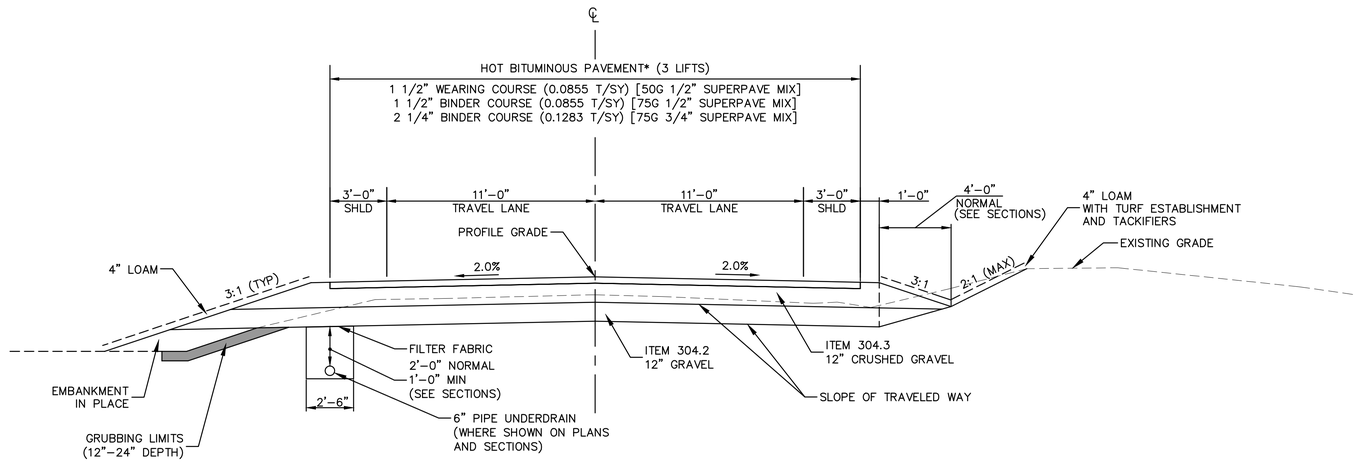
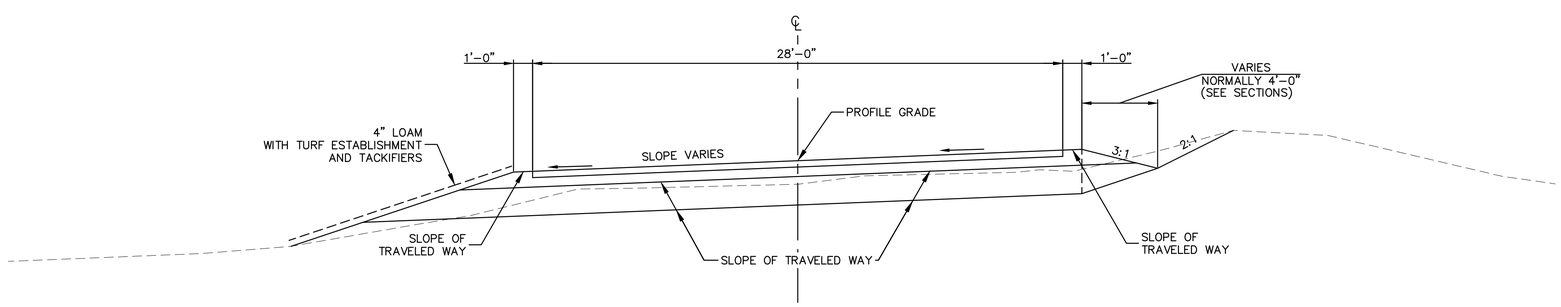


*NOTE: TOTAL RECYCLED BINDER NOT TO EXCEED 0.5% OF BULK MIX.

FULL DEPTH CONSTRUCTION - NORMAL

Not To Scale



SUPERELEVATED SECTION

Not to Scale

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street, Portsmouth, NH 03801, 603-431-6196
Langer Place, 55 So. Commercial Street, Manchester, NH 03101, 603/627-0708
10 Free Street, Portland, Maine 04101, 207/541-4223
info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10622 - LICENSED PROFESSIONAL ENGINEER
14-43-5

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: Not to Scale

City of Dover, New Hampshire
Community Services Division

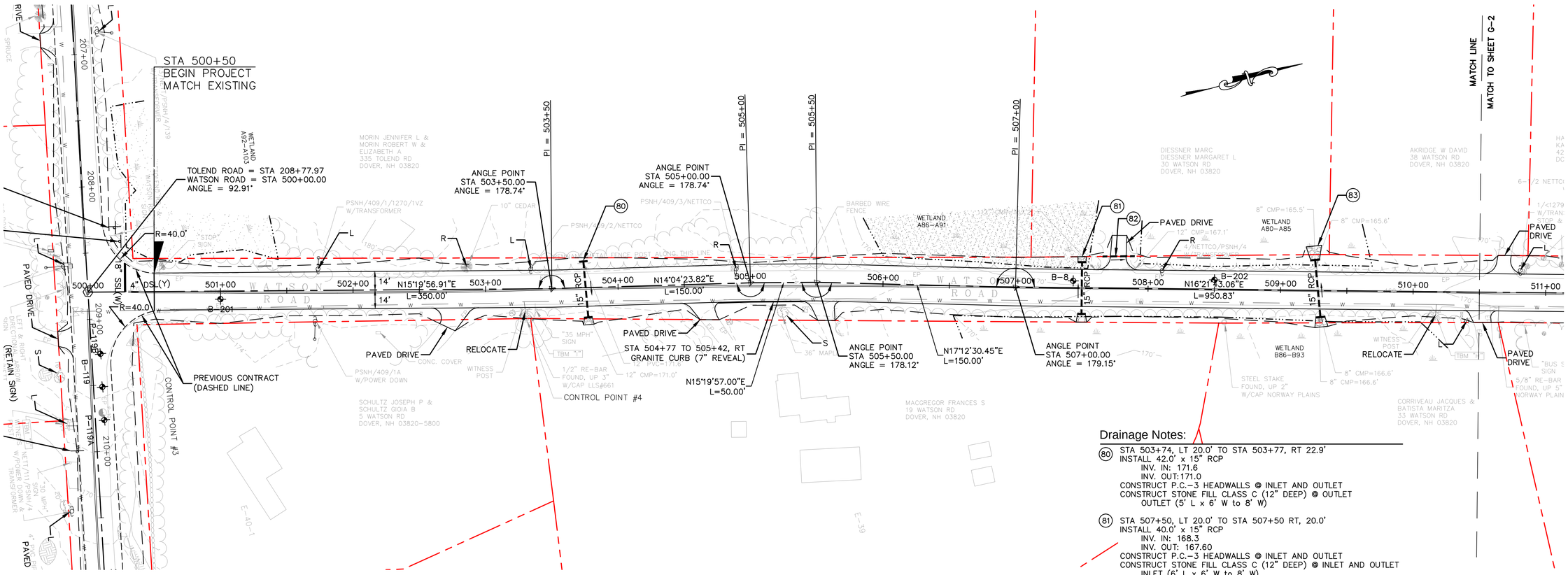
Watson Road
Rehabilitation Project

Typical Sections

drawing no. TS-1

sheet: 1 of 22

C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 23, 2014 - 6:21pm Plotted By: SKJELLANDER



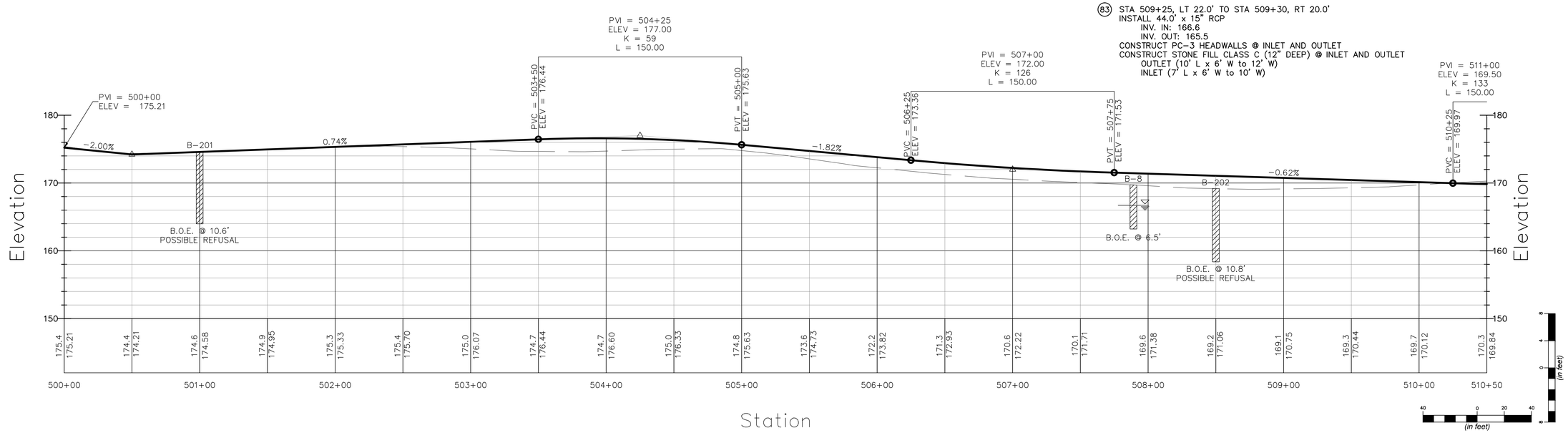
Drainage Notes:

(80) STA 503+74, LT 20.0' TO STA 503+77, RT 22.9'
INSTALL 42.0' x 15" RCP
INV. IN: 171.6
INV. OUT:171.0
CONSTRUCT P.C.-3 HEADWALLS @ INLET AND OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ OUTLET
OUTLET (5' L x 6' W to 8' W)

(81) STA 507+50, LT 20.0' TO STA 507+50 RT, 20.0'
INSTALL 40.0' x 15" RCP
INV. IN: 168.3
INV. OUT: 167.60
CONSTRUCT P.C.-3 HEADWALLS @ INLET AND OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET AND OUTLET
INLET (6' L x 6' W to 8' W)
OUTLET (4' L x 6' W)

(82) STA 507+66, LT 24.0' TO STA 507+90, LT 24.0'
INSTALL 24.0' x 15" RCP
INV. IN: 167.4
INV. OUT: 167.0

(83) STA 509+25, LT 22.0' TO STA 509+30, RT 20.0'
INSTALL 44.0' x 15" RCP
INV. IN: 166.6
INV. OUT: 165.5
CONSTRUCT PC-3 HEADWALLS @ INLET AND OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET AND OUTLET
OUTLET (10' L x 6' W to 12' W)
INLET (7' L x 6' W to 10' W)



CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street
Portsmouth, NH 03801
603-431-6196
Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708
10 Free Street
Portland, Maine 04101
207/841-4223
info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

no.	revision	date	by

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: (in feet)

City of Dover, New Hampshire
Community Services Division

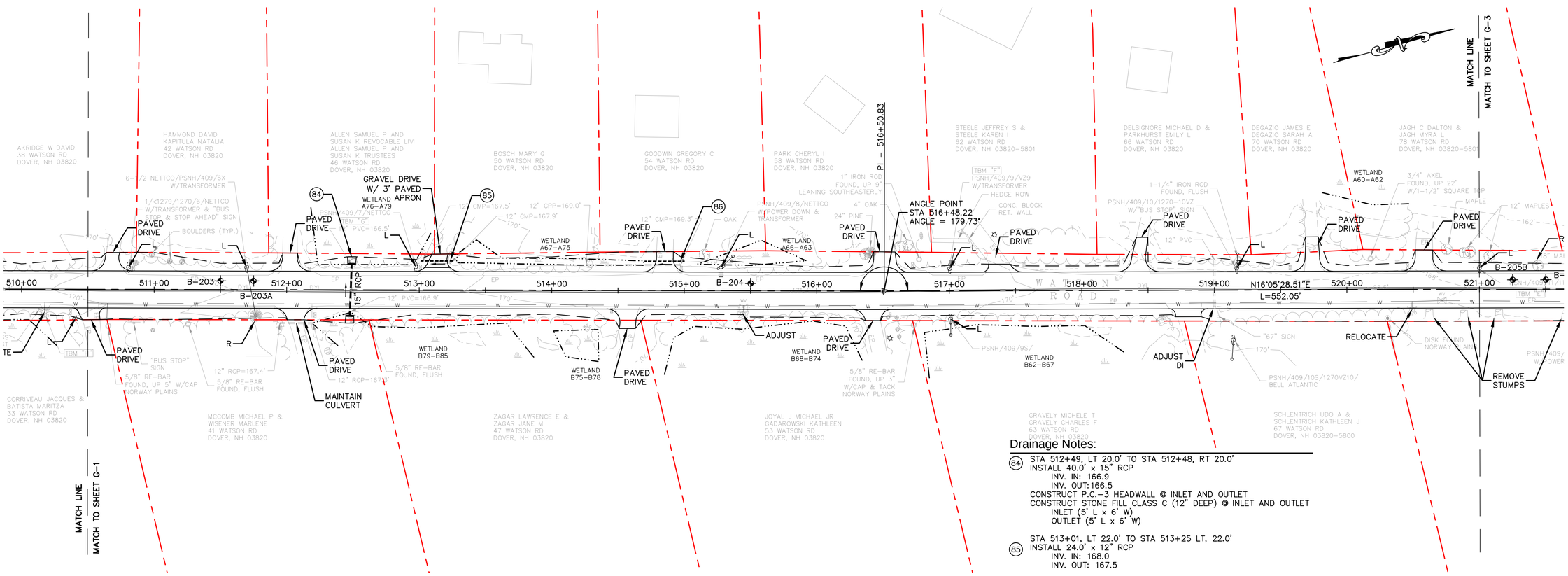
Watson Road
Rehabilitation Project

General Plans

drawing no. G-1

sheet: 2 of 22

F:\CADD\PROJECTS\745\dwg\Watson-C3D\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 27, 2014 - 5:18pm Plotted By: SKJELLANDER

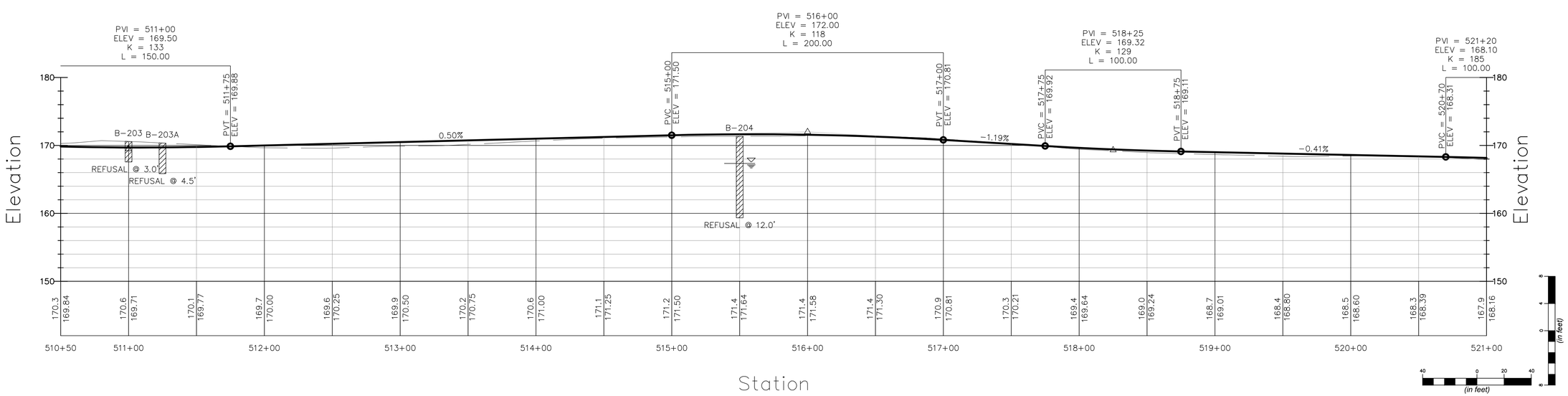


Drainage Notes:

(84) STA 512+49, LT 20.0' TO STA 512+48, RT 20.0'
INSTALL 40.0' x 15" RCP
INV. IN: 166.9
INV. OUT: 166.5
CONSTRUCT P.C.-3 HEADWALL @ INLET AND OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET AND OUTLET
INLET (5' L x 6' W)
OUTLET (5' L x 6' W)

