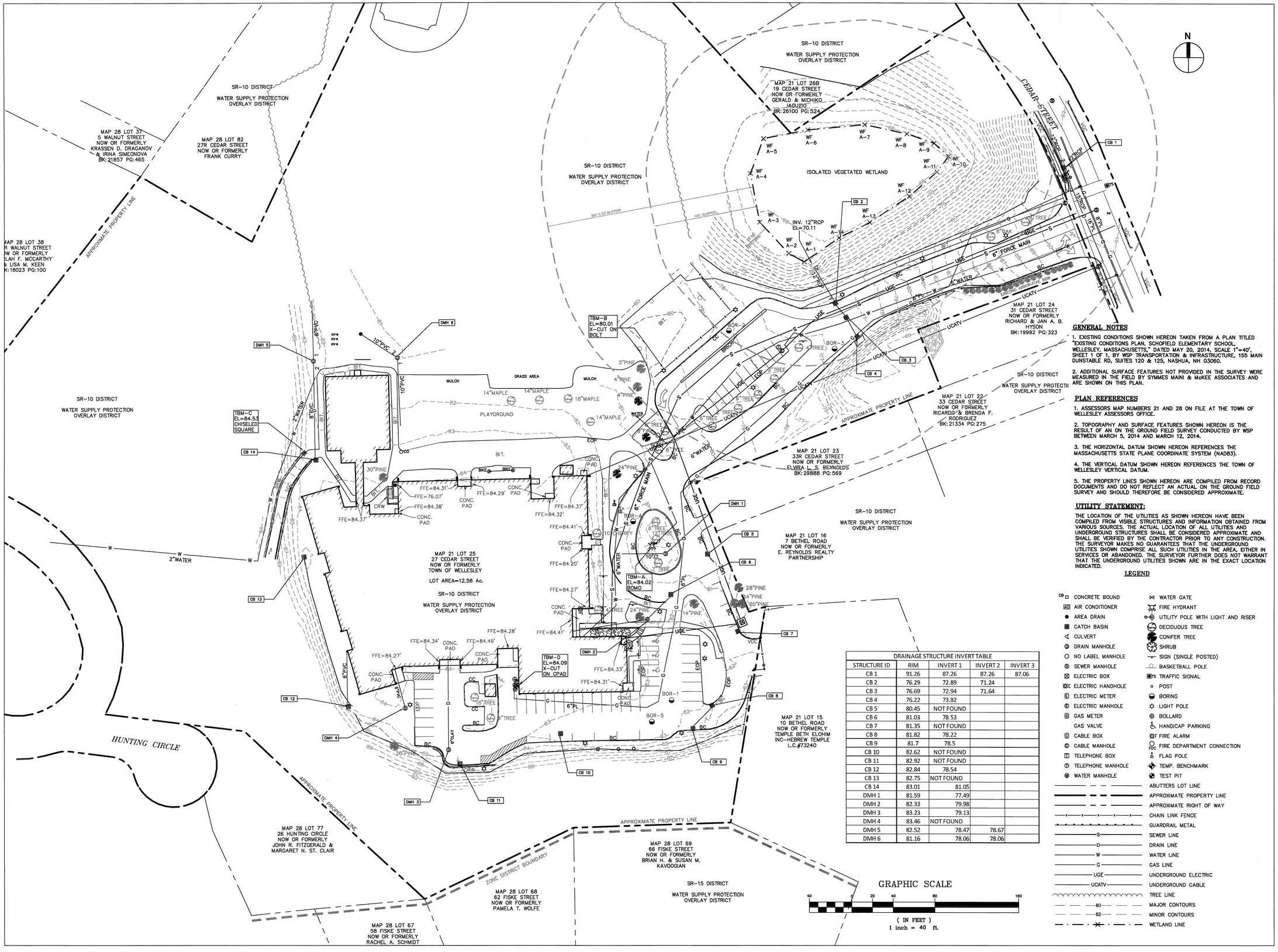
PREPARED FOR
SMMA

WSP
Transportation & Infrastructure

155 Main Dunstable Rd. Suites 120 & 125 • Nashua, NH 03060 • 603.595.7900
www.wspgroup.com

Drawn By	MS	Date	Job No.
Surveyed By	WP,TO,RC	APRIL 9, 2014	1430014
Checked By	DJH	Scale	Sheet No.
Book No.	N-239A	1" = 40'	1 OF 1

1430014-SCHOFIELD-1.dwg



DRAINAGE STRUCTURE INVERT TABLE				
STRUCTURE ID	RIM	INVERT 1	INVERT 2	INVERT 3
CB 1	91.26	87.26	87.26	87.06
CB 2	76.29	72.89	71.24	
CB 3	76.69	72.94	71.64	
CB 4	76.22	73.82		
CB 5	80.45	NOT FOUND		
CB 6	81.03	78.53		
CB 7	81.35	NOT FOUND		
CB 8	81.82	78.22		
CB 9	81.7	78.5		
CB 10	82.62	NOT FOUND		
CB 11	82.92	NOT FOUND		
CB 12	82.84	78.54		
CB 13	82.75	NOT FOUND		
CB 14	83.01	81.05		
DMH 1	81.59	77.49		
DMH 2	82.33	79.98		
DMH 3	83.23	79.13		
DMH 4	83.46	NOT FOUND		
DMH 5	82.52	78.47	78.67	
DMH 6	81.16	78.06	78.06	

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN HEREON TAKEN FROM A PLAN TITLED "EXISTING CONDITIONS PLAN, SCHOFIELD ELEMENTARY SCHOOL, WELLESLEY, MASSACHUSETTS," DATED MAY 20, 2014, SCALE 1"=40', SHEET 1 OF 1, BY WSP TRANSPORTATION & INFRASTRUCTURE, 155 MAIN DUNSTABLE RD, SUITES 120 & 125, NASHUA, NH 03060.

2. ADDITIONAL SURFACE FEATURES NOT PROVIDED IN THE SURVEY WERE MEASURED IN THE FIELD BY SYMMES MAINI & McKEE ASSOCIATES AND ARE SHOWN ON THIS PLAN.

PLAN REFERENCES

1. ASSESSORS MAP NUMBERS 21 AND 28 ON FILE AT THE TOWN OF WELLESLEY ASSESSORS OFFICE.

2. TOPOGRAPHY AND SURFACE FEATURES SHOWN HEREON IS THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY WSP BETWEEN MARCH 5, 2014 AND MARCH 12, 2014.

3. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83).

4. THE VERTICAL DATUM SHOWN HEREON REFERENCES THE TOWN OF WELLESLEY VERTICAL DATUM.

5. THE PROPERTY LINES SHOWN HEREON ARE COMPILED FROM RECORD DOCUMENTS AND DO NOT REFLECT AN ACTUAL ON THE GROUND FIELD SURVEY AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE.

UTILITY STATEMENT:

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- ELECTRIC MANHOLE
- GAS METER
- GAS VALVE
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- CHAIN LINK FENCE
- GUARDRAIL METAL
- SEWER LINE
- DRAIN LINE
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND CABLE
- TREE LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- WETLAND LINE

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

SCALE	1" = 40'
DRAWN BY	CJR
CHECK BY	
PROJ.ARCH./ENGR.	CJR
PROJ. MGR.	JGS
JOB NO.	13097.00

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EXISTING CONDITIONS PLAN

C-102

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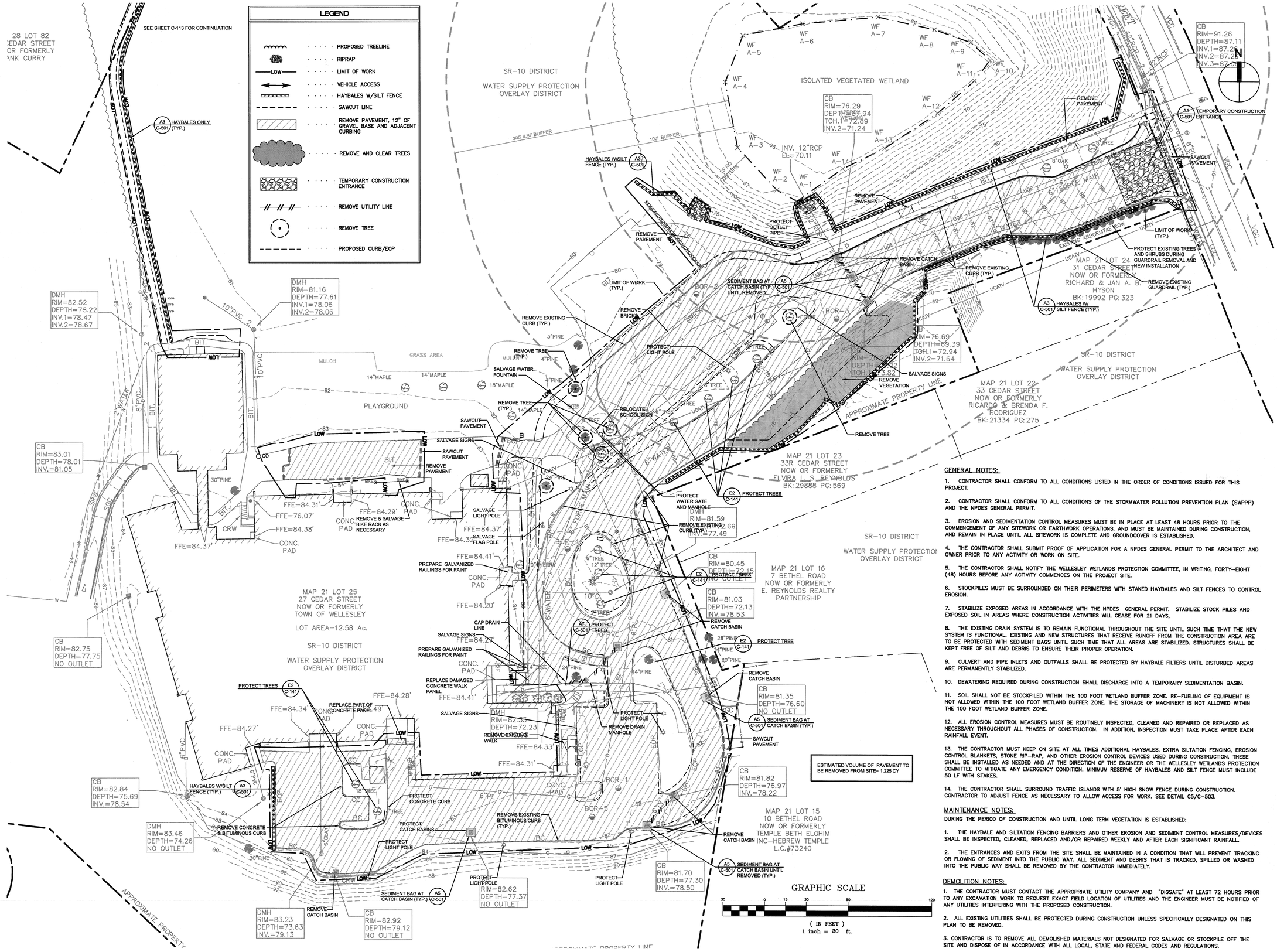
COMMONWEALTH OF MASSACHUSETTS
JOHN C. HART
CIVIL
No. 36738
7/14/14
REGISTERED PROFESSIONAL ENGINEER

Schofield Elementary School Renovations

27 Cedar Street
Wellesley, MA



ESTIMATED VOLUME OF PAVEMENT TO BE REMOVED FROM SITE= 1,225 CY

GENERAL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL CONDITIONS LISTED IN THE ORDER OF CONDITIONS ISSUED FOR THIS PROJECT.

2. CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE NPDES GENERAL PERMIT.

3. EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY SITEWORK OR EARTHWORK OPERATIONS, AND MUST BE MAINTAINED DURING CONSTRUCTION, AND REMAIN IN PLACE UNTIL ALL SITEWORK IS COMPLETE AND GROUNDCOVER IS ESTABLISHED.

4. THE CONTRACTOR SHALL SUBMIT PROOF OF APPLICATION FOR A NPDES GENERAL PERMIT TO THE ARCHITECT AND OWNER PRIOR TO ANY ACTIVITY OR WORK ON SITE.

5. THE CONTRACTOR SHALL NOTIFY THE WELLESLEY WETLANDS PROTECTION COMMITTEE, IN WRITING, FORTY-EIGHT (48) HOURS BEFORE ANY ACTIVITY COMMENCES ON THE PROJECT SITE.

6. STOCKPILES MUST BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAYBALES AND SILT FENCES TO CONTROL EROSION.

7. STABILIZE EXPOSED AREAS IN ACCORDANCE WITH THE NPDES GENERAL PERMIT. STABILIZE STOCK PILES AND EXPOSED SOIL IN AREAS WHERE CONSTRUCTION ACTIVITIES WILL CEASE FOR 21 DAYS,

8. THE EXISTING DRAIN SYSTEM IS TO REMAIN FUNCTIONAL THROUGHOUT THE SITE UNTIL SUCH TIME THAT THE NEW SYSTEM IS FUNCTIONAL. EXISTING AND NEW STRUCTURES THAT RECEIVE RUNOFF FROM THE CONSTRUCTION AREA ARE TO BE PROTECTED WITH SEDIMENT BAGS UNTIL SUCH TIME THAT ALL AREAS ARE STABILIZED. STRUCTURES SHALL BE KEPT FREE OF SILT AND DEBRIS TO ENSURE THEIR PROPER OPERATION.

9. CULVERT AND PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

10. DEWATERING REQUIRED DURING CONSTRUCTION SHALL DISCHARGE INTO A TEMPORARY SEDIMENTATION BASIN.

11. SOIL SHALL NOT BE STOCKPILED WITHIN THE 100 FOOT WETLAND BUFFER ZONE. RE-FUELING OF EQUIPMENT IS NOT ALLOWED WITHIN THE 100 FOOT WETLAND BUFFER ZONE. THE STORAGE OF MACHINERY IS NOT ALLOWED WITHIN THE 100 FOOT WETLAND BUFFER ZONE.

12. ALL EROSION CONTROL MEASURES MUST BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION MUST TAKE PLACE AFTER EACH RAINFALL EVENT.

13. THE CONTRACTOR MUST KEEP ON SITE AT ALL TIMES ADDITIONAL HAYBALES, EXTRA SILTATION FENCING, EROSION CONTROL BLANKETS, STONE RIP-RAP, AND OTHER EROSION CONTROL DEVICES USED DURING CONSTRUCTION. THESE SHALL BE INSTALLED AS NEEDED AND AT THE DIRECTION OF THE ENGINEER OR THE WELLESLEY WETLANDS PROTECTION COMMITTEE TO MITIGATE ANY EMERGENCY CONDITION. MINIMUM RESERVE OF HAYBALES AND SILT FENCE MUST INCLUDE 50 LF WITH STAKES.

14. THE CONTRACTOR SHALL SURROUND TRAFFIC ISLANDS WITH 5' HIGH SNOW FENCE DURING CONSTRUCTION. CONTRACTOR TO ADJUST FENCE AS NECESSARY TO ALLOW ACCESS FOR WORK. SEE DETAIL C5/C-503.

MAINTENANCE NOTES:

DURING THE PERIOD OF CONSTRUCTION AND UNTIL LONG TERM VEGETATION IS ESTABLISHED:

1. THE HAYBALE AND SILTATION FENCING BARRIERS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES/DEVICES SHALL BE INSPECTED, CLEANED, REPLACED AND/OR REPAIRED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL.

2. THE ENTRANCES AND EXITS FROM THE SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO THE PUBLIC WAY. ALL SEDIMENT AND DEBRIS THAT IS TRACKED, SPILLED OR WASHED INTO THE PUBLIC WAY SHALL BE REMOVED BY THE CONTRACTOR IMMEDIATELY.

DEMOLITION NOTES:

1. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER MUST BE NOTIFIED OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.

2. ALL EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION UNLESS SPECIFICALLY DESIGNATED ON THIS PLAN TO BE REMOVED.

3. CONTRACTOR IS TO REMOVE ALL DEMOLISHED MATERIALS NOT DESIGNATED FOR SALVAGE OR STOCKPILE OFF THE SITE AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.

