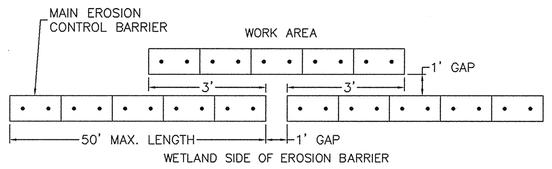
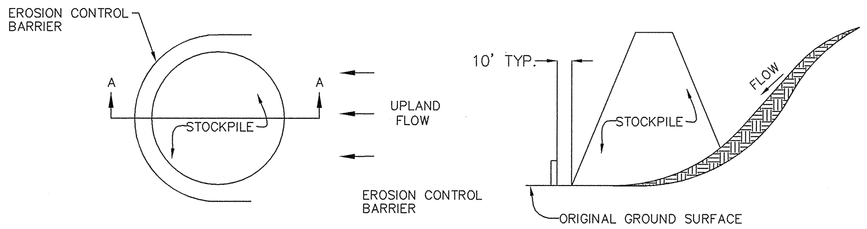


TYPICAL WILDLIFE ACCESS DETAILS

N.T.S.

NOTES:
1. THERE IS TO BE A 1' GAP INSTALLED IN THE EROSION CONTROL EVERY 50' (MAXIMUM) TO ALLOW WILDLIFE CROSSING.
2. GAPS SHALL NOT BE PLACED AT THE LOW POINTS OF THE TOPOGRAPHY.
3. PROTECTIVE ROWS OF STAKED HAYBALES ARE TO BE PLACED 1' UPHILL, ON THE WORK SIDE OF THE MAIN EROSION CONTROL BARRIER.
4. PROTECTIVE ROWS TO BE PLACED WITH A 3' OVERLAP ON EACH SIDE OF THE OPENING IN THE MAIN EROSION CONTROL BARRIER.



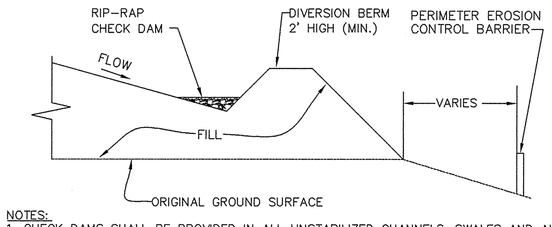
PLAN VIEW

SECTION A-A

NOTES:
1. EROSION CONTROL BARRIER TO EXTEND AROUND DOWNSTREAM PORTION OF STOCKPILE.
2. SEDIMENT TRAPPED BY THE EROSION CONTROL BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF AS NEEDED.
3. EROSION CONTROL BARRIER SHALL BE MAINTAINED IN PLACE UNTIL STOCKPILE HAS BEEN ELIMINATED.

TEMPORARY STOCKPILE DETAIL

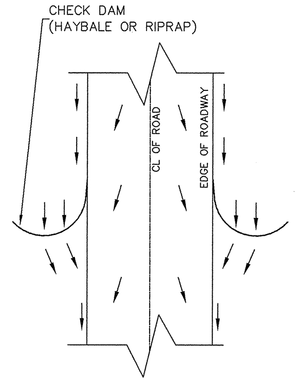
N.T.S.



NOTES:
1. CHECK DAMS SHALL BE PROVIDED IN ALL UNSTABILIZED CHANNELS, SWALES AND ALONG DIVERSION BERMS AS NEEDED.
2. CHECK DAMS SHALL BE CLEANED OUT OF ALL DEBRIS AND SEDIMENT AS NEEDED.
3. ALL SEDIMENTATION BASIN BERMS SHALL BE 4' MIN. IN HEIGHT.

DIVERSION BERM DETAIL (TYP.)

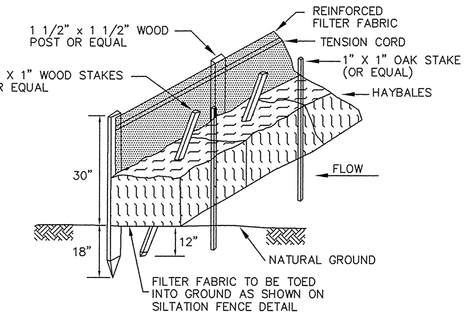
N.T.S.



NOTES:
1. CHECK DAMS SHALL BE INSTALLED AT THE END OF EACH WORKING DAY AND PRIOR TO ANY EXPECTED RAINFALL EVENT.
2. CHECK DAMS SHALL BE PERIODICALLY CLEANED OUT OF ALL DEBRIS AND SILT.
3. CHECK DAMS SHALL BE PROVIDED IN ALL UNPAVED STREET AREAS AS NEEDED.

ROADSIDE CHECK DAM DETAIL

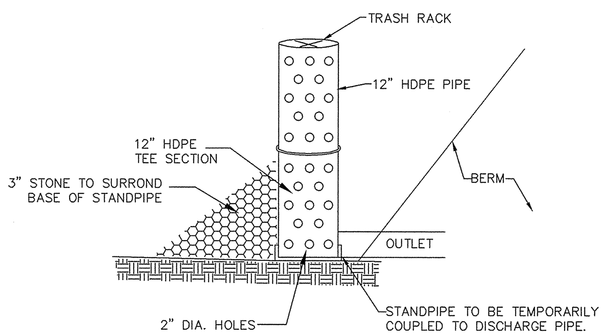
N.T.S.



NOTES:
1. FIRST STAKE ANGLED TOWARDS PREVIOUSLY LAID BALE; SECOND STAKE PERPENDICULAR.
2. WIRE OR NYLON BOUND BALES USUALLY PLACED ON THE CONTOUR.
3. WHERE NECESSARY BALES AND GEOTEXTILE FABRIC WILL BE EMBEDDED 4 INCHES INTO THE GROUND.

EROSION CONTROL BARRIER DETAIL

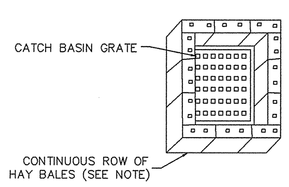
N.T.S.



NOTES:
1. SEDIMENT TO BE REMOVED WHEN ACCUMULATION EXCEEDS 50% THE DESIGN CAPACITY.
2. STANDPIPE TO BE REMOVED AND REPLACED WITH PROPOSED PERMANENT OUTLET CONTROL STRUCTURE UPON STABILIZATION OF UPSTREAM AREAS.
3. CONTRACTOR SHALL REMOVE ALL SEDIMENT PRIOR TO ESTABLISHING FINAL POND GRADES.
4. STANDPIPE ELEVATION TO BE SET AT LEAST 12" BELOW TOP OF BERM.
5. PERFORATED PORTION OF STANDPIPE TO BE WRAPPED IN FILTER FABRIC.

TEMPORARY STANDPIPE DETAIL

N.T.S.



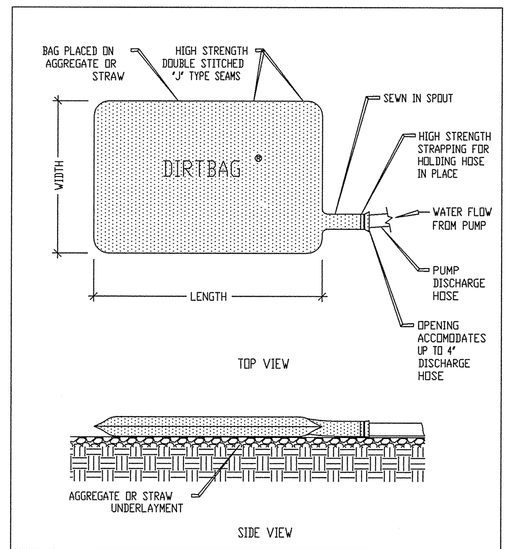
NOTE:
1. HAY BALES TO BE UTILIZED AROUND CATCH BASINS UNTIL SUCH TIME THAT THE BINDER IS PLACED. IN LIEU OF THIS METHOD, CATCH BASIN GRATES MAY BE BLOCKED TO PREVENT SEDIMENT FROM ENTERING THE CATCH BASIN UNTIL SUCH TIME THAT THE BINDER IS PLACED.
2. SILT SACKS ARE TO BE INSTALLED IN CATCH BASINS IN ADDITION TO HAYBALE PROTECTION.

CATCH BASIN PROTECTION DETAIL

N.T.S.

EROSION CONTROL NOTES:

1) THIS SITE IS SUBJECT TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PROGRAM OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND PULTE HOMES. SITE OPERATORS SHALL CONFORM TO MEET THE CRITERIA FOR A NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
2) EROSION CONTROL BARRIER (WHERE SHOWN) REPRESENTS THE LIMIT OF WORK. WHERE NO EROSION CONTROL BARRIER IS REQUIRED (SUCH AS UPSLOPE AREAS), A LIMIT OF WORK LINE HAS BEEN SHOWN.
3) STOCKPILING LOCATIONS SHALL BE FIELD DETERMINED AND SHALL NOT LIE WITHIN THE 100-FOOT WETLAND BUFFER. DIVERSION BERMS AND EROSION CONTROL BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES IN ACCORDANCE WITH THE PLAN AND DETAILS.
4) PROPOSED EROSION AND SEDIMENTATION CONTROL MEASURES WILL INCLUDE SILTATION FENCES, HAY BALES, CRUSHED STONE, RIPRAP, LOAM/SEED, HYDROSEEDING, MULCHING, EROSION CONTROL MATTING, DIVERSION BERMS, AND SEDIMENTATION BASINS AS FURTHER DESCRIBED HEREIN.
5) AS A MINIMUM, SILTATION FENCES, HAY BALES AND CONSTRUCTION FENCE WILL BE USED FOR THE PERIMETER EROSION CONTROL BARRIER AS SHOWN ON THIS PLAN AND ELSEWHERE AS CONDITIONS WARRANT. HAY BALES AND SILT SACS WILL ALSO BE USED TO PROTECT OFFLINE CATCH BASINS (PRIOR TO BINDER) AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF SILTATION FENCE AND HAY BALES ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.
6) CRUSHED STONE AND/OR RIPRAP WILL BE USED TO CONSTRUCT THE TRACKING PADS, CUT SLOPE TREATMENT AREAS, CHECK DAMS, SEDIMENTATION BASIN OUTLET PROTECTION, AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF CRUSHED STONE AND RIPRAP ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.
7) LOAMING AND SEEDING WILL BE USED AS A PERMANENT STABILIZATION MEASURE FOR ALL REVEGETATED AREAS OF THE SITE. HYDROSEEDING MAY BE USED IN CERTAIN AREAS IN LIEU OF STANDARD SEEDING METHODS SHOULD CONDITIONS WARRANT.
8) EROSION CONTROL MATTING WILL BE USED TO REINFORCE SLOPES GREATER THAN 3H:1V AND ELSEWHERE AS CONDITIONS WARRANT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A REASONABLE STOCK OF EROSION CONTROL MATTING ON SITE TO BE ABLE TO SUPPLEMENT OR MAKE REPAIRS AS NECESSARY.
9) MULCHING MAY BE USED TO REINFORCE SEEDED AREAS WHERE EROSION CONTROL MATTING IS NOT REQUIRED OR WARRANTED, BUT WHERE SOME PROTECTION IS WARRANTED. MULCHING MAY ALSO BE USED TO STABILIZE AREAS WHERE CONSTRUCTION ACTIVITIES WILL TEMPORARILY CEASE FOR MORE THAN 14 DAYS.
10) SEDIMENTATION BASINS MAY BE USED THROUGH OUT THE SITE TO TREAT RUNOFF AND SHALL BE SIZED IN ACCORDANCE WITH NPDES REQUIREMENTS AND THE RECOMENDATIONS OF THE EROSION CONTROL MONITOR. DIVERSION BERMS MAY BE UTILIZED TO DIVERT UNTREATED STORMWATER TO THE SEDIMENTATION BASINS. SEDIMENTATION BASINS AND DIVERSION BERMS WILL BE ADDED, REMOVED, AND ADJUSTED AS THE SITE EVOLVES THROUGHOUT THE CONSTRUCTION PROCESS, AS NECESSARY.
11) STABILIZATION MEASURES WILL BE REQUIRED TO BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS IN WHICH CASE STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
12) EROSION AND SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE INSPECTED EITHER ONCE EVERY SEVEN CALENDAR DAYS, OR ONCE EVERY FOURTEEN CALENDAR DAYS AND WITHIN TWENTY-FOUR HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, IN ACCORDANCE WITH NPDES REQUIREMENTS, BY AN EROSION CONTROL MONITOR. COPIES OF THE NPDES INSPECTION REPORTS SHALL BE KEPT ON SITE. THE SITE CONTRACTOR SHALL FOLLOW THE RECOMENDATIONS OF THE EROSION CONTROL MONITOR.
13) EROSION AND SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT TO ENSURE THAT THEY FUNCTION AS INTENDED. DEFICIENCIES WILL BE CORRECTED BY CLEANING, REPAIRING, OR REPLACING THE AFFECTED CONTROL(S) OR PORTION(S) THEREOF TO REESTABLISH PROPER FUNCTIONING AS QUICKLY AS POSSIBLE. SEDIMENTATION CONTROLS WILL BE REQUIRED TO BE CLEANED OR REPLACED WHEN THE ACCUMULATED SEDIMENT EXCEEDS 50 PERCENT OF THE DESIGN CAPACITY OF THE CONTROL. ANY OFF-SITE ACCUMULATIONS OF SEDIMENT WILL BE REQUIRED TO BE REMOVED AS QUICKLY AS POSSIBLE IN A MANNER THAT MINIMIZES ADDITIONAL DISTURBANCE. THIS INCLUDES STREET SWEEPING OF SURROUNDING STREETS AS NECESSARY.
14) CRUSHED STONE TRACKING PADS SHALL BE USED WHERE ANY TEMPORARY CONSTRUCTION ENTRANCE ARE LOCATED ADJACENT TO ANY EXISITNG TRAVELED WAY OR DRIVEWAY.