(85) STA 513+01, LT 22.0' TO STA 513+25 LT, 22.0'
INSTALL 24.0' x 12" RCP
INV. IN: 168.0
INV. OUT: 167.5

(86) STA 514+70, LT 22.0' TO STA 515+00, LT 22.0'
INSTALL 30.0' x 12" RCP
INV. IN: 169.3
INV. OUT: 169.0



no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street
Portsmouth, NH 03801
603-431-6196
Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708
10 Free Street
Portland, Maine 04101
207/841-4223
info@cmaengineers.com
www.cmaengineers.com

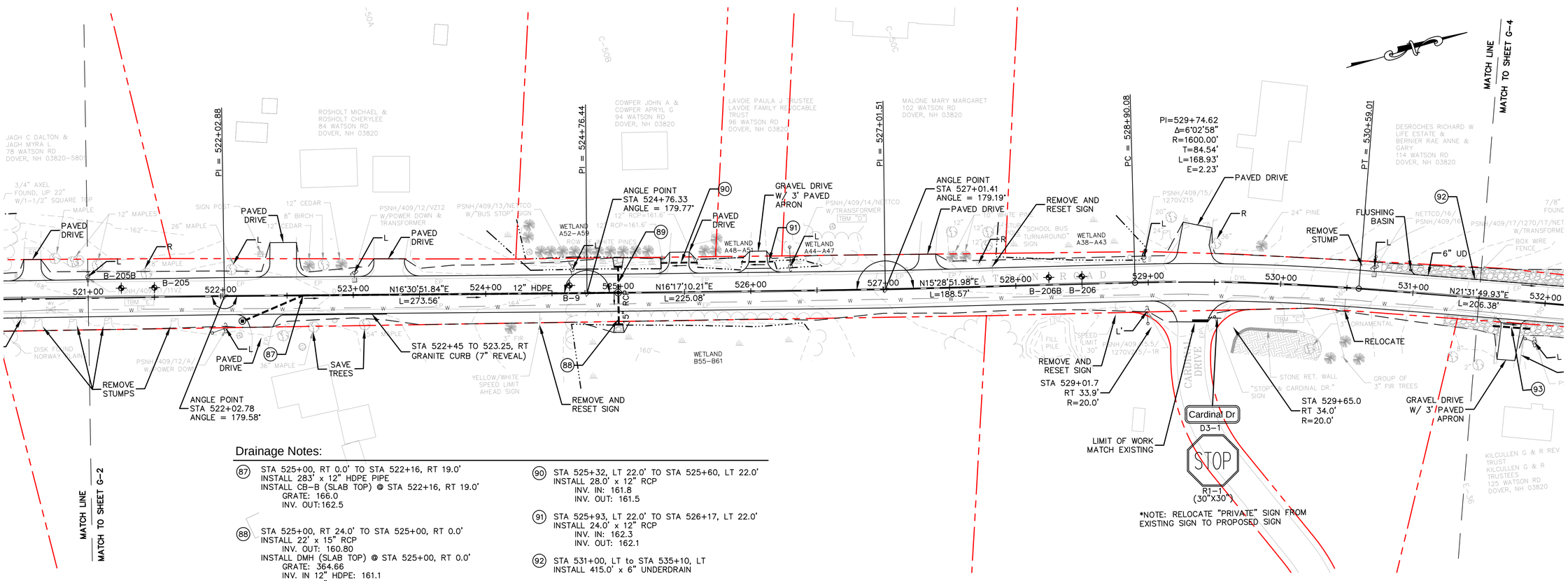
STATE OF NEW HAMPSHIRE - USA
DANIEL HUDSON No. 10622
LICENSED PROFESSIONAL ENGINEER
14-643

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: 0 20 40 (in feet)

City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project
General Plans

drawing no. G-2

sheet: 3 of 22



Drainage Notes:

(87) STA 525+00, RT 0.0' TO STA 522+16, RT 19.0'
INSTALL 283' x 12" HDPE PIPE
INSTALL CB-B (SLAB TOP) @ STA 522+16, RT 19.0'
GRATE: 166.0
INV. OUT:162.5

(88) STA 525+00, RT 24.0' TO STA 525+00, RT 0.0'
INSTALL 22' x 15" RCP
INV. OUT: 160.80
INSTALL DMH (SLAB TOP) @ STA 525+00, RT 0.0'
GRATE: 364.66
INV. IN 12" HDPE: 161.1
INV. IN 15" RCP: 161.1
INV. OUT 15" RCP: 161.0
CONSTRUCT P.C.-3 HEADWALL @ OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET
INLET (5' L x 6' W to 8' W)

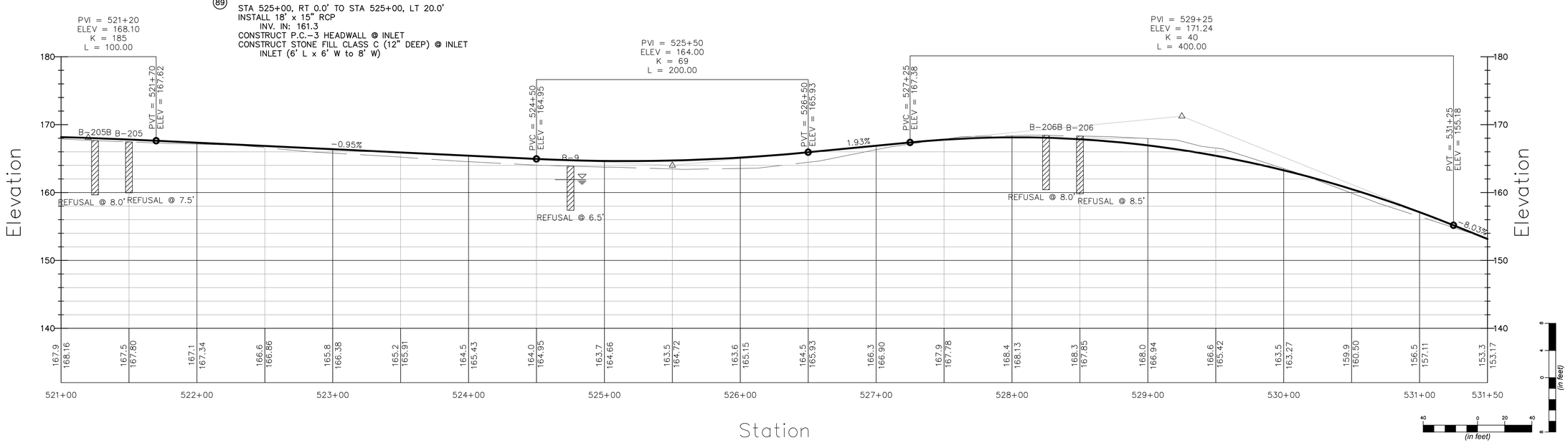
(89) STA 525+00, RT 0.0' TO STA 525+00, LT 20.0'
INSTALL 18' x 15" RCP
INV. IN: 161.3
CONSTRUCT P.C.-3 HEADWALL @ INLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET
INLET (6' L x 6' W to 8' W)

(90) STA 525+32, LT 22.0' TO STA 525+60, LT 22.0'
INSTALL 28.0' x 12" RCP
INV. IN: 161.8
INV. OUT: 161.5

(91) STA 525+93, LT 22.0' TO STA 526+17, LT 22.0'
INSTALL 24.0' x 12" RCP
INV. IN: 162.3
INV. OUT: 162.1

(92) STA 531+00, LT to STA 535+10, LT
INSTALL 415.0' x 6" UNDERDRAIN

*NOTE: RELOCATE "PRIVATE" SIGN FROM EXISTING SIGN TO PROPOSED SIGN



revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street Portsmouth, NH 03801 603-431-6196
Langer Place 55 So. Commercial Street Manchester, NH 03101 603/627-0708
10 Free Street Portland, Maine 04101 207/541-4223
info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 13522 - LICENSED PROFESSIONAL ENGINEER

14-643

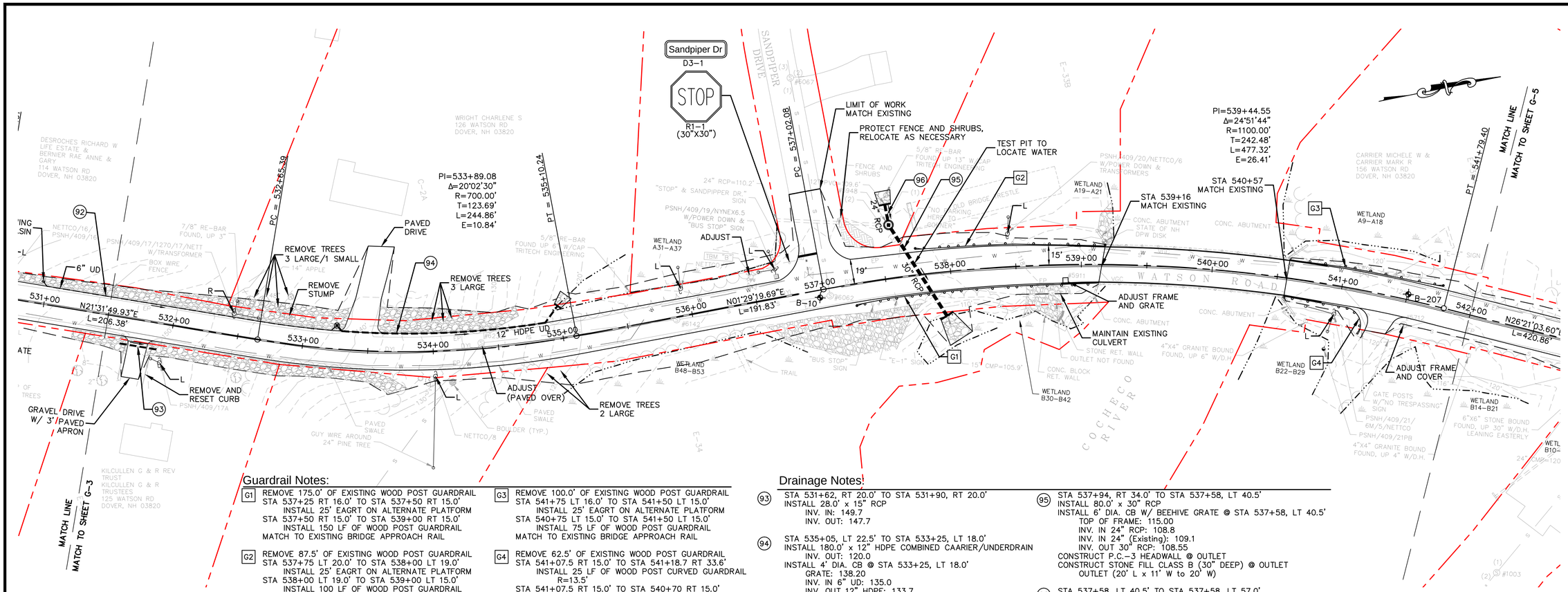
designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: (in feet)

City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project
General Plans

drawing no. G-3

sheet: 4 of 22

F:\CADD\PROJECTS\745\dwg\Watson-C3D\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 27, 2014 – 5:18pm Plotted By: SKJELLANDER



Guardrail Notes:

G1 REMOVE 175.0' OF EXISTING WOOD POST GUARDRAIL
STA 537+25 RT 16.0' TO STA 537+50 RT 15.0'
INSTALL 25' EAGRT ON ALTERNATE PLATFORM
STA 537+50 RT 15.0' TO STA 539+00 RT 15.0'
INSTALL 150 LF OF WOOD POST GUARDRAIL
MATCH TO EXISTING BRIDGE APPROACH RAIL

G2 REMOVE 87.5' OF EXISTING WOOD POST GUARDRAIL
STA 537+75 LT 20.0' TO STA 538+00 LT 19.0'
INSTALL 25' EAGRT ON ALTERNATE PLATFORM
STA 538+00 LT 19.0' TO STA 539+00 LT 15.0'
INSTALL 100 LF OF WOOD POST GUARDRAIL
MATCH TO EXISTING BRIDGE APPROACH RAIL

G3 REMOVE 100.0' OF EXISTING WOOD POST GUARDRAIL
STA 541+75 LT 16.0' TO STA 541+50 LT 15.0'
INSTALL 25' EAGRT ON ALTERNATE PLATFORM
STA 540+75 LT 15.0' TO STA 541+50 LT 15.0'
INSTALL 75 LF OF WOOD POST GUARDRAIL
MATCH TO EXISTING BRIDGE APPROACH RAIL

G4 REMOVE 62.5' OF EXISTING WOOD POST GUARDRAIL
STA 541+07.5 RT 15.0' TO STA 541+18.7 RT 33.6'
INSTALL 25 LF OF WOOD POST CURVED GUARDRAIL
R=13.5'
STA 541+07.5 RT 15.0' TO STA 540+70 RT 15.0'
INSTALL 37.5 LF OF WOOD POST GUARDRAIL
MATCH TO EXISTING BRIDGE APPROACH RAIL

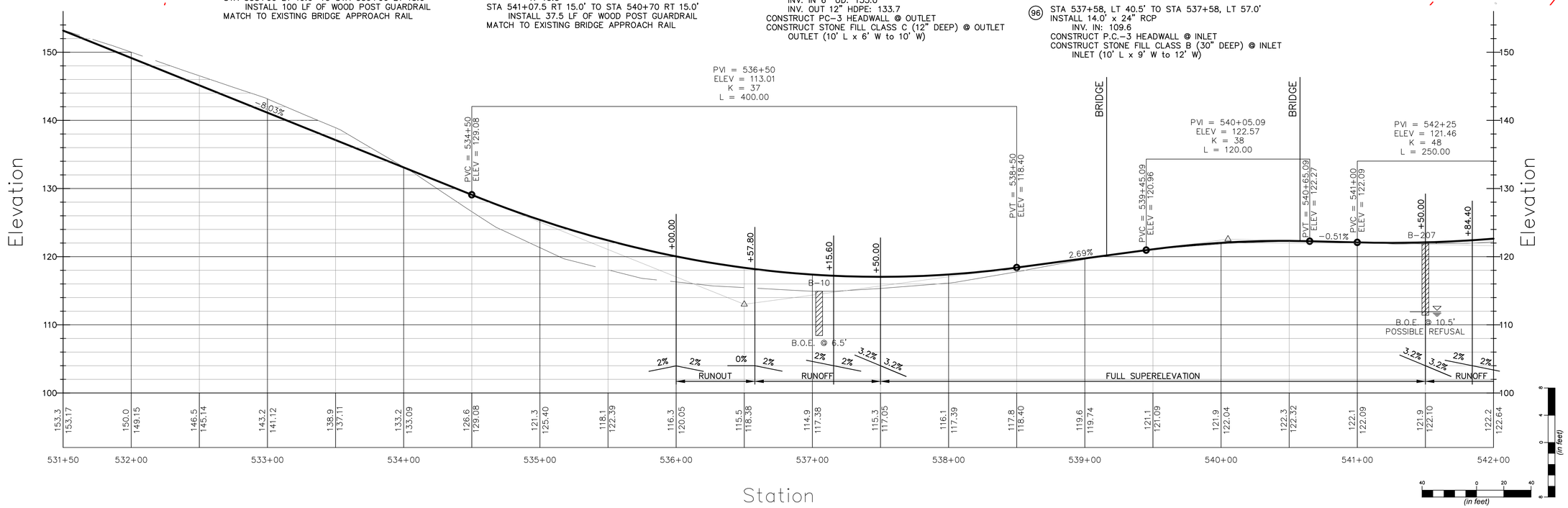
Drainage Notes:

(93) STA 531+62, RT 20.0' TO STA 531+90, RT 20.0'
INSTALL 28.0' x 15" RCP
INV. IN: 149.7
INV. OUT: 147.7

(94) STA 535+05, LT 22.5' TO STA 533+25, LT 18.0'
INSTALL 180.0' x 12" HDPE COMBINED CAARIER/UNDERDRAIN
INV. OUT: 120.0
INSTALL 4' DIA. CB @ STA 533+25, LT 18.0'
GRATE: 138.20
INV. IN 6" UD: 135.0
INV. OUT 12" HDPE: 133.7
CONSTRUCT PC-3 HEADWALL @ OUTLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ OUTLET
OUTLET (10' L x 6' W to 10' W)

(95) STA 537+94, RT 34.0' TO STA 537+58, LT 40.5'
INSTALL 80.0' x 30" RCP
INSTALL 6' DIA. CB W/ BEEHIVE GRATE @ STA 537+58, LT 40.5'
TOP OF FRAME: 115.00
INV. IN 24" RCP: 108.8
INV. IN 24" (Existing): 109.1
INV. OUT 30" RCP: 108.55
CONSTRUCT P.C.-3 HEADWALL @ OUTLET
CONSTRUCT STONE FILL CLASS B (30" DEEP) @ OUTLET
OUTLET (20' L x 11' W to 20' W)