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COMMONWEALTH OF MASSACHUSETTS
JOHN C. HART
CIVIL
No. 36738
REGISTERED PROFESSIONAL ENGINEER

Schofield Elementary School Renovations

27 Cedar Street
Wellesley, MA

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

SCALE	1" = 30'
DRAWN BY	CJR
CHECK BY	
PROJ.ARCH./ENGR.	CJR
PROJ. MGR.	JGS
JOB NO.	13097.00

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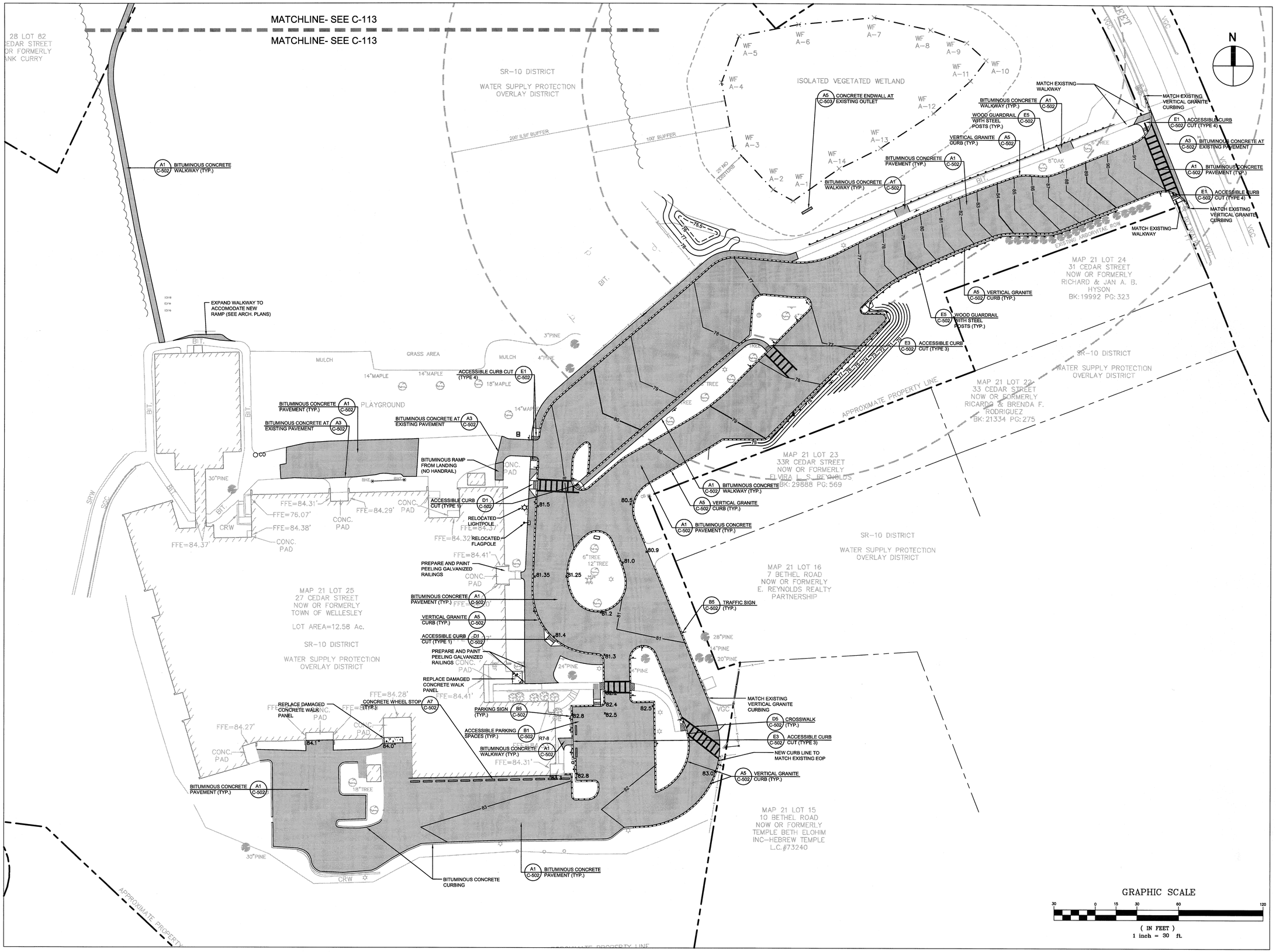
SITE PREPARATION PLAN

C-111



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SITE PLAN DEVELOPMENT I

C-112

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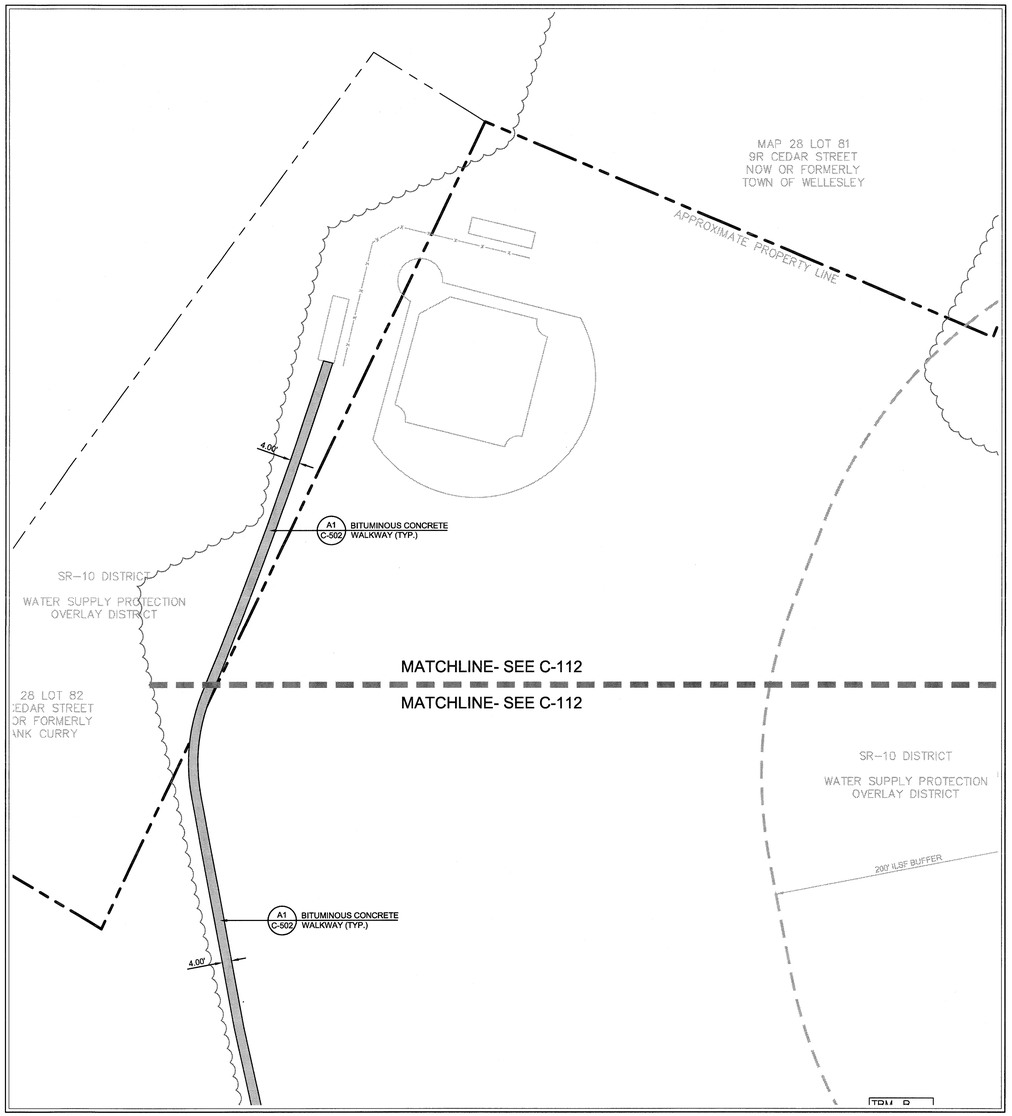
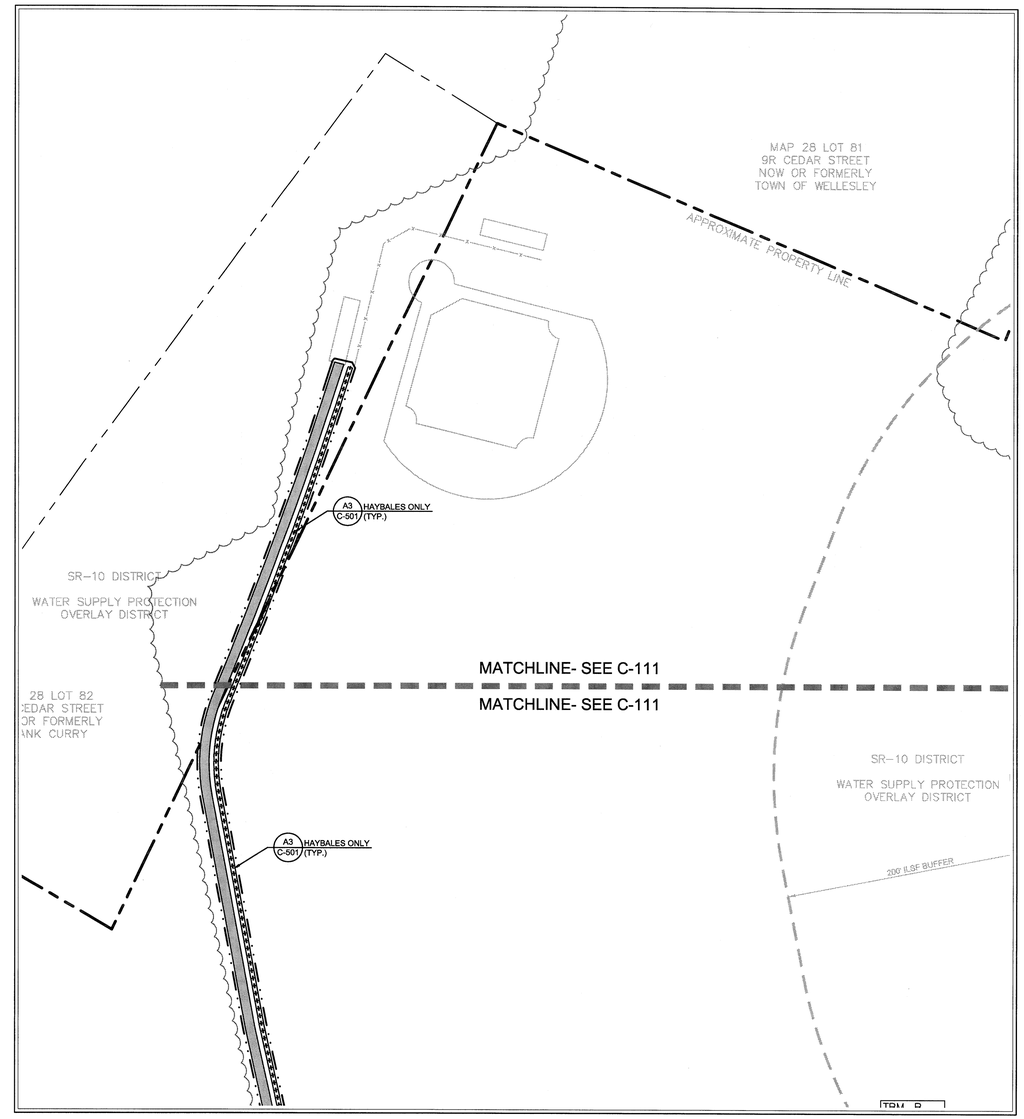


1 SITE DEVELOPMENT PLAN
1"=30'



2 SITE PREPARATION PLAN
1"=30'

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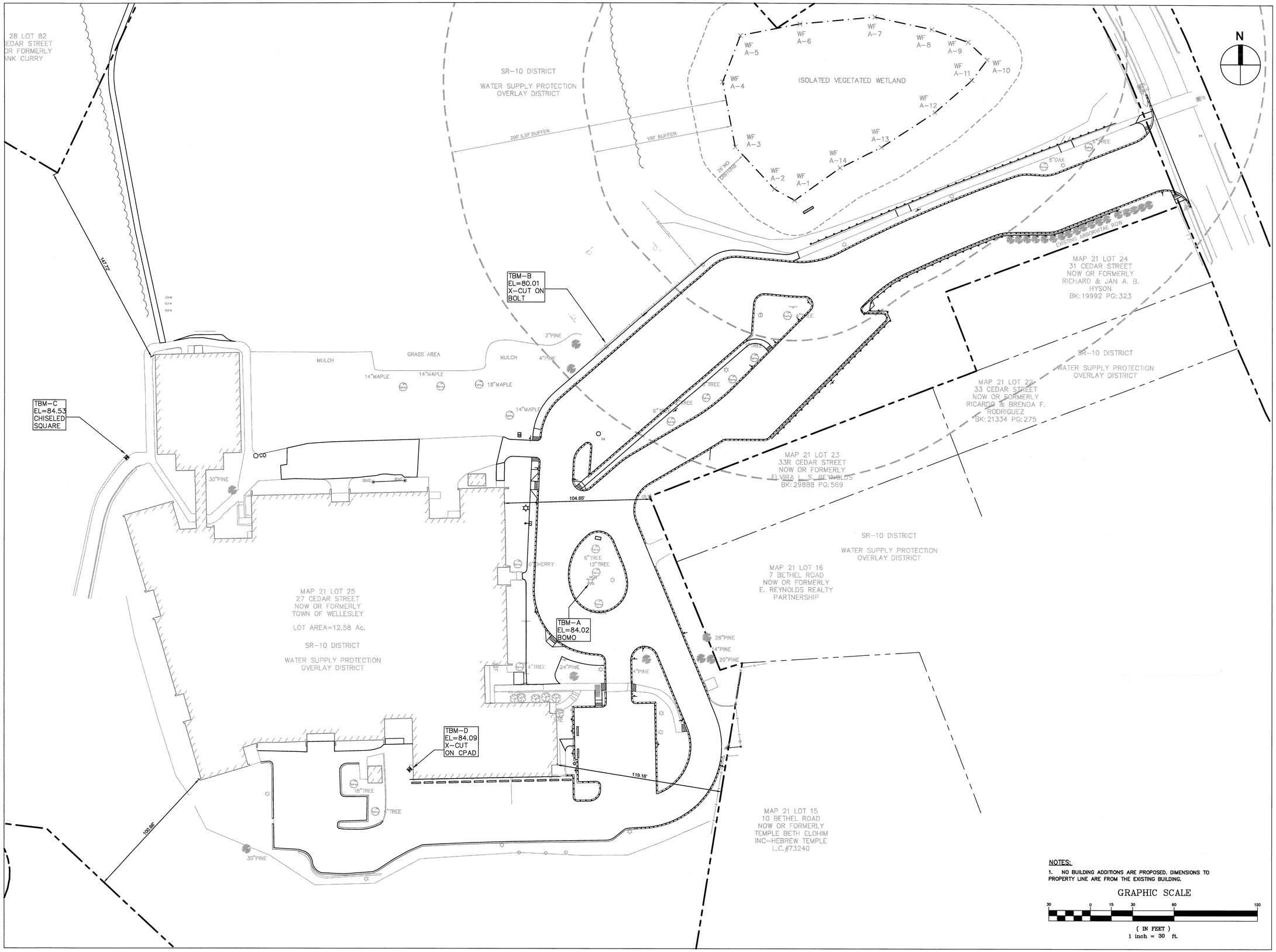
SITE PLAN DEVELOPMENT II

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

C-113



NOTES:

