

ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS CONCORD WAY & PORPOISE WAY PORTSMOUTH, NEW HAMPSHIRE

ROCKINGHAM COUNTY

PROJECT LENGTH: 0.42 MILES
ROADWAY RECONSTRUCTION PROJECT

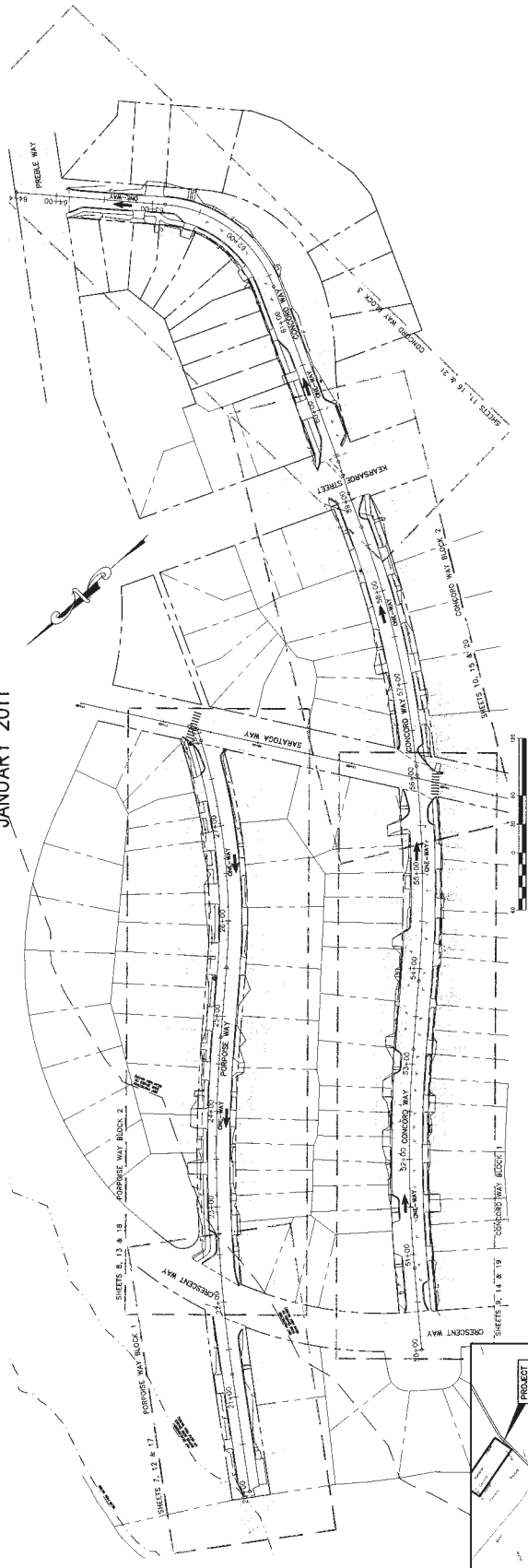
JANUARY 2011

SCALES

PLANS	1" = 40'
PROFILES	1" = 4'
CROSS SECTIONS	1" = 4'
SIGNAL PLAN	1" = 4'

INDEX OF SHEETS

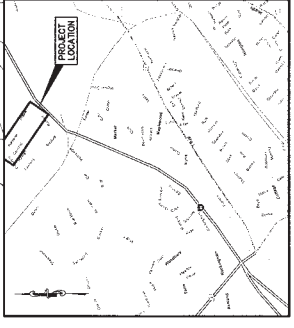
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	GENERAL NOTES
4-6	DETAILS
7-11	GEOMETRICS & DRAINAGE PLANS & PROFILES
12-16	UTILITY PLANS & PROFILES
17-21	CURBING LAYOUT PLANS
22-25	CROSS SECTIONS
58-59	EXISTING CONDITIONS PLAN
LI-L3	STREETSCAPE PLANTING PLANS



NOTE:
ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL BE GOVERNED BY AND BE IN CONFORMITY WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION, ANY SUPPLEMENTS THERETO, CURRENT INDOT GOVERNING STANDARDS, SPECIAL PLANS AND CURRENT CITY STANDARDS.