(96) STA 537+58, LT 40.5' TO STA 537+58, LT 57.0'
INSTALL 14.0' x 24" RCP
INV. IN: 109.6
CONSTRUCT P.C.-3 HEADWALL @ INLET
CONSTRUCT STONE FILL CLASS B (30" DEEP) @ INLET
INLET (10' L x 9' W to 12' W)



revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street, Portsmouth, NH 03801, 603-431-6196
Langer Place, 55 So. Commercial Street, Manchester, NH 03101, 603/627-0708
10 Free Street, Portland, Maine 04101, 207/841-4223
info@cmaengineers.com www.cmaengineers.com

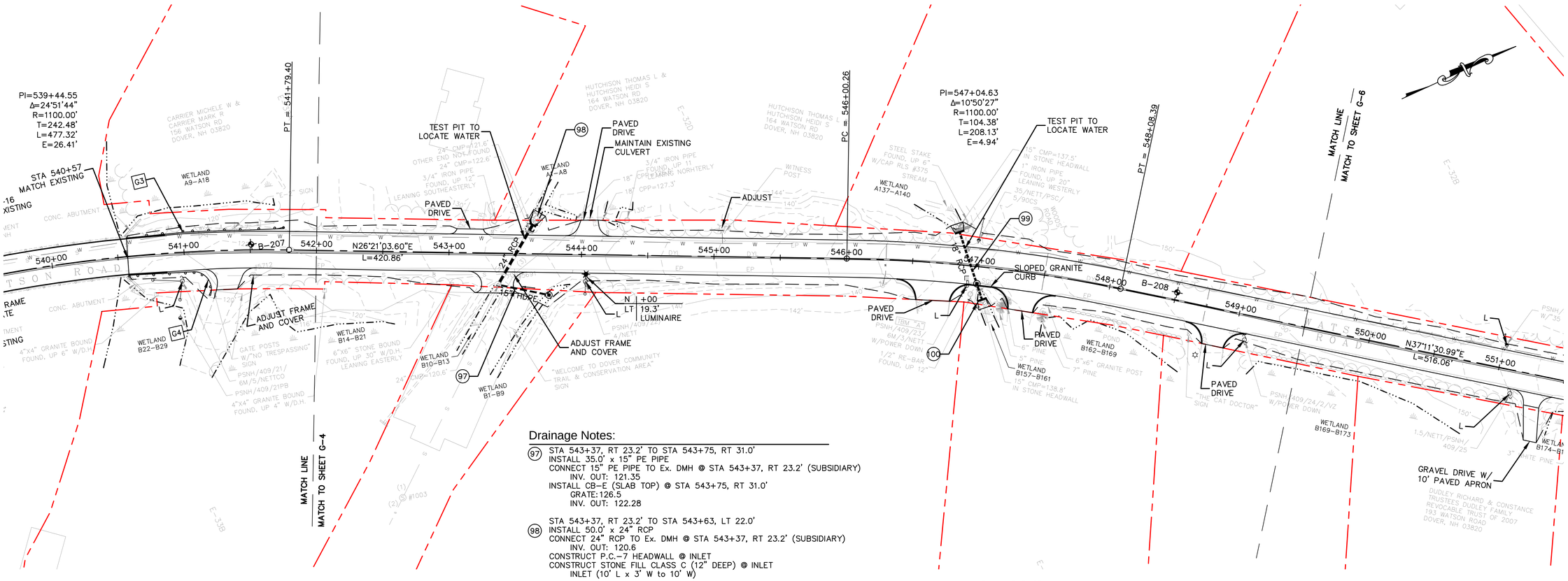
STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – DANIEL HUDSON No. 10622 – LICENSED

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: (in feet)

City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project
General Plans

drawing no. G-4

F:\CADD\PROJECTS\745\dwg\Watson-C3D\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 27, 2014 – 5:18pm Plotted By: SKJELLANDER



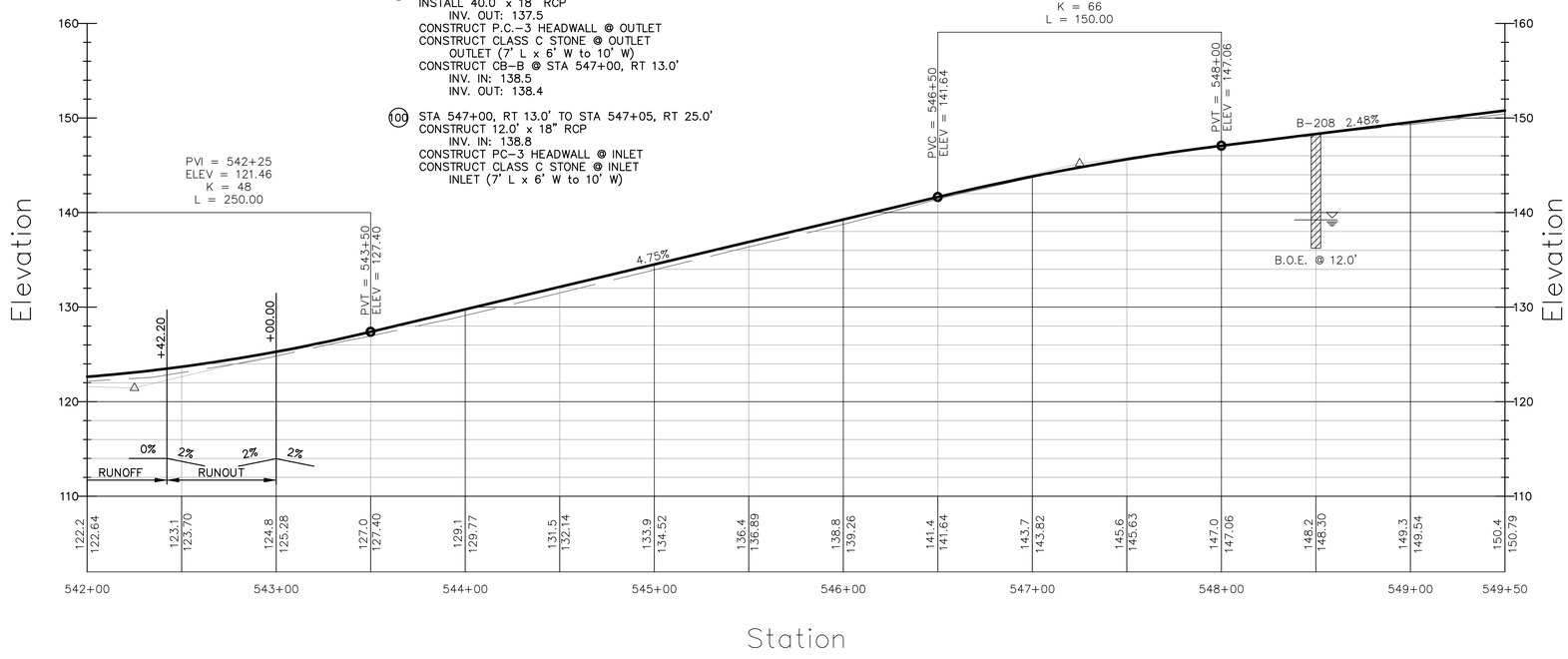
Drainage Notes:

(97) STA 543+37, RT 23.2' TO STA 543+75, RT 31.0'
INSTALL 35.0' x 15" PE PIPE
CONNECT 15" PE PIPE TO Ex. DMH @ STA 543+37, RT 23.2' (SUBSIDIARY)
INV. OUT: 121.35
INSTALL CB-E (SLAB TOP) @ STA 543+75, RT 31.0'
GRATE:126.5
INV. OUT: 122.28

(98) STA 543+37, RT 23.2' TO STA 543+63, LT 22.0'
INSTALL 50.0' x 24" RCP
CONNECT 24" RCP TO Ex. DMH @ STA 543+37, RT 23.2' (SUBSIDIARY)
INV. OUT: 120.6
CONSTRUCT P.C.-7 HEADWALL @ INLET
CONSTRUCT STONE FILL CLASS C (12" DEEP) @ INLET
INLET (10' L x 3' W to 10' W)

(99) STA 546+83, LT 25.0' TO STA 547+00, RT 13.0'
INSTALL 40.0' x 18" RCP
INV. OUT: 137.5
CONSTRUCT P.C.-3 HEADWALL @ OUTLET
CONSTRUCT CLASS C STONE @ OUTLET
OUTLET (7' L x 6' W to 10' W)
CONSTRUCT CB-B @ STA 547+00, RT 13.0'
INV. IN: 138.5
INV. OUT: 138.4

(100) STA 547+00, RT 13.0' TO STA 547+05, RT 25.0'
CONSTRUCT 12.0' x 18" RCP
INV. IN: 138.8
CONSTRUCT PC-3 HEADWALL @ INLET
CONSTRUCT CLASS C STONE @ INLET
INLET (7' L x 6' W to 10' W)



no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street Portsmouth, NH 03801 603-431-6196
Langer Place 55 So. Commercial Street Manchester, NH 03101 603/627-0708
10 Free Street Portland, Maine 04101 207/541-4223
info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – DANIEL HUDSON No. 10522 LICENSED

H-G-5

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: (in feet)

City of Dover, New Hampshire
Community Services Division

Watson Road Rehabilitation Project

General Plans

drawing no. G-5

sheet: 6 of 22

F:\CADD\PROJECTS\745\dwg\Watson-C3D\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 27, 2014 – 5:18pm Plotted By: SKJELLANDER

PC = 546+00.26

PI=547+04.63
Δ=10°50'27"
R=1100.00'
T=104.38'
L=208.13'
E=4.94'

TEST PIT TO LOCATE WATER

PT = 548+08.39

STEEL STAKE FOUND, UP 6" W/CAP RLS #375

WETLAND A137–A140

15" CMP=137.5' IN STONE HEADWALL

1" IRON PIPE FOUND, UP 20" LEANING WESTERLY

35/NETT/PSC/5/90CS

STREAM

546+00

547+00

SLOPED GRANITE CURB

548+00

B–208

549+00

550+00

N37°11'30.99"E
L=516.06'

551+00

552+00

553+00

554+00

PAVED DRIVE

ITEM "A"

PSNH/409/23/6M/3/NETT W/POWER DOWN

1/2" RE–BAR FOUND, UP 12"

WETLAND B157–B161

15" CMP=138.8' IN STONE HEADWALL

PAVED DRIVE

WETLAND B162–B169

POND

6"x6" GRANITE POST

7" PINE

5" PINE

PAVED DRIVE

"THE CAT DOCTOR" SIGN

PSNH/409/24/2/VZ W/POWER DOWN

WETLAND B169–B173

1.5/NETT/PSNH/409/25

GRAVEL DRIVE W/ 10' PAVED APRON

WETLAND B174–B177

3" WHITE PINE

PAVED DRIVE

CONC. POST W/ELECTRIC BOX

"WATSON FIELDS" SIGN

PSNH/409/26/6MVZ1

"STOP" SIGN

PSNH/409/26Y/6MFP

DUDLEY RICHARD & CONSTANCE TRUSTEES DUDLEY FAMILY REVOCABLE TRUST OF 2007
193 WATSON ROAD
DOVER, NH 03820

MATCH LINE
MATCH TO SHEET G–5

E–328

E–32–1

E–32–2

E–32

PSNH/409/25S W/"35 MPH" SIGN

"THE CAT DOCTOR" VEHICLE RESTRICTION

PI=553+67.22
Δ=31°49'42"
R=150.00'
T=42.77'
L=83.33'
E=5.98'

PC = 553+24.45

PT = 554+07.78

EP = 554+25.79

STA 553+96
END PROJECT
MATCH EXISTING

STA 553+23.0
LT 38.0'
R=24.0'

REMOVE AND RESET SIGNS AS NEEDED

N05°21'49.46"E
L=18.02'
554+25.79

Watson Rd

Country Farm Rd

D3–1

"STOP" SIGN "WATSON & COUNTY ROADS"

PSNH/5/90/6VZ104

ITEM "Y"

106S/NETT/PSNH/5/90S

CONTROL POINT #8

STA 553+82.3
RT 84.0'
R=70.0'

STOP

R1–1
(30"X30")

PSNH409/28/6MVZ1/2 W/TRANSFORMER & ELECTRIC METERS

PSNH/409/27/6MVZ1/2 W/TRANSFORMERS & ELECTRIC METERS

(in feet)

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/841-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
DANIEL HUDSON
No. 10622
LICENSED

4-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-X-P-PLAN-WATSON.dwg
scale: (in feet)

City of Dover, New Hampshire
Community Services Division

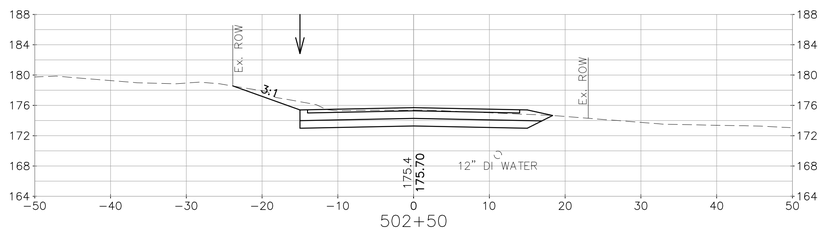
Watson Road
Rehabilitation Project

General Plans

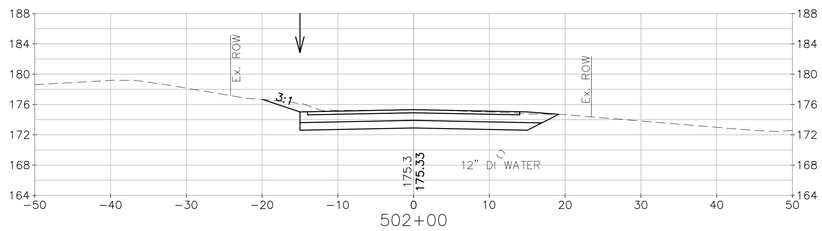
drawing no.
G-6

sheet: 7 of 22

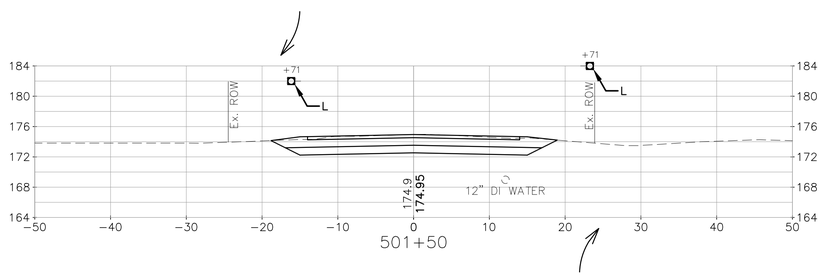
F:\CADD\PROJECTS\745\dwg\Watson-C3D\7450-X-P-PLAN-WATSON.dwg Date Plotted: May 27, 2014 – 5:18pm Plotted By: SKJELLANDER