1. NO BUILDING ADDITIONS ARE PROPOSED. DIMENSIONS TO PROPERTY LINE ARE FROM THE EXISTING BUILDING.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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COMMONWEALTH OF MASSACHUSETTS
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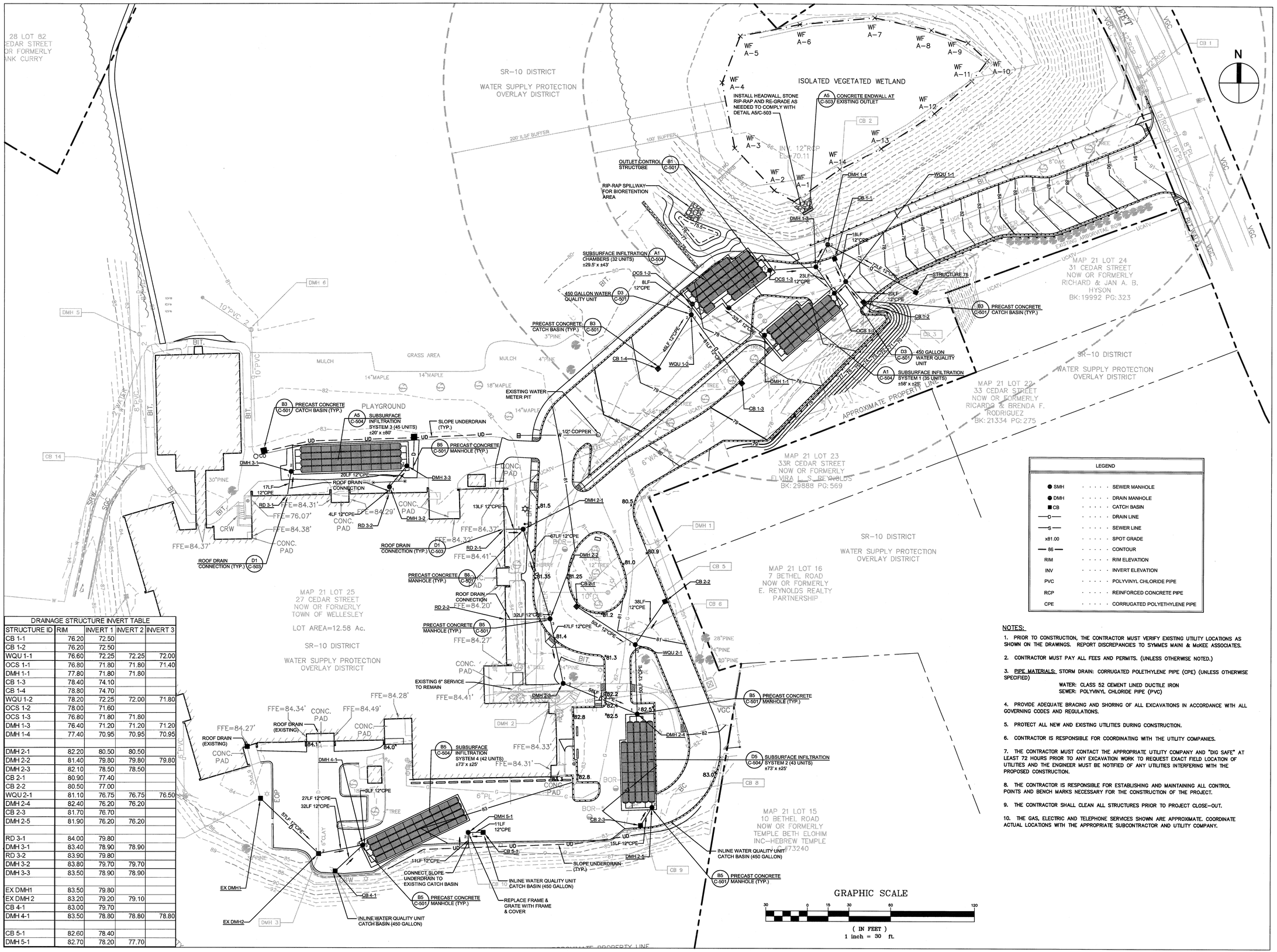
PLOT PLAN

C-114



DRAINAGE STRUCTURE INVERT TABLE				
STRUCTURE ID	RIM	INVERT 1	INVERT 2	INVERT 3
CB 1-1	76.20	72.50		
CB 1-2	76.20	72.50		
WQU 1-1	76.60	72.25	72.25	72.00
OCS 1-1	76.80	71.80	71.80	71.40
DMH 1-1	77.80	71.80	71.80	
CB 1-3	78.40	74.10		
CB 1-4	78.80	74.70		
WQU 1-2	78.20	72.25	72.00	71.80
OCS 1-2	78.00	71.60		
OCS 1-3	76.80	71.80	71.80	
DMH 1-3	76.40	71.20	71.20	71.20
DMH 1-4	77.40	70.95	70.95	70.95
DMH 2-1	82.20	80.50	80.50	
DMH 2-2	81.40	79.80	79.80	79.80
DMH 2-3	82.10	78.50	78.50	
CB 2-1	80.90	77.40		
CB 2-2	80.50	77.00		
WQU 2-1	81.10	76.75	76.75	76.50
DMH 2-4	82.40	76.20	76.20	
CB 2-3	81.70	76.70		
DMH 2-5	81.90	76.20	76.20	
RD 3-1	84.00	79.80		
DMH 3-1	83.40	78.90	78.90	
RD 3-2	83.90	79.80		
DMH 3-2	83.80	79.70	79.70	
DMH 3-3	83.50	78.90	78.90	
EX DMH1	83.50	79.80		
EX DMH 2	83.20	79.20	79.10	
CB 4-1	83.00	79.70		
DMH 4-1	83.50	78.80	78.80	78.80
CB 5-1	82.60	78.40		
DMH 5-1	82.70	78.20	77.70	

NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON THE DRAWINGS. REPORT DISCREPANCIES TO SYMMES MAINI & McKEE ASSOCIATES.
2. CONTRACTOR MUST PAY ALL FEES AND PERMITS. (UNLESS OTHERWISE NOTED.)
3. PIPE MATERIALS: STORM DRAIN: CORRUGATED POLETHYLENE PIPE (CPE) (UNLESS OTHERWISE SPECIFIED)
   WATER: CLASS 52 CEMENT LINED DUCTILE IRON
   SEWER: POLYVINYL CHLORIDE PIPE (PVC)
4. PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS.
5. PROTECT ALL NEW AND EXISTING UTILITIES DURING CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES.
7. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER MUST BE NOTIFIED OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.
9. THE CONTRACTOR SHALL CLEAN ALL STRUCTURES PRIOR TO PROJECT CLOSE-OUT.
10. THE GAS, ELECTRIC AND TELEPHONE SERVICES SHOWN ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR AND UTILITY COMPANY.

LEGEND

SMH	SEWER MANHOLE
DMH	DRAIN MANHOLE
CB	CATCH BASIN
—D—	DRAIN LINE
—S—	SEWER LINE
x81.00	SPOT GRADE
— 86 —	CONTOUR
RIM	RIM ELEVATION
INV	INVERT ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
CPE	CORRUGATED POLYETHYLENE PIPE

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COMMONWEALTH OF MASSACHUSETTS JOHN C. HART CIVIL No. 36728 REGISTERED PROFESSIONAL ENGINEER

Schofield Elementary School Renovations

27 Cedar Street
Wellesley, MA

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

SCALE	1" = 30'
DRAWN BY	CJR
CHECK BY	
PROJ.ARCH./ENGR.	CJR
PROJ. MGR.	JGS
JOB NO.	13097.00

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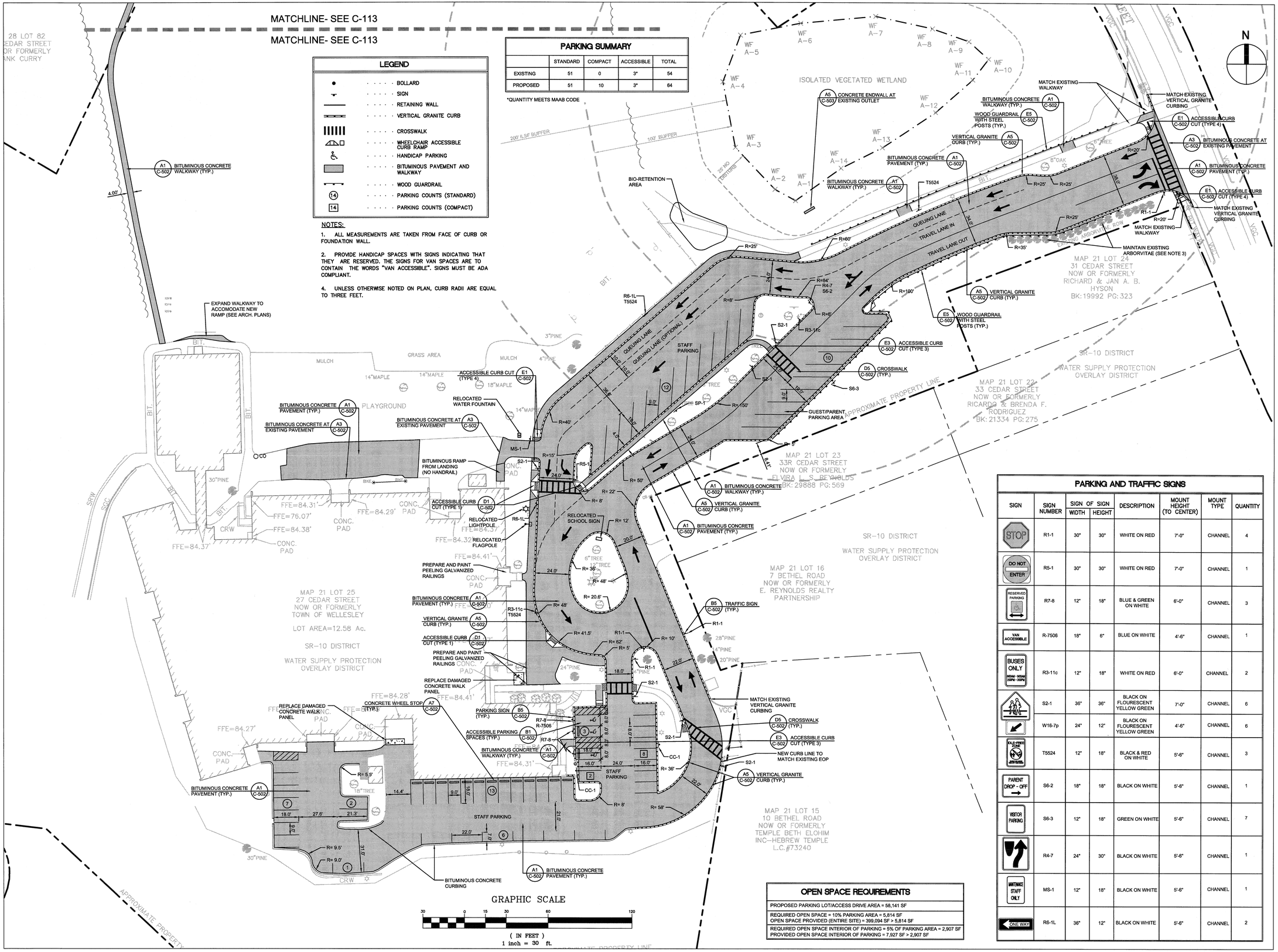
GRADING, DRAINAGE, & UTILITIES SITE PLAN

C-121



LEGEND

- BOLLARD
- SIGN
- RETAINING WALL
- VERTICAL GRANITE CURB
- CROSSWALK
- WHEELCHAIR ACCESSIBLE CURB RAMP
- HANDICAP PARKING
- BITUMINOUS PAVEMENT AND WALKWAY
- WOOD GUARDRAIL
- PARKING COUNTS (STANDARD)
- PARKING COUNTS (COMPACT)

NOTES:

1. ALL MEASUREMENTS ARE TAKEN FROM FACE OF CURB OR FOUNDATION WALL.
2. PROVIDE HANDICAP SPACES WITH SIGNS INDICATING THAT THEY ARE RESERVED. THE SIGNS FOR VAN SPACES ARE TO CONTAIN THE WORDS "VAN ACCESSIBLE". SIGNS MUST BE ADA COMPLIANT.
4. UNLESS OTHERWISE NOTED ON PLAN, CURB RADII ARE EQUAL TO THREE FEET.

PARKING SUMMARY

	STANDARD	COMPACT	ACCESSIBLE	TOTAL
EXISTING	51	0	3*	54
PROPOSED	51	10	3*	64

*QUANTITY MEETS MAAB CODE

PARKING AND TRAFFIC SIGNS

SIGN	SIGN NUMBER	SIGN OF SIGN WIDTH	SIGN OF SIGN HEIGHT	DESCRIPTION	MOUNT HEIGHT (TO CENTER)	MOUNT TYPE	QUANTITY
STOP	R1-1	30"	30"	WHITE ON RED	7'-0"	CHANNEL	4
DO NOT ENTER	R5-1	30"	30"	WHITE ON RED	7'-0"	CHANNEL	1
RESERVED PARKING	R7-8	12"	18"	BLUE & GREEN ON WHITE	6'-0"	CHANNEL	3
VAN ACCESSIBLE	R-7506	18"	6"	BLUE ON WHITE	4'-6"	CHANNEL	1
BUSES ONLY 9:00AM - 9:05AM 2:50PM - 3:00PM	R3-11c	12"	18"	WHITE ON RED	6'-0"	CHANNEL	2
	S2-1	36"	36"	BLACK ON FLOURESCENT YELLOW GREEN	7'-0"	CHANNEL	6
	W16-7p	24"	12"	BLACK ON FLOURESCENT YELLOW GREEN	4'-6"	CHANNEL	6
CLE-FIRED ZONE NO PARKING ANYTIME	T5524	12"	18"	BLACK & RED ON WHITE	5'-6"	CHANNEL	3
PARENT DROP - OFF	S6-2	18"	18"	BLACK ON WHITE	5'-6"	CHANNEL	1
VISITOR PARKING	S6-3	12"	18"	GREEN ON WHITE	5'-6"	CHANNEL	7
	R4-7	24"	30"	BLACK ON WHITE	5'-6"	CHANNEL	1
MAINTENICE STAFF ONLY	MS-1	12"	18"	BLACK ON WHITE	5'-6"	CHANNEL	1
ONE WAY	R6-1L	36"	12"	BLACK ON WHITE	5'-6"	CHANNEL	2

OPEN SPACE REQUIREMENTS

PROPOSED PARKING LOT/ACCESS DRIVE AREA = 58,141 SF
REQUIRED OPEN SPACE = 10% PARKING AREA = 5,814 SF OPEN SPACE PROVIDED (ENTIRE SITE) = 399,094 SF > 5,814 SF
REQUIRED OPEN SPACE INTERIOR OF PARKING = 5% OF PARKING AREA = 2,907 SF PROVIDED OPEN SPACE INTERIOR OF PARKING = 7,927 SF > 2,907 SF

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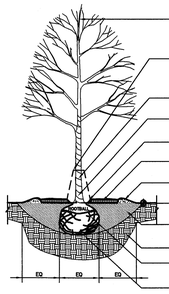
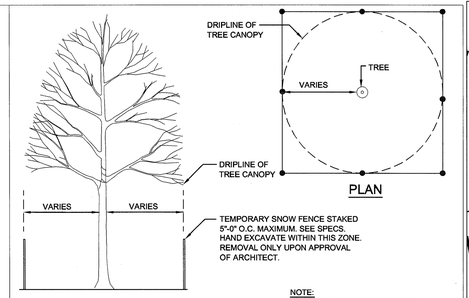
PARKING PLAN

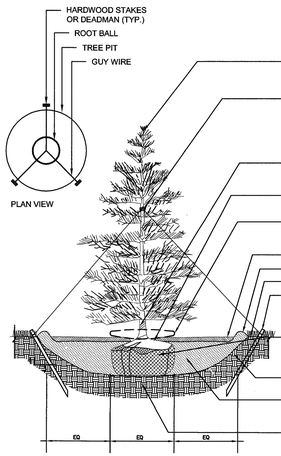
C-131



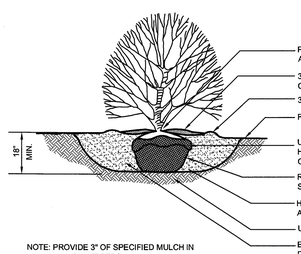
E1 TYPICAL DECIDUOUS TREE PLANTING
N.T.S.



E2 TREE PROTECTION DETAIL
N.T.S.