NOTE:
* THE CONTRACTOR MUST USE THE STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS AS A MINIMUM. THIS NOTES SHALL INCLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO PREVENT SLOPE CONSTRUCTION AND THE REMOVAL OF EROSION CONTROL MEASURES AFTER THE SLOPES ARE STABILIZED AND SUPPORTING VEGETATION

CLIENT:
CITY OF PORTSMOUTH
1. JUNKINS AVENUE
PORTSMOUTH, NH 03802



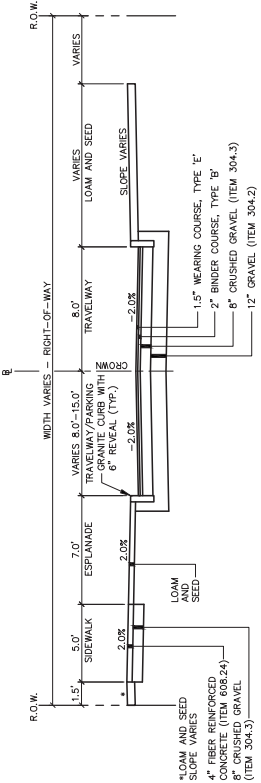
Issued For	Date	By
BIDDING	02/07/11	TLG
FINAL REVIEW	07/07/11	TLG
SPR REVIEW	10/29/10	TLG
PLAN REVIEW	07/27/10	TLG
USE REVIEW	07/20/10	TLG

Rev.	Date	Revison

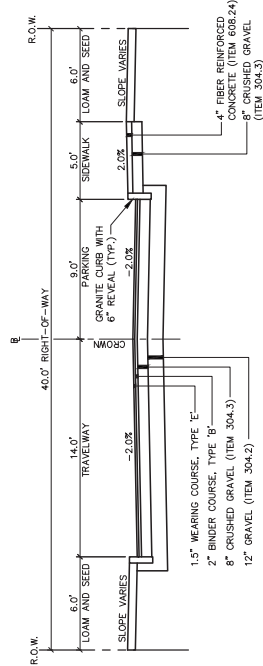
Prepared By:

GP Corroll-Palmer Consulting Engineers, Inc. 0303
Engineering Excellence Since 1998

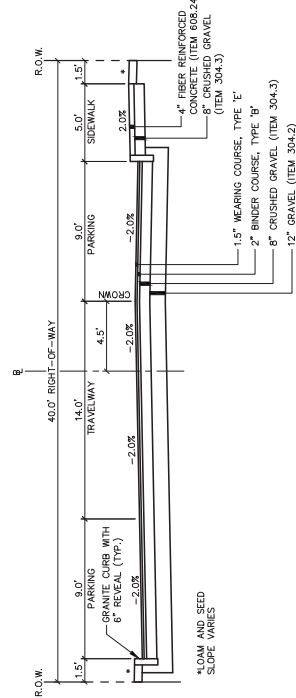
PO Box 1327
1. JUNKINS AVENUE
PORTSMOUTH, NH 03802
E-mail: robert@cp-engineers.com
http://www.cp-engineers.com