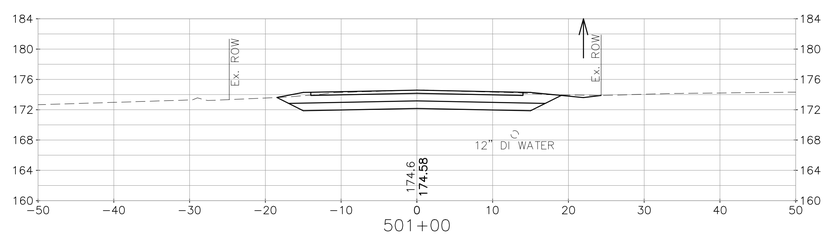
502+50



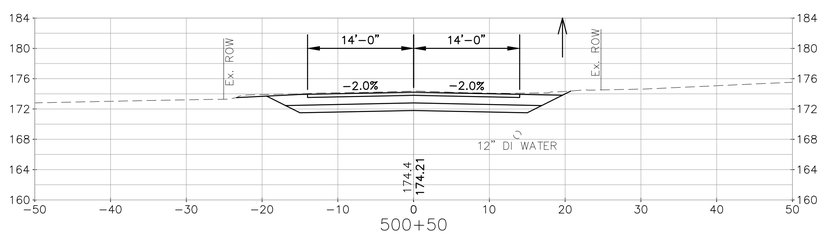
502+00



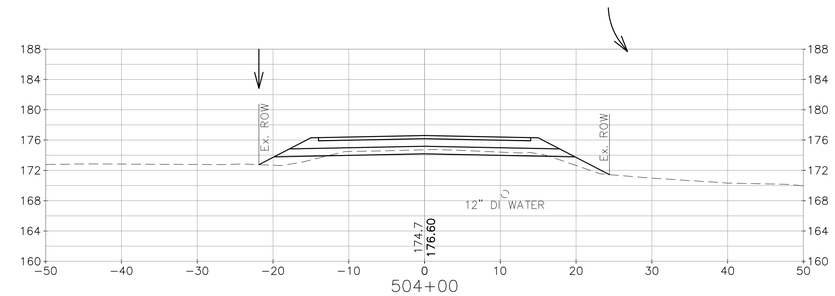
501+50



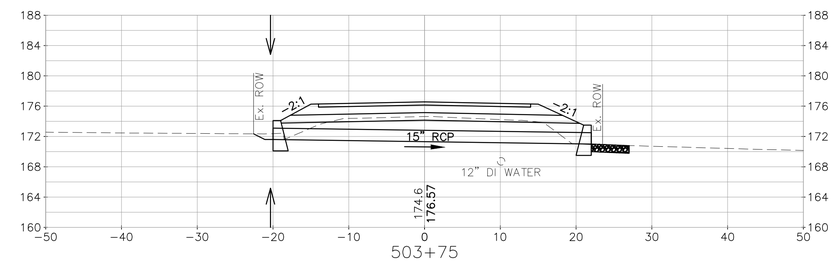
501+00



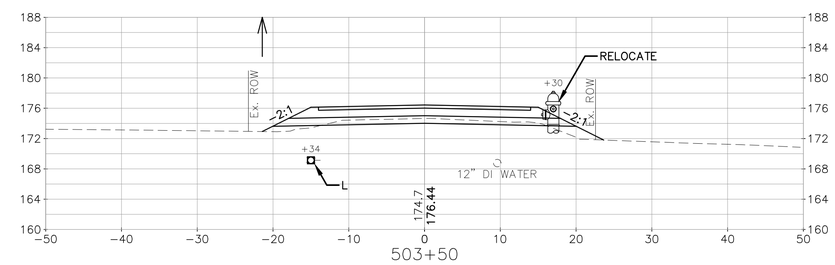
500+50



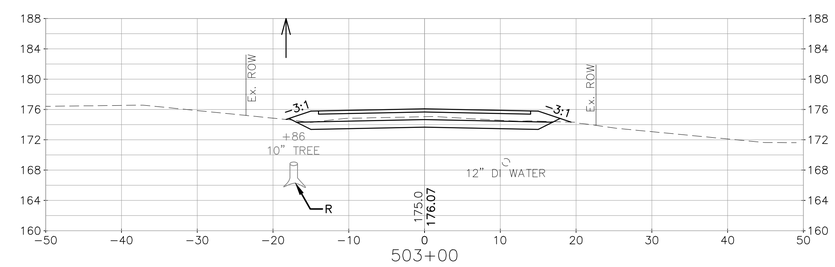
504+00



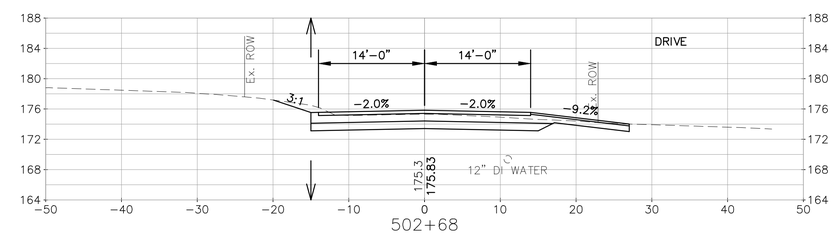
503+75



503+50



503+00



502+68

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS
35 Bow Street, Portsmouth, NH 03801, 603-431-6196
Langer Place, 55 So. Commercial Street, Manchester, NH 03101, 603/627-0708
10 Free Street, Portland, Maine 04101, 207/541-4223
info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 10 5 0 10 (in feet)

City of Dover, New Hampshire
Community Services Division

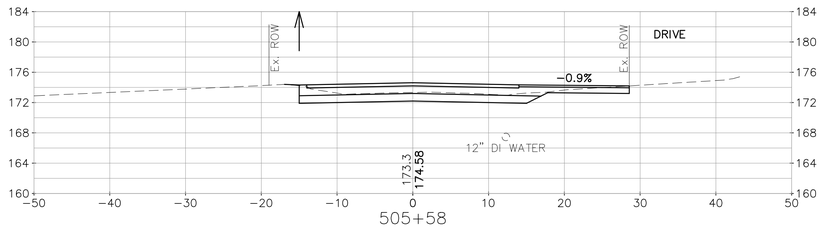
Watson Road
Rehabilitation Project

Cross Sections
Sta. 500+50 to 504+00

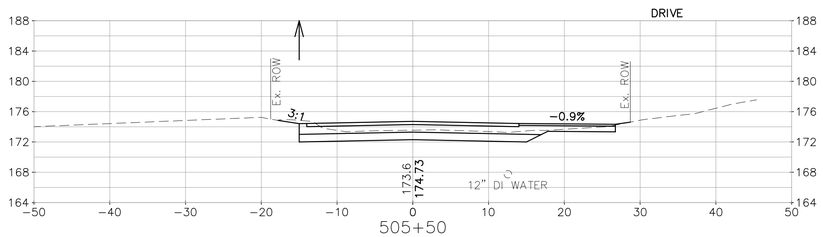
drawing no.
XS-1

sheet: 8 of 22

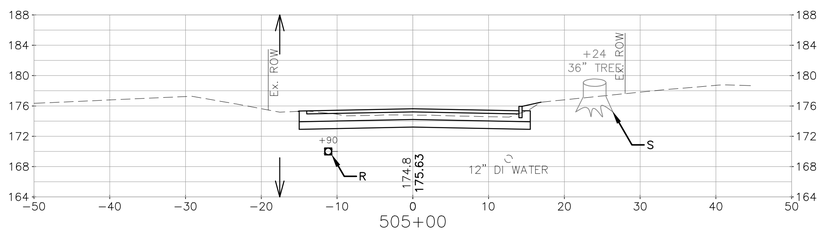
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:11pm Plotted By: SKJELLANDER



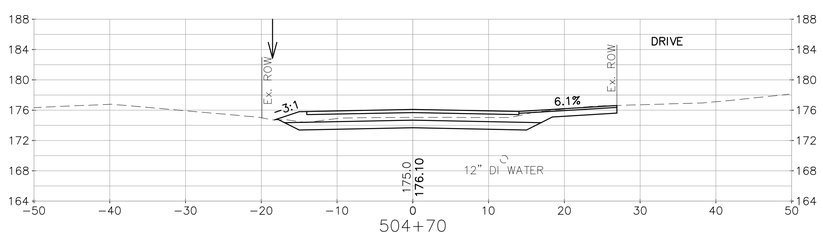
505+58



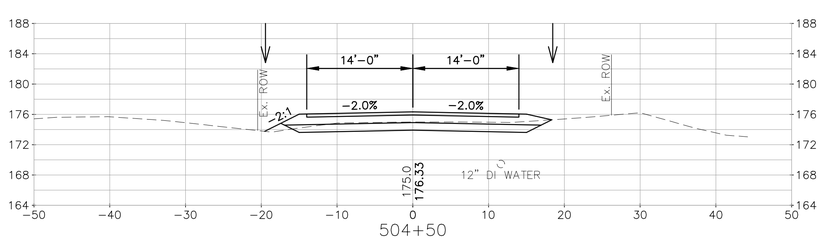
505+50



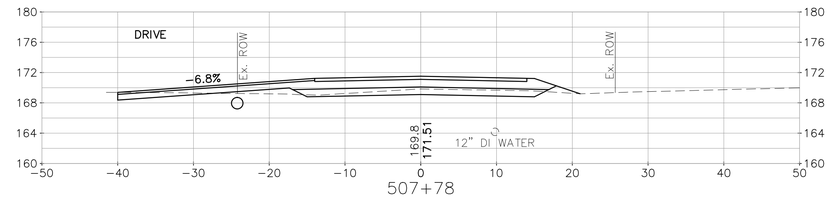
505+00



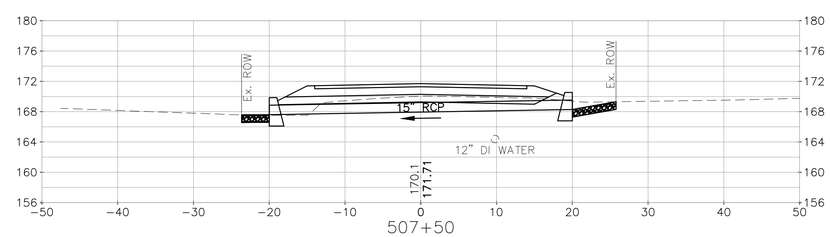
504+70



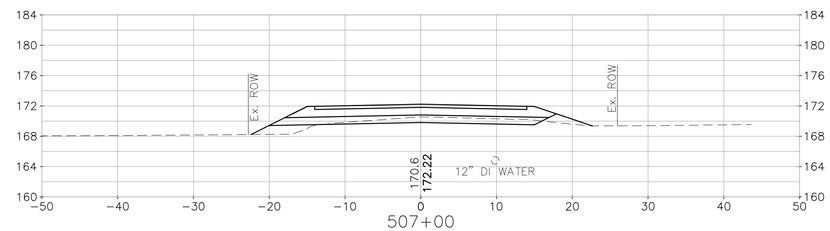
504+50



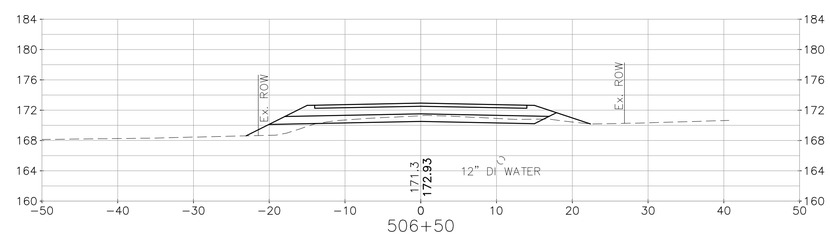
507+78



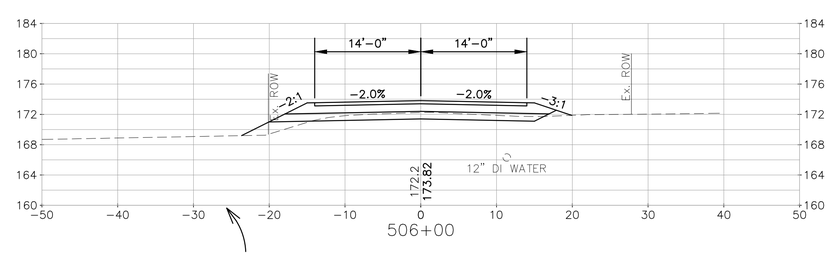
507+50



507+00



506+50



506+00

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
DANIEL HUDSON
No. 10622
LICENSED
5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
scale: (in feet) 10 5 0 10
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg

City of Dover, New Hampshire
Community Services Division

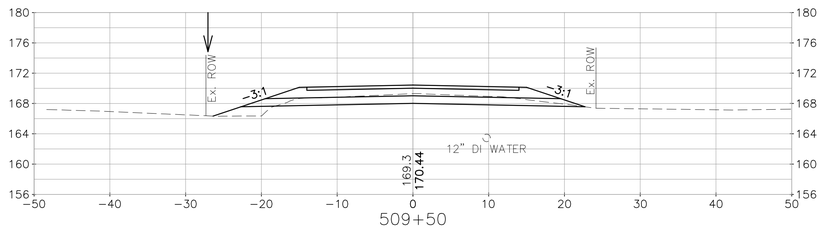
Watson Road
Rehabilitation Project

Cross Sections
Sta. 504+50 to 507+78

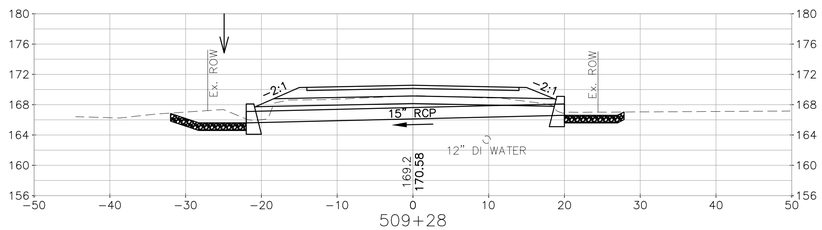
drawing no.
XS-2

sheet: 9 of 22

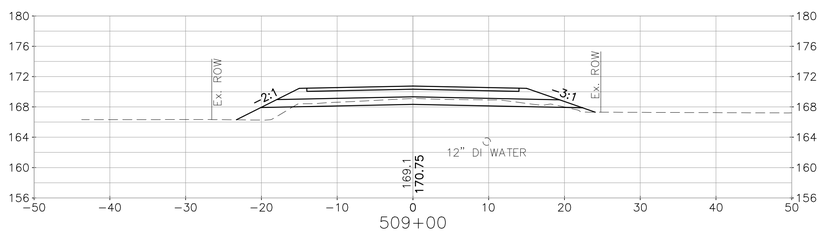
C:\Users\SKJellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:11pm Plotted By: SKJELLANDER



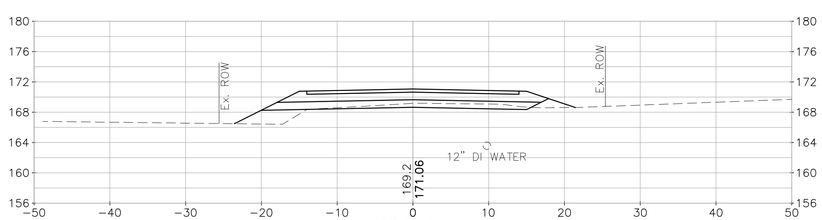
509+50



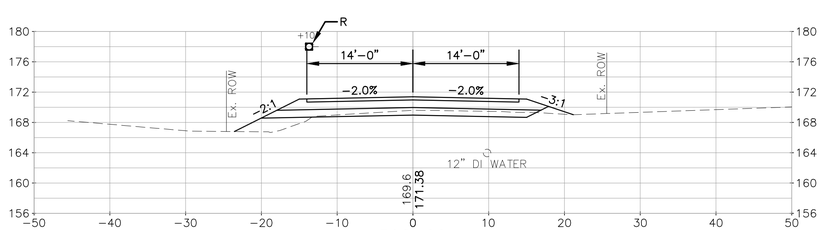
509+28



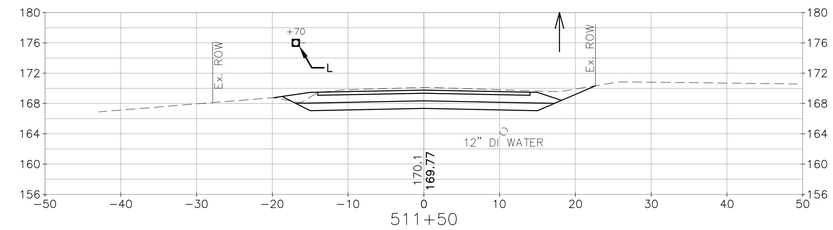
509+00



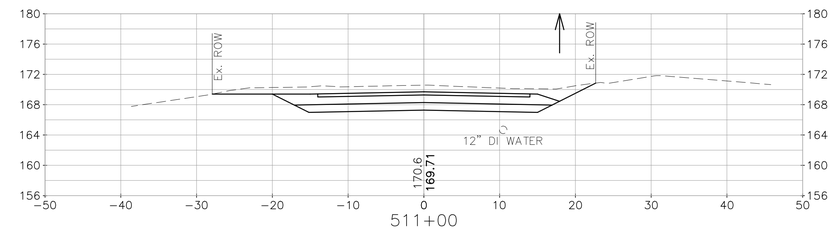
508+50



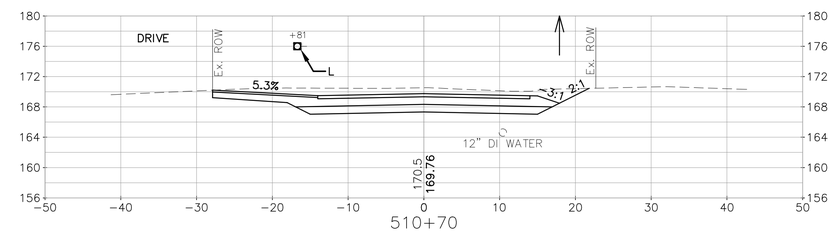
508+00



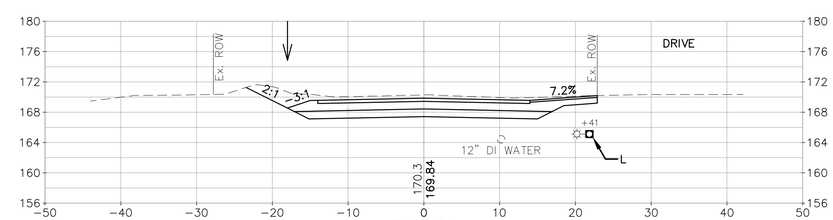
511+50



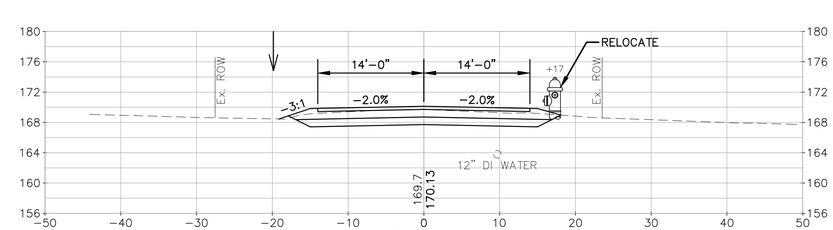
511+00



510+70



510+50



510+00

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

H-13-15

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 0 5 10 (in feet)

