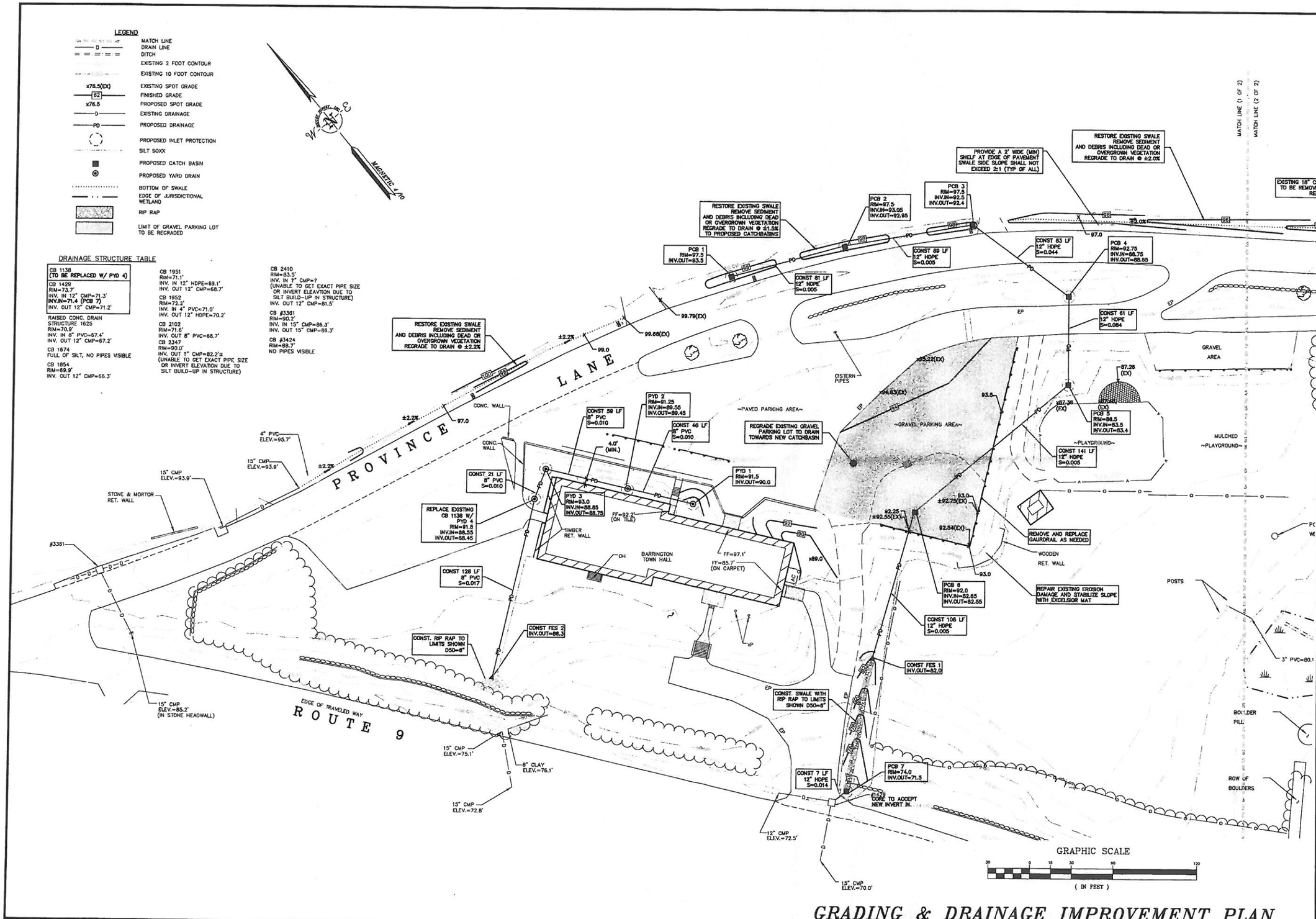


GRADING & DRAINAGE IMPROVEMENT PLAN

No.	Description	Appd	Date
	REVISIONS		

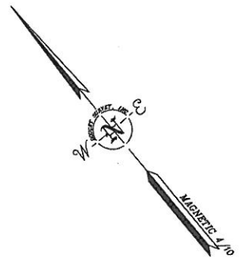
DATE: JUNE 11, 2010
SCALE: AS SHOWN
DESIGNED BY: GY/BLM
DRAWN BY: GY
APPROVED BY: GY
PROJECT NO: 2456
FILE NO: 2456-SITE.DWG

