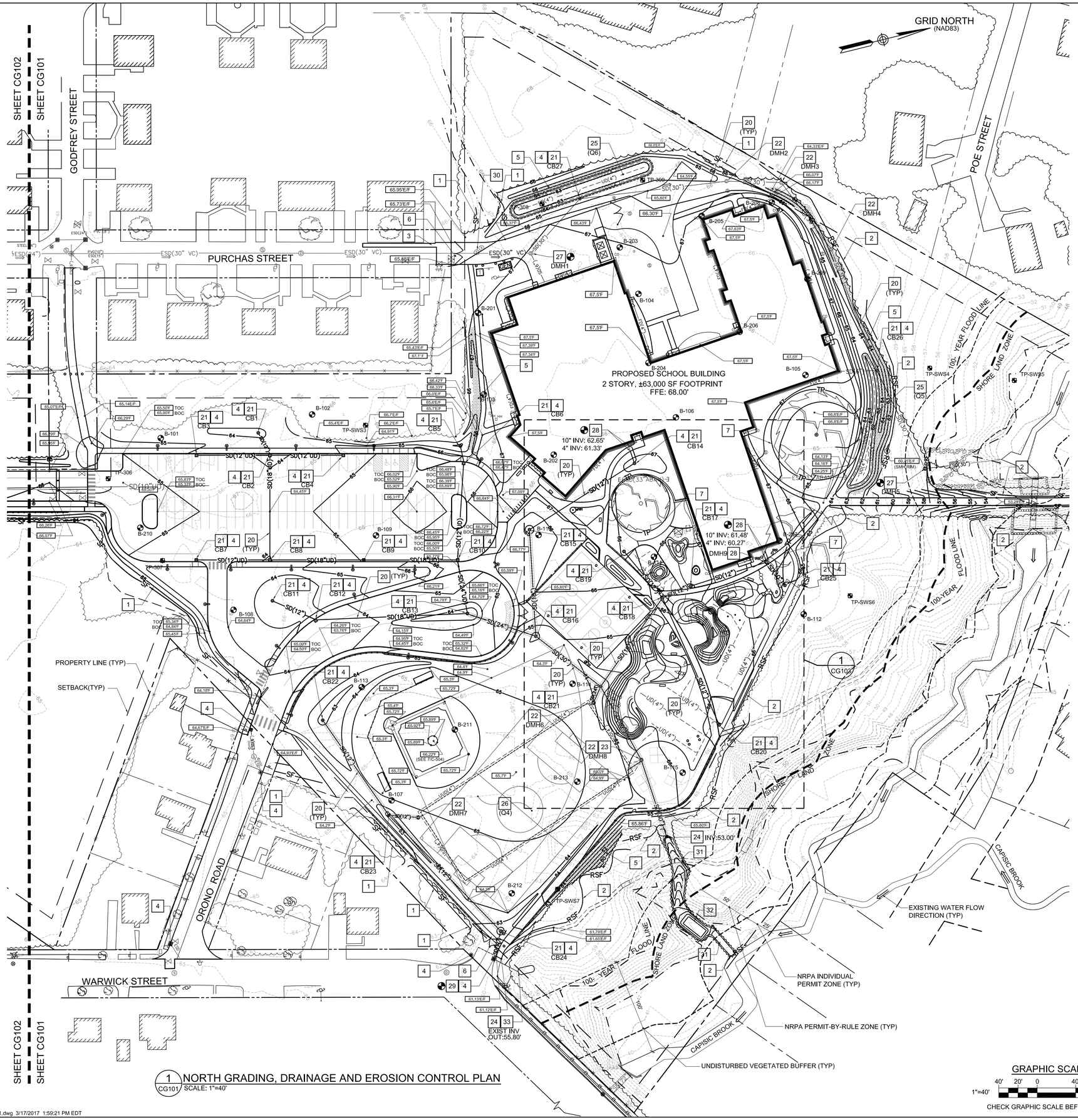


1 CG101 NORTH GRADING, DRAINAGE AND EROSION CONTROL PLAN
SCALE: 1"=40'

GRAPHIC SCALE
40' 20' 0 40' 80'
1"=40'
CHECK GRAPHIC SCALE BEFORE USING

## KEYNOTES: (THIS SHEET ONLY.)

1. SILT FENCE. SEE DETAIL 1/C-502
2. REINFORCED SILT FENCE. SEE DETAIL 2/C-502
3. SEDIMENT CONTROL WATTLE. SEE DETAIL 3/C-502
4. CATCH BASIN INLET PROTECTION. SEE DETAIL 5/C-502
5. EROSION CONTROL BLANKET. SEE DETAIL 7/C-502
6. STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 6/C-502
7. TREE PROTECTION FENCE. SEE DETAIL 2/CD104
8. - 19 NOT USED.
20. STORM DRAIN LINE IN PIPE TRENCH. PROVIDE PERFORATED PIPE WHERE LINE IS INDICATED WITH "UD". PROVIDE CRUSHED STONE BASE IN SOFT SUBGRADE AREAS (APPROXIMATE LOCATIONS INDICATED WITH ▨). SEE DETAIL 1/C-507
21. CATCH BASIN. SEE DRAINAGE STRUCTURE SCHEDULE, THIS SHEET. SEE DETAIL 1/C-509
22. DRAIN MANHOLE. SEE DRAINAGE STRUCTURE SCHEDULE, THIS SHEET AND DETAIL 2/C-507
23. SAND FILTER OVERFLOW/DIVERSION MANHOLE. SEE DETAIL 3/C-510.
24. FLARED END SECTION (INVERT AS NOTED).
25. STORMWATER TREATMENT AREA (GRASSED UNDERDRAINED SOIL FILTER). SEE DETAIL 1/C-510
26. STORMWATER TREATMENT AREA (SUBSURFACE SAND FILTER). SEE DETAIL 2/C-510.
27. CONNECT TO EXISTING STORM DRAIN LINE (LINE SIZE AND TYPE AS INDICATED) WITH DRAIN MANHOLE. SEE DRAINAGE STRUCTURE SCHEDULE, THIS SHEET AND DETAIL 2/C-507
28. CONNECT TO STORM DRAIN LINE (INSTALLED IN PHASE 1). PIPE SIZE AND INVERT AS NOTED. SEE DETAIL 3/C-507 (SIM)
29. CORE EXISTING PRECAST CONCRETE CATCH BASIN AT ELEVATION: 57.54' AND CONNECT STORM DRAIN LINE. SEE DETAIL 3/C-507
30. REMOVE EXISTING MANHOLE FRAME AND COVER AND RESET RIM TO ELEVATION: 66.00'.
31. RIPRAP SWALE. BOTTOM WIDTH = 4', $D_{50}$=6". SEE DETAIL 9/C-502 (SIM)
32. PIPE OUTLET PROTECTION . SEE DETAIL 9/C-502
    BOTTOM WIDTH = 8' (OVERALL WIDTH = 12')
    BOTTOM LENGTH = 20' (OVERALL LENGTH = 30')
    $D_{50}$ = 10"
33. PIPE OUTLET PROTECTION . SEE DETAIL 9/C-502
    BOTTOM WIDTH = 3' (OVERALL WIDTH = 7')
    BOTTOM LENGTH = 8' (OVERALL LENGTH = 13')
    $D_{50}$ = 5"