City of Dover, New Hampshire
Community Services Division

Watson Road
Rehabilitation Project

Cross Sections
Sta. 508+00 to 511+50

drawing no.
XS-3

C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:11pm Plotted By: SKJELLANDER

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

designed by: SCK/DH	drawn by: SCK	approved by: WAS	scale: 0 5 10 (in feet)
date: May 2014	project no: 745	file name: 7450-C3D XS.dwg	

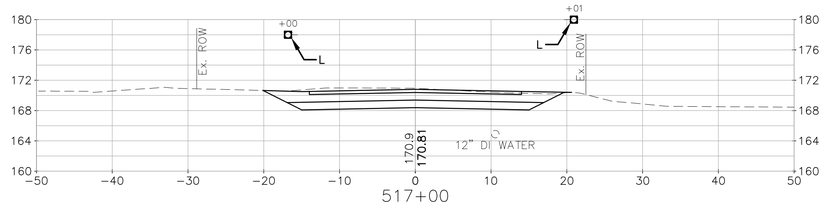
City of Dover, New Hampshire
Community Services Division

Watson Road
Rehabilitation Project

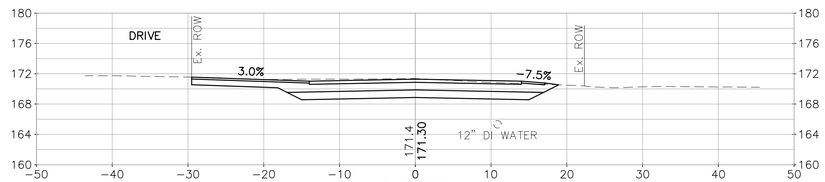
Cross Sections
Sta. 512+00 to 515+00

drawing no.
XS-4

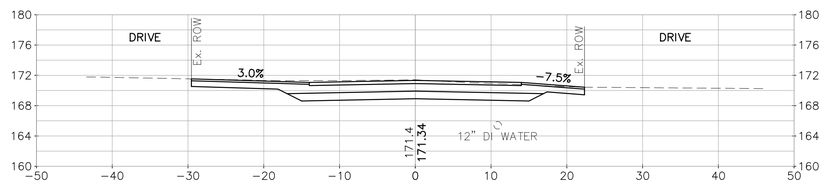
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:11pm Plotted By: SKJELLANDER



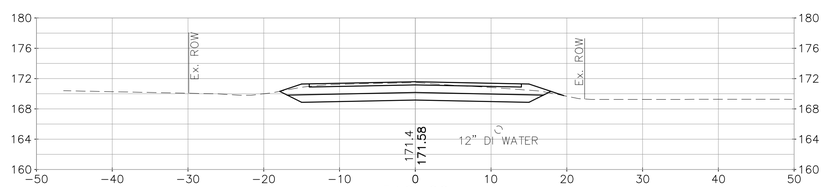
517+00



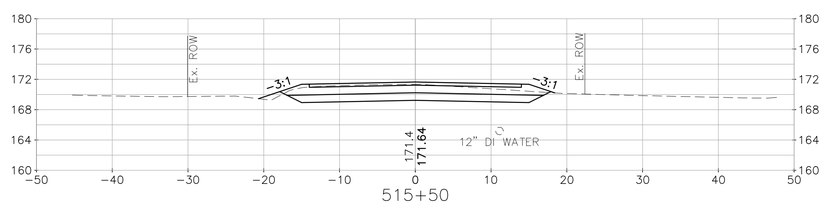
516+50



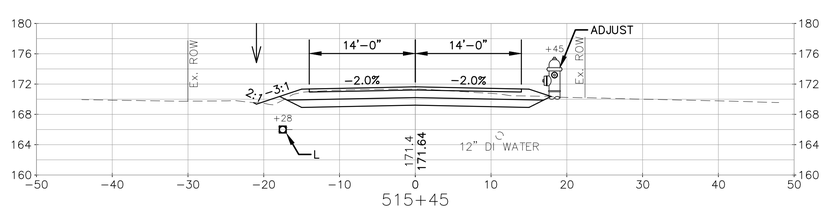
516+45



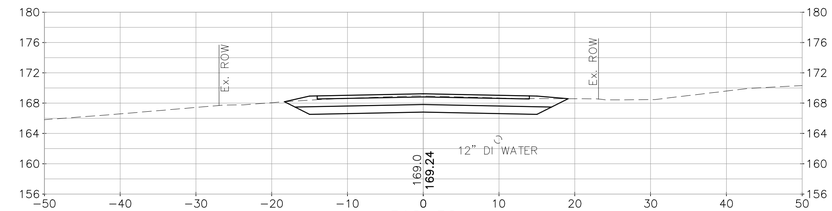
516+00



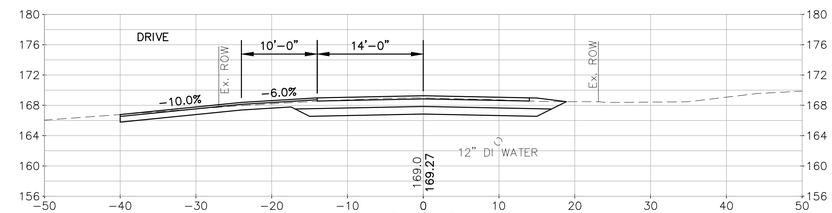
515+50



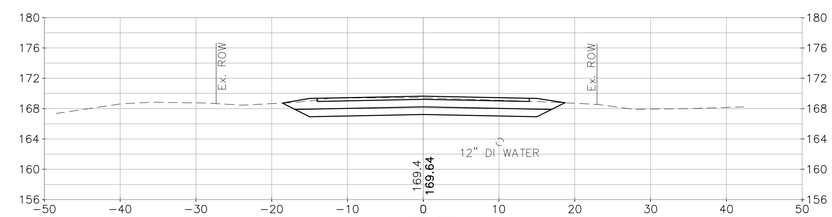
515+45



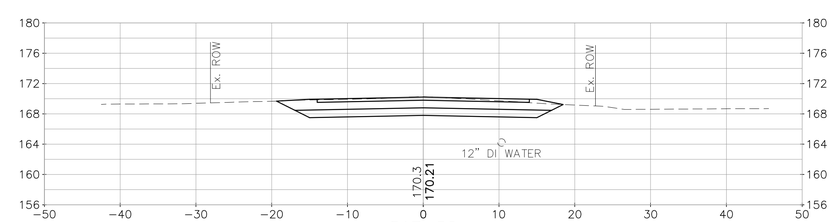
518+50



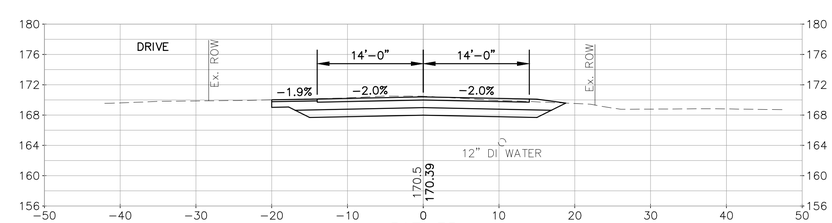
518+45



518+00



517+50



517+35

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-4196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – DANIEL HUDSON No. 10622 LICENSE

designed by: SCK/DH
drawn by: SCK
approved by: WAS
scale: (in feet) 10 5 0 10
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg

City of Dover, New Hampshire
Community Services Division

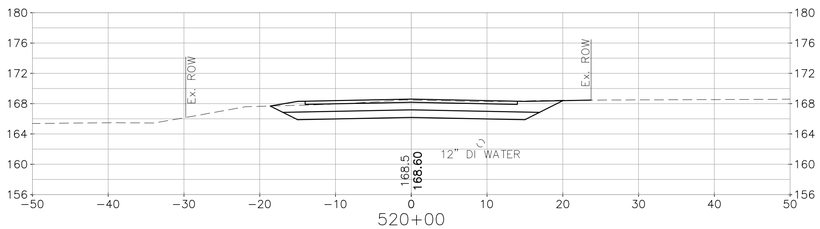
Watson Road
Rehabilitation Project

Cross Sections
Sta. 515+45 to 518+50

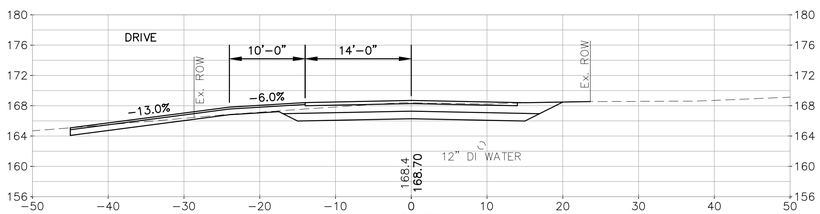
drawing no. XS-5

sheet: 12 of 22

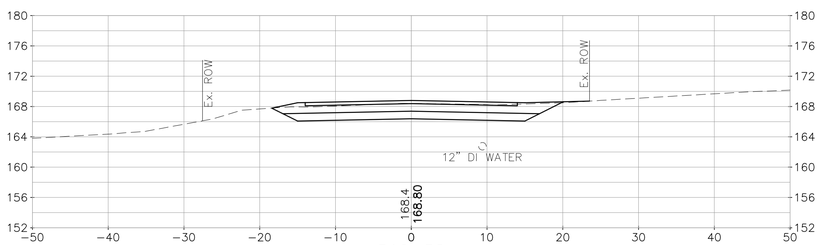
C:\Users\SKJellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:11pm Plotted By: SKJELLANDER



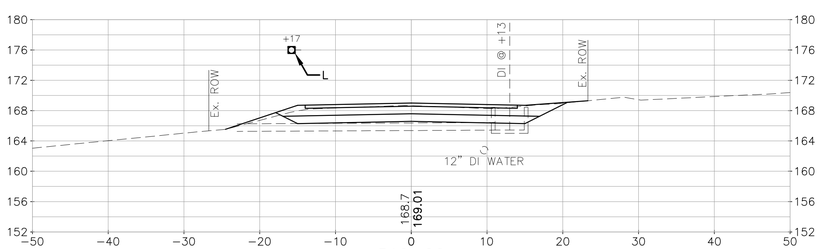
520+00



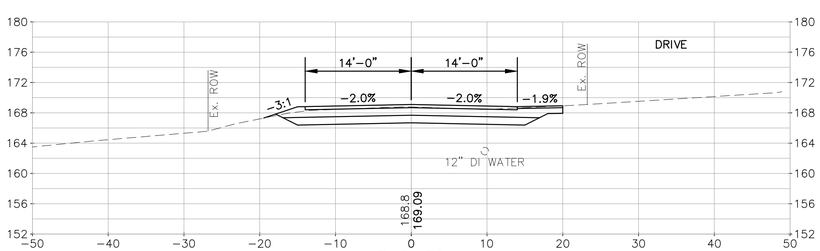
519+75



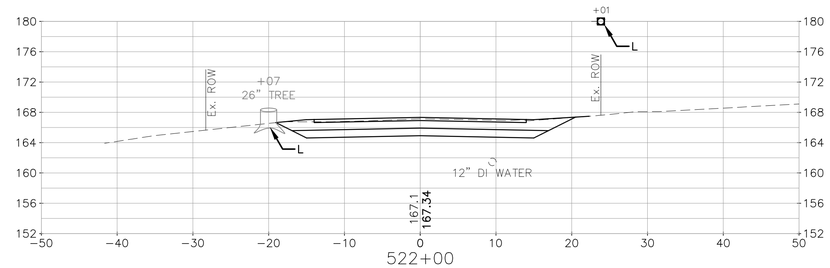
519+50



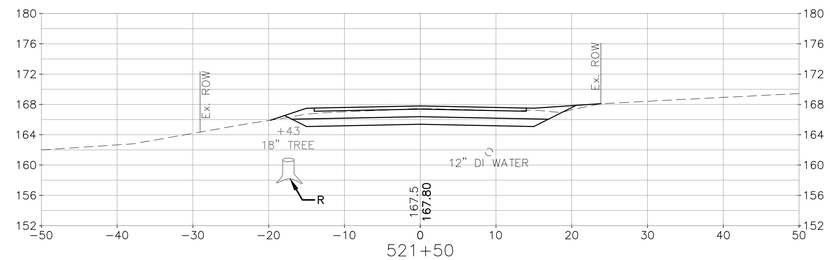
519+00



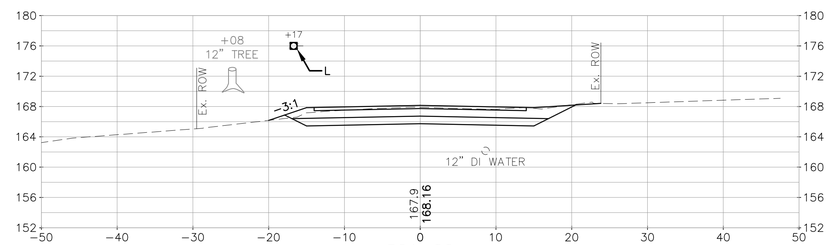
518+80



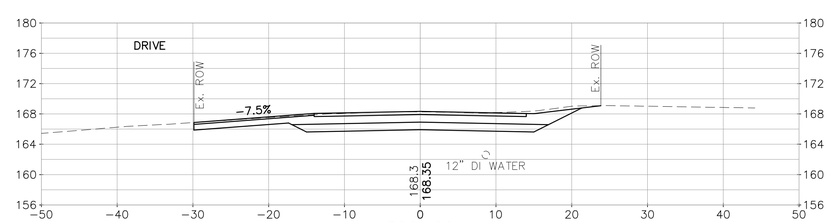
522+00



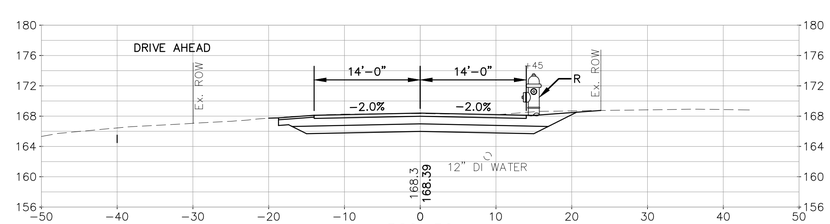
521+50



521+00



520+60



520+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

11-13-5

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 0 5 10 (in feet)

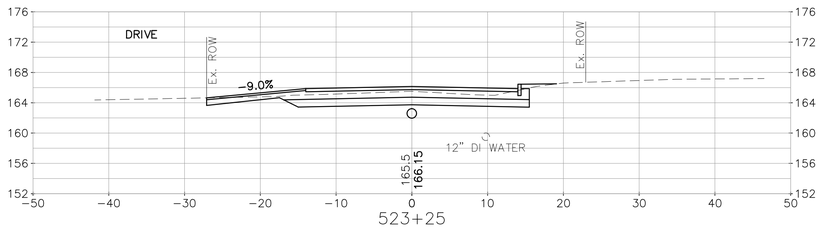
City of Dover, New Hampshire
Community Services Division