DETAIL OF DIRTBAG PUMPED SILT CONTROL SYSTEM

PROJECT:		
CITY:		DR. BY:
STATE:	DATE:	DR. NO:

REGISTRY USE ONLY

APPROVED BY THE TOWN OF READING PLANNING BOARD — DATE

REV.	DESCRIPTION	DATE
5	MISC. REVISIONS	6/27/11
4	ENGINEERING COMMENTS	3/14/11
3	CON. COM. REVISIONS	3/9/11
2	CPDC COMMENTS	2/15/11
1	CON. COM. REVISIONS	2/8/11

DRW: DSG: CHK:

DETAIL SHEET

READING WOODS
in
READING, MA
Prepared For
PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

Marchionda & Associates, L.P.
Engineering and Planning Consultants
62 Montvale Avenue
Suite I
Stoneham, MA 02180
TEL: (781) 438-6121
FAX: (781) 438-9654
Email: engineering@marchionda.com
Website: www.marchionda.com

COMMONWEALTH OF MASSACHUSETTS — PAUL A. MARCHIONDA — CIVIL — No. 30015 — REGISTERED PROFESSIONAL ENGINEER
6-3-11

DATE: 1/4/11
H:\PROJECTS\487-187\PLANS\PB\6-2011\DETAILS.DWG
M. & A. NO.: 487-187 | SCALE: NOT TO SCALE

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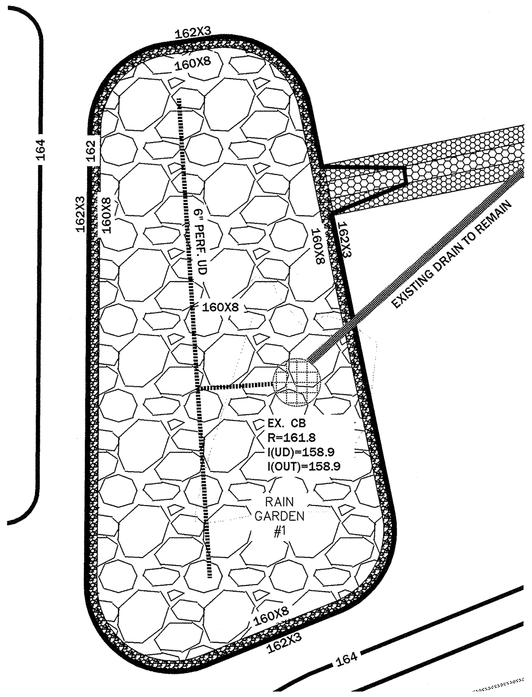
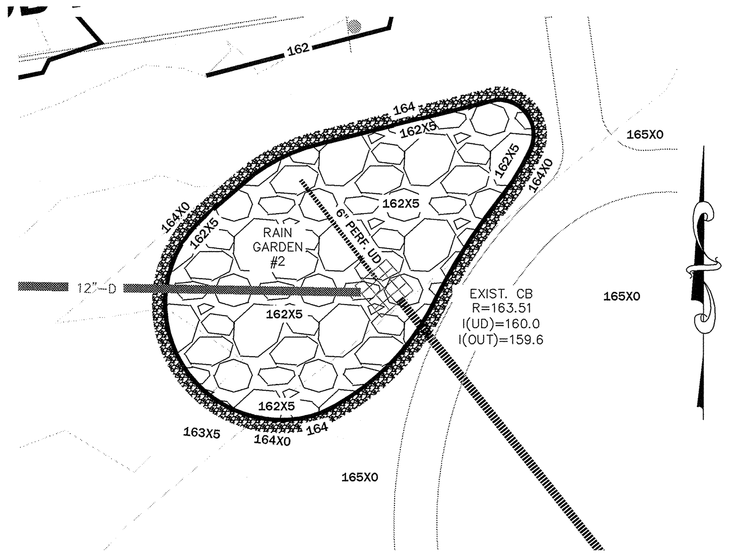


RAIN GARDEN #1
SCALE: 1" = 10'



RAIN GARDEN #2
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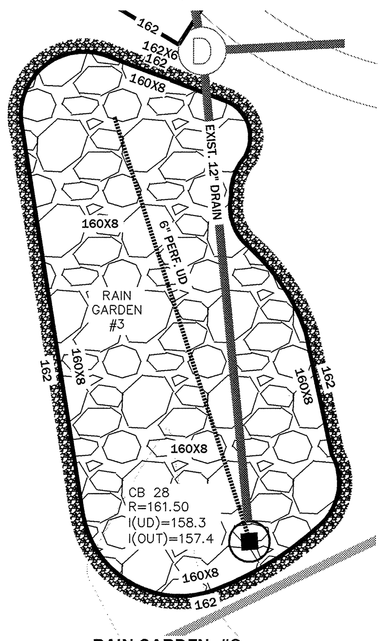

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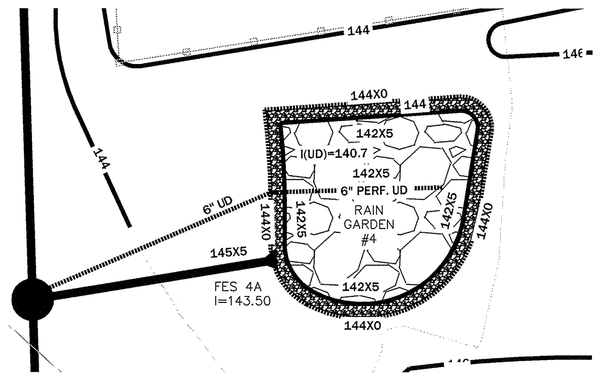

RAIN GARDEN #4
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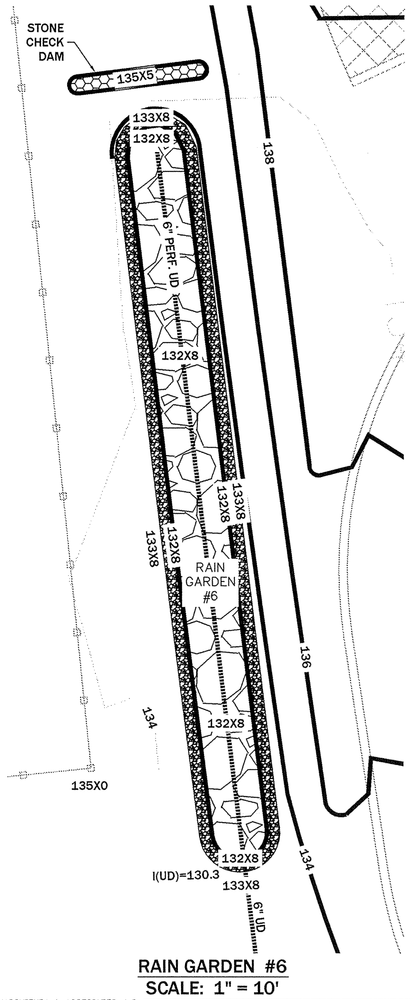
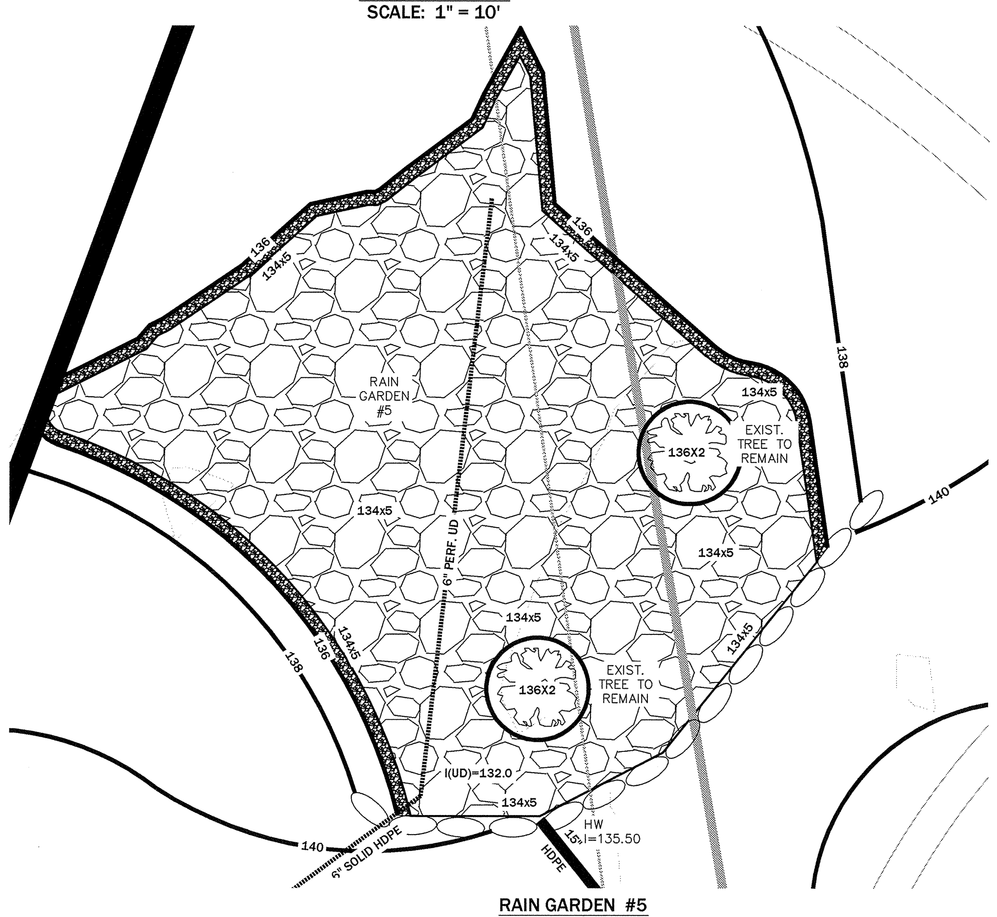
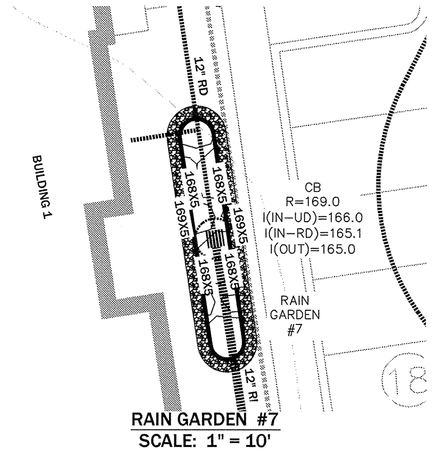