DRAINAGE IMPROVEMENTS
TOWN HALL
Province Lane
Barrington, NH

APPLEDORE ENGINEERING INC
177 CORPORATE DRIVE
PORTSMOUTH, NEW HAMPSHIRE 03801
(603) 433-8818
ael@appledoreeng.com

LEGEND

- MATCH LINE
- D — DRAIN LINE
- DITCH
- EXISTING 2 FOOT CONTOUR
- EXISTING 10 FOOT CONTOUR
- x76.5(EX) — EXISTING SPOT GRADE
- 62 — FINISHED GRADE
- x76.5 — PROPOSED SPOT GRADE
- D — EXISTING DRAINAGE
- PD — PROPOSED DRAINAGE
- PROPOSED INLET PROTECTION
- SILT SOXX
- PROPOSED CATCH BASIN
- PROPOSED YARD DRAIN
- BOTTOM OF SWALE
- EDGE OF JURISDICTIONAL WETLAND
- RIP RAP
- LIMIT OF GRAVEL PARKING LOT TO BE REGRADED



GRADING AND DRAINAGE NOTES:

1. COMPACTION REQUIREMENTS

BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREAS	90%

*ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR APPROVED EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.

3. ADJUST ALL MANHOLES, CATCHBASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.

4. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, AND RAMPS ADJACENT TO THE BUILDING.

5. CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCHBASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.

7. ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.

8. ALL PROPOSED CATCHBASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 3' SUMPS.

9. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND TOWN OF BARRINGTON DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, LATEST REVISIONS.

10. SEE EXISTING SURVEY FOR BENCH MARK INFORMATION.

EROSION CONTROL NOTES:

1. INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.

2. PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED CATCHBASIN INLETS WITHIN THE WORK LIMITS. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.

3. INSPECT INLET PROTECTION AND SILT FENCES DAILY AND AFTER EACH RAIN STORM OF 0.5 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.

4. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER AND MULCH.

5. CONSTRUCT EXCELSIOR MAT ON ALL DISTURBED/PROPOSED SLOPES STEEPER THAN 3:1.

6. PRIOR TO ANY WORK OR SOIL DISTURBANCE COMMENCING ON THE SUBJECT PROPERTY, INCLUDING MOVING OF EARTH, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SILTATION MITIGATION AND CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL PERMITS AND APPROVALS.

7. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SPRINKLING WATER ON UNSTABLE SOILS SUBJECT TO ARID CONDITIONS.

8. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.

9. ALL CATCHBASINS AND PIPING SHALL BE THOROUGHLY CLEANED TO REMOVE ALL SEDIMENT AND DEBRIS AFTER THE PROJECT HAS BEEN PAVED.

10. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING.

11. SAFETY FENCING SHALL BE PROVIDED AROUND STOCKPILES OVER 10 FT.

12. CONCRETE TRUCKS WILL BE REQUIRED TO WASH OUT (IF NECESSARY) SHOOTS ONLY WITHIN AREAS WHERE CONCRETE HAS BEEN PLACED. NO OTHER WASH OUT WILL BE ALLOWED.

DRAINAGE STRUCTURE TABLE

CB 1138
(TO BE REPLACED W/ PYD 4)

CB 1429
RIM=73.7'
INV. IN 12" CMP=71.3'
INV.IN=71.4 (PCB 7)
INV. OUT 12" CMP=71.2'

RAISED CONC. DRAIN STRUCTURE 1625
RIM=70.9'
INV. IN 8" PVC=67.4'
INV. OUT 12" CMP=67.2'

CB 1674
FULL OF SILT, NO PIPES VISIBLE

CB 1854
RIM=69.9'
INV. OUT 12" CMP=66.3'

CB 1951
RIM=71.1'
INV. IN 12" HDPE=69.1'
INV. OUT 12" CMP=68.7'

CB 1952
RIM=72.2'
INV. IN 4" PVC=71.0'
INV. OUT 12" HDPE=70.2'