Watson Road
Rehabilitation Project

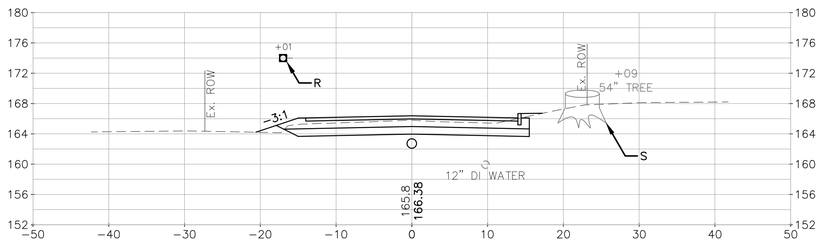
Cross Sections
Sta. 518+80 to 522+00

drawing no.
XS-6

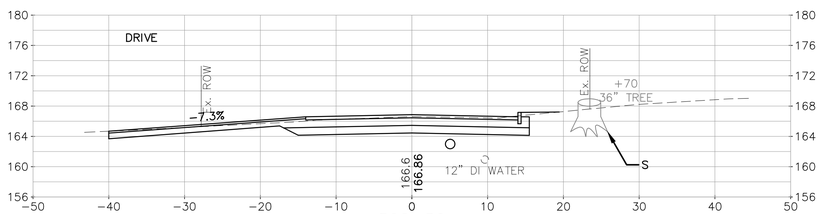
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:12pm Plotted By: SKJELLANDER



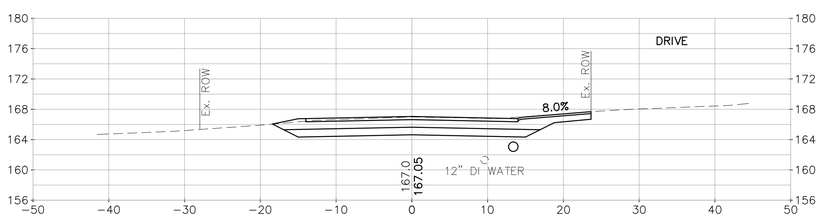
523+25



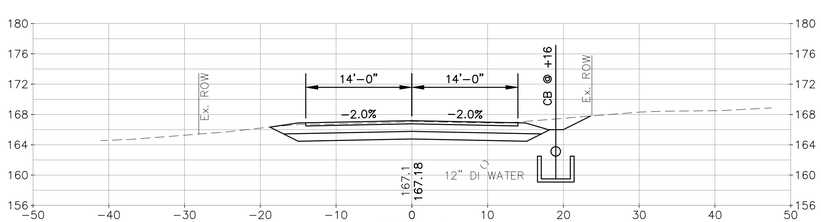
523+00



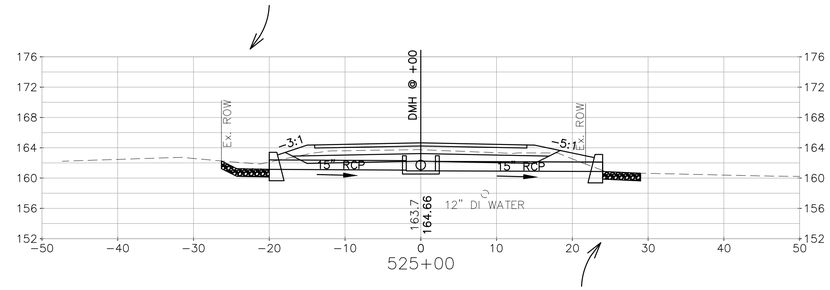
522+50



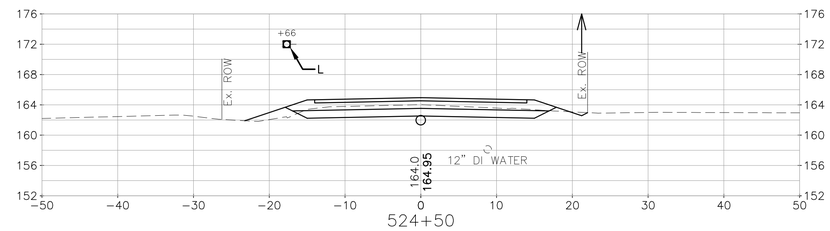
522+30



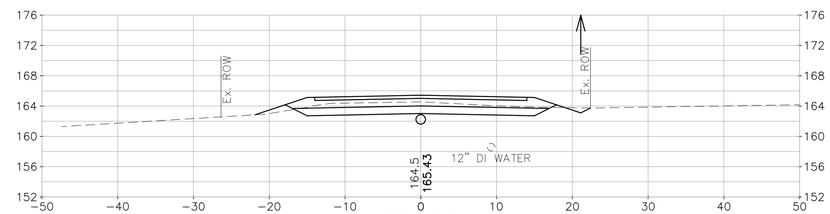
522+16



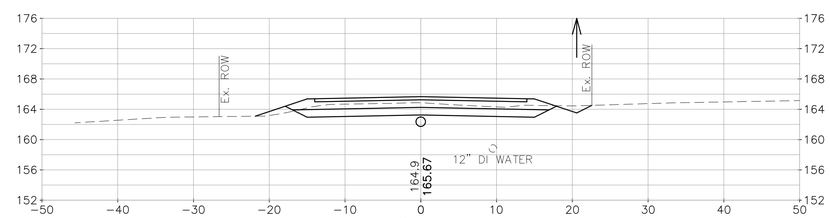
525+00



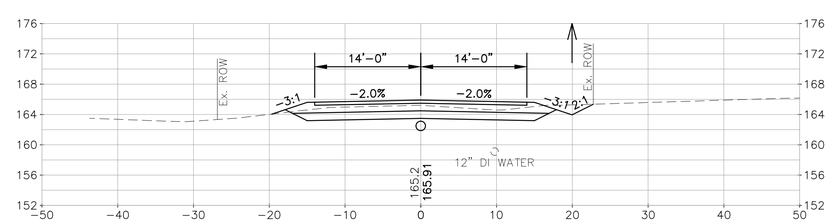
524+50



524+00



523+75



523+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER – DANIEL HUDSON No. 10522 LICENSE

5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: (in feet) 10 5 0 10

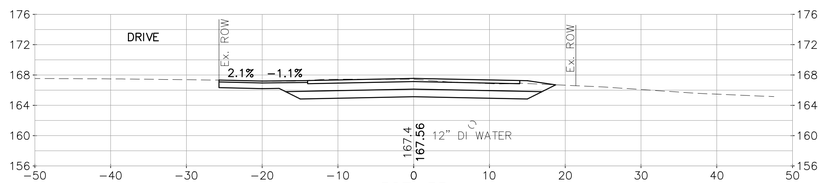
City of Dover, New Hampshire
Community Services Division

Watson Road
Rehabilitation Project

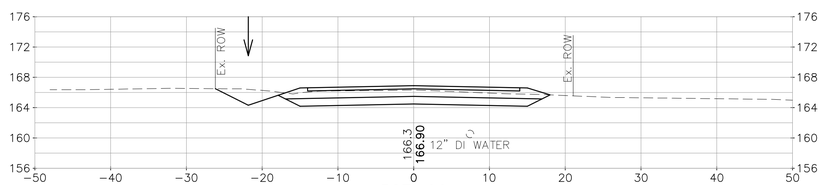
Cross Sections
Sta. 522+16 to 525+00

drawing no. XS-7

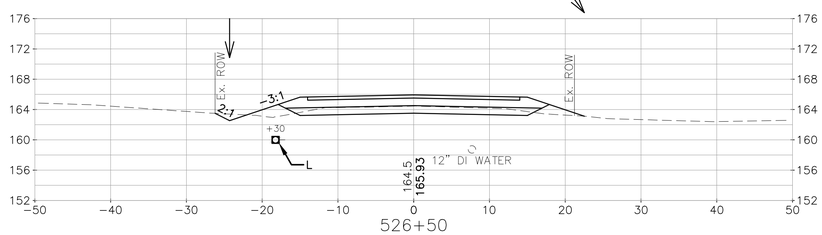
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:12pm Plotted By: SKJELLANDER



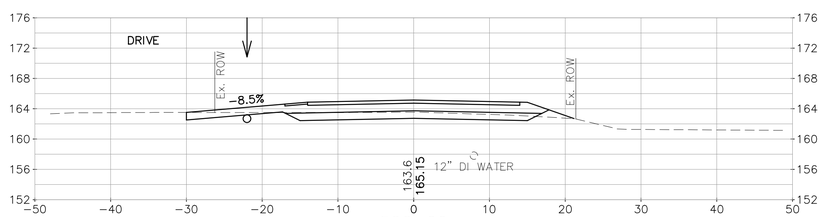
527+35



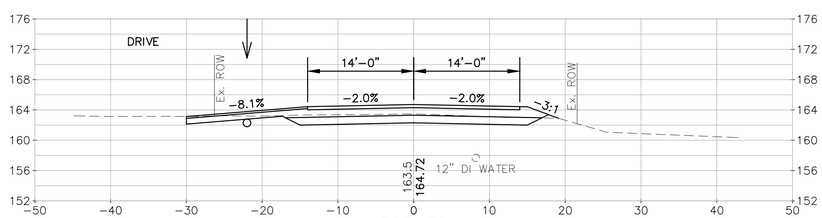
527+00



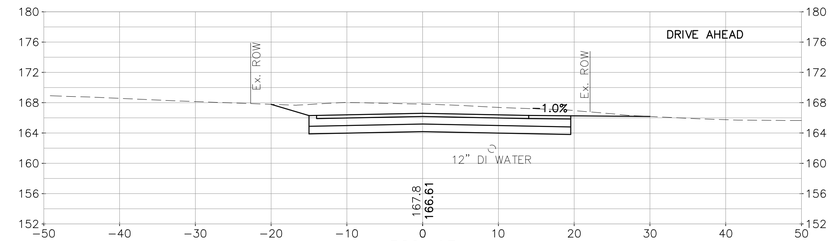
526+50



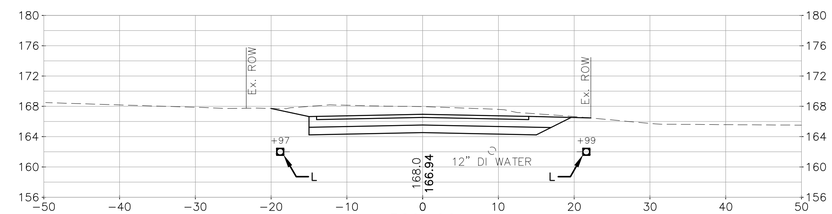
526+00



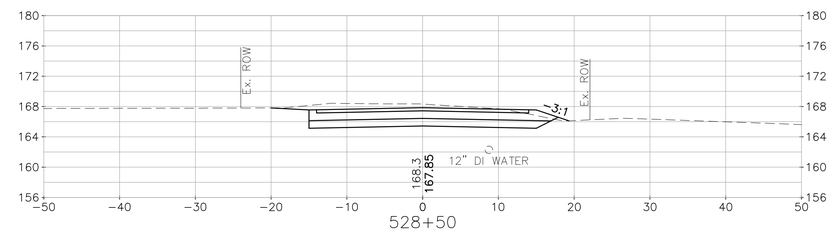
525+50



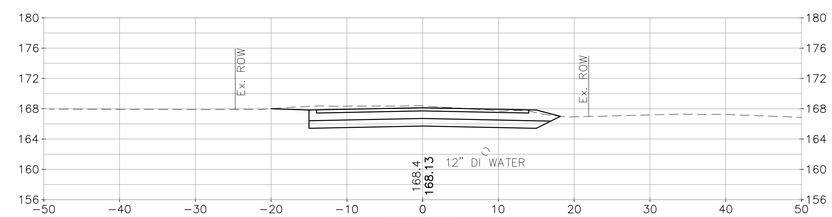
529+13



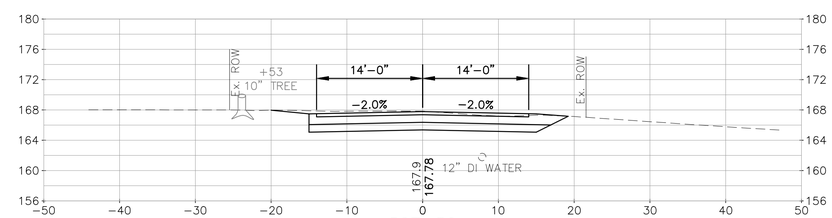
529+00



528+50



528+00



527+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – DANIEL HUDSON No. 10522 – PROFESSIONAL ENGINEER – LICENSED

14-523

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 0 5 10 (in feet)

City of Dover, New Hampshire
Community Services Division

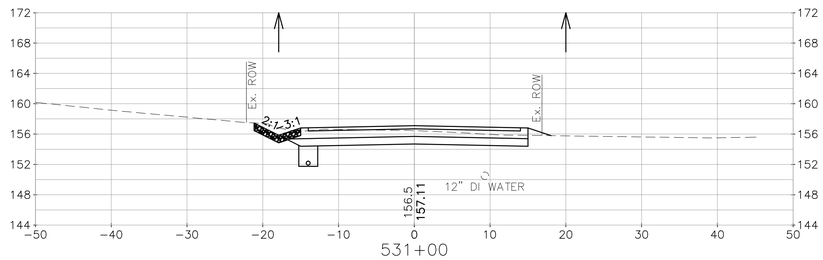
Watson Road
Rehabilitation Project

Cross Sections
Sta. 525+50 to 529+13

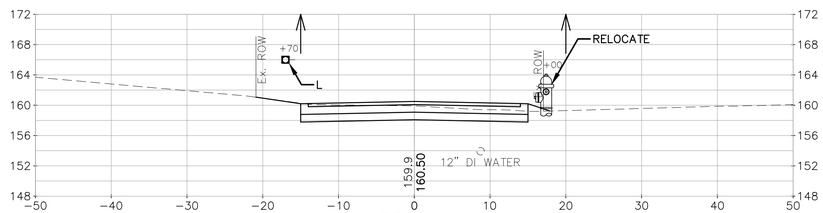
drawing no.
XS-8

sheet: 15 of 22

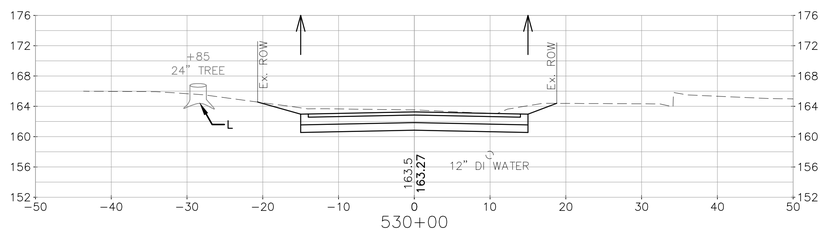
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:12pm Plotted By: SKJELLANDER