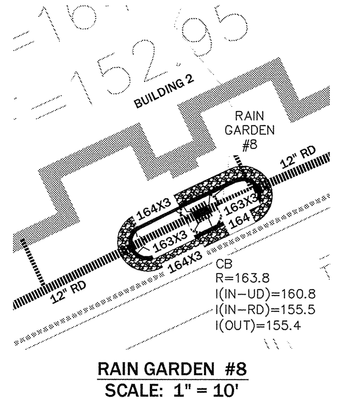
RAIN GARDEN #6
SCALE: 1" = 10'



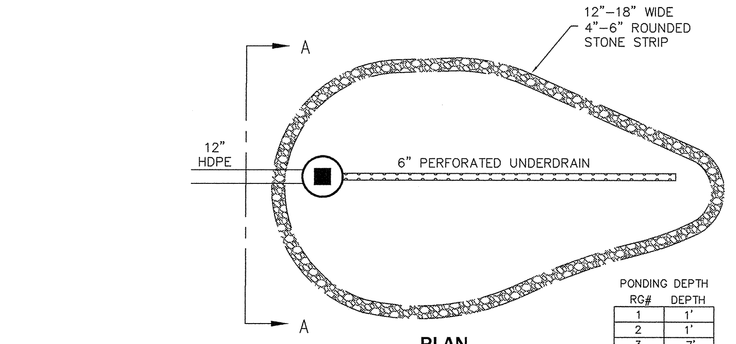
RAIN GARDEN #5
SCALE: 1" = 10'



RAIN GARDEN #7
SCALE: 1" = 10'

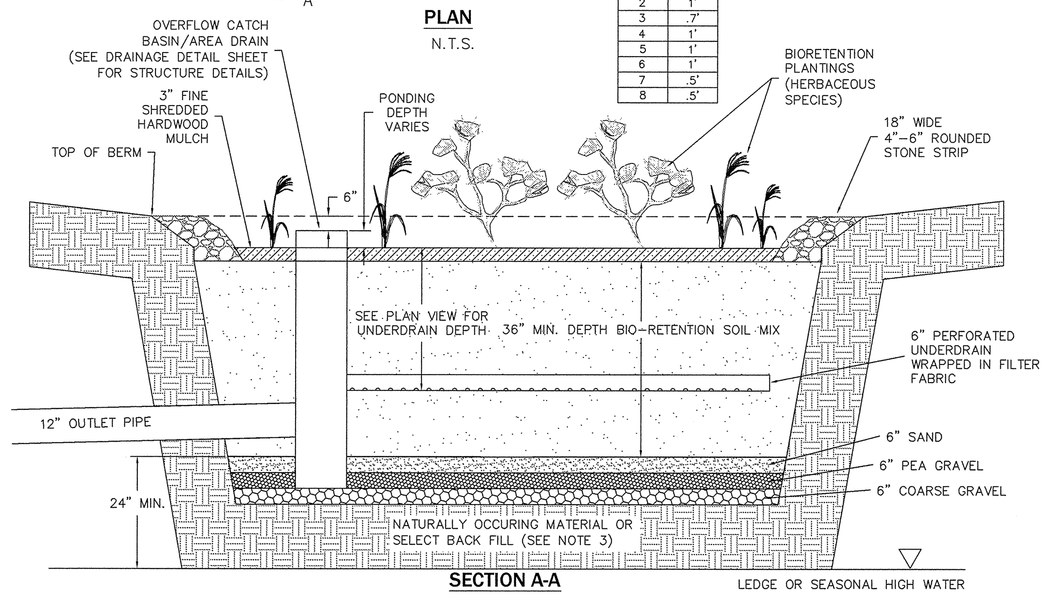


RAIN GARDEN #8
SCALE: 1" = 10'



PLAN
N.T.S.

PONDING DEPTH	
RG#	DEPTH
1	1'
2	1'
3	.7'
4	1'
5	1'
6	1'
7	.5'
8	.5'



SECTION A-A
N.T.S.

BIORETENTION AREA DESIGN NOTES:
1. THE BIORETENTION HERBACEOUS SPECIES PLANTINGS SHALL BE SELECTED FROM THE RECOMMENDED SPECIES LISTED IN THE DEP STORMWATER MANUAL AND APPROVED BY THE LANDSCAPE ARCHITECT
2. THE BIORETENTION SOIL SHOULD HAVE A pH BETWEEN 5.5 AND 6.5. THE SOIL MIX SHOULD BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN 2" IN DIAMETER. CLAY CONTENT SHALL NOT EXCEED 5%.
3. ANY UNSUITABLE FILL MATERIALS (SUCH AS ORGANICS, STUMPS, ETC.) THAT EXIST BELOW THE BIO RETENTION AREA SHALL BE REMOVED TO EXPOSE THE EXISTING SUBGRADE. THE EXCAVATED AREA SHALL BE FILLED WITH CLEAN, ORGANIC FREE, SANDY LOAM, FREE FROM ANY FINES OR DEBRIS. ANY FILL USED SHALL HAVE AN INFILTRATION RATE OF 8 INCHES PER HOUR OR FASTER AFTER PLACEMENT.
4. USE SOILS WITH 1.5% – 3% ORGANIC CONTENT AND MAXIMUM 500–PPM SOLUBLE SALTS.
5. THE TOPSOIL COMPONENT SHALL BE SANDY LOAM, LOAMY SAND OR LOAM TEXTURE.
6. THE COMPOST COMPONENT SHALL NOT CONTAIN BIOSOLIDS.
7. THE BOTTOM OF THE BIO RETENTION SOIL MIX MUST BE A MINIMUM OF 2' ABOVE SEASONAL HIGH WATER OR SUBSURFACE LEDGE.
8. RAIN GARDENS SHALL BE PROTECTED BY STAKED HAYBALES AROUND THE FULL PERIMETER TO PREVENT SEDIMENT CONTAMINATION AND SOIL COMPACTION.
9. PRIOR TO THE PLACEMENT OF ANY STONE OR FILL MATERIAL, THE BOTTOM OF EXCAVATION SHALL BE INSPECTED BY THE DESIGN ENGINEER ACCOMPANIED BY AN AGENT OF THE CONSERVATION COMMISSION.

BIO–RETENTION SOIL MIX

40%	SAND
20–30%	TOPSOIL
30–40%	COMPOST

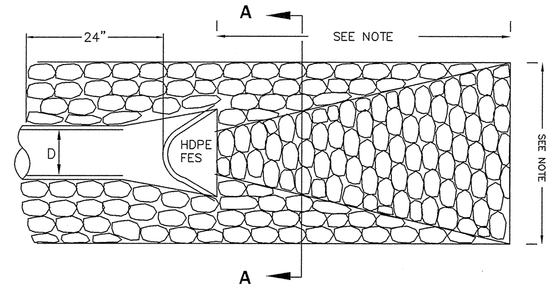
SOIL MIX SAND COMPONENT

SIEVE	% PASSING
2"	100
3/4"	70–100
1/4"	50–80
US #40	15–40
US #200	0–3

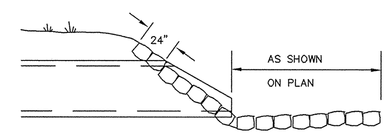
BIORETENTION / RAIN GARDEN PLANT LIST

1. PLANTINGS WITHIN EACH OF THE EIGHT (8) BIORETENTION / RAIN GARDEN AREAS SHALL BE AS OUTLINED BELOW. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

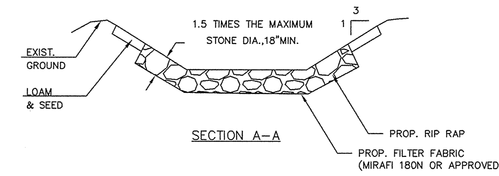
		QUANTITY								
PLANT MATERIAL	SIZE	RG#1	RG#2	RG#3	RG#4	RG#5	RG#6	RG#7	RG#8	TOTAL
ACER RUBRUM - RED MAPLE	1.5–2" CAL.	3	3	2	1	3	4	-	-	16
AMELANCHIER CANDENSIS - SHADBLOW	4–5' HT.	6	6	4	3	12	6	-	-	42
VACCINIUM CORYBOSUM - HIGHBUSH BLUEBERRY	#3 POT	22	22	30	12	50	22	3	3	164
VIBURNUM DENTATUM - ARROWWOOD	2'-3' HT.	13	13	20	7	26	13	2	2	96
CORNUS AMOMUM (SILKY DOGWOOD)	2'-3' HT.	8	8	12	5	23	8	2	2	68
NEW ENGLAND ASTER	#1 POT	12	12	18	7	20	14	2	2	87
MARSH MARIGOLD	#1 POT	10	10	15	6	24	11	4	4	84
TUSSOCK SEDGE	#1 POT	8	8	12	5	18	6	4	4	65
TURTLE HEAD	#1 POT	8	8	12	5	23	8	6	6	76
BUTTERFLY WEED	#1 POT	9	9	14	6	14	12	2	2	73
BEE BALM	#1 POT	12	12	18	8	24	10	4	4	92



W/FLARED END SECTION



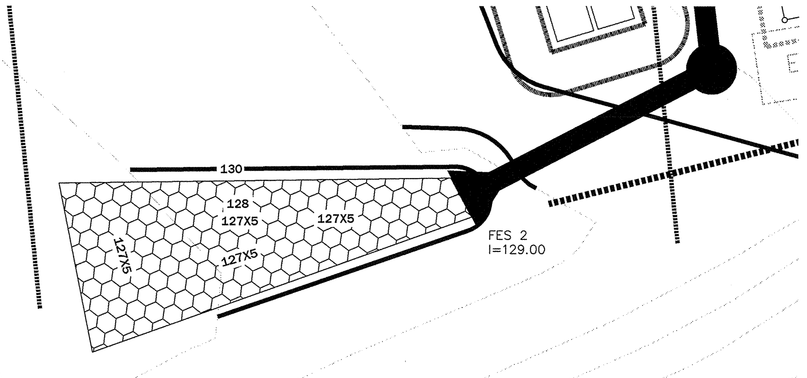
PROFILE



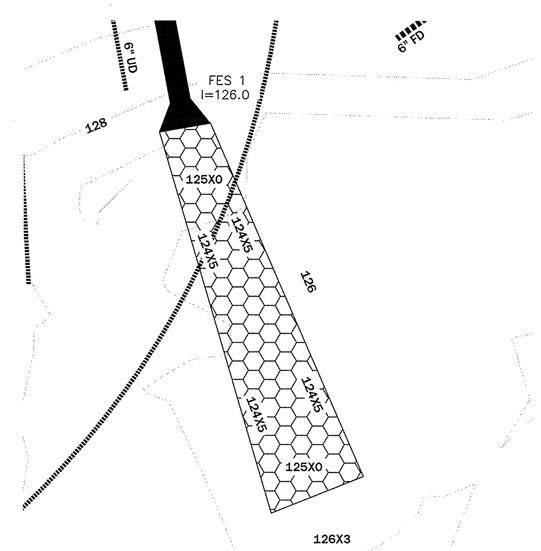
SECTION A–A

NOTES:
1. REFER TO SITE PLAN FOR ACTUAL APRON LENGTH AND WIDTH (VARIES BY LOCATION).
2. RIPRAP SHALL CONFORM TO MHD M2.02.3 "STONE FOR PIPE ENDS".