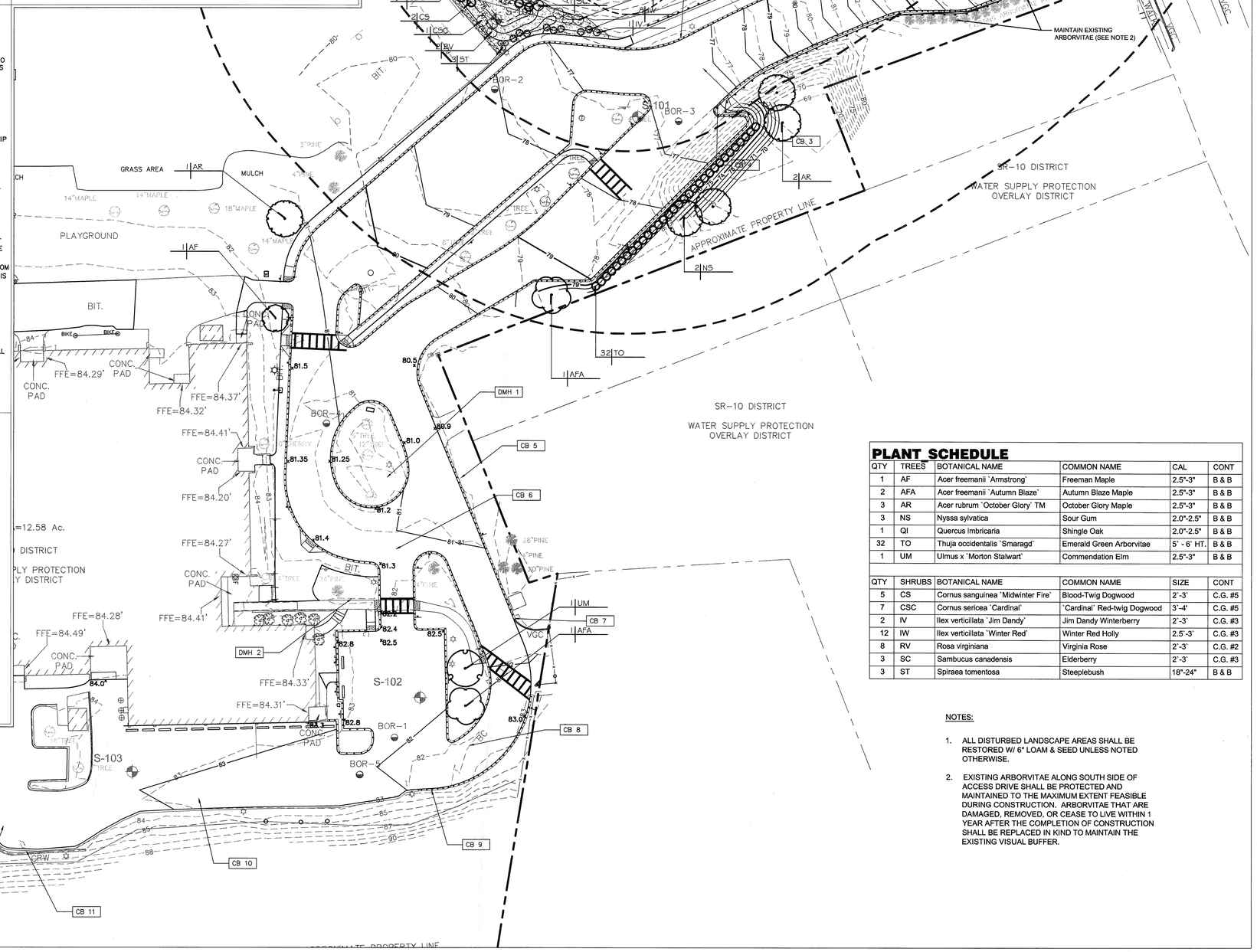


C1 TYPICAL EVERGREEN TREE PLANTING
N.T.S.



NOTE: PROVIDE 3" OF SPECIFIED MULCH IN ALL PLANT BEDS.

B1 TYPICAL SHURB PLANTING
N.T.S.



PLANT SCHEDULE

QTY	TREES	BOTANICAL NAME	COMMON NAME	CAL	CONT
1	AF	Acer freemanii `Armstrong`	Freeman Maple	2.5"-3"	B & B
2	AFA	Acer freemanii `Autumn Blaze`	Autumn Blaze Maple	2.5"-3"	B & B
3	AR	Acer rubrum `October Glory` TM	October Glory Maple	2.5"-3"	B & B
3	NS	Nyssa sylvatica	Sour Gum	2.0"-2.5"	B & B
1	QI	Quercus imbricaria	Shingle Oak	2.0"-2.5"	B & B
32	TO	Thuja occidentalis `Smaragd`	Emerald Green Arborvitae	5` - 6` HT.	B & B
1	UM	Ulmus x `Morton Stalwart`	Commendation Elm	2.5"-3"	B & B
QTY	SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONT
5	CS	Cornus sanguinea `Midwinter Fire`	Blood-Twig Dogwood	2`-3`	C.G. #5
7	CSC	Cornus sericea `Cardinal`	`Cardinal` Red-twig Dogwood	3`-4`	C.G. #5
2	IV	Ilex verticillata `Jim Dandy`	Jim Dandy Winterberry	2`-3`	C.G. #3
12	IW	Ilex verticillata `Winter Red`	Winter Red Holly	2.5`-3`	C.G. #3
8	RV	Rosa virginiana	Virginia Rose	2`-3`	C.G. #2
3	SC	Sambucus canadensis	Elderberry	2`-3`	C.G. #3
3	ST	Spiraea tomentosa	Steeplebush	18"-24"	B & B

NOTES:

1. ALL DISTURBED LANDSCAPE AREAS SHALL BE RESTORED W/ 6" LOAM & SEED UNLESS NOTED OTHERWISE.
2. EXISTING ARBORVITAE ALONG SOUTH SIDE OF ACCESS DRIVE SHALL BE PROTECTED AND MAINTAINED TO THE MAXIMUM EXTENT FEASIBLE DURING CONSTRUCTION. ARBORVITAE THAT ARE DAMAGED, REMOVED, OR CEASE TO LIVE WITHIN 1 YEAR AFTER THE COMPLETION OF CONSTRUCTION SHALL BE REPLACED IN KIND TO MAINTAIN THE EXISTING VISUAL BUFFER.

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MASSACHUSETTS PETER L. PAN No. 955 REGISTERED LANDSCAPE ARCHITECT

Schofield Elementary School Renovations

27 Cedar Street
Wellesley, MA

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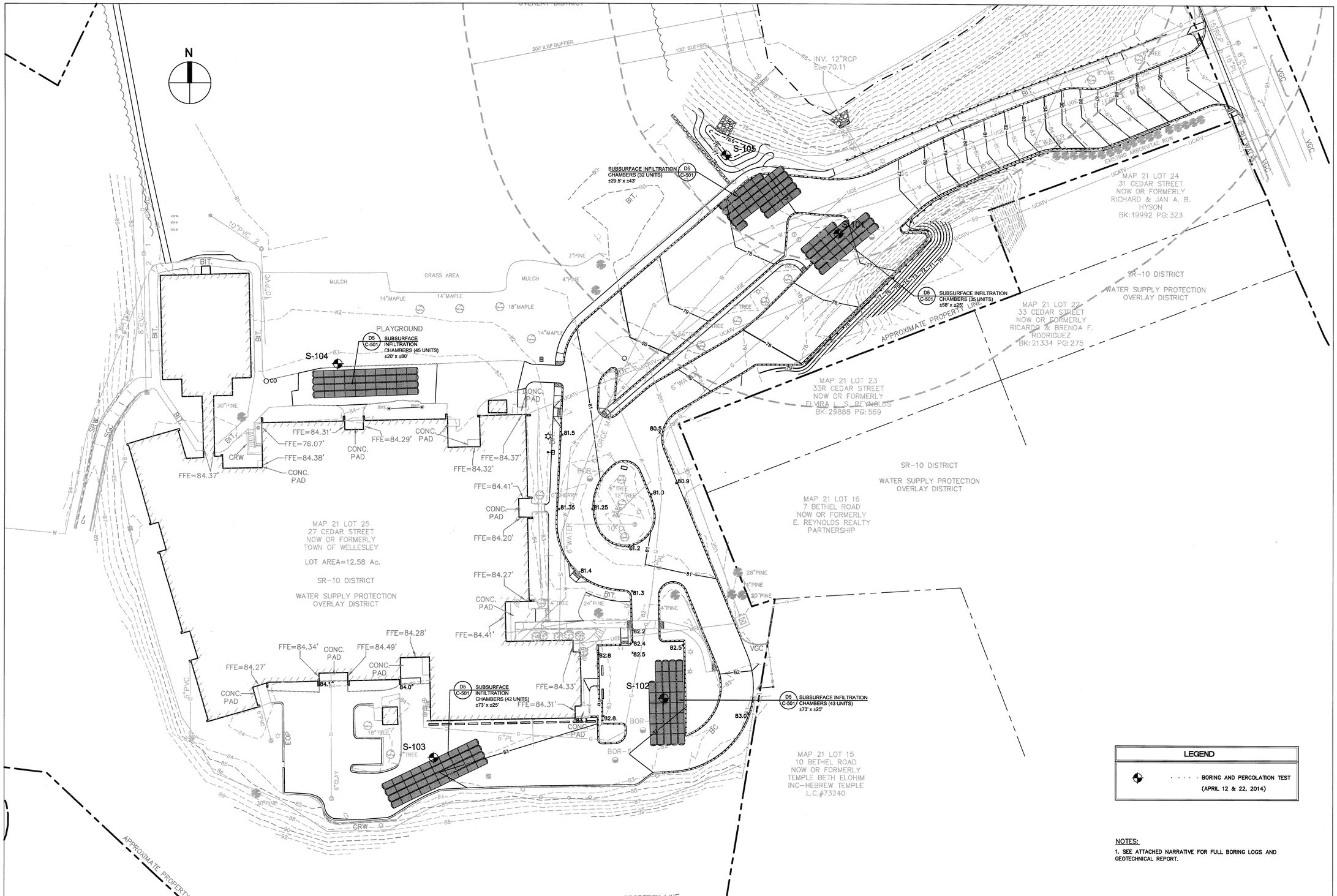
PLANTING PLAN

C-141



SCHOFIELD SCHOOL BOREHOLE PERMEABILITY TESTING SUMMARY						
BORING NUMBER	APPROXIMATE TEST DEPTH BELOW GROUND SURFACE (ft.)	SOIL DESCRIPTION AT TEST DEPTH	MEAN COEFFICIENT OF PERMEABILITY, k_m (cm/s)	BOTTOM DEPTH OF TEST BORING (ft.)	DEPTH TO WATER (ft.)	DEPTH TO ROCK LEDGE (ft.)
S-101	5-6±	EXISTING FILL	$k_m = 8x10^{-3}$ cm/s	17±	WATER NOT OBSERVED	POSSIBLE WEATHERED LEDGE AT 17± FT
S-102	5-6±	NATURAL SAND	$k_m = 4x10^{-4}$ cm/s	17±	WATER NOT OBSERVED	LEDGE NOT OBSERVED
S-103	5-6±	NATURAL SAND	$k_m = 4x10^{-4}$ cm/s	17±	WATER NOT OBSERVED	LEDGE NOT OBSERVED
S-104	5-6±	NATURAL SAND	$k_m = 1x10^{-3}$ cm/s	17±	POSSIBLE AT 12'-15'	LEDGE NOT OBSERVED
S-105	5-6±	EXISTING FILL	$k_m = 1x10^{-2}$ cm/s	17±	WATER NOT OBSERVED	LEDGE NOT OBSERVED

LEGEND

· · · · · BORING AND PERCOLATION TEST (APRIL 12 & 22, 2014)

NOTES:

1. SEE ATTACHED NARRATIVE FOR FULL BORING LOGS AND GEOTECHNICAL REPORT.

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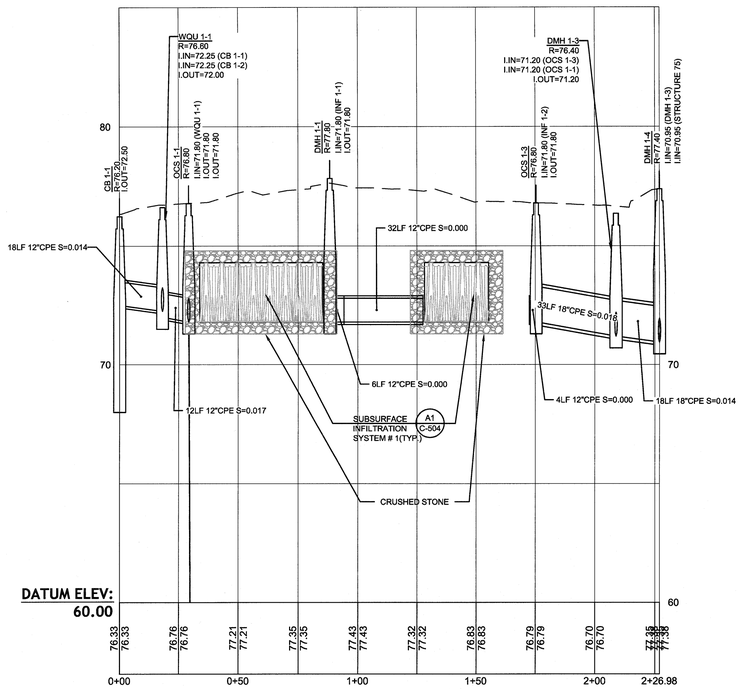
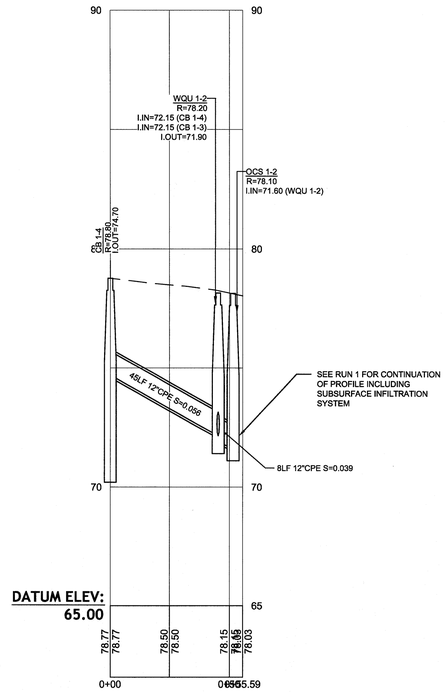
SUBSURFACE CONDITIONS PLAN

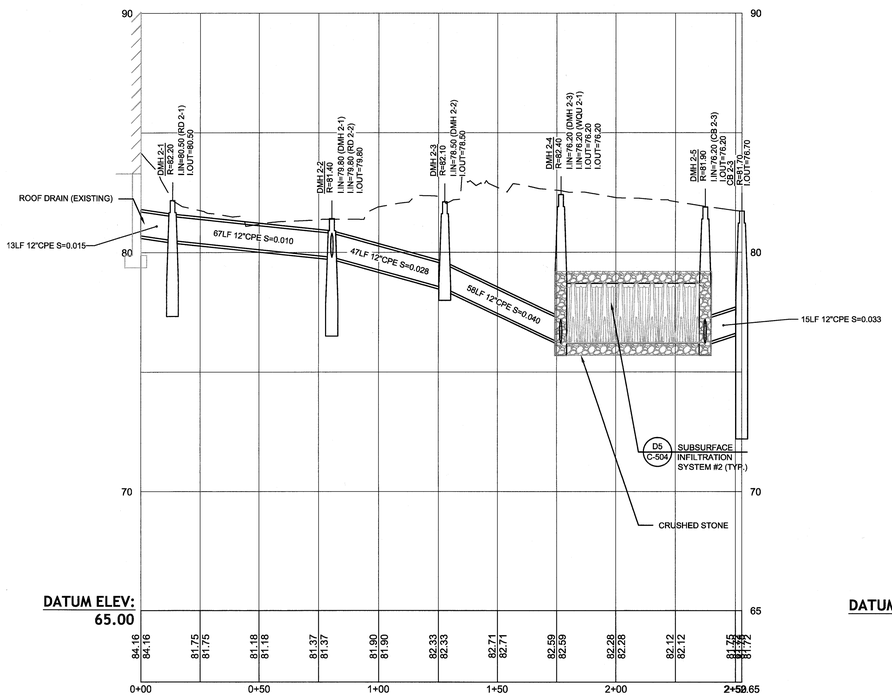
C-151



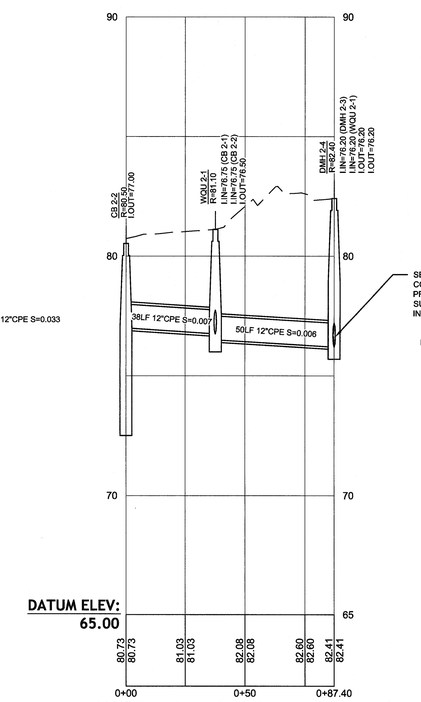
SCOFIELD DRAINAGE 1 (RUN 1) PROFILE
H: 1" = 30'
V: 1" = 3'