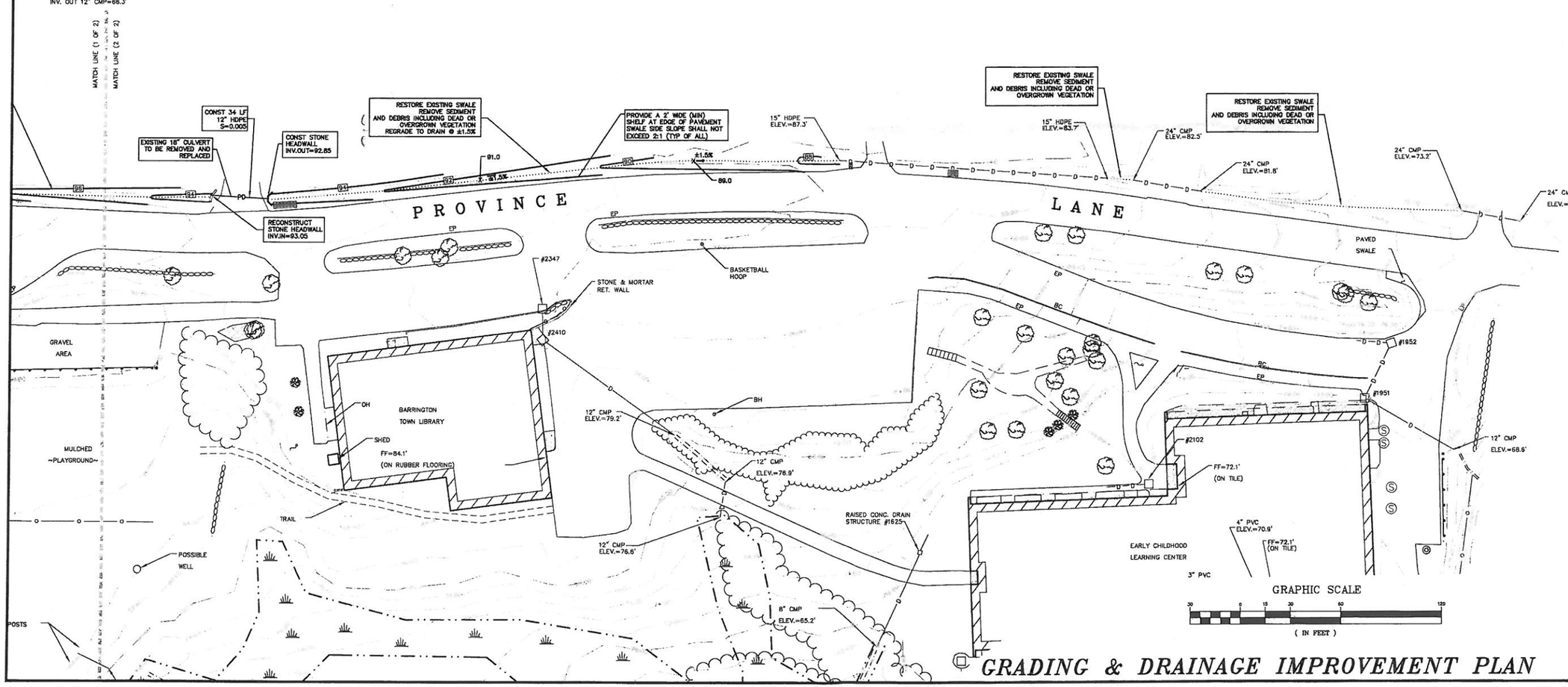
CB 2102
RIM=71.6'
INV. OUT 8" PVC=68.7'

CB 2347
RIM=90.0'
INV. OUT 7" CMP=82.2'±
(UNABLE TO GET EXACT PIPE SIZE OR INVERT ELEVATION DUE TO SILT BUILD-UP IN STRUCTURE)

CB 2410
RIM=83.5'
INV. IN 7" CMP=?
(UNABLE TO GET EXACT PIPE SIZE OR INVERT ELEVATION DUE TO SILT BUILD-UP IN STRUCTURE)
INV. OUT 12" CMP=81.5'

CB #3361
RIM=90.2'
INV. IN 15" CMP=86.3'
INV. OUT 15" CMP=86.3'

CB #3424
RIM=88.7'
NO PIPES VISIBLE



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