RIP - RAP APRON DETAIL
NOT TO SCALE



FES #2
SCALE: 1" = 10'



FES #1
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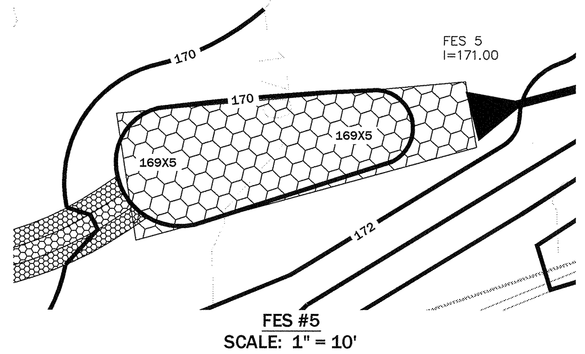

FES #5
SCALE: 1" = 10'

10 5 0 10 20 30
SCALE: 1" = 10'

REGISTRY USE ONLY

APPROVED BY THE TOWN OF READING PLANNING BOARD

DATE

REV.	DESCRIPTION	DATE	DSG:	DRW:	CHK:
5.	MISC. REVISIONS	6/17/11			
4.	ENGINEERING COMMENTS	3/14/11			
3.	CON. COM. REVISIONS	3/9/11			
2.	CPDC COMMENTS	2/15/11			
1.	CON. COM. REVISIONS	2/8/11			

DETAIL SHEET

READING WOODS
in
READING, MA
Prepared For
PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

Marchionda & Associates, L.P.
Engineering and Planning Consultants
62 Montvale Avenue
Suite I
Stoneham, MA 02180
TEL: (781) 438–6121
FAX: (781) 438–9654
Email: engineering@marchionda.com
Website: www.marchionda.com

PAULA MARCHIONDA CIVIL No. 30015 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS
6-9-11

DATE: 1/4/11
H:\PROJECTS\487-187\PLANS\PB\6-2011\DETAILS.DWG
M. & A. NO.: 487-187 | SCALE: AS NOTED
SHEET 26 OF 36

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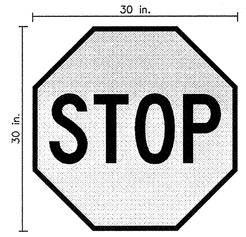
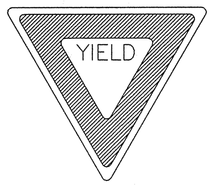


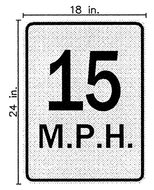
R1-1



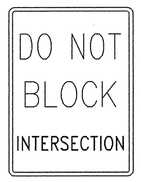
R1-2
(30" x 30")

R3-4
(12" x 12")

R7-1



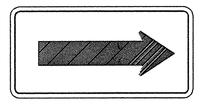
SL-15



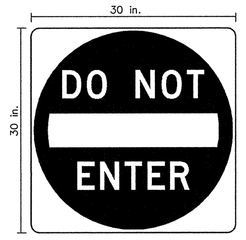
R10-7
(18" x 24")

W17-1

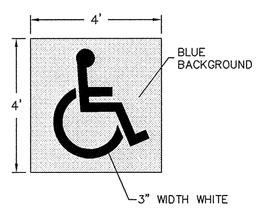
SPECIAL(DEVO)
(18" x 24")



W1-6R
(12" x 24")

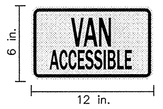


R5-1



PAVEMENT MARKING

SPECIAL (HP)

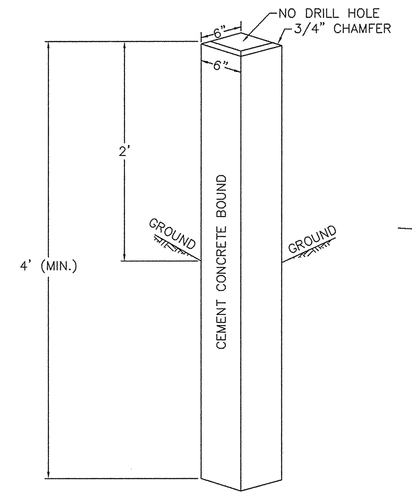


R7-8a

SIGNAGE

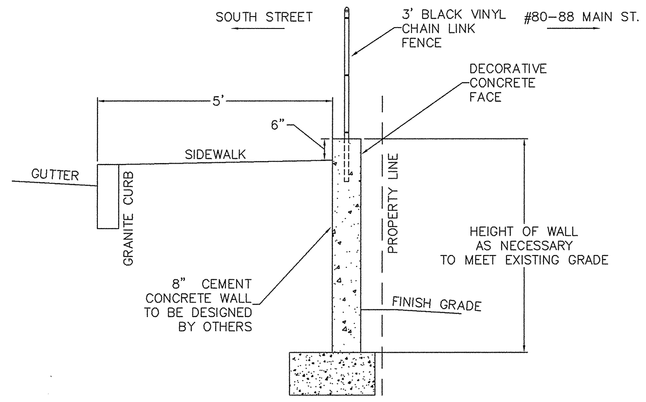
NOTES:
1. REFER TO LAYOUT PLANS FOR LOCATIONS OF ACCESSIBLE SURFACE PARKING SPACES, AND ARCHITECTURAL PLANS FOR LOCATIONS OF ACCESSIBLE GARAGE SPACES.
2. EACH ACCESSIBLE SPACE SHALL INCLUDE PAVEMENT MARKING AND SIGNAGE.

ACCESSIBLE PARKING SPACE DESIGNTATION
N.T.S.

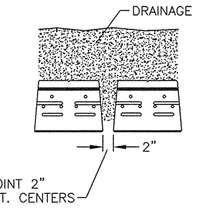


WETLAND ENHANCEMENT AREA CONCRETE MARKER DETAIL
(N.T.S.)

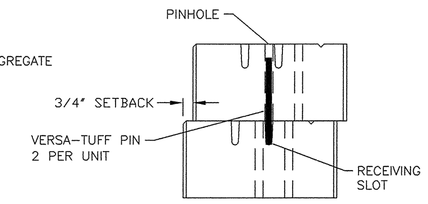
NOTES:
1. CONCRETE MARKERS ARE TO BE SET ALONG THE NORTHERN EDGE OF THE WETLAND ENHANCEMENT AREA BEHIND BUILDING #7.
2. MARKERS ARE TO BE SET AT ALL ANGLE POINTS IN THE ENHANCEMENT AREA WITH A MAXIMUM SPACING OF 40 FEET.
3. CONCRETE MARKERS ARE TO BE 4' (MIN.) LENGTH, WITH 2' EXPOSED ABOVE GRADE.



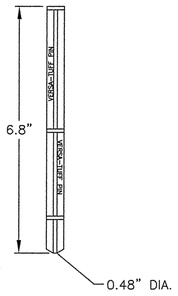
CEMENT CONCRETE WALL ALONG SOUTH STREET
RIGHT IOF WAY AT #80-88 MAIN STREET
N.T.S.



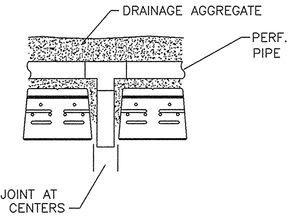
DRAIN DETAIL
WALLS UNDER 4' (IF REQUIRED)
SCALE: NONE



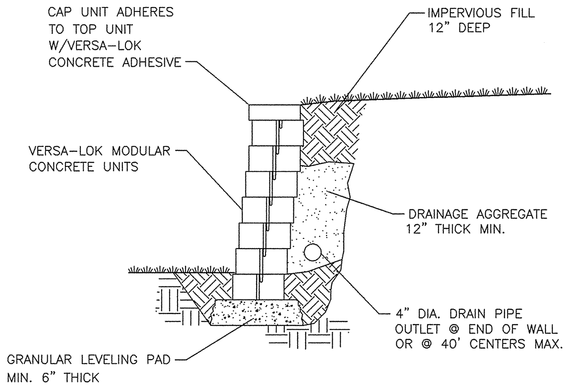
PINNING DETAIL
CROSS SECTION
SCALE:NONE



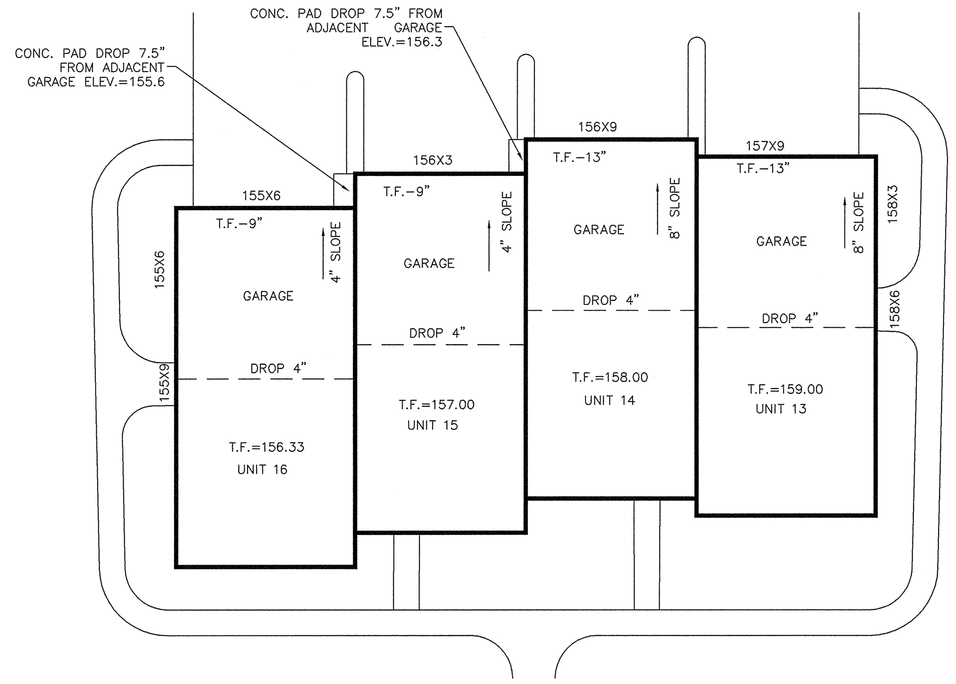
VERSA-TUFF PIN
PIN DIMENSIONS
SCALE: NONE



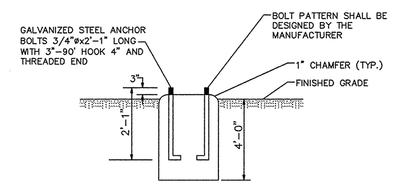
DRAIN DETAIL
WALLS OVER 4'
SCALE: NONE



TYPICAL SECTION-UNREINFORCED RETAINING WALL
SCALE: NONE



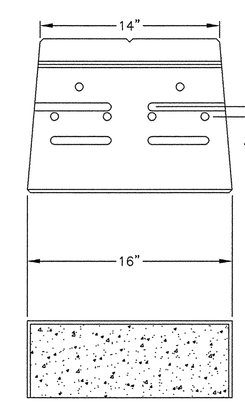
TYPICAL TOWNHOUSE GARAGE AND ENTRYWAY ELEVATIONS
N.T.S.