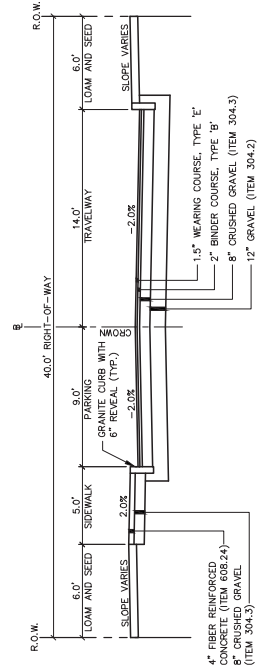
**CONCORD WAY
STA 59+47 TO STA 63+85**



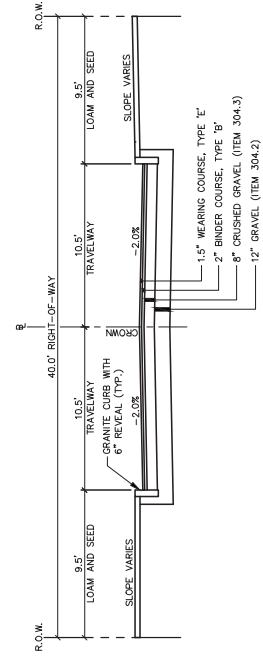
**CONCORD WAY
STA 56+00 TO STA 59+09**



**CONCORD WAY
STA 50+32 TO STA 56+00**



**PORPOISE WAY
STA 22+10 TO STA 27+94**



**PORPOISE WAY
STA 20+07 TO STA 21+86**

Drawing No. 2

Project: ATLANTIC HEIGHTS STREETScape IMPROVEMENTS
CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
Client: City of Portsmouth
1 Junkins Avenue, Portsmouth, NH 03802

Gorrill-Palmer Consulting Engineers, Inc.
Engineering Excellence Since 1998
PO Box 1237
15 Shaker Road
Gray, ME 04039
207-657-8910
FAC: 207-657-8912
E-Mail: mds@gpfirm.com

Design/RCN	Date: 08/12/2010	Date: 08/12/2010
Drawn: SP	Checked: NONE	Issue No: 2305
File Name: 2305_102.dwg	Plot Date: 08/12/2010	
This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. Any modifications, additions, deletions, or omissions, shall be at the user's sole risk and without liability to GPCEI.		

STATUS	DATE	BY
FINAL REVIEW	10/07/11	TLS
92% REVIEW	10/08/10	TLS
FINAL DRAFT PLAN REVIEW	9/03/10	TLS
92% REVIEW	8/25/10	TLS