SCOFIELD DRAINAGE 1 (RUN 3) PROFILE
H: 1" = 30'
V: 1" = 3'



SCOFIELD DRAINAGE 1 (RUN 2) PROFILE
H: 1" = 30'
V: 1" = 3'



SCOFIELD DRAINAGE 1 (RUN 4) PROFILE
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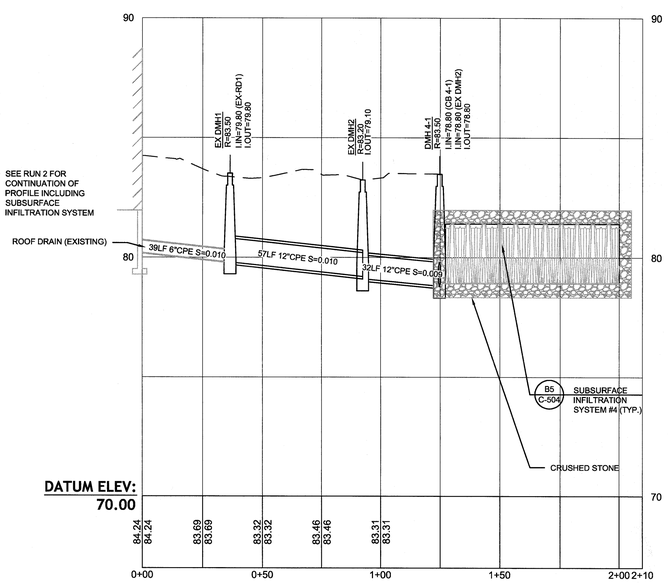
V: 1" = 3'



SCOFIELD DRAINAGE 1 (RUN 5) PROFILE
H: 1" = 30'
V: 1" = 3'

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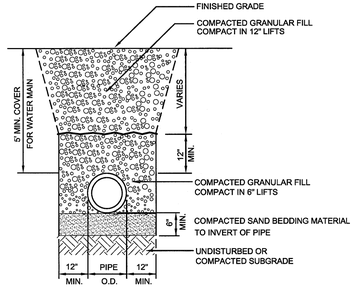
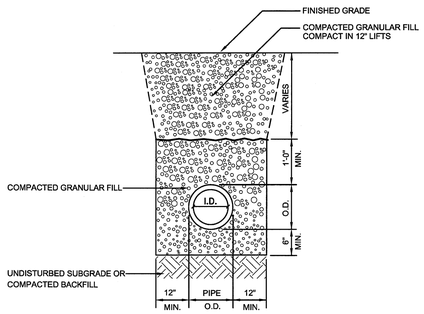
DRAINAGE PROFILES I

C-161



E1 TRENCH SECTION - UTILITY PIPE
N.T.S.

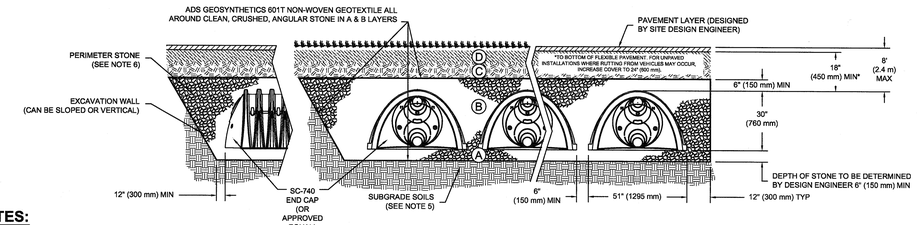


D1 TRENCH SECTION - CPE DRAINS
N.T.S.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 (OR APPROVED EQUAL) CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. [2,3]

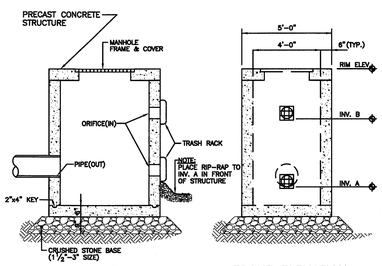
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. SC-740 CHAMBERS (OR APPROVED EQUAL) SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS (OR APPROVED EQUAL) SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
5. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
7. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

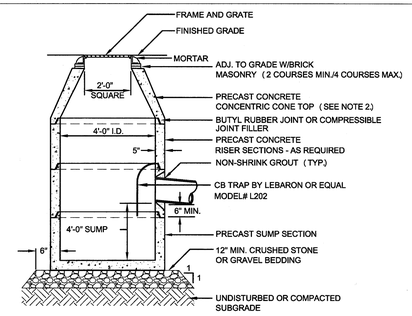
D5 SUBSURFACE INFILTRATION CHAMBERS
N.T.S.



NOTE: SEE DWG. NO C4.1 FOR INVERT AND RIM ELEVATIONS

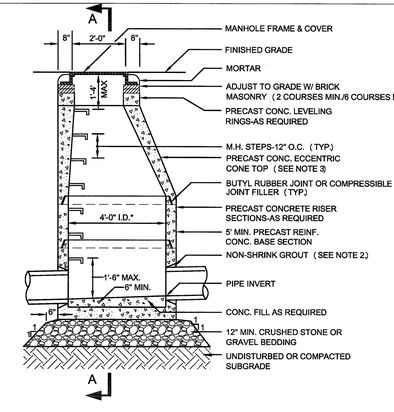
DETENTION BASIN	RIM ELEV.	DIA. A	ELEV. A	DIA. B	ELEV. B	DIA. OUT
1	218.00	6"	213.00	24"	215.30	30"
2	190.70	6"	187.00	24"	188.40	30"

B1 OUTLET CONTROL STRUCTURE
N.T.S.

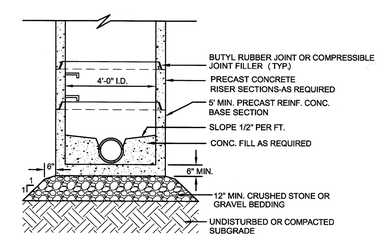


NOTES: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. PROVIDE SLAB TOP WHERE PIPE COVER < 36"

B3 PRECAST CONCRETE CATCHBASIN
N.T.S.

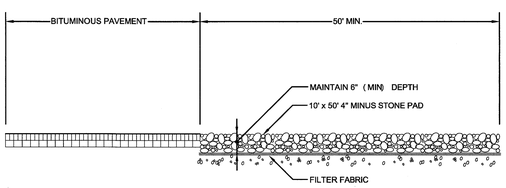


NOTE: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. NEOPRENE SEAL TO CONFORM TO ASTM C-443 (SANITARY M.H. ONLY)
3. PROVIDE SLAB TOP WHERE REQUIRED.

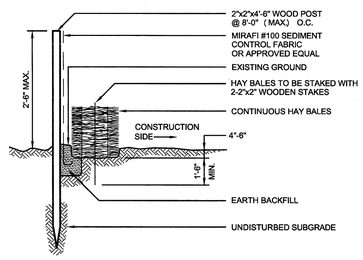


* PROVIDE 5'-0" I.D. SECTIONS AS REQUIRED FOR MULTIPLE/LARGE DIAMETER PIPES.

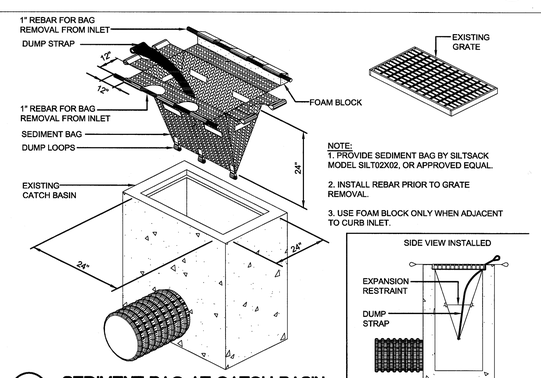
B5 PRECAST CONCRETE DRAIN MANHOLE
N.T.S.



A1 TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.



A3 HAYBALES W/SILT FENCE
N.T.S.



NOTE:
1. PROVIDE SEDIMENT BAG BY SILTSACK MODEL SILT02X02, OR APPROVED EQUAL.
2. INSTALL REBAR PRIOR TO GRATE REMOVAL.
3. USE FOAM BLOCK ONLY WHEN ADJACENT TO CURB INLET.

A5 SEDIMENT BAG AT CATCH BASIN
N.T.S.

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MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

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SCALE	N.T.S.
DRAWN BY	CJR
CHECK BY	
PROJ.ARCH./ENGR.	CJR
PROJ. MGR.	JGS
JOB NO.	13097.00

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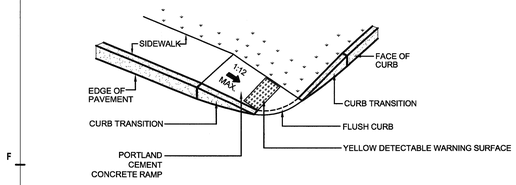
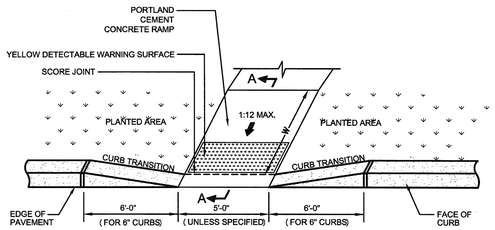
DETAILS I

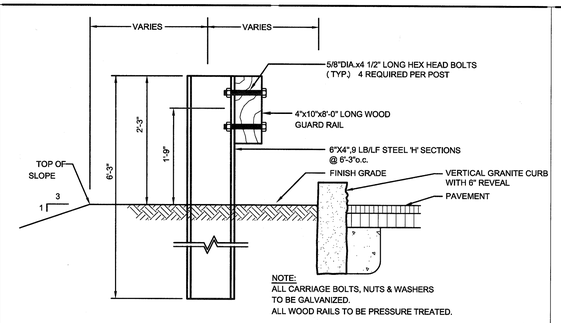
C-501



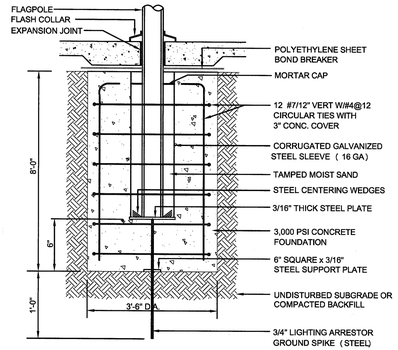
E1 ACCESSIBLE CURB RAMP (TYPE 4)
N.T.S.



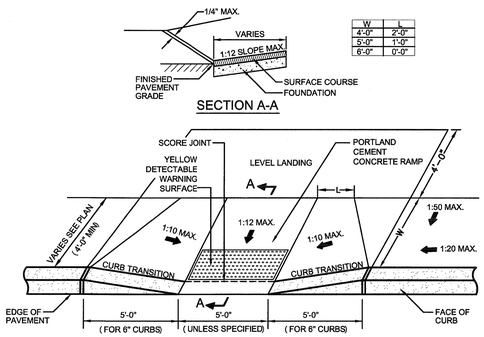
E3 ACCESSIBLE CURB RAMP (TYPE 3)
N.T.S.



E5 WOOD GUARD RAIL WITH STEEL POSTS
N.T.S.

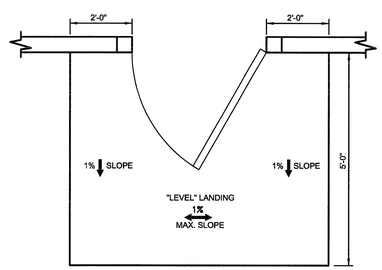


E7 FLAGPLOLE FOUNDATION
N.T.S.

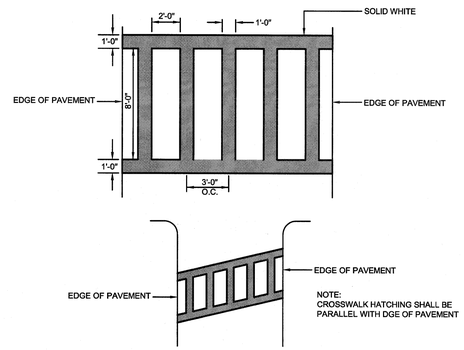


W	L
4'-0"	2'-0"
5'-0"	1'-0"
6'-0"	0'-0"

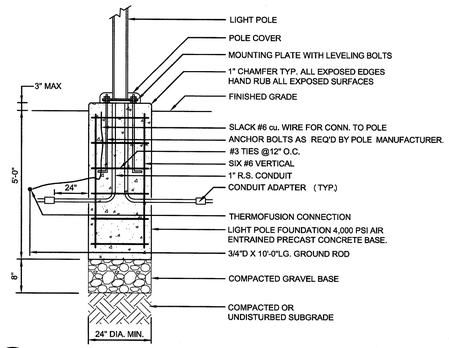
D1 ACCESSIBLE CURB RAMP (TYPE 1)
N.T.S.



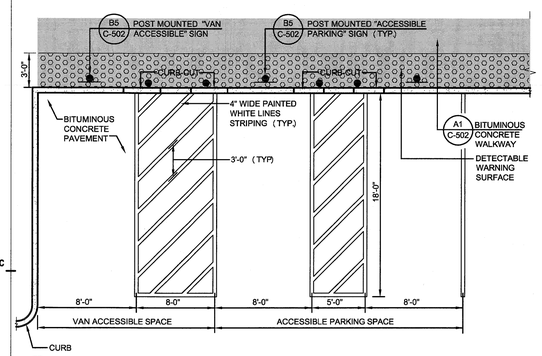
D3 LEVEL LANDING AT BUILDING ENTRANCES
N.T.S.



D5 CROSSWALK
N.T.S.



D7 LIGHTPOLE BASE IN LAWN AREAS
N.T.S.



B1 ACCESSIBLE PARKING SPACES
N.T.S.

NOTES:

ACCESSIBLE PARKING SPACES:
1. MAXIMUM SLOPE 2% IN ANY DIRECTION.
2. LOCATE SIGN WITHIN 10' OF ACCESSIBLE SPACE.
3. PROVIDE AN ACCESSIBLE CURB CUT AT EACH ACCESS AISLE BETWEEN ACCESSIBLE SPACES.

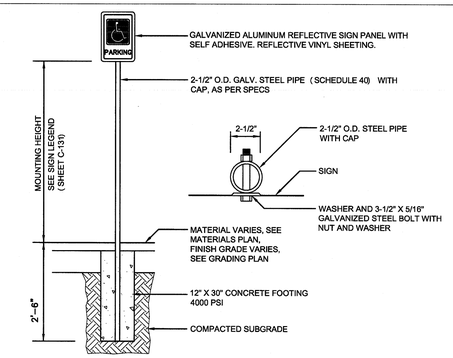
SIDEWALKS AND PLAZAS:
1. SLOPE REQUIREMENTS APPLY TO ALL WALKWAY SURFACES INCLUDING BITUMINOUS, PORTLAND CEMENT, PAVERS AND CHIPSEAL.
2. SLOPE REQUIREMENTS APPLY TO ALL SIDEWALKS AND PLAZAS AND ARE NOT LIMITED TO ACCESSIBLE ROUTES.
3. PROVIDE A 5' LEVEL LANDING AT ALL BUILDING DOORWAYS.
4. IN THE EVENT OF DISCREPANCY BETWEEN THE MAXIMUM ACCESSIBLE CROSS SLOPE OR RUNNING SLOPE PER THE DETAILS AND THE GRADING SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTING THE PAVEMENT.

CURB CUTS:
1. PROVIDE FLUSH TRANSITION FROM CURB CUTS TO ADJACENT WALKS AND STREETS, FREE OF CHANGES IN LEVEL GREATER THAN 1/2-INCH.
2. THE SLOPE OF THE LEVEL LANDING AT THE TOP OF THE CURB CUT SHALL NOT EXCEED 1% IN ANY DIRECTION.
3. ALL CURB CUTS ARE TO BE CONSTRUCTED OUT OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE NOTED ON PLANS.

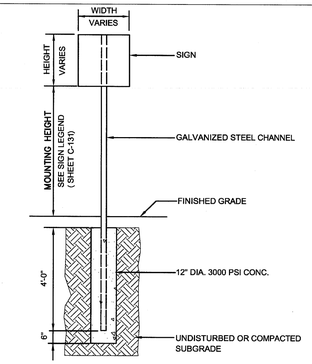
LEVEL LANDINGS:
1. PROVIDE LEVEL LANDINGS WITH MAXIMUM SLOPE IN ANY DIRECTION OF 1%.