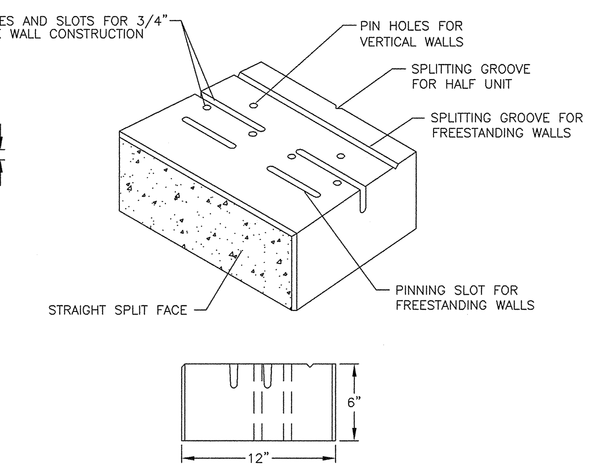


ELEVATION

NOTES:
1. DISTANCE FROM CENTERLINE OF FOUNDATION TO FACE OF CURB TO BE 3'-0" (MIN.). SEE LIGHTING PLAN FOR LUMINAIRE LOCATIONS.
2. FOUNDATION AND ANCHOR BOLT SIZING MAY BE VARIED AS RECOMMENDED BY POLE MANUFACTURER.
3. SEE LIGHTING PLAN FOR LUMINAIRE AND POLE SPECIFICATIONS.

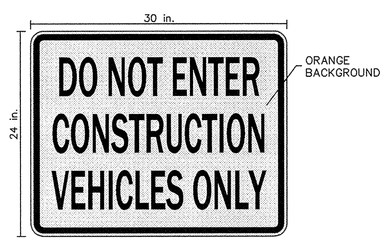
LUMINAIRE FOUNDATION DETAILS
N.T.S.





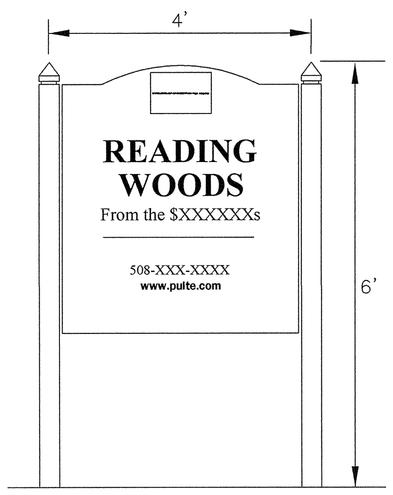
VERSA-LOK UNIT
UNIT DIMENSIONS
SCALE: NONE

TEMPORARY SIGNS

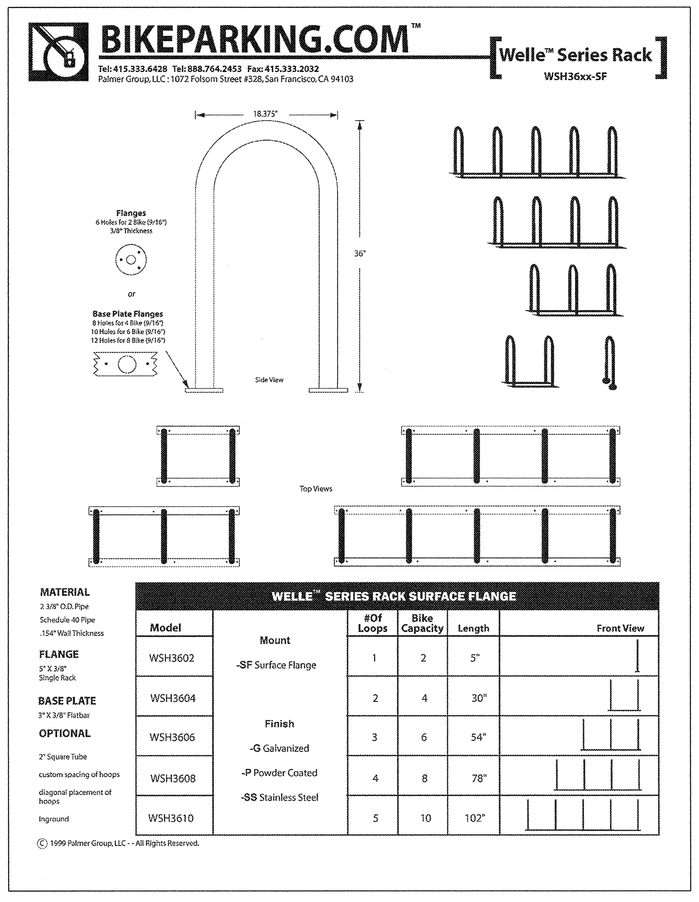


CONSTRUCTION VEHICLES ONLY SIGN (CVO)
N.T.S.

4'x4' HARD HAT SIGN (T-4)
N.T.S.



TEMPORARY COMMUNITY SIGN (T-1)
N.T.S.



MATERIAL	WELLE™ SERIES RACK SURFACE FLANGE					
2 3/8" O.D. Pipe Schedule 40 Pipe .154" Wall Thickness	Model	Mount -SF Surface Flange	#Of Loops	Bike Capacity	Length	Front View
FLANGE 5" X 3/8" Single Rack	WSH3602		1	2	5"	
BASE PLATE 3" X 3/8" Flatbar	WSH3604	Finish -G Galvanized	2	4	30"	
OPTIONAL 2" Square Tube	WSH3606		3	6	54"	
custom spacing of hoops diagonal placement of hoops	WSH3608	-P Powder Coated -SS Stainless Steel	4	8	78"	
Inground	WSH3610		5	10	102"	

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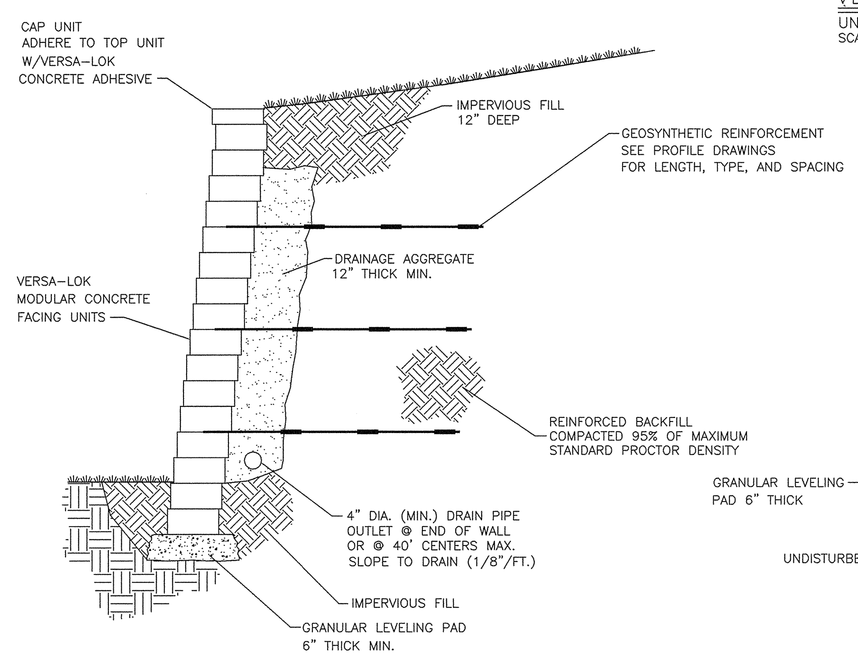
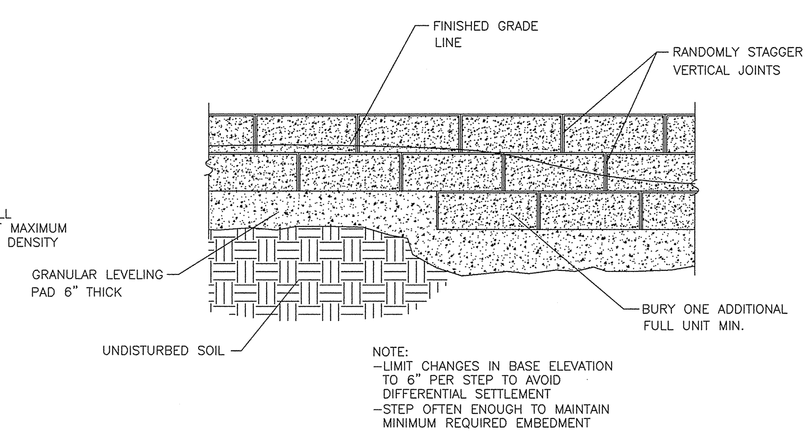


TYPICAL SECTION-REINFORCED RETAINING WALL
MODULAR CONCRETE UNIT
SCALE: NONE



NOTE:
-LIMIT CHANGES IN BASE ELEVATION TO 6" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT
-STEP OFTEN ENOUGH TO MAINTAIN MINIMUM REQUIRED EMBEDMENT

STEPPING BASE DETAIL
SCALE: NONE

NOTES:
1) WALL TO BE VERSA-LOCK OR APPROVED EQUAL.
2) THIS DETAIL CONTAINS SEVERAL CONSTRUCTION DETAILS WHICH ARE INTENDED AS AN AID. FINAL DETERMINATION OF THE SUITABILITY OF ANY INFORMATION OR MATERIAL FOR THE USE CONTEMPLATED, AND ITS MANNER OF USE, IS THE SOLE RESPONSIBILITY OF THE USER. A FINAL PROJECT SPECIFIC DESIGN SHOULD BE PREPARED BY A QUALIFIED, LICENSED, PROFESSIONAL ENGINEER.

ENGINEERED WALL DETAILS
N.T.S.