Rev.	Date	Revision

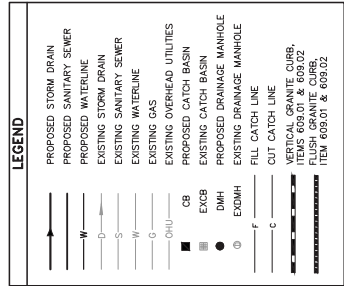
GENERAL NOTES

- THE CITY OF PORTSMOUTH SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIAL IN PROGRESS OR COMPLETED. THE CITY SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PORTSMOUTH AND NHDT STANDARD SPECIFICATIONS, CURRENT EDITIONS AND SPECIAL PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND UTILITIES SHALL COOPERATE WITH THE OWNER IN THE PERFORMANCE OF THE WORK.
- THE SUBGRADE SHALL BE SCAFFERED TO ASSURE THAT ALL BouldERS AND COBBLES OVER 6 INCHES ARE REMOVED WITHIN 36" INCHES OF FINISHED GRADE.
- DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR MUST USE THE ESTABLISHED MANHOLES AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS AS A MINIMUM. THIS WORK SHALL INCLUDE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND THE EROSION CONTROL MEASURES AFTER THE SLOPES ARE STABILIZED AND SUPPORTING VEGETATION.
- CONTRACTOR SHALL ANTICIPATE THAT BOUNDARIES WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEMARKING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEMARKING.
- CATCH BASINS, FRAME AND GRATES SHALL BE NHDT TYPE "B" ALTERNATE WITH 3"-FLANGE CASTINGS. FRAME AND GRATES FOR CATCH BASINS SHALL BE MANUFACTURED IN THE U.S.A. UNLESS OTHERWISE NOTED. ALL STORM DRAIN (SD) PIPE SHALL BE PLASTIC PIPE WITH SMOOTH INTERIOR, AND BE IN ACCORDANCE WITH NHDT SPECIFICATIONS.
- FLAT SPOT AREAS TO BE REMOVED AND RESET ARE DAMAGED DURING REMOVAL, STORAGE OR TRANSPORTATION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION TO THE SATISFACTION OF THE CITY OF PORTSMOUTH AT NO ADDITIONAL COST.
- VERTICAL GRANITE TERMINAL END SECTIONS (TOP DOWNS) SHALL BE USED AT THE LOCATIONS AT WHICH VERTICAL GRANITE CURB BEGINS OR ENDS.
- ALL DIMENSIONS AND OFFSETS ARE MEASURED TO THE CONSTRUCTION BASE LINE.
- ALL DISTURBED SLOPE AREAS SHALL BE LOAMED AND SEEDED WITH A MINIMUM OF 4" OF LOAM.
- DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL DISPOSAL PERMITS WHICH MAY BE REQUIRED.
- CONTRACTOR SHALL SUBMIT A PLAN TO CONTROL TRAFFIC DURING THE PERIOD OF CONSTRUCTION OF THE TRAFFIC IMPROVEMENTS TO THE CITY OF PORTSMOUTH FOR APPROVAL A MINIMUM OF ONE WEEK PRIOR TO CONSTRUCTION WHICH CONFORMS TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCING OF WORK AND SHALL PROVIDE PRIOR TO BEGINNING WORK WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE IMPROVEMENTS. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE EXISTING OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITIES AND MAY ALSO INCLUDE FURTHER APPROXIMATIONS OF THE ELEVATIONS (DEPTHS) BASED ON FIELD SURVEY DATA. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTHS OF ALL UTILITIES. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OF THE PROPOSED WORK WITH THE AFFECTED UTILITY COMPANIES TO ARRANGE FOR COORDINATED RELOCATION OF THEIR KNOWN FACILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND THE UTILITY RELOCATION WORK WITH THE PROPER UTILITY COMPANY.
- OFFSET TO CATCH BASIN AND MANHOLES ARE TO THE CENTER OF THE COVER OR GRADE.
- CONSTRUCTION SHALL BE COMPLETED BY JAMES VERBA & ASSOCIATES, INC. AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THOSE CONTROLS.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL AUTHORIZED BY THE CITY OF PORTSMOUTH.
- ALL ADA RAMPS SHALL BE CONSTRUCTED WITH CONCRETE WITH 4% MAX SLOPE. THICKENED CURB DETECTABLE WARNING SYSTEMS, BROWN RED IN COLOR MANUFACTURED BY ARMO-TILE THESE SHALL BE INSTALLED IN SIDEWALK RAMPS THAT CROSS A VEHICLE WAY EXCLUDING UNSIGNALIZED DRIVEWAYS.
- ALL SIDEWALKS SHALL BE CONSTRUCTED WITH 4" FIBER REINFORCED CONCRETE (ITEM 608.24) AND 8" CRUSHED GRAVEL (ITEM 304-3) UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, AND REPORT TO THE CITY OF PORTSMOUTH ANY DISCREPANCIES THAT ARE OBSERVED WITH THE WORK ONLY AFTER ANY DISCREPANCIES HAVE BEEN RESOLVED BY THE CITY.
- CURE SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SUBSTRATE AND SURFACES TO REMAIN. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS APPROVED BY THE CITY AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS WHICH ARE REQUIRED