### DRAINAGE STRUCTURE SCHEDULE**

| STRUCTURE | NORMAL FINISH GRADE AT RIM | RIM ELEVATION | INVERT IN (SIZE) | INVERT OUT (SIZE) | REMARKS |
|---|---|---|---|---|---|
| CB1 | 63.95 | 63.85 | - | 61.04 (12") | |
| CB2[1] | 63.85 | 63.75 | 60.91 (12") | 60.81 (18") | FROM CB1 |
| - | - | - | 60.91 (12") | - | FROM CB3 |
| - | - | - | 60.91 (12") | - | FROM CB4 |
| CB3[1] | 64.47 | 64.37 | - | 61.37 (12") | |
| CB4[1] | 64.58 | 64.48 | - | 61.48 (12") | |
| CB5 | 63.92 | 63.82 | - | 60.82 (12") | |
| CB6[1,3] | 65.40 | 65.30 | 60.56 (12") | 60.46 (12") | |
| CB7[1] | 64.50 | 64.40 | - | 61.40 (12") | |
| CB8[1] | 63.94 | 63.84 | 60.26 (18") | 60.16 (18") | FROM CB2 |
| - | - | - | 60.26 (12") | - | FROM CB7 |
| CB9[1,3] | 65.03 | 64.93 | 59.67 (18") | 59.57 (18") | |
| CB10[1,3] | 65.16 | 65.06 | 59.08 (12") | 58.98 (24") | 6' DIAMETER, FROM CB6, PROVIDE HOOD ON OUTLET PIPE |
| - | - | - | 59.08 (18") | - | FROM CB9 |
| CB11 | 63.00 | 62.90 | | 59.82 (12") | |
| CB12[1] | 63.23 | 63.13 | 59.57 (12") | 59.47 (18") | |
| CB13[1,3] | 63.55 | 63.45 | 58.69 (24") | 58.59 (24") | 6' DIAMETER, FROM CB10, PROVIDE HOOD ON OUTLET PIPE |
| - | - | - | 58.69 (18") | - | FROM CB12 |
| CB14[3] | 66.43 | 66.33 | 62.75 (10") | 61.03 (12") | ROOF DRAIN |
| - | - | - | 61.13' (4") | - | FOUNDATION DRAIN WITH BACKWATER VALVE |
| CB15[1] | 64.90 | 64.80 | 59.84 (12") | 59.74 (18") | FROM CB14 |
| CB16[2,3] | 63.92 | 63.82 | 58.21 (24") | 58.11 (30") | FROM CB13, PROVIDE HOOD ON OUTLET PIPE |
| - | - | - | 58.71 (18") | | FROM CB15 |
| CB17[3] | 66.38 | 66.28 | 59.31 (12") | 59.21 (18") | PROVIDE HOOD ON OUTLET PIPE |
| CB18[2,3] | 65.64 | 65.54 | 63.31 (4") | 58.82 (18") | FROM PLAYGROUND UNDERDRAINS, PROVIDE HOOD ON OUTLET PIPE |
| - | - | - | 60.44 (12") | - | FROM CB20 |
| - | - | - | 60.44 (12") | - | FROM CB19 |
| - | - | - | 58.92 (12") | - | FROM CB17 |
| CB19 | 65.67 | 65.57 | - | 62.15 (12") | PROVIDE HOOD ON OUTLET PIPE |
| CB20 | 65.55 | 65.45 | 63.22 (4") | 61.89 (12") | FROM PLAYGROUND UNDERDRAINS, PROVIDE HOOD ON OUTLET PIPE |
| - | - | - | 63.22 (4") | - | FROM PLAYGROUND UNDERDRAINS |
| CB21[2,3] | 63.56 | 63.46 | 57.21 (30") | 57.11 (24") | 8' DIAMETER W/ WEIR (SEE 3/C-510), INV OUT TO DMH6, INV IN FROM CB16 |