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5	MISC. REVISIONS	6/27/11
4	ENGINEERING COMMENTS	3/14/11
3	CON. COM. REVISIONS	3/9/11
2	CPDC COMMENTS	2/15/11
1	CON. COM. REVISIONS	2/8/11

DRW: DSG: CHK:

DETAIL SHEET

READING WOODS
in
READING, MA
Prepared For
PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

Marchionda & Associates, L.P.
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Email: engineering@marchionda.com
Website: www.marchionda.com

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SHEET 27 OF 36

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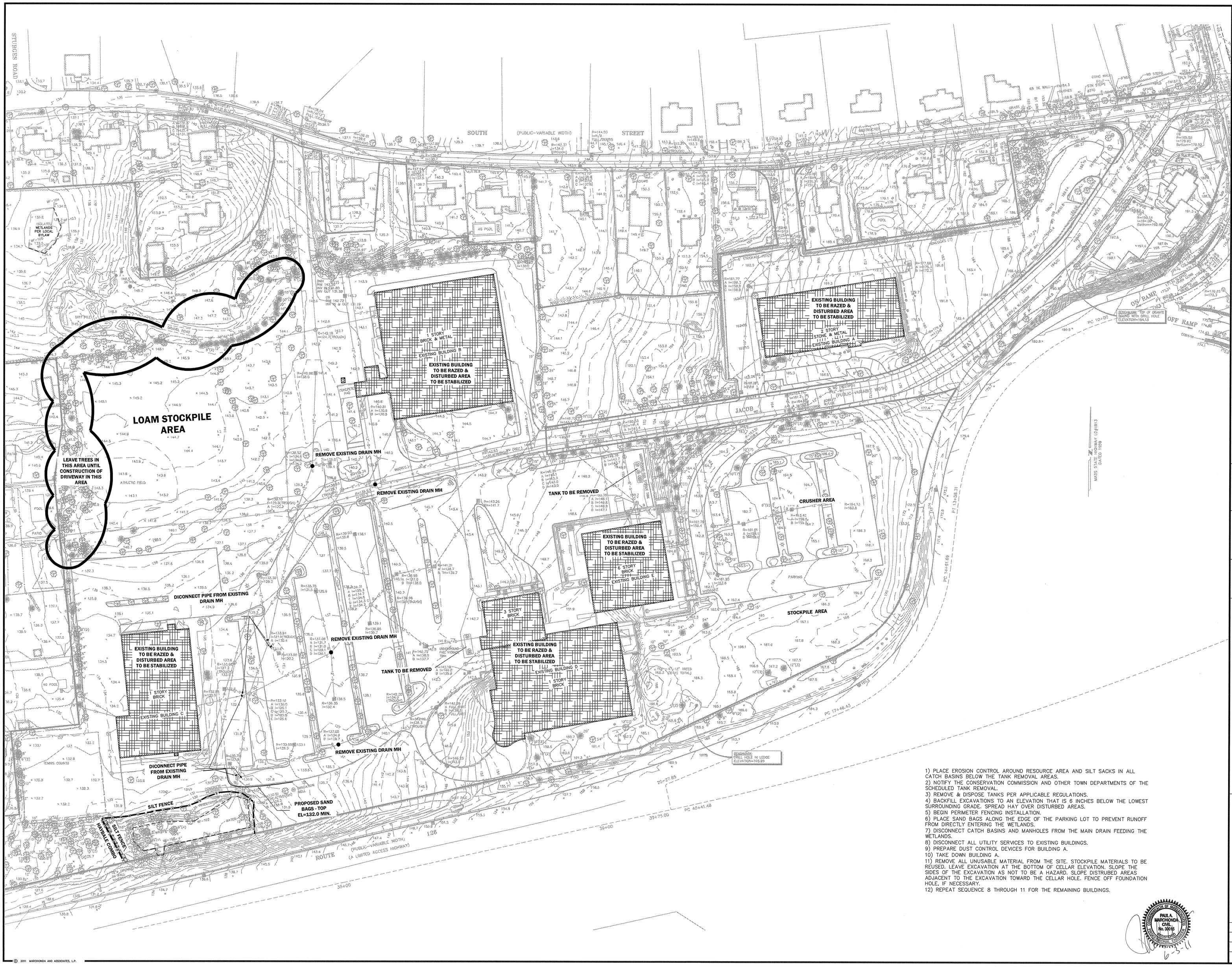

1) PLACE EROSION CONTROL AROUND RESOURCE AREA AND SILT SACKS IN ALL CATCH BASINS BELOW THE TANK REMOVAL AREAS.
2) NOTIFY THE CONSERVATION COMMISSION AND OTHER TOWN DEPARTMENTS OF THE SCHEDULED TANK REMOVAL.
3) REMOVE & DISPOSE TANKS PER APPLICABLE REGULATIONS.
4) BACKFILL EXCAVATIONS TO AN ELEVATION THAT IS 6 INCHES BELOW THE LOWEST SURROUNDING GRADE. SPREAD HAY OVER DISTURBED AREAS.
5) BEGIN PERIMETER FENCING INSTALLATION.
6) PLACE SAND BAGS ALONG THE EDGE OF THE PARKING LOT TO PREVENT RUNOFF FROM DIRECTLY ENTERING THE WETLANDS.
7) DISCONNECT CATCH BASINS AND MANHOLES FROM THE MAIN DRAIN FEEDING THE WETLANDS.
8) DISCONNECT ALL UTILITY SERVICES TO EXISTING BUILDINGS.
9) PREPARE DUST CONTROL DEVICES FOR BUILDING A.
10) TAKE DOWN BUILDING A.
11) REMOVE ALL UNUSABLE MATERIAL FROM THE SITE. STOCKPILE MATERIALS TO BE REUSED. LEAVE EXCAVATION AT THE BOTTOM OF CELLAR ELEVATION. SLOPE THE SIDES OF THE EXCAVATION AS NOT TO BE A HAZARD. SLOPE DISTRUBED AREAS ADJACENT TO THE EXCAVATION TOWARD THE CELLAR HOLE. FENCE OFF FOUNDATION HOLE, IF NECESSARY.
12) REPEAT SEQUENCE 8 THROUGH 11 FOR THE REMAINING BUILDINGS.

COMMONWEALTH OF MASSACHUSETTS
PAUL A. MARCHIONDA
CIVIL
No. 30015
PROFESSIONAL ENGINEER
6-3-11

REGISTRY USE ONLY

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5	MISC. REVISIONS		6/3/11	
4	ENGINEERING COMMENTS		3/14/11	
3	CON. COM. REVISIONS		3/9/11	
2	GPDC COMMENTS		2/15/11	
1	CON. COM. REVISIONS		2/8/11	
REV	DESCRIPTION		DATE	

SEQUENCE 1

READING WOODS
in
READING, MA

Prepared For
PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

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SHEET 28 OF 37

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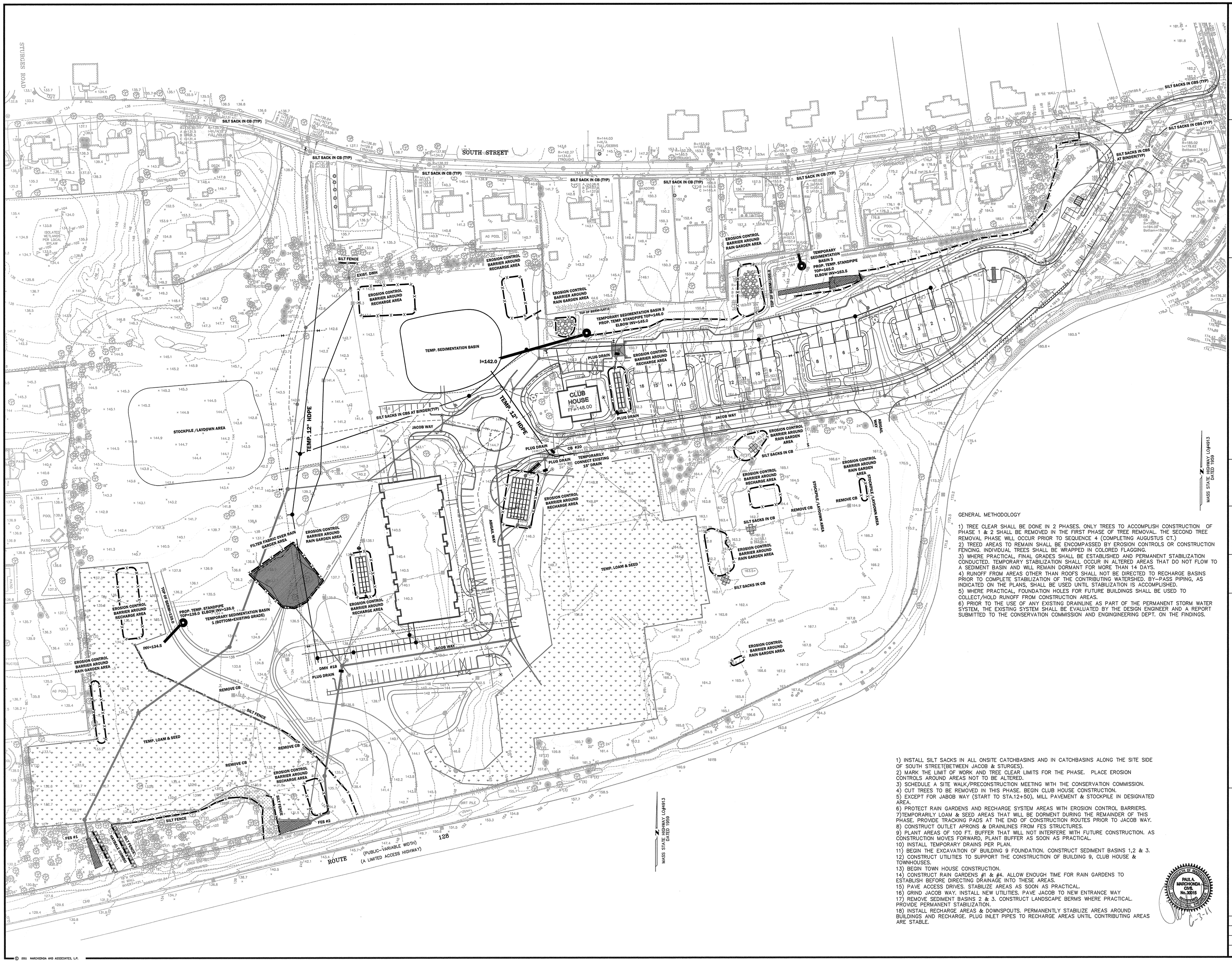

GENERAL METHODOLOGY

1) TREE CLEAR SHALL BE DONE IN 2 PHASES. ONLY TREES TO ACCOMPLISH CONSTRUCTION OF PHASE 1 & 2 SHALL BE REMOVED IN THE FIRST PHASE OF TREE REMOVAL. THE SECOND TREE REMOVAL PHASE WILL OCCUR PRIOR TO SEQUENCE 4 (COMPLETING AUGUSTUS CT.)
2) TREED AREAS TO REMAIN SHALL BE ENCOMPASSED BY EROSION CONTROLS OR CONSTRUCTION FENCING. INDIVIDUAL TREES SHALL BE WRAPPED IN COLORED FLAGGING.
3) WHERE PRACTICAL, FINAL GRADES SHALL BE ESTABLISHED AND PERMANENT STABILIZATION CONDUCTED. TEMPORARY STABILIZATION SHALL OCCUR IN ALTERED AREAS THAT DO NOT FLOW TO A SEDIMENT BASIN AND WILL REMAIN DORMANT FOR MORE THAN 14 DAYS.
4) RUNOFF FROM AREAS OTHER THAN ROOFS SHALL NOT BE DIRECTED TO RECHARGE BASINS PRIOR TO COMPLETE STABILIZATION OF THE CONTRIBUTING WATERSHED. BY-PASS PIPING, AS INDICATED ON THE PLANS, SHALL BE USED UNTIL STABILIZATION IS ACCOMPLISHED.
5) WHERE PRACTICAL, FOUNDATION HOLES FOR FUTURE BUILDINGS SHALL BE USED TO COLLECT/HOLD RUNOFF FROM CONSTRUCTION AREAS.
6) PRIOR TO THE USE OF ANY EXISTING DRAINLINE AS PART OF THE PERMANENT STORM WATER SYSTEM, THE EXISTING SYSTEM SHALL BE EVALUATED BY THE DESIGN ENGINEER AND A REPORT SUBMITTED TO THE CONSERVATION COMMISSION AND ENGINGINEERING DEPT. ON THE FINDINGS.