- FOR THE SATISFACTORY COMPLETION OF THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR ALL DISSEMINATE NOTIFICATION REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN BARRICADES AT THE LIMITS OF ALL CLOSED SIDEWALKS, ROADWAYS, AND OPEN AREAS. THE LOCATION SHALL BE COORDINATED WITH THE CITY.
- THE CONTRACTOR SHALL COORDINATE ALL GAS UTILITY LOCATION AND ADJUSTMENT WORK WITH THE CITY OF PORTSMOUTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL GAS UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL GAS UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL GAS UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL GAS UTILITY.
- TOPSOIL SHALL BE REMOVED FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED. THE TOPSOIL SHALL BE STOCKPILED AND SCREENED AND USED IN ITS ENTIRETY UNDER SECTION 641-1.04M.
- UNSATURATED MATERIAL, ROOTS, STUMPS AND SOILS ASSOCIATED WITH TREE REMOVAL OR THE EXCAVATION OF A TREE SHALL BE STOCKPILED AND USED IN ITS ENTIRETY UNDER SECTION 201 TO SECTION 207.
- NO EXISTING SURVEY MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RESETTING.
- INITIAL SURVEY LAYOUT AND STAKING OF BENCHMARKS & CONSTRUCTION CENTERLINE AT 50 FOOT INTERVALS FOR CONSTRUCTION PURPOSES WILL BE ESTABLISHED BY THE CITY PRIOR TO THE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT OR MEANS/METHODS FOR CONSTRUCTION, ANY PRUNING WILL BE COMPLETED BY THE CITY. ANY DAMAGE TO THE EXISTING TREES BY CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. PRUNING WILL BE CONDUCTED UNDER THE DIRECTION OF THE CITY'S REPRESENTATIVE.
- TREES TO REMAIN WITHIN THE CONSTRUCTION ZONE SHALL BE PROTECTED FROM DAMAGE TO THE DURATION OF THE PROJECT BY SNOW FENCE OR OTHER SUITABLE MEANS OF PROTECTION TO BE LOCATED AT THE DROP LINE AT A MINIMUM AND SHALL INCLUDE ANY AND ALL SURFACE ROOTS. WHEN CONSTRUCTION NECESSitates EXCAVATION WITHIN THE DRUPLINE OF EXISTING TREES TO BE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES TO REMAIN.
- ALL MATERIAL REMOVED DURING THE COURSE OF THE WORK SHALL BE CLEANED OUT WITH CUPPERS OR SAW.
- CONTRACTOR SHALL TAKE EXTREME CARE WHEN EXCAVATING THE EXISTING LEDGE OUTCROPS. INTENT OF THE PROJECT IS TO MINIMIZE REMOVAL AS MUCH AS POSSIBLE. FOLLOWING INITIAL EXCAVATION TO THE LINE AND GRADE SHOWN ON THE CROSS SECTIONS, CONTRACTOR SHALL TAKE EXTREME CARE TO MAINTAIN THE STABILITY OF THE EXPOSED FACE. CONTRACTOR SHALL ARRANGE SCHEDULE OF OPERATIONS TO ALLOW UP TO THREE (3) WEEKS FOR EVALUATION AND ANY RECOMMENDATIONS FOR ADDITIONAL WORK.
- THE CONTRACTOR SHALL INSTALL AND PROPERLY MAINTAIN ALL APPROPRIATE CONSTRUCTION TRAFFIC CONTROL PROCEDURES, CONSIDERING NEIGHBORHOOD TRAFFIC PATTERNS, TO ENSURE THE SAFETY OF VEHICLES AND TO MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE PROPERTIES. REPRESENTATIVE TO PROVIDE A PLAN FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
- CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER PROJECT SPECIFICATIONS IN CONFORMANCE WITH NHDES AND EPA REGULATIONS. ALL EROSION CONTROL DETAILS SHALL COMPLY WITH NHDES BEST MANAGEMENT PRACTICES (BMP'S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE PROPERTIES. REPRESENTATIVE TO PROVIDE A PLAN FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
- THE EXISTING WATER MAIN SHALL BE REMOVED AFTER THE NEW MAIN OR TEMPORARY MAIN IS ACTIVE. THIS SHALL BE INCIDENTAL TO THE RESPECTIVE WATER MAIN ITEMS.
- ALL SEED SHALL BE INSTALLED USING HYDROSEED METHODS.

PROJECT UTILITY AND EMERGENCY CONTACTS

WATER - SEWER	PORTSMOUTH WATER DEPT.	MIKE JENKINS	(603) 427-1552
STORM DRAIN	PORTSMOUTH PUBLIC WORKS	TOM RICHTER	(603) 766-1412
GAS	UNILIT	JOE FITZPATRICK	(603) 608-6821
TELEPHONE	VERIZON	JOE CONSIDINE	(603) 427-1525
POWER	PSNH	JIM OSBOURNE	(603) 332-4227 EXT. 5342
CABLE TV	COMCAST CABLE	MARK COLLINS	(617) 279-6360
FIRE ALARM	PORTSMOUTH FIRE DEPT.	NON EMERGENCY NUMBER	(603) 427-1515
POLICE DEPARTMENT	TRAFFIC DETAILS	NON EMERGENCY NUMBER	(603) 427-1514



General Notes
 ATLANTIC HEIGHTS STREETScape IMPROVEMENTS
 CONCORD WAY & PORPSE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Jundkins Avenue, Portsmouth, NH 03802

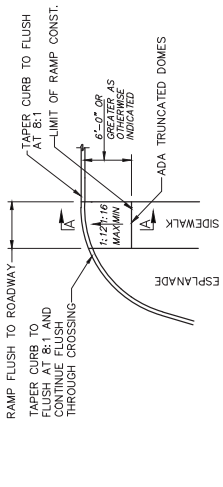
Gorrill-Palmer Consulting Engineers, Inc.
Engineering Excellence Since 1998
 207-657-6910
 15 Shaker Road
 E-Mail: msobow@gorrillpalmer.com
 Fax: 207-657-6910
 Grey, ME 04039

Design: RCH	Date: 08	Drawn: MWR 2010
Checked: SP	Scale: NONE	Job No: 2305
File Name: 2305_08.dwg		
This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. Any reproduction, unauthorized or otherwise, shall be at the user's sole risk and without liability to GPCEI.		