TACTILE WARNING DEVICES:
1. EXTEND FULL WIDTH OF CURB RAMP AND A LENGTH OF 24 INCHES.
2. MATERIAL CONTRASTS WITH ADJACENT MATERIAL BY AT LEAST 70%.
3. DOME SIZE
   HEIGHT: 0.2 INCHES
   BASE DIAMETER: 0.9 TO 1.4 INCHES
   TOP DIAMETER: 50% TO 65% OF BASE DIAMETER
4. DOME SPACING:
   PATTERN: SQUARE GRID PATTERN
   CENTER-TO-CENTER: 1.6 TO 2.4 INCHES
   BASE TO BASE: 0.65 MINIMUM, BETWEEN CLOSEST DOMES IN GRID

B3 NOTES
N.T.S.

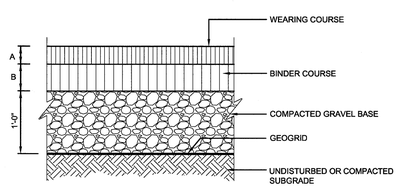


B5 PARKING SIGN
N.T.S.



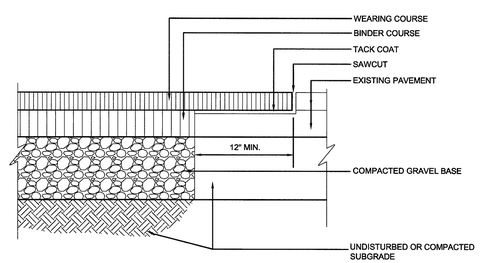
B7 TRAFFIC SIGN
N.T.S.

	STANDARD	HEAVY DUTY
A	1 1/2"	2"
B	2"	2 1/2"

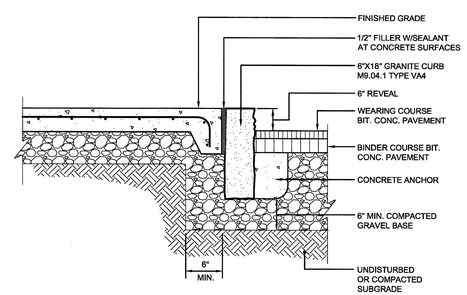


NOTE:
1. FOR BITUMINOUS CONCRETE SIDEWALK USE 8" OF COMPACTED GRAVEL BASE.
2. INSTALL BINDER AND BASE COURSES WHERE TEMPORARY BITUMINOUS CONCRETE IS PROPOSED.

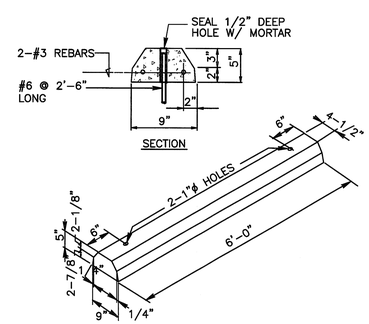
A1 BITUMINOUS CONCRETE
N.T.S.



A3 BITUMINOUS CONCRETE AT EXISTING PAVEMENT
N.T.S.



A5 VERTICAL GRANITE CURB
N.T.S.



A7 CONCRETE WHEELSTOP
N.T.S.

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PROJ. MGR.	JGS
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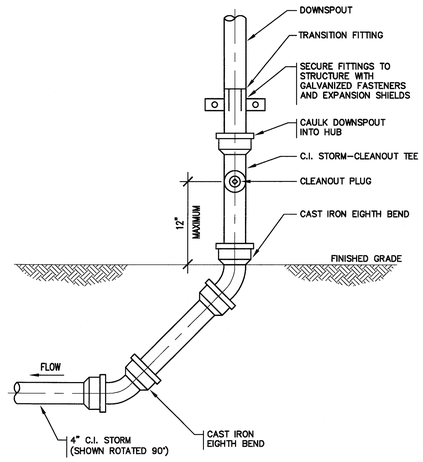
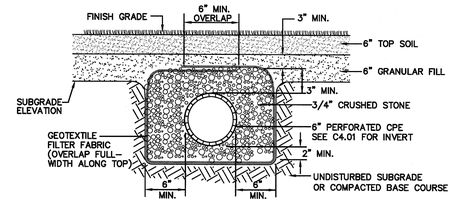
DETAILS II

C-502

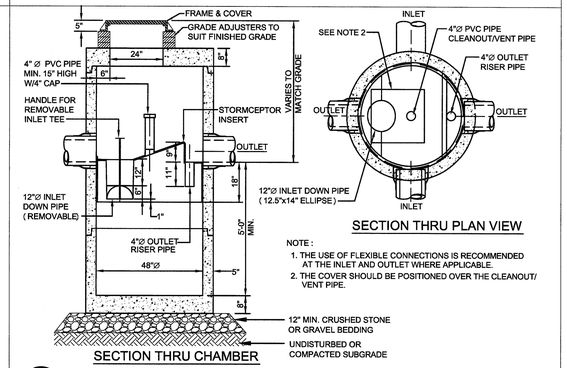


D1 TYPICAL DOWNSPOUT BOOT DETAIL
N.T.S.



NOTE:
1. SEE DETAIL 5/C7.6 FOR SOIL PROFILE AT ATHLETIC FIELDS.

E5 UNDER DRAIN DETAIL
N.T.S.

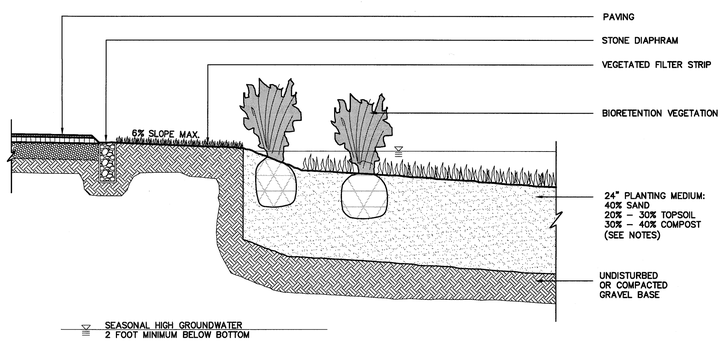


SECTION THRU CHAMBER

SECTION THRU PLAN VIEW

NOTE :
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/ VENT PIPE.

D5 450 GALLON STORMCEPTOR UNIT
N.T.S.

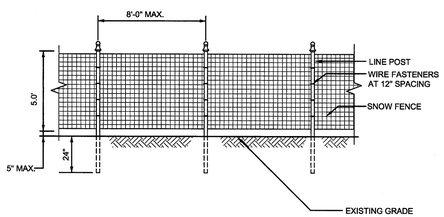


NOTES:
1. THE SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN 2 INCHES. CLAY CONTENT IS NOT TO EXCEED 5%.
2. SOIL pH IS TO BE BETWEEN 5.5 – 6.5.
3. SOILS ARE TO HAVE AN ORGANIC CONTENT OF 1.5% TO 3%. THE MAXIMUM SOLUBLE SALTS IS NOT TO EXCEED 500–PPM.
4. THE SAND COMPONENT IS TO BE GRAVELLY SAND THAT MEETS ASTM D 422

SIEVE SIZE	PERCENT PASSING
2–INCH	100
3/4–INCH	70–100
1/4–INCH	50–80
U.S. NO. 40	15–40
U.S. NO. 200	0–3

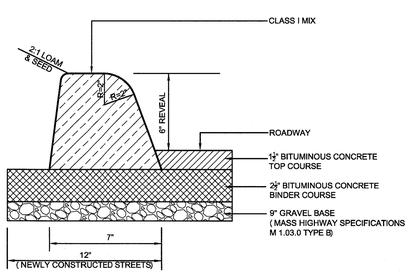
5. TOPSOIL COMPONENT IS TO BE A SANDY LOAM, LOAMY SAND OR LOAM TEXTURE.
6. THE COMPOST MUST BE PROCESSED FROM YARD WASTE IN ACCORDANCE WITH MASSDEP GUIDELINES. THE COMPOST IS NOT TO CONTAIN BIOSOLIDS.
7. ON–SITE SOIL MIXING OR PLACEMENT IS NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO WATER WITHIN 48 HOURS. COVER AND STORE SOIL TO PREVENT WETTING OR SATURATION.
8. COVER SOIL WITH 2 TO 3 INCHES OF FINE SHREDDED HARDWOOD MULCH.

C1 BIORETENTION CELL TYPICAL SECTION
N.T.S.

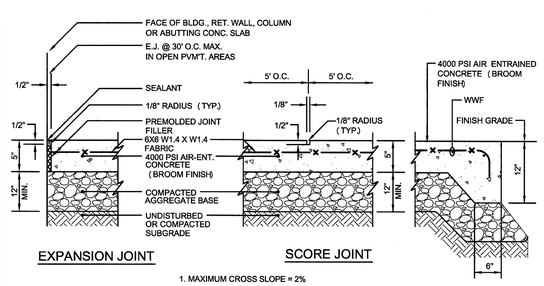


NOTE :
1. SEE GENERAL NOTE #14 ON SITE PREPARATION SHEET C-111 FOR PLACEMENT OF SNOW FENCE.

C5 5 FT. HIGH SNOW FENCE
N.T.S.



A1 BITUMINOUS CONCRETE CURB
N.T.S.

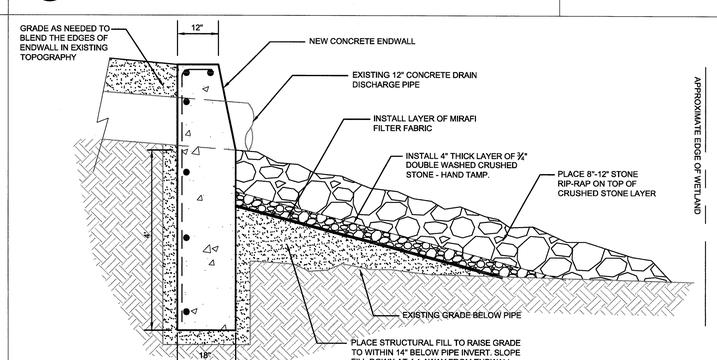


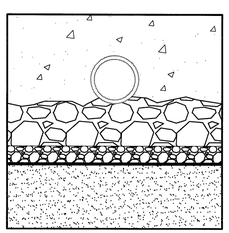
EXPANSION JOINT

SCORE JOINT

1. MAXIMUM CROSS SLOPE = 2%
2. MAXIMUM GRADIENT = 5%
3. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES.
4. PROVIDE VERTICAL GRANITE OR PRECAST CONCRETE CURBING PER SHEET C3.

A3 CONCRETE WALKWAY
N.T.S.





SECTION VIEW

A5 CONCRETE ENDWALL AT EXISTING OUTLET
N.T.S.

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PROJ. MGR.	JGS
JOB NO.	13097.00

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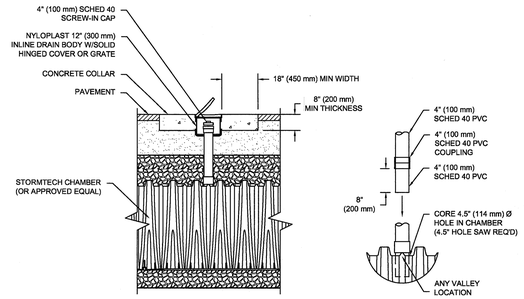
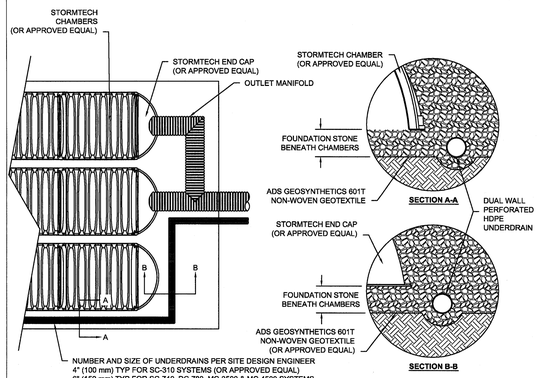
DETAILS III

C-503

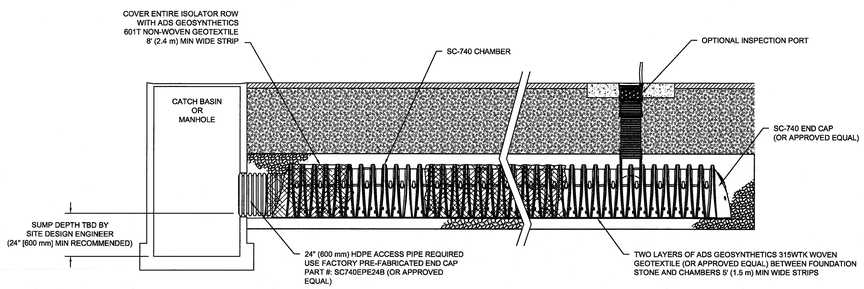


NOTES:
1. INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

E1 INSPECTION PORT DETAIL
N.T.S.



E3 UNDERDRAIN DETAIL
N.T.S.

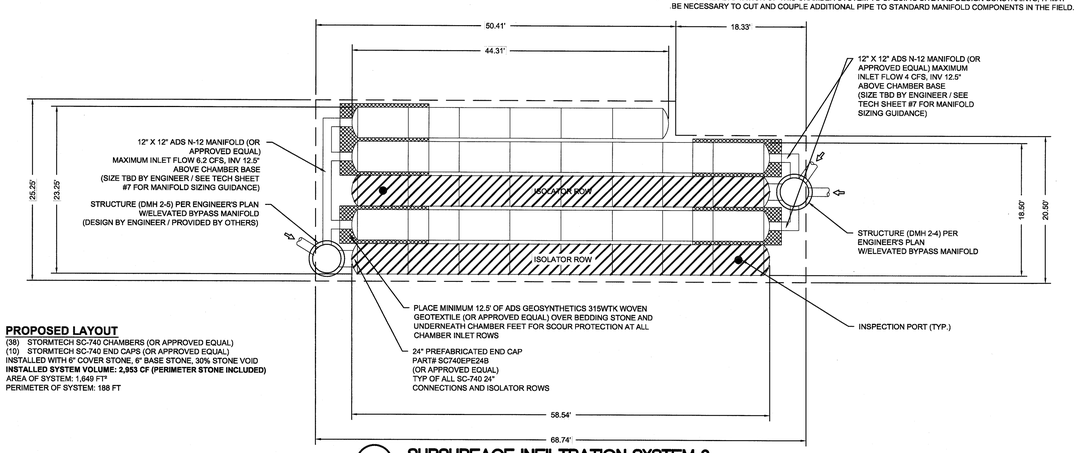


D1 ISOLATOR ROW DETAIL
N.T.S.

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	86.70
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	80.70
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	80.20
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	80.20
MINIMUM ALLOWABLE GRADE (TOP OF REINFORCED CONCRETE PAVEMENT):	80.20
TOP OF STONE:	79.20
TOP OF CHAMBER:	78.70
12" TOP MANIFOLD INVERT:	77.24
24" ISOLATOR ROW INVERT:	76.21
BOTTOM OF CHAMBER:	76.20
BOTTOM OF STONE:	75.70

NOTE
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.



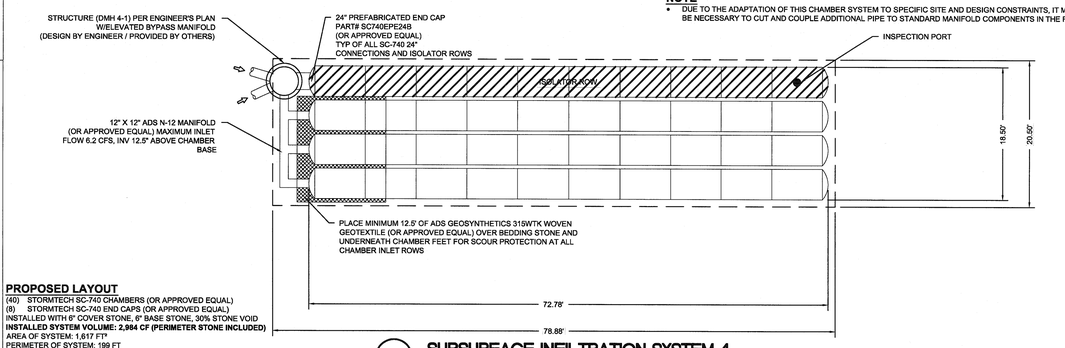
PROPOSED LAYOUT
(38) STORMTECH SC-740 CHAMBERS (OR APPROVED EQUAL)
(10) STORMTECH SC-740 END CAPS (OR APPROVED EQUAL)
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 30% STONE VOID
INSTALLED SYSTEM VOLUME: 2,953 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 1,649 FT²
PERIMETER OF SYSTEM: 188 FT

D5 SUBSURFACE INFILTRATION SYSTEM 2
N.T.S.