1) INSTALL SILT SACKS IN ALL ONSITE CATCHBASINS AND IN CATCHBASINS ALONG THE SITE SIDE OF SOUTH STREET(BETWEEN JACOB & STURGES).
2) MARK THE LIMIT OF WORK AND TREE CLEAR LIMITS FOR THE PHASE. PLACE EROSION CONTROLS AROUND AREAS NOT TO BE ALTERED.
3) SCHEDULE A SITE WALK/PRECONSTRUCTION MEETING WITH THE CONSERVATION COMMISSION.
4) CUT TREES TO BE REMOVED IN THIS PHASE. BEGIN CLUB HOUSE CONSTRUCTION.
5) EXCEPT FOR JABOB WAY (START TO STA.12+50), MILL PAVEMENT & STOCKPILE IN DESIGNATED AREA.
6) PROTECT RAIN GARDENS AND RECHARGE SYSTEM AREAS WITH EROSION CONTROL BARRIERS.
7)TEMPORARILY LOAM & SEED AREAS THAT WILL BE DORMENT DURING THE REMAINDER OF THIS PHASE. PROVIDE TRACKING PADS AT THE END OF CONSTRUCTION ROUTES PRIOR TO JACOB WAY.
8) CONSTRUCT OUTLET APRONS & DRAINLINES FROM FES STRUCTURES.
9) PLANT AREAS OF 100 FT. BUFFER THAT WILL NOT INTERFERE WITH FUTURE CONSTRUCTION. AS CONSTRUCTION MOVES FORWARD, PLANT BUFFER AS SOON AS PRACTICAL.
10) INSTALL TEMPORARY DRAINS PER PLAN.
11) BEGIN THE EXCAVATION OF BUILDING 9 FOUNDATION. CONSTRUCT SEDIMENT BASINS 1,2 & 3.
12) CONSTRUCT UTILITIES TO SUPPORT THE CONSTRUCTION OF BUILDING 9, CLUB HOUSE & TOWNHOUSES.
13) BEGIN TOWN HOUSE CONSTRUCTION.
14) CONSTRUCT RAIN GARDENS #1 & #4. ALLOW ENOUGH TIME FOR RAIN GARDENS TO ESTABLISH BEFORE DIRECTING DRAINAGE INTO THESE AREAS.
15) PAVE ACCESS DRIVES. STABILIZE AREAS AS SOON AS PRACTICAL.
16) GRIND JACOB WAY. INSTALL NEW UTILITIES. PAVE JACOB TO NEW ENTRANCE WAY
17) REMOVE SEDIMENT BASINS 2 & 3. CONSTRUCT LANDSCAPE BERMS WHERE PRACTICAL. PROVIDE PERMANENT STABILIZATION.
18) INSTALL RECHARGE AREAS & DOWNSPOUTS. PERMANENTLY STABILIZE AREAS AROUND BUILDINGS AND RECHARGE. PLUG INLET PIPES TO RECHARGE AREAS UNTIL CONTRIBUTING AREAS ARE STABLE.

PAUL A. MARCHIONDA CIVIL No.30015 COMMONWEALTH OF MASSACHUSETTS PROFESSIONAL ENGINEER
6-3-11

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4	ENGINEERING COMMENTS	3/14/11
3	CON. COM. REVISIONS	3/9/11
2	CPDC COMMENTS	2/15/11
1	CON. COM. REVISIONS	2/9/11

DRW: DSG: CHK:

SEQUENCE 2

READING WOODS
in
READING, MA

Prepared For

PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

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M. & A. NO.: 487-187 SCALE: NOT TO SCALE

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1) PREPARE BUILDING PAD. PREPARE & STABILIZE CUT SLOPE BEHIND BUILDING. CONSTRUCT ACCESS DRIVE UTILITIES.
2) CONSTRUCT FOUNDATION.
3) CONTRUCT DRIVEWAY & UTILITIES. PAVE PARKING AREA.
4) INSTALL ROOF DRAIN LINES. PLACE SILT SACKS IN AREA DRAINS UNITL CONTRIBUTING AREAS ARE STABILIZED.
5) ESTABLISH FINAL GRADES AROUND BUILDINGS AND PERMANENTLY STABILIZE AREA.

COMMONWEALTH OF MASSACHUSETTS
PAULA MARCHIONDA
CIVIL
No. 30018
REGISTERED PROFESSIONAL ENGINEER
6-3-11

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2	CPDC COMMENTS	2/15/11
1	CON. COM. REVISIONS	2/8/11

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SEQUENCE 3

READING WOODS
in
READING, MA

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115 FLANDERS ROAD
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Marchionda & Associates, L.P.
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1) REPLACE OLD STANDPIPE WITH NEW STANDPIPE. CUT REMAINER OF TREES.
2) PLACE FILL FOR ACCESS DRIVES. INSTALL UTILITIES UNDER ACCESS DRIVE.
3) BEGIN FOUNDATION CONSTRUCTION.
4) PAVE ACCESS DRIVE. PLUG INLET PIPES TO RECHARGE BASINS. FORM SIDESLOPES ALONG CURTIS ST ABUTTERS. PERMANENTLY STABILIZE SIDESLOPE AND PLANT BUFFER PER LANDSCAPING PLANS. CONSTRUCT RAIN GARDEN#6.
5) CONSTRUCT RECHARGE BASIN #8 ALONG WITH ROOF DRAINS.
6) PLANT WETLAND BUFFER AND CONDUCT WETLAND ENHANCEMENT(IF REQUIRED).
7) ESTABLISH FINAL GRADES AROUND BUILDING AND PERMANENTLY STABILIZE.

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DATE

REV.	DESCRIPTION	DATE
5.	MISC. REVISIONS	6/3/11
4.	ENGINEERING COMMENTS	3/14/11
3.	CON. COM. REVISIONS	3/9/11
2.	CPDC COMMENTS	2/15/11
1.	CON. COM. REVISIONS	2/8/11

DRW: DSG: CHK:

SEQUENCE 4

READING WOODS
in
READING, MA

Prepared For
PULTE HOMES OF NEW ENGLAND, L.L.C.
115 FLANDERS ROAD
WESTBORO, MA 01581

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PAUL A. MARCHIONDA CIVIL No. 30015 COMMONWEALTH OF MASSACHUSETTS PROFESSIONAL ENGINEER

6-3-11

DATE: 1/4/11

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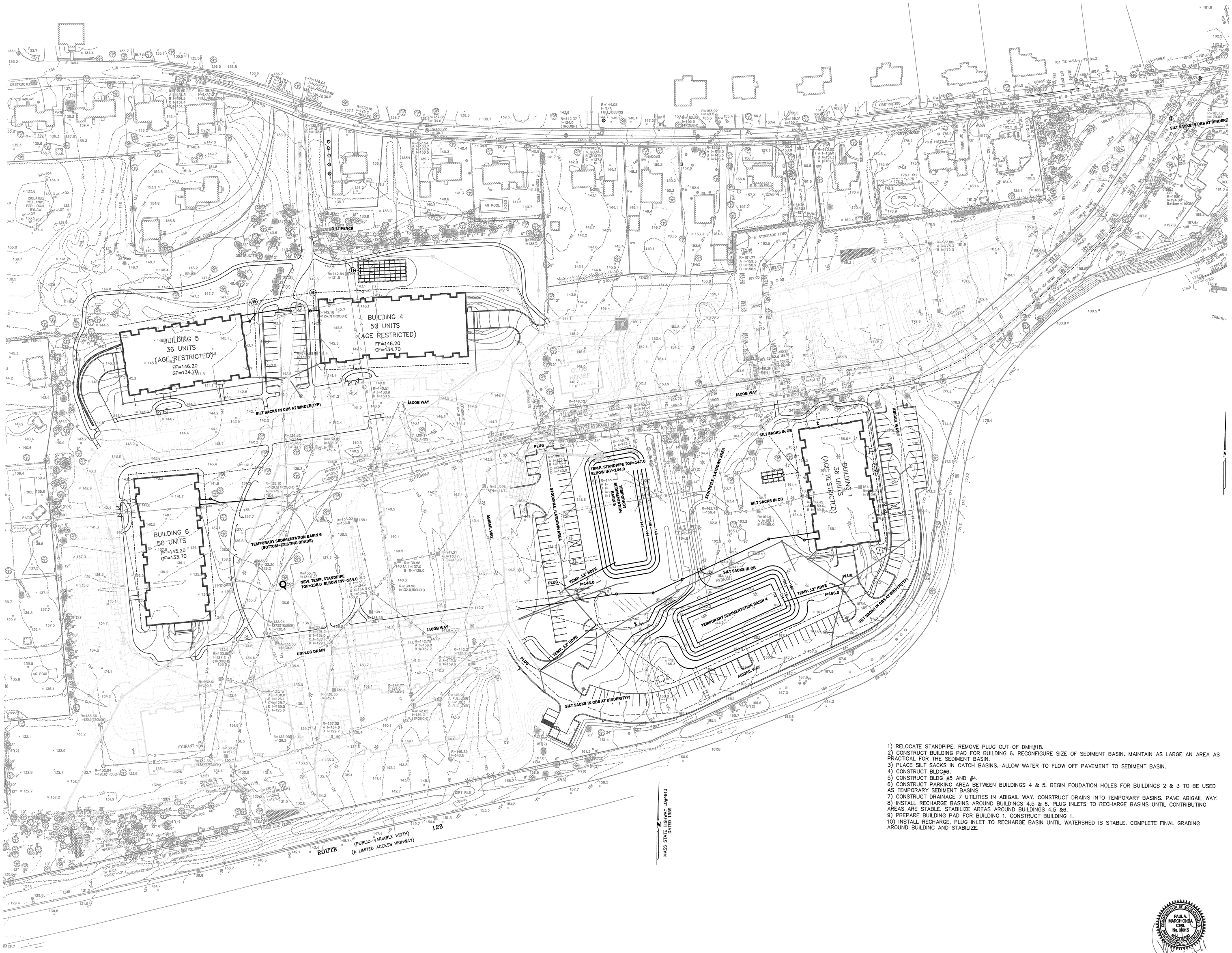
M. & A. NO.: 487-187 | SCALE: NOT TO SCALE

SHEET 31 OF 37



1) RELOCATE STANDPIPE. REMOVE PLUG OUT OF DMH#18.
2) CONSTRUCT BUILDING PAD FOR BUILDING 6. RECONFIGURE SIZE OF SEDIMENT BASIN. MAINTAIN AS LARGE AN AREA AS PRACTICAL FOR THE SEDIMENT BASIN.
3) PLACE SILT SACKS IN CATCH BASINS. ALLOW WATER TO FLOW OFF PAVEMENT TO SEDIMENT BASIN.
4) CONSTRUCT BLDG#6.
5) CONSTRUCT BLDG #5 AND #4.
6) CONSTRUCT PARKING AREA BETWEEN BUILDINGS 4 & 5. BEGIN FOUDATION HOLES FOR BUILDINGS 2 & 3 TO BE USED AS TEMPORARY SEDIMENT BASINS
7) CONSTRUCT DRAINAGE 7 UTILITIES IN ABIGAIL WAY. CONSTRUCT DRAINS INTO TEMPORARY BASINS. PAVE ABIGAIL WAY.
8) INSTALL RECHARGE BASINS AROUND BUILDINGS 4,5 & 6. PLUG INLETS TO RECHARGE BASINS UNTIL CONTRIBUTING AREAS ARE STABLE. STABILIZE AREAS AROUND BUILDINGS 4,5 &6.
9) PREPARE BUILDING PAD FOR BUILDING 1. CONSTRUCT BUILDING 1.
10) INSTALL RECHARGE, PLUG INLET TO RECHARGE BASIN UNTIL WATERSHED IS STABLE. COMPLETE FINAL GRADING AROUND BUILDING AND STABILIZE.