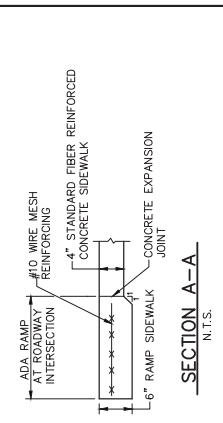
Revised	Date	By
02/07/11	TLS	
07/07/11	TLS	
10/08/10	TLS	
9/29/10	TLS	
6/29/10	TLS	
9/25/09	TLS	

Revised	Date	Revision

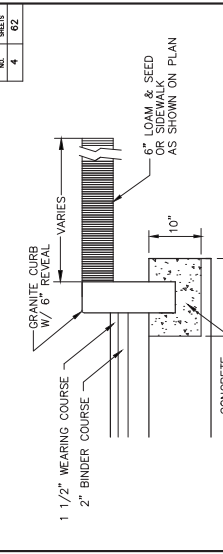
NET SHEETS	62
4	



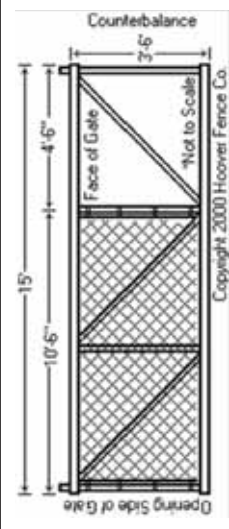
TYPICAL CORNER PEDESTRIAN RAMP AT ROADWAY INTERSECTIONS
N.T.S.



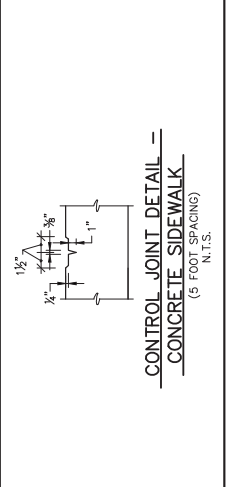
TYPICAL EXPANSION JOINT DETAIL - CONCRETE SIDEWALK
N.T.S.



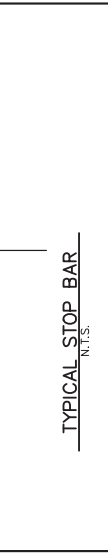
GRANITE CURB DETAIL
N.T.S.



4' HIGH X 10' WIDE CHAIN LINK CANTILEVER GATE
NOT TO SCALE



CONTROL JOINT DETAIL - CONCRETE SIDEWALK
N.T.S.



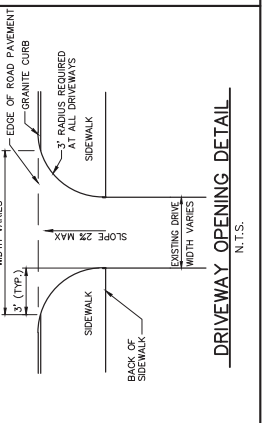
TYPICAL STOP BAR
N.T.S.



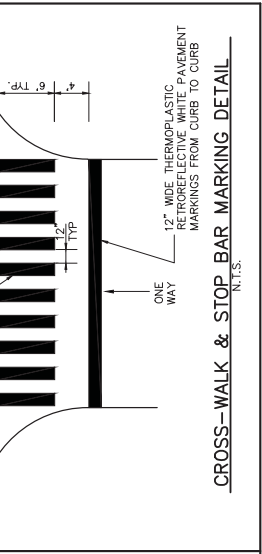
DRIVEWAY OPENING ELEVATION
N.T.S.