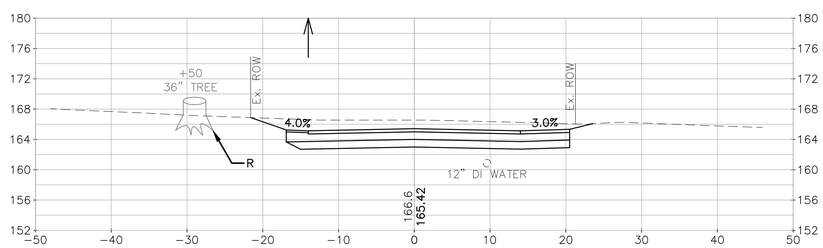
531+00



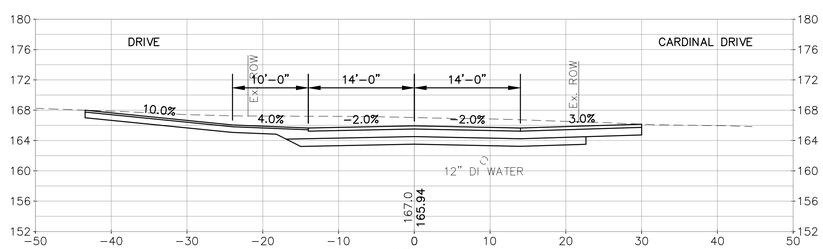
530+50



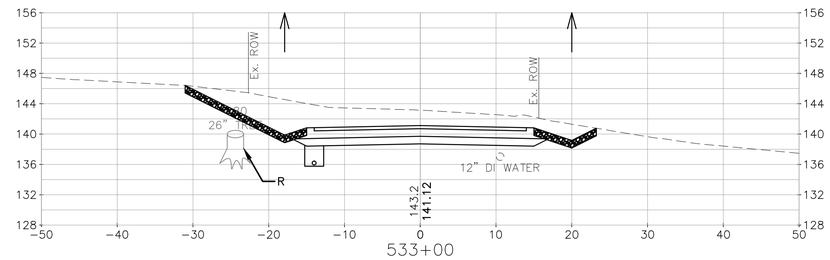
530+00



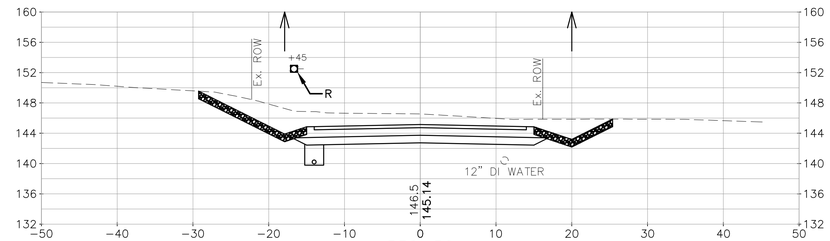
529+50



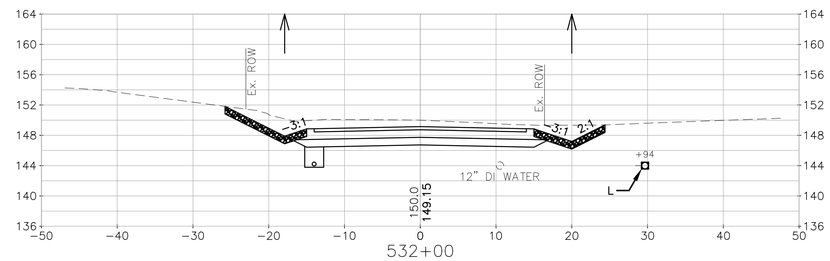
529+35



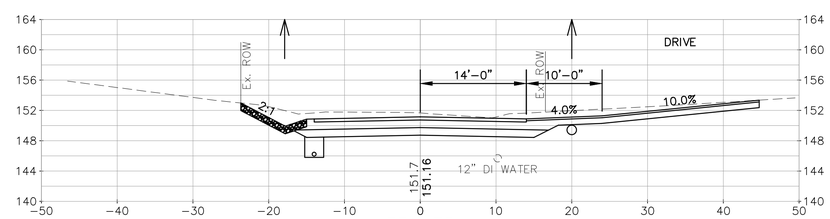
533+00



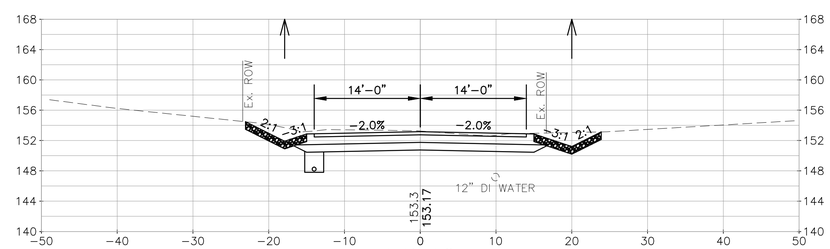
532+50



532+00



531+75



531+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - PROFESSIONAL ENGINEER

date: May 2014	project no: 745	file name: 7450-C3D XS.dwg	designed by: SCK/DH
			drawn by: SCK
			approved by: WAS

scale: 0 5 10 (in feet)

City of Dover, New Hampshire
Community Services Division

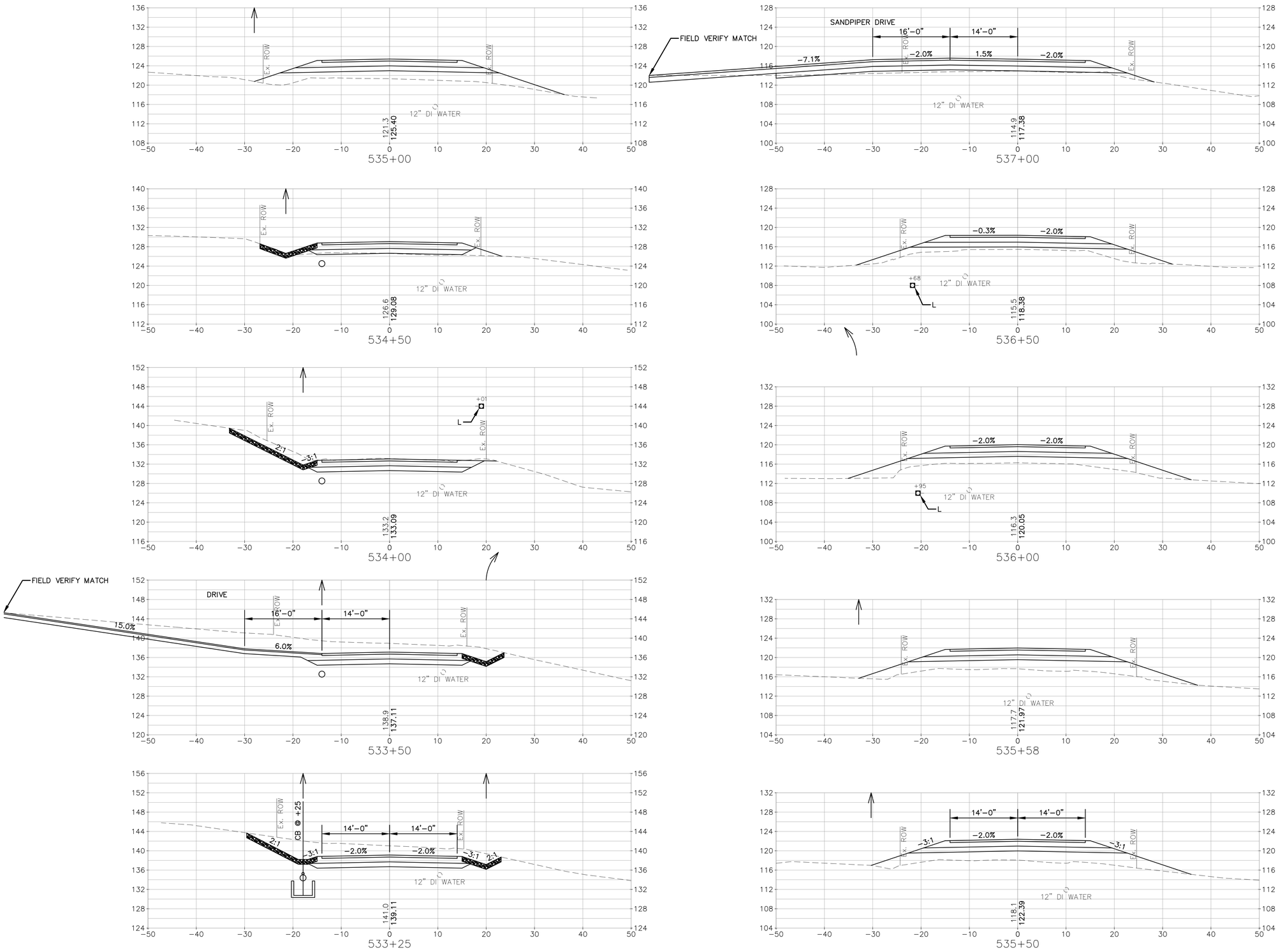
Watson Road
Rehabilitation Project

Cross Sections
Sta. 529+35 to 533+00

drawing no.
XS-9

sheet: 16 of 22

C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:12pm Plotted By: SKJELLANDER



no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - PROFESSIONAL ENGINEER
DANIEL HUDSON
No. 10522
LICENSED

5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 1" = 5' (in feet)

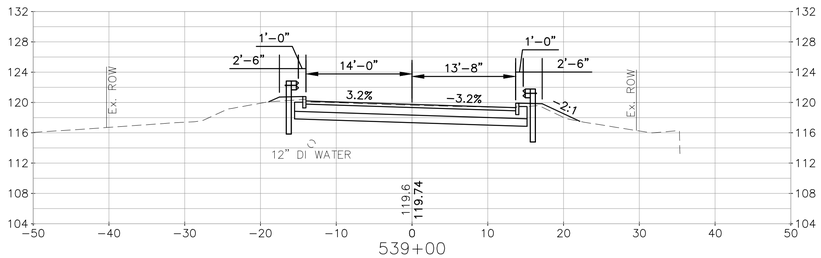
City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project

Cross Sections
Sta. 533+25 to 537+00

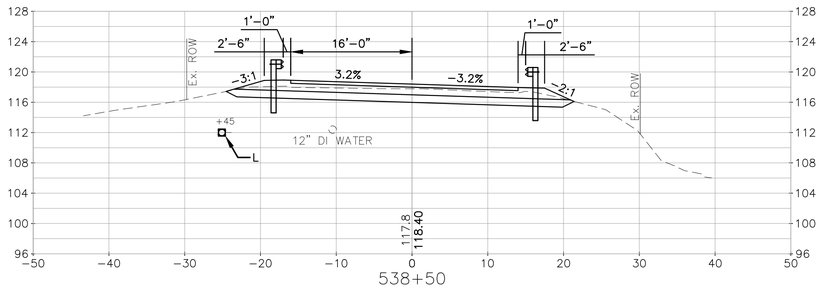
drawing no.
XS-10

sheet: 17 of 22

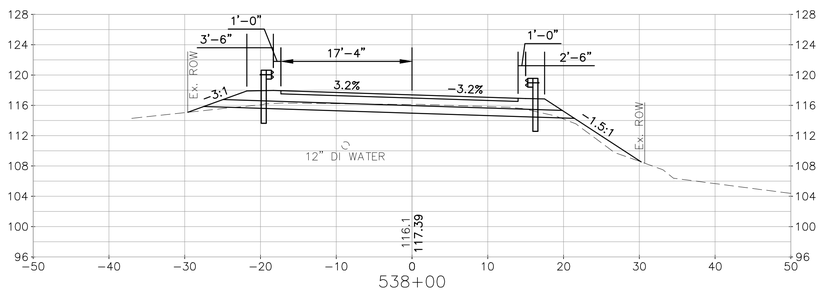
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:12pm Plotted By: SKJELLANDER



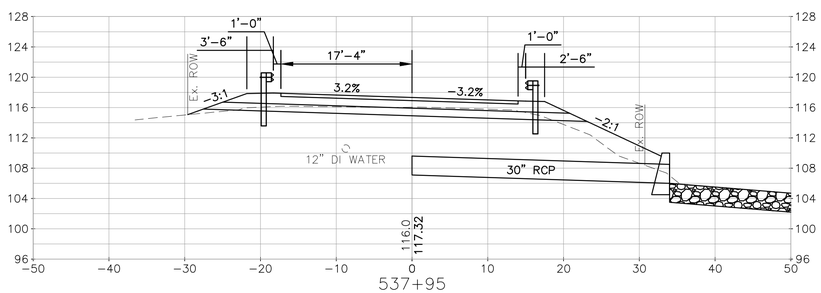
539+00



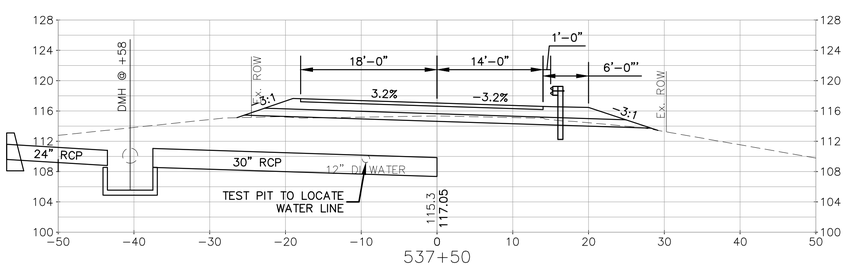
538+50



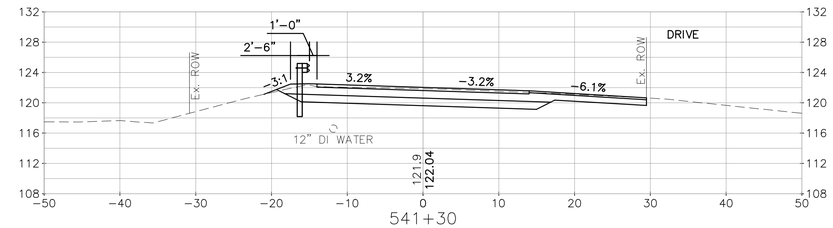
538+00



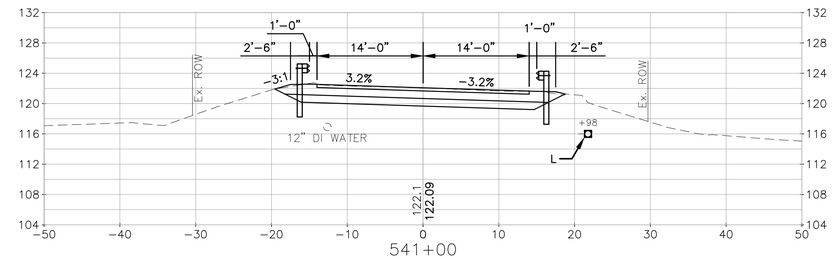
537+95



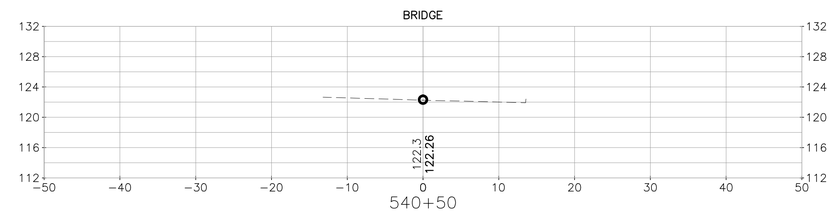
537+50



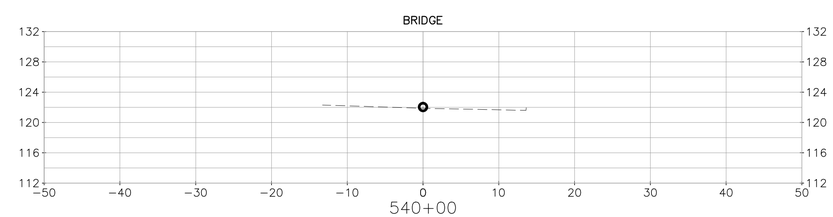
541+30



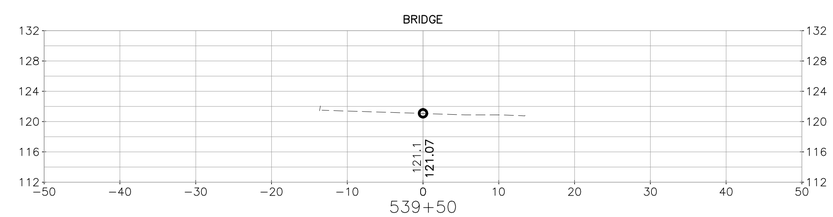
541+00



540+50



540+00



539+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 10 5 0 10 (in feet)

City of Dover, New Hampshire
Community Services Division

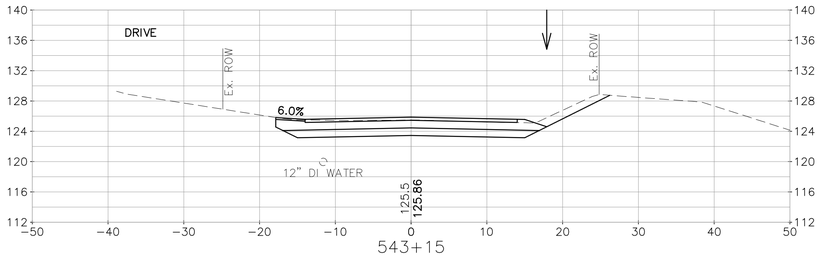
Watson Road
Rehabilitation Project

Cross Sections
Sta. 537+50 to 541+30

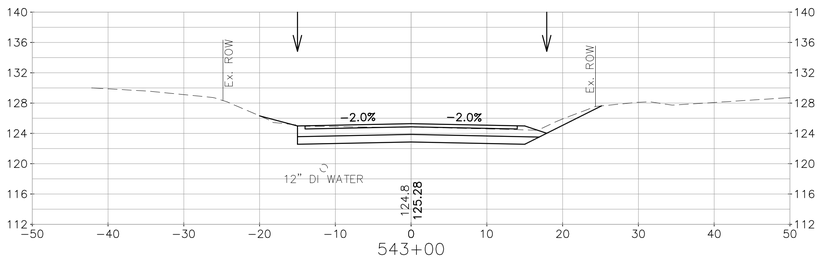
drawing no.
XS-11

sheet: 18 of 22

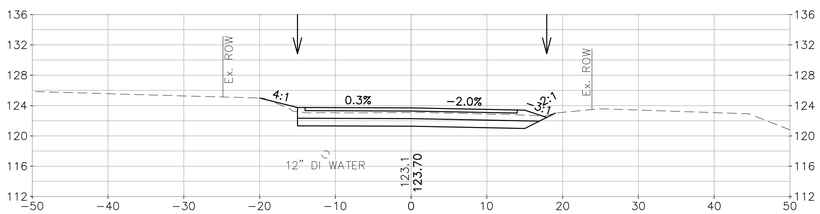
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:12pm Plotted By: SKJELLANDER