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	86.70
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	80.70
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	80.20
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	80.20
MINIMUM ALLOWABLE GRADE (TOP OF REINFORCED CONCRETE PAVEMENT):	80.20
TOP OF STONE:	79.20
TOP OF CHAMBER:	78.70
12" TOP MANIFOLD INVERT:	77.24
24" ISOLATOR ROW INVERT:	76.21
BOTTOM OF CHAMBER:	76.20
BOTTOM OF STONE:	75.70

NOTE
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.



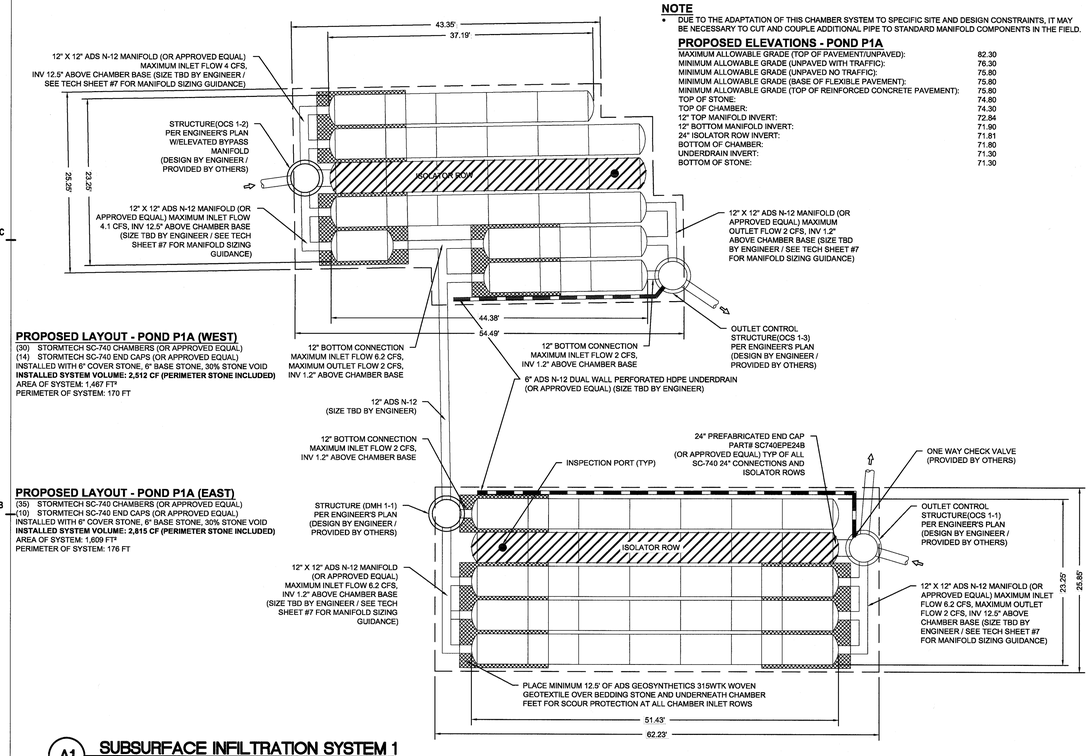
PROPOSED LAYOUT
(40) STORMTECH SC-740 CHAMBERS (OR APPROVED EQUAL)
(8) STORMTECH SC-740 END CAPS (OR APPROVED EQUAL)
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 30% STONE VOID
INSTALLED SYSTEM VOLUME: 2,984 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 1,617 FT²
PERIMETER OF SYSTEM: 199 FT

B5 SUBSURFACE INFILTRATION SYSTEM 4
N.T.S.

NOTE
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

PROPOSED ELEVATIONS - POND P1A

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	82.30
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	76.30
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	75.80
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	75.80
MINIMUM ALLOWABLE GRADE (TOP OF REINFORCED CONCRETE PAVEMENT):	75.80
TOP OF STONE:	74.80
TOP OF CHAMBER:	74.30
12" TOP MANIFOLD INVERT:	72.84
12" BOTTOM MANIFOLD INVERT:	71.90
24" ISOLATOR ROW INVERT:	71.81
BOTTOM OF CHAMBER:	71.80
UNDERDRAIN INVERT:	71.30
BOTTOM OF STONE:	71.30



PROPOSED LAYOUT - POND P1A (WEST)
(30) STORMTECH SC-740 CHAMBERS (OR APPROVED EQUAL)
(14) STORMTECH SC-740 END CAPS (OR APPROVED EQUAL)
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 30% STONE VOID
INSTALLED SYSTEM VOLUME: 2,512 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 1,467 FT²
PERIMETER OF SYSTEM: 170 FT

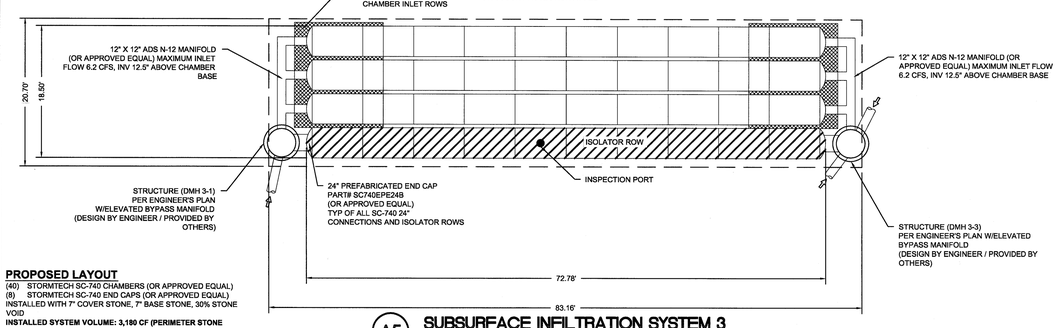
PROPOSED LAYOUT - POND P1A (EAST)
(35) STORMTECH SC-740 CHAMBERS (OR APPROVED EQUAL)
(10) STORMTECH SC-740 END CAPS (OR APPROVED EQUAL)
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 30% STONE VOID
INSTALLED SYSTEM VOLUME: 2,815 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 1,609 FT²
PERIMETER OF SYSTEM: 176 FT

A1 SUBSURFACE INFILTRATION SYSTEM 1
N.T.S.

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	89.40
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	83.40
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	82.90
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	82.90
MINIMUM ALLOWABLE GRADE (TOP OF REINFORCED CONCRETE PAVEMENT):	82.90
TOP OF STONE:	81.98
TOP OF CHAMBER:	81.40
12" TOP MANIFOLD INVERT:	79.94
24" ISOLATOR ROW INVERT:	78.91
BOTTOM OF CHAMBER:	78.90
BOTTOM OF STONE:	78.32

NOTE
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.



PROPOSED LAYOUT
(40) STORMTECH SC-740 CHAMBERS (OR APPROVED EQUAL)
(8) STORMTECH SC-740 END CAPS (OR APPROVED EQUAL)
INSTALLED WITH 7" COVER STONE, 7" BASE STONE, 30% STONE VOID
INSTALLED SYSTEM VOLUME: 3,180 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 1,722 FT²
PERIMETER OF SYSTEM: 208 FT

A5 SUBSURFACE INFILTRATION SYSTEM 3
N.T.S.

SMMA

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P:617.547.5400 F:617.648.4920

COMMONWEALTH OF MASSACHUSETTS
JOHN C. HART
CIVIL
No. 35738
REGISTERED PROFESSIONAL ENGINEER

Schofield Elementary School Renovations

27 Cedar Street
Wellesley, MA

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

SCALE	N.T.S.
DRAWN BY	CJR
CHECK BY	
PROJ.ARCH./ENGR.	CJR
PROJ. MGR.	JGS
JOB NO.	13097.00

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DETAILS IV

C-504

CONSTRUCTION PLAN SYMBOLS

EXISTING CONSTRUCTIONTO REMAIN UON

NEW CONSTRUCTION

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F_

E_

D_

C_

B_

A_

1 BASEMENT FLOOR PLAN- OVERALL
SCALE: 1/16" = 1'-0"

1 2 3 4 5 6 7 8

Schofield Elementary School- Renovations
27 Cedar Street
Wellesley MA

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

SCALE	As indicated
DRAWN BY	Author
CHECK BY	Checker
PROJ.ARCH./ENGR.	JLS
PROJ. MRG.	JGS
JOB NO.	13097.00

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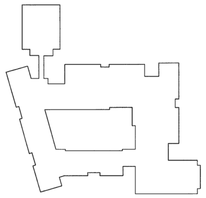
BASEMENT FLOOR CONSTRUCTION PLAN- OVERALL

A-100



KEY PLAN

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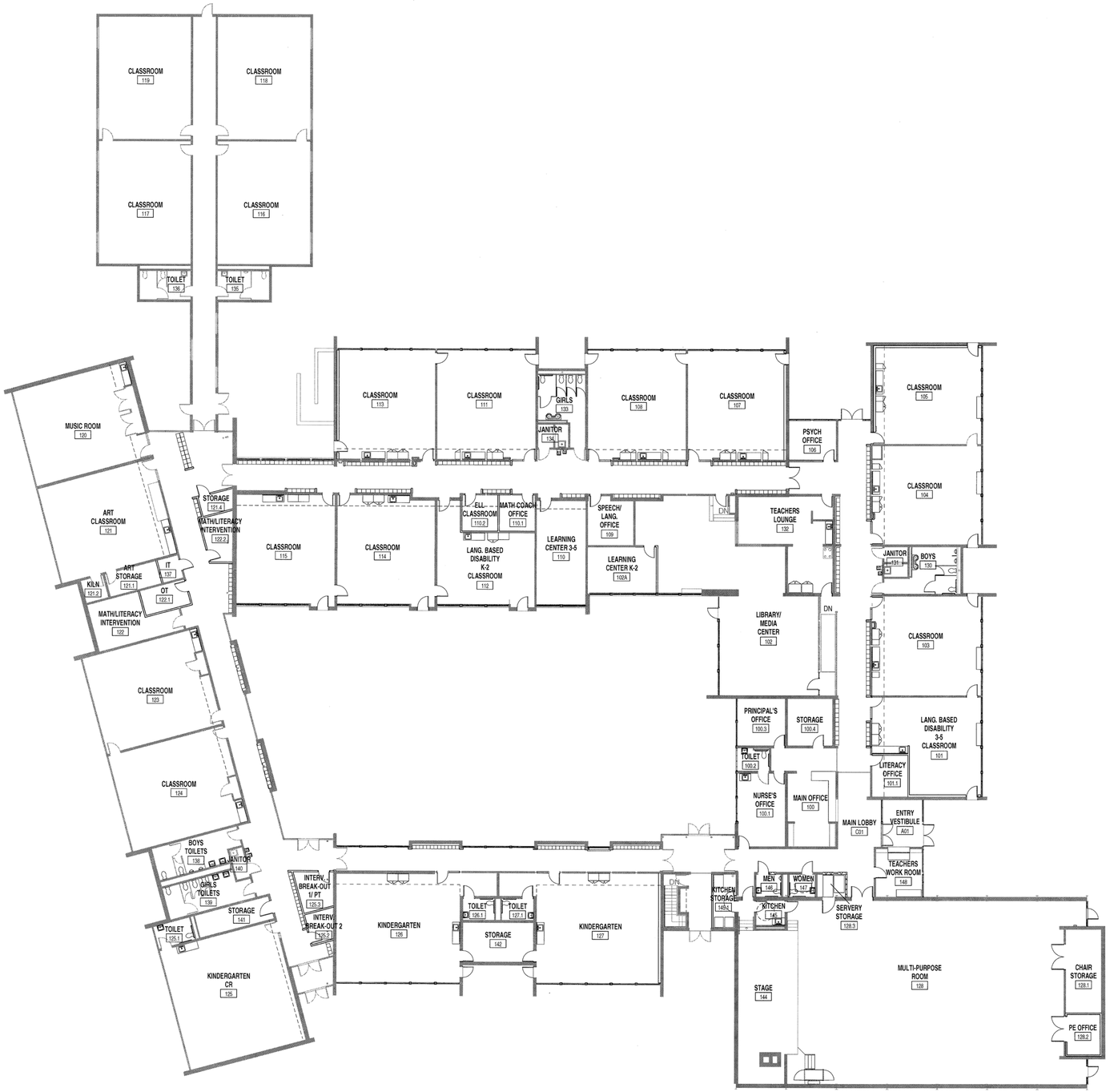
CONSTRUCTION PLAN SYMBOLS

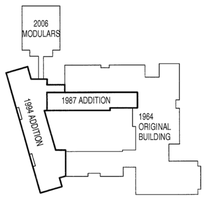
EXISTING CONSTRUCTIONTO REMAIN UON

NEW CONSTRUCTION



1 FIRST FLOOR PLAN- OVERALL

SCALE: 1/16" = 1'-0"



KEY PLAN

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SYMMES MAINI & McKEE ASSOCIATES
1000 Massachusetts Avenue
Cambridge, Massachusetts 02138
P:617.547.5400 F:617.648.4920

Schofield Elementary School- Renovations

27 Cedar Street
Wellesley MA

MARK:	DATE:	DESCRIPTION:
	7/14/2014	ZBA SITE PLAN REVIEW

ISSUE LOG

△ = CLOUDED CHANGE

REGISTERED ARCHITECT JOHN G. SEELEY NO. 6223 COMMONWEALTH OF MASSACHUSETTS

SCALE	As indicated
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FIRST FLOOR CONSTRUCTION PLAN- OVERALL

A-101

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SMMA

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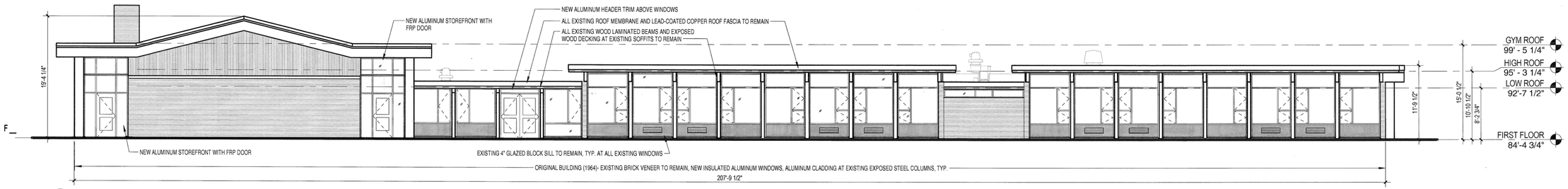
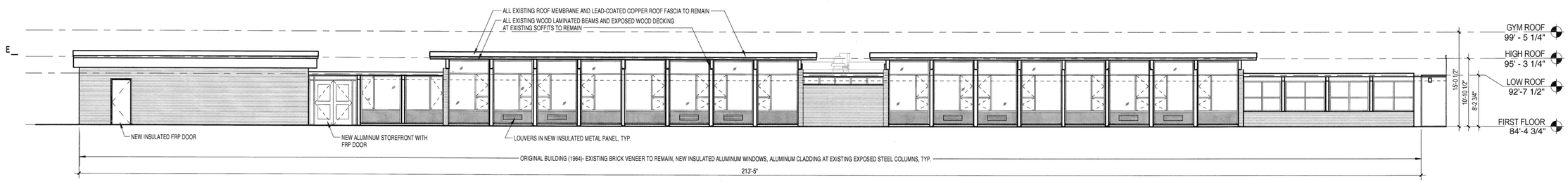