| - | - | - | 57.71 (18") | 57.11 (30") | INV OUT TO DMH8 (OVERFLOW), INV IN FROM CB18 |
| CB22 | 62.59 | 62.49 | - | 59.49 (12") | |
| CB23[2,3] | 62.50 | 62.40 | 57.74 (12") | 57.64 (12") | FROM CB22 |
| - | - | - | 57.74 (12") | - | FROM CB24 |
| CB24 | 61.85 | 61.75 | - | 58.65 (12") | TO CB23 |
| - | - | - | - | 58.75 (12") | OVERFLOW TO EXISTING CATCH BASIN |
| CB25 | 65.25 | 65.25 | - | 61.78 (10") | |
| CB26 | SEE SHEET CU101 | | | | |
| CB27 | SEE SHEET CU101 | | | | |
| DMH1 | SEE SHEET CU101 | | | | |
| DMH2 | SEE SHEET CU101 | | | | |
| DMH3 | SEE SHEET CU101 | | | | |
| DMH4 | SEE SHEET CU101 | | | | |
| DMH5 | SEE SHEET CU101 | | | | |
| DMH6[2,3] | 64.02 | 64.02 | 56.92 (24") | 56.82 (24") | 6' DIAMETER, INV OUT TO PRE-TREATMENT ROW |
| DMH7[2,3] | 64.84 | 64.84 | 56.92 (12") | 56.82 (12") | 6' DIAMETER, INV OUT TO PRE-TREATMENT ROW |
| DMH8[2,3] | 65.56 | 65.56 | 55.16 (30") | 53.95 (30") | 6' DIAMETER, FROM CB20 |
| - | - | - | 54.05 (4") | - | SAND FILTER OUTER UNDERDRAINS |
| - | - | - | 54.05 (6") | - | SAND FILTER UNDERDRAINS, PROVIDE BALL VALVE ON OUTLET |
| DMH9[3] | 67.61 | 67.61 | 61.34 (10") | 60.06 (12") | FROM CB25 |
| - | - | - | 61.34 (10") | - | ROOF DRAIN |
| - | - | - | 60.16 (4") | - | FOUNDATION DRAIN WITH BACKWATER VALVE |

1. PROVIDE SUMP SKIMMER INSIDE ALL CATCH BASINS IN PAVED AREAS.
2. PROVIDE 24" THICK CRUSHED STONE BASE IN LIEU OF 6" THICK CRUSHED STONE BASE. SEE DETAILS 2/C-507 AND 1/C-509
3. PROVIDE EXTENDED BASE ON STRUCTURE FOR FLOTATION RESISTANCE. SEE DETAILS 2/C-507 AND 1/C-509

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| REVISIONS | | | |

STATE OF MAINE PUBLIC SCHOOL PROJECT

TITLE: PORTLAND PUBLIC SCHOOLS
LOCATION: NEW FRED P. HALL ELEMENTARY SCHOOL, 23 ORONO ROAD, PORTLAND, ME

TITLE THIS DWG: NORTH GRADING, DRAINAGE AND EROSION CONTROL PLAN

STATE OF MAINE · JONAH DeWATERS No. 12273 · LICENSED PROFESSIONAL ENGINEER · 2/17/17

DRAWN BY: JSD
CHECKED BY: JLG
NO.
DATE: 03/17/17

OAK POINT ASSOCIATES
ARCHITECTURE ■ ENGINEERING ■ PLANNING
231 Main Street, Biddeford, Maine 04005 207.283.0193

DRAWING NO. CG101
SHEET NO. 42 OF 312

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