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3.	CON. COM. REVISIONS	3/9/11
2.	CPDC COMMENTS	2/15/11
1.	CON. COM. REVISIONS	2/8/11

SEQUENCE 5

READING WOODS
in
READING, MA

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COMMONWEALTH OF MASSACHUSETTS
PAUL A. MARCHIONDA
CIVIL
No. 30015
REGISTERED PROFESSIONAL ENGINEER
6-3-11

DATE: 1/4/11

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1) CONSTRUCT RAIN GARDEN#5 & REMAINDER OF VILLAGE GREEN. CONSTRUCT RAIN GARDEN IN FRONT OF BUILDING 1. REMOVE PLUG & TEMPORARY PIPE TO SEDIMENT BASIN 4.
2) BEGIN CONSTRUCTION OF BUILDING 2.
3) CONSTRUCT RAIN GARDEN #2.
4) FINISH BUILDING 2. CONSTRUCT RAIN GARDEN #3 & THE REMAINDER OF THE OPEN SPACE PLANTINGS AND THE RAIN GARDEN IN FRONT OF BUILDING 2.

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6-3-11

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4.	ENGINEERING COMMENTS	3/14/11
3.	CON. COM. REVISIONS	3/9/11
2.	CPDC COMMENTS	2/15/11
1.	CON. COM. REVISIONS	2/8/11

SEQUENCE 6

READING WOODS
in
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1) REMOVE SEDIMENT BASIN #5. REMOVE PLUG IN DRAIN FROM DMH#35.
2) BEGIN BUILDING 3 FOUNDATION.
3) INSTALL ROOF DRAIN AND FINISH GRADES AROUND BUILDING. STABILIZE.
4) ONCE STABILIZED REMOVE PLUG TO RECHARGE BASIN 2.
5) CONDUCT AS-BUILTS AND APPLY FOR COMPLIANCE CERTIFICATE.

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1.	CON. COM. REVISIONS	2/8/11

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SEQUENCE 7

READING WOODS
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6-3-11

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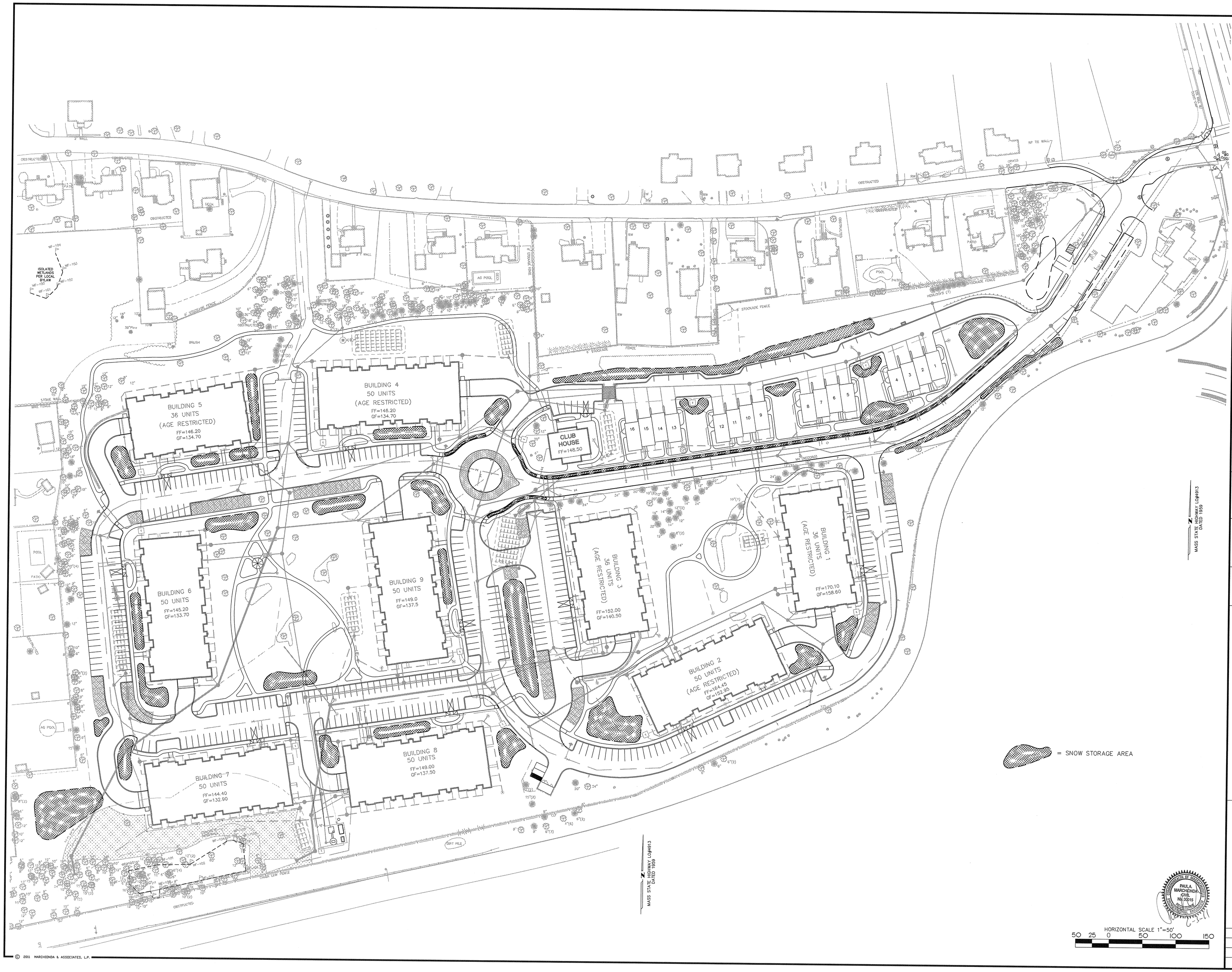

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2	CPDC COMMENTS	2/15/11
1	CON. COM. REVISIONS	2/8/11

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SNOW STORAGE PLAN

READING WOODS in READING, MA

Prepared For

PULTE HOMES OF NEW ENGLAND, L.L.C.
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WESTBORO, MA 01581

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SHEET 35 OF 37

SOIL TESTING PLAN

READING WOODS

in

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PULTE HOMES OF NEW ENGLAND, L.L.C.

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3.	CON. COM. REVISIONS	3/9/11
2.	CPDC COMMENTS	2/15/11
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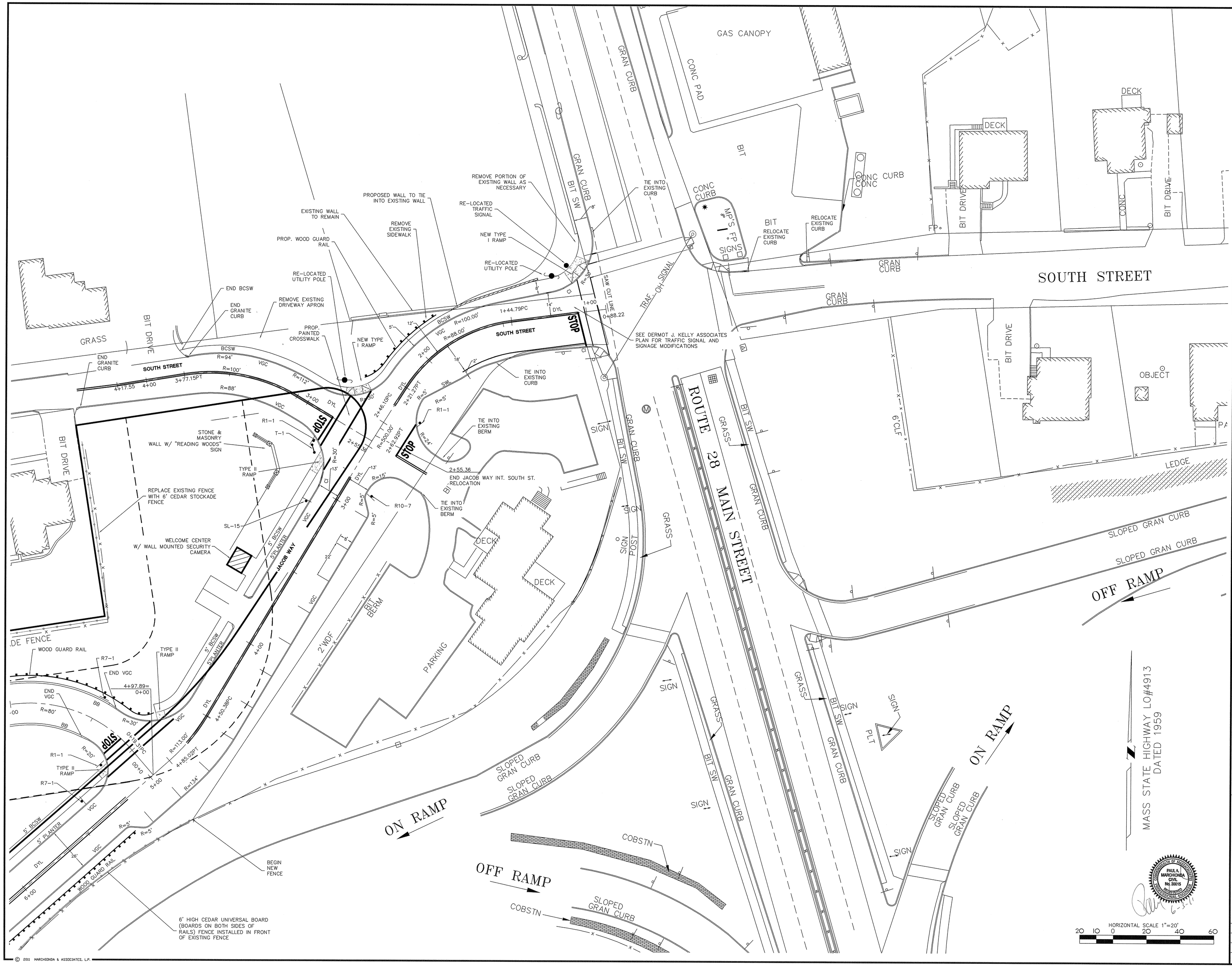

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2.	CPDC COMMENTS	2/15/11
1.	CON. COM. REVISIONS	2/8/11

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SOUTH STREET RELOCATION PLAN

READING WOODS

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PAUL A. MARCHIONDA CIVIL No. 30015 REGISTERED PROFESSIONAL ENGINEER

6-3-11

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