1 EAST ELEVATION- FRONT
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION
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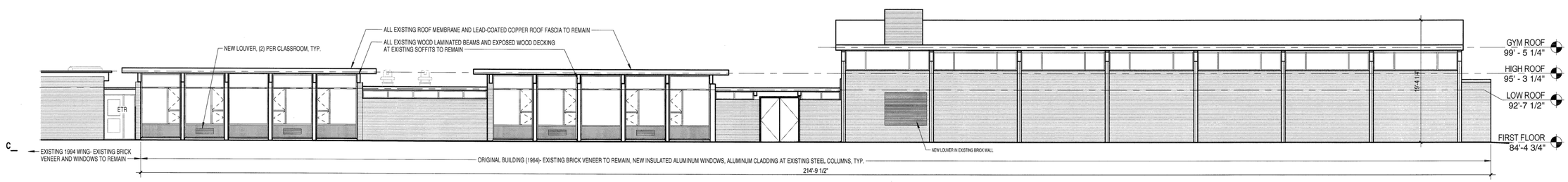
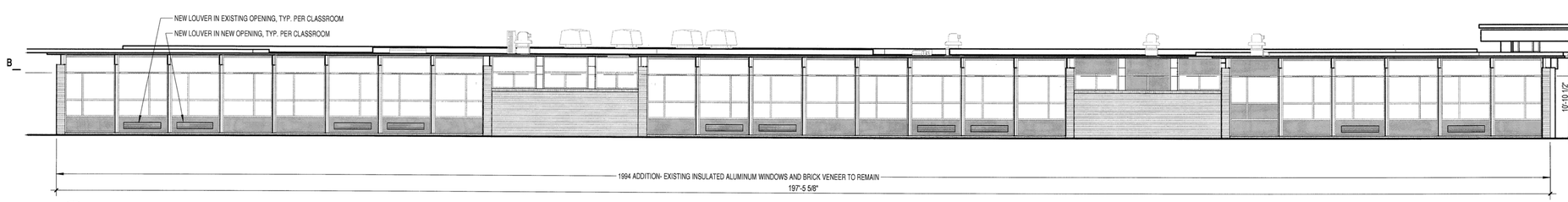
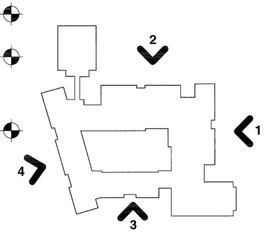


3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 WEST ELEVATION
SCALE: 1/8" = 1'-0"



KEY PLAN

Schofield Elementary School- Renovations
27 Cedar Street
Wellesley MA

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ISSUE LOG
△ = CLOUDED CHANGE

SCALE	1/8" = 1'-0"
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PROJ.ARCH./ENGR.	JLS
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JOB NO.	13097.00

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EXTERIOR ELEVATIONS

A-201

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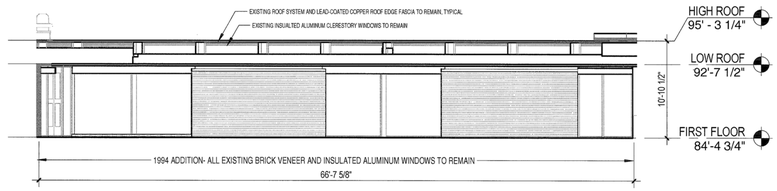
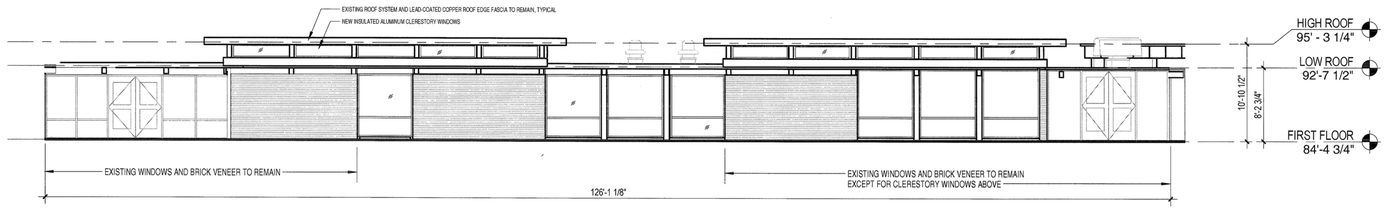
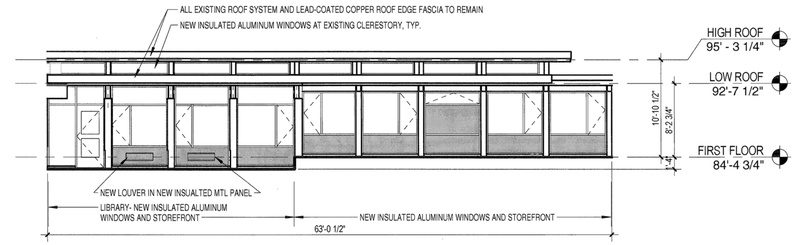


1 EAST ELEVATION- COURTYARD
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION- COURTYARD
SCALE: 1/8" = 1'-0"

3 SOUTH ELEVATION- COURTYARD
SCALE: 1/8" = 1'-0"



4 WEST ELEVATION- COURTYARD
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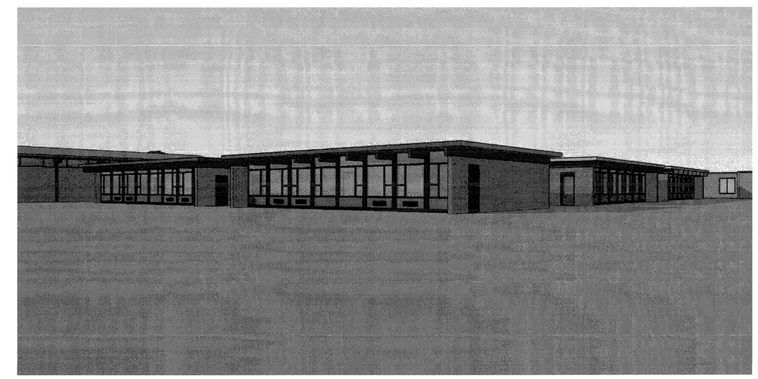
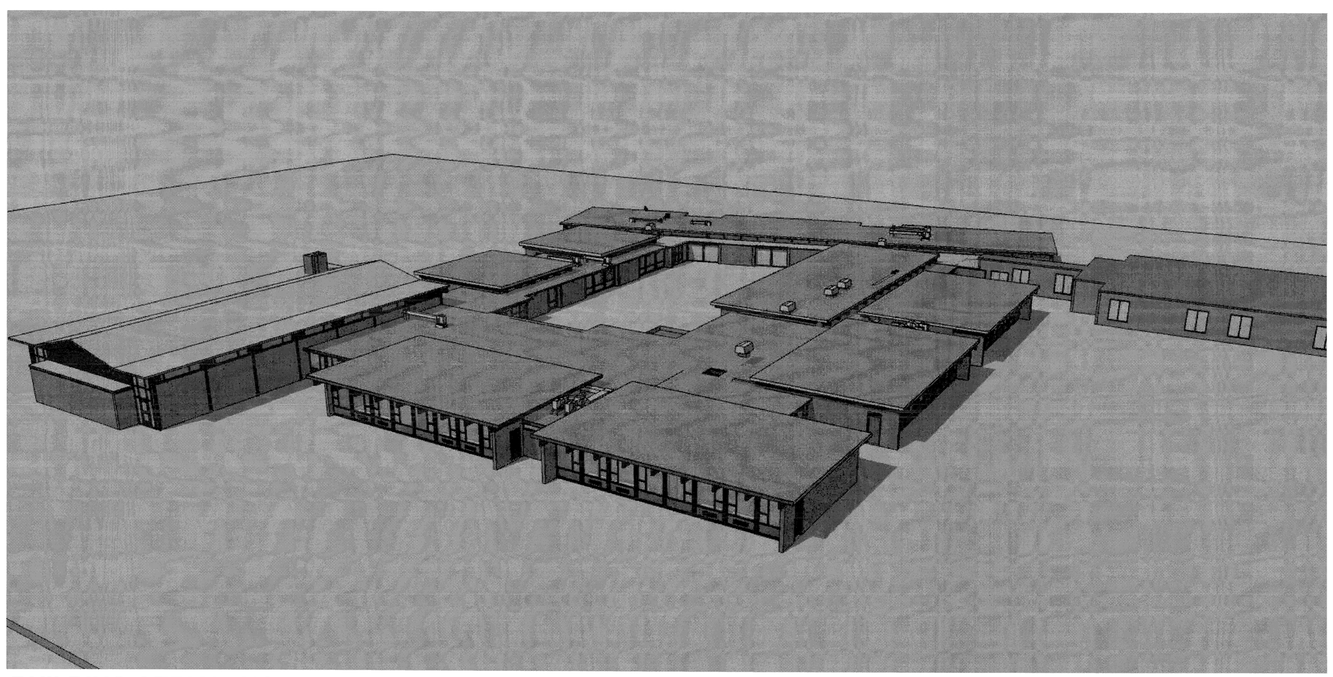
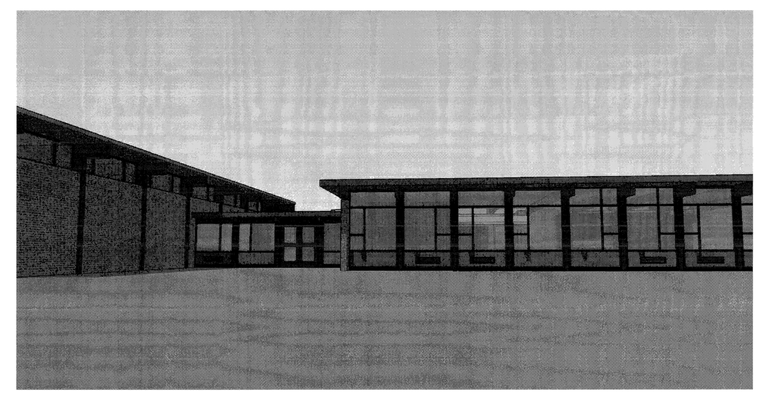


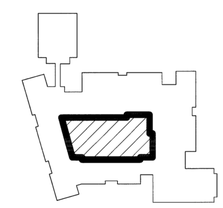
NORTHEAST CORNER



BUILDING AERIAL- NORTHEAST CORNER



FRONT ENTRANCE- EAST ELEVATION



KEY PLAN

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27 Cedar Street
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REGISTERED ARCHITECT JOEL G. SEELIG COMMONWEALTH OF MASSACHUSETTS

SCALE	1/8" = 1'-0"
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EXTERIOR COURTYARD ELEVATIONS AND RENDERINGS

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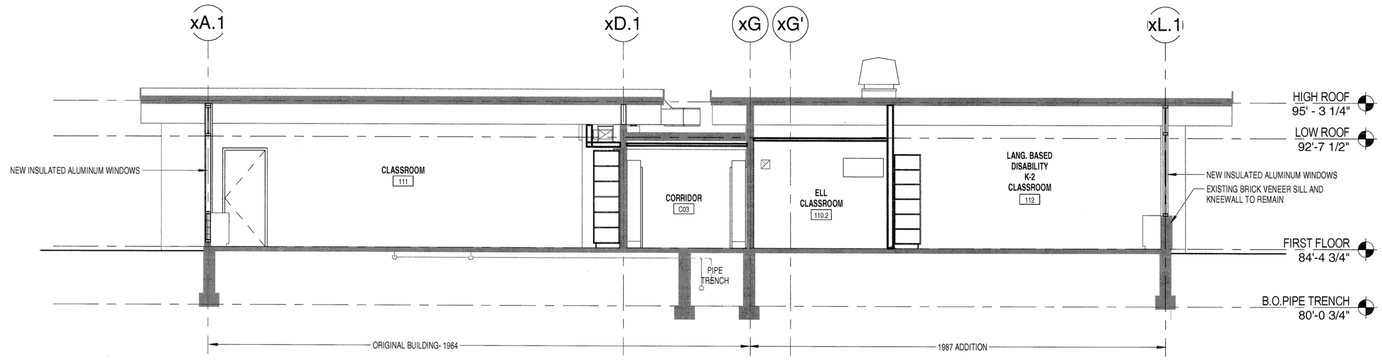

1 CROSS SECTION- THRU 1964 & 1987 CLASSROOMS
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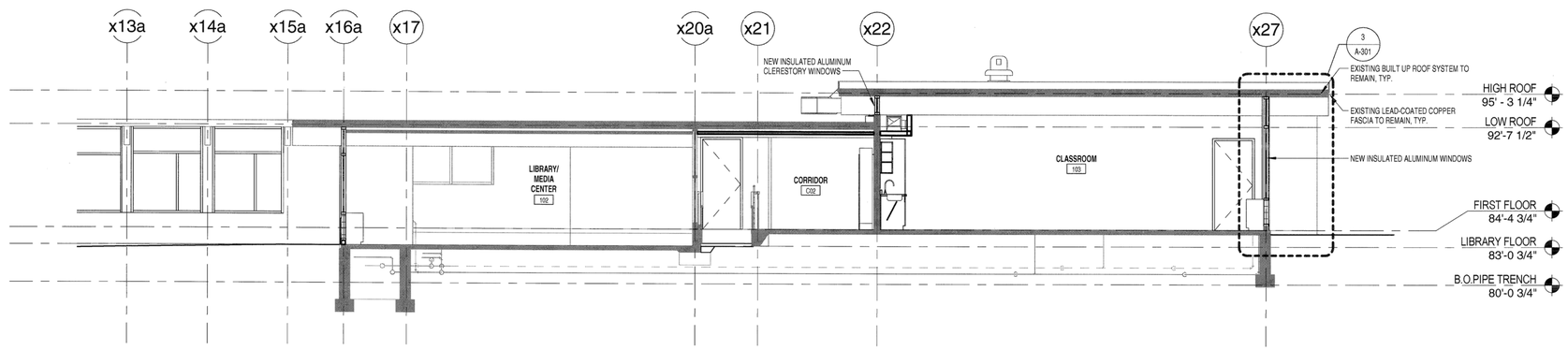

2 CROSS SECTION- THRU LIBRARY AND TYPICAL 1964 CLASSROOM
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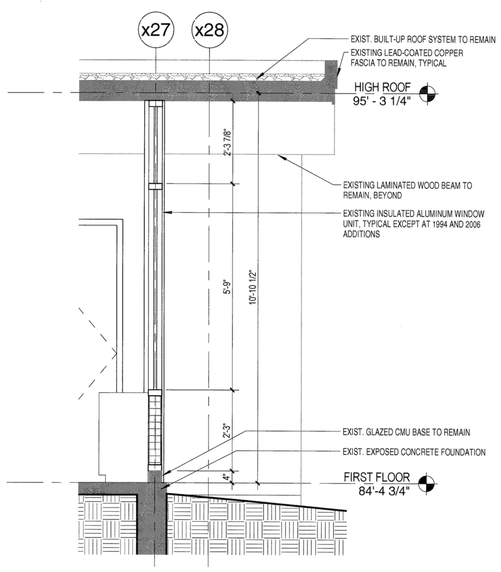

3 EAST WALL SECTION AT CLASSROOM WINDOW
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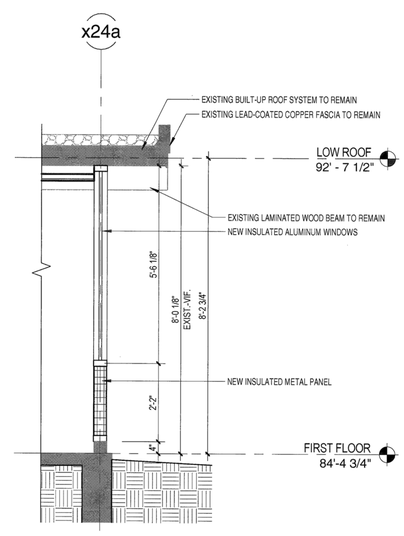

4 WINDOW SECTION AT LOW ROOF
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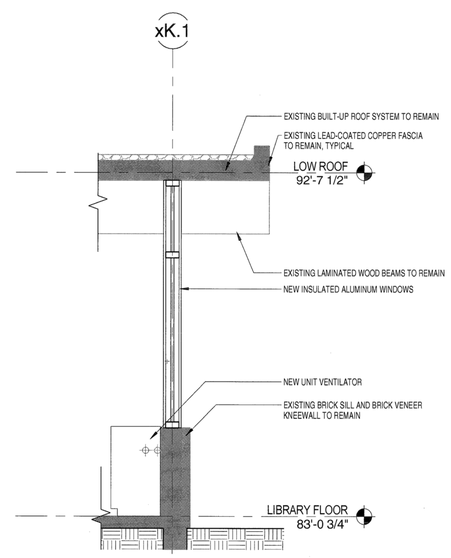

5 SECTION AT LEARNING CTR.
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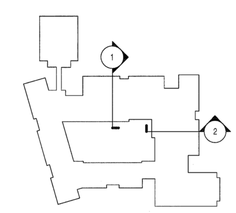

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REGISTERED ARCHITECT JOHN G. SEELEY No. 6017 COMMONWEALTH OF MASSACHUSETTS

SCALE	As Indicated
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JOB NO.	13097.00

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BUILDING SECTIONS

A-301

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