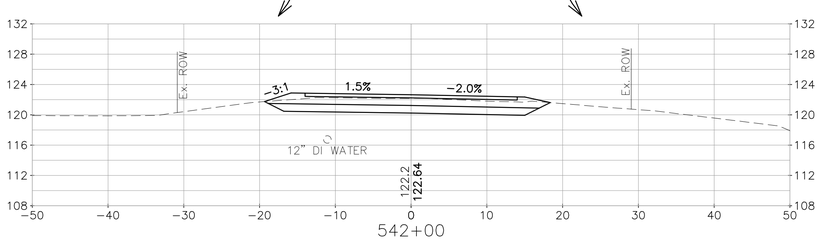
543+15



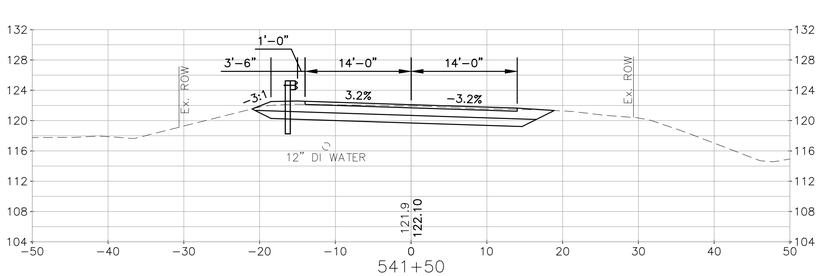
543+00



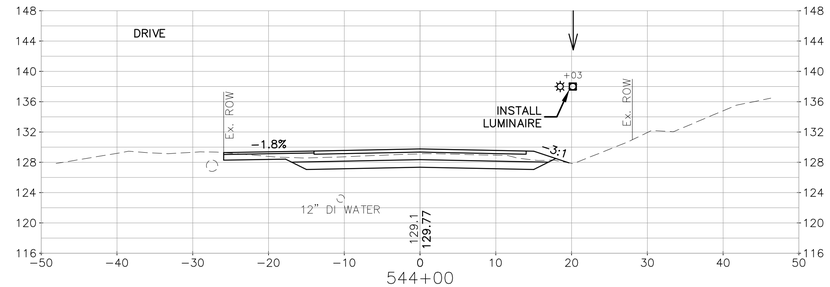
542+50



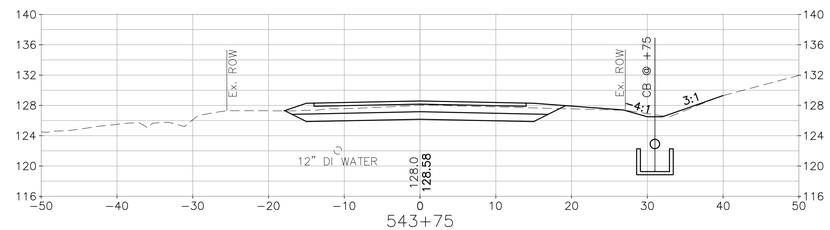
542+00



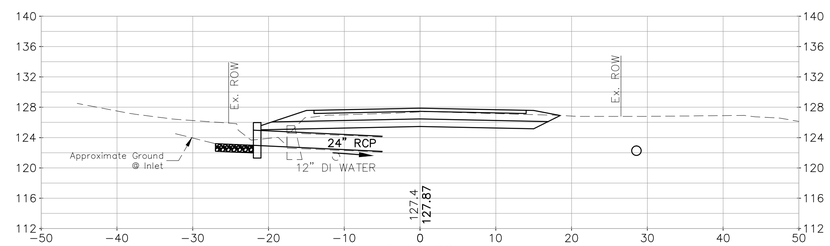
541+50



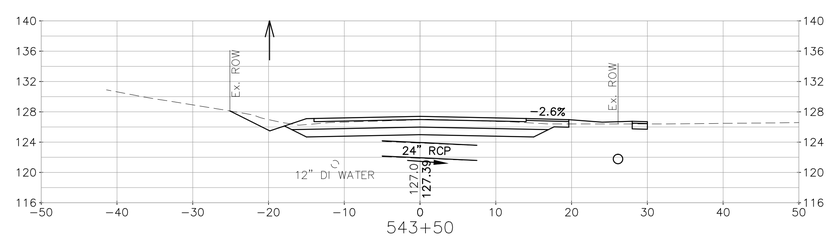
544+00



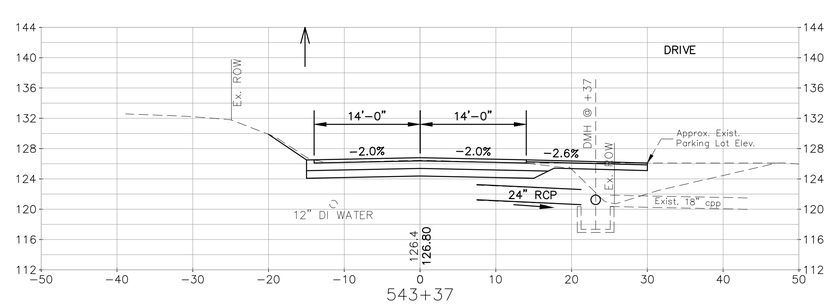
543+75



543+60



543+50



543+37

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10622 - LICENSED PROFESSIONAL ENGINEER

14-623

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 0 5 10 (in feet)

City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project

Cross Sections
Sta. 541+50 to 544+00

drawing no.
XS-12

sheet: 19 of 22

C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:12pm Plotted By: SKJELLANDER

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE - DANIEL HUDSON No. 10522 - LICENSED PROFESSIONAL ENGINEER

5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: 1" = 5' (in feet)

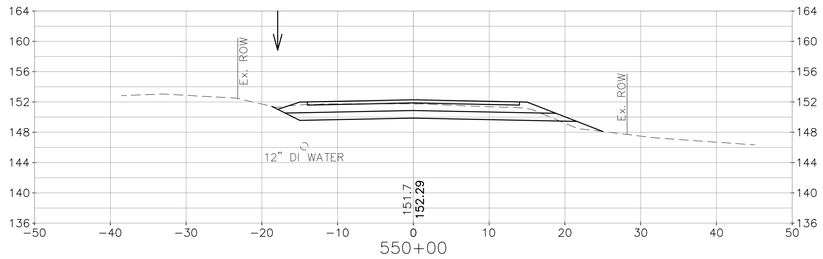
City of Dover, New Hampshire
Community Services Division
Watson Road
Rehabilitation Project

Cross Sections
Sta. 544+50 to 548+00

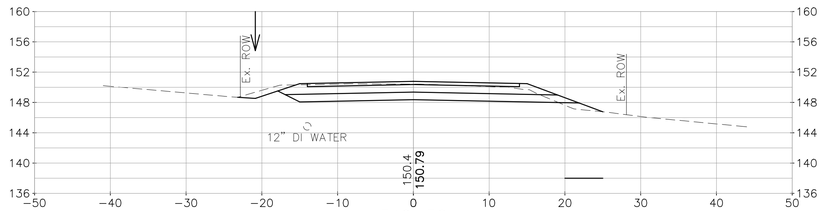
drawing no.
XS-13

sheet: 20 of 22

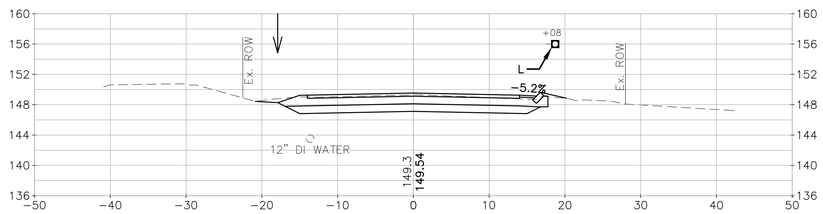
C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 - 6:13pm Plotted By: SKJELLANDER



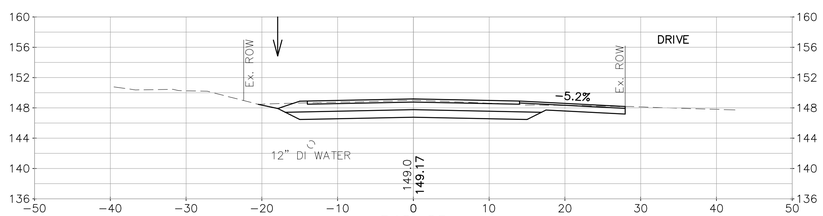
550+00



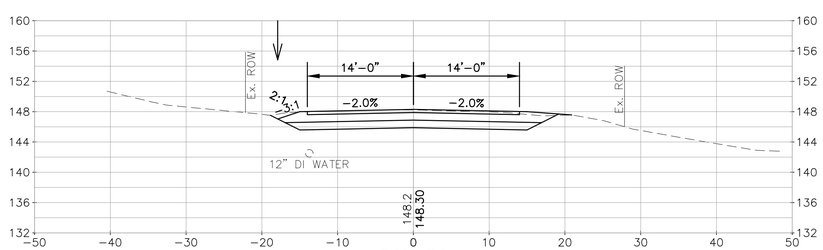
549+50



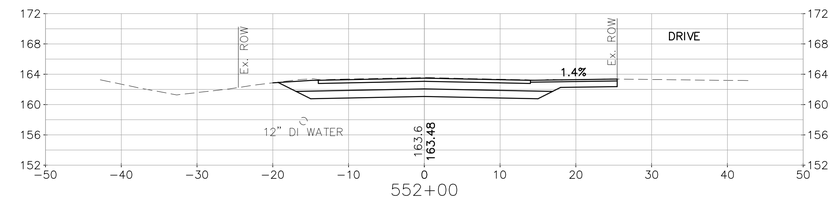
549+00



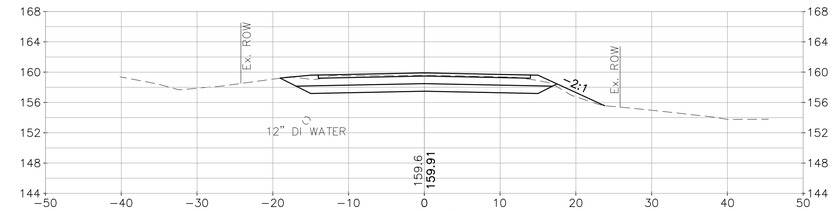
548+85



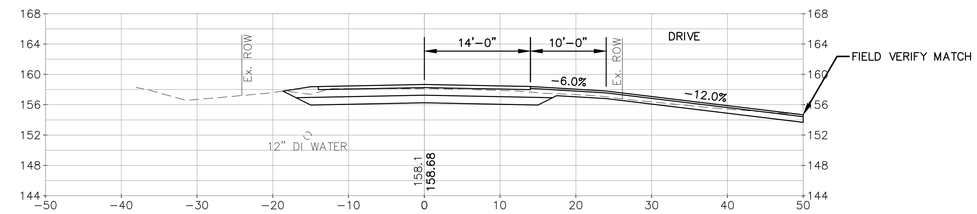
548+50



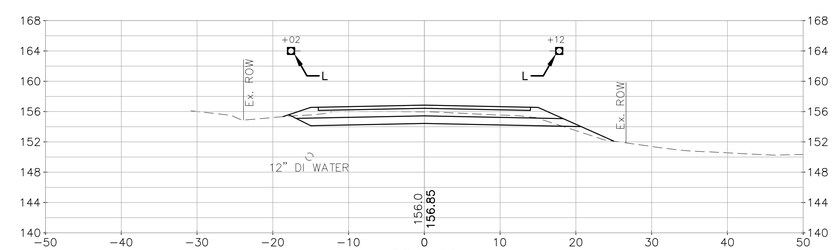
552+00



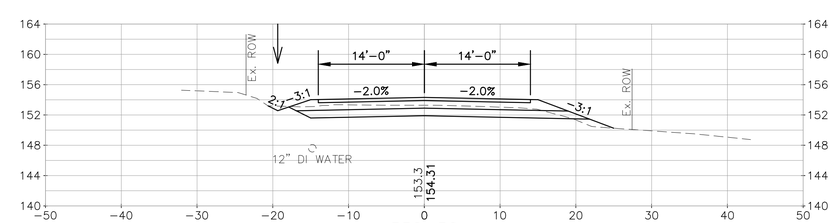
551+50



551+31



551+00



550+50

no.	revision	date	by

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603-431-6196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com
www.cmaengineers.com

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
DANIEL HUDSON
No. 10622
LICENSED
5-23-14

designed by: SCK/DH
drawn by: SCK
approved by: WAS
date: May 2014
project no: 745
file name: 7450-C3D XS.dwg
scale: (in feet) 10 5 0 10

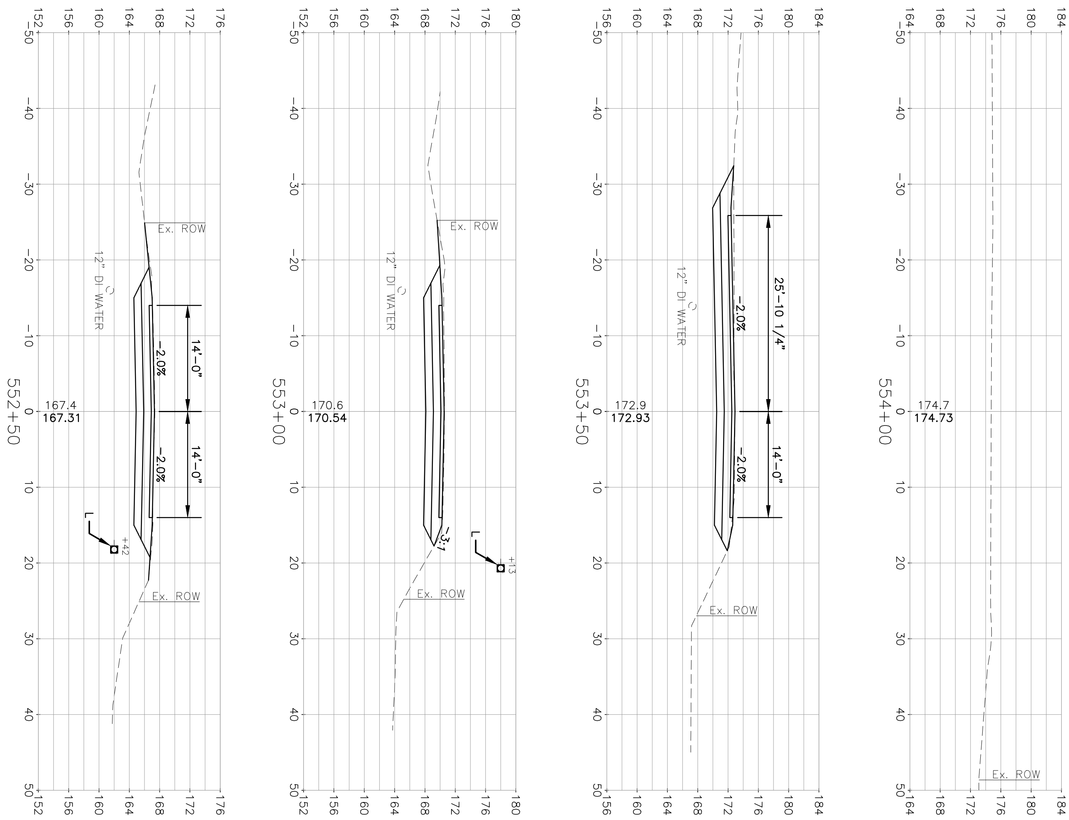
City of Dover, New Hampshire
Community Services Division

Watson Road
Rehabilitation Project

Cross Sections
Sta. 548+50 to 552+00

drawing no.
XS-14

C:\Users\SKjellander\appdata\local\temp\AcPublish_6492\7450-C3D XS.dwg Date Plotted: May 23, 2014 – 6:13pm Plotted By: SKJELLANDER



City of Dover, New Hampshire Community Services Division	date: May 2014	designed by: SCK/DH	
Watson Road Rehabilitation Project	project no: 745	drawn by: SCK	
	file name: 7450-C3D XS.dwg	approved by: WAS	
Cross Sections Sta. 552+50 to 554+00	scale: 10 2 5 10 (in feet)		

drawing no. XS-15

sheet: 22 of 22

STATE OF NEW HAMPSHIRE DANIEL HUDSON No. 10622 LICENSED PROFESSIONAL ENGINEER
5-23-14

CMA ENGINEERS
CIVIL/ENVIRONMENTAL ENGINEERS

35 Bow Street
Portsmouth, NH 03801
603/431-5196

Langer Place
55 So. Commercial Street
Manchester, NH 03101
603/627-0708

10 Free Street
Portland, Maine 04101
207/541-4223

info@cmaengineers.com www.cmaengineers.com

no.	revision	date	by