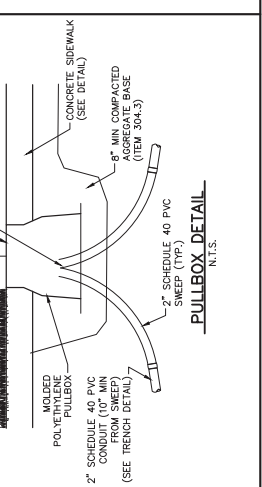
TYPICAL DRIVEWAY ENTRANCE / APRON ACROSS SIDEWALK
SCALE: 1/2" = 1'-0"



DRIVEWAY OPENING DETAIL
N.T.S.



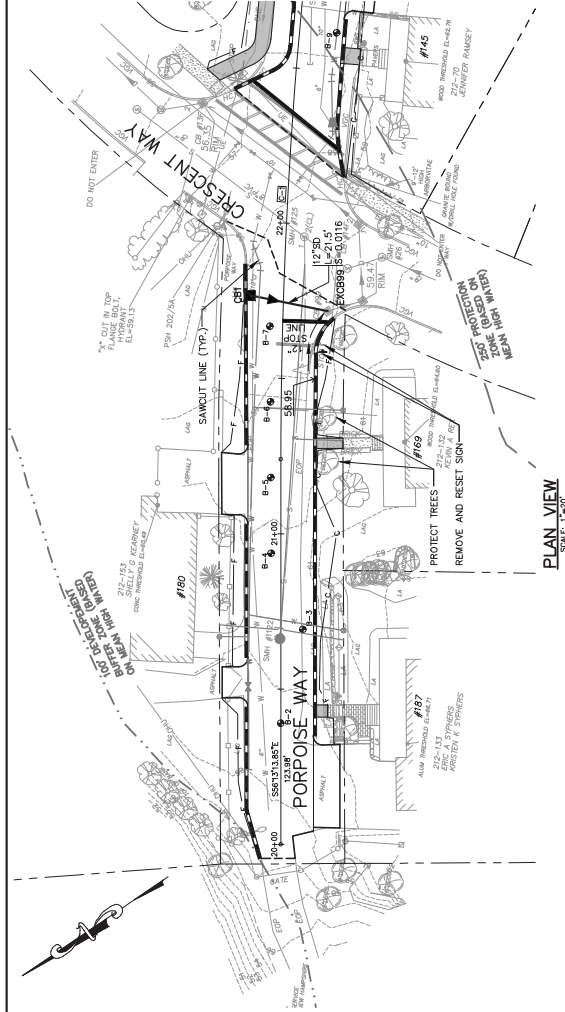
CROSS-WALK & STOP BAR MARKING DETAIL
N.T.S.



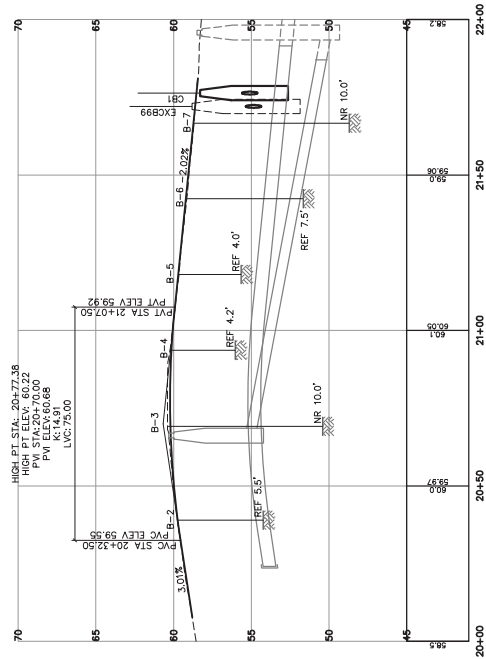
PULLBOX DETAIL
N.T.S.

Design/Rev	Date	By	Drawn	MR 2010
01/07/11	01/07/11	TLS	08	2305
02/07/11	02/07/11	TLS	08	2305
03/07/11	03/07/11	TLS	08	2305
04/07/11	04/07/11	TLS	08	2305
05/07/11	05/07/11	TLS	08	2305
06/07/11	06/07/11	TLS	08	2305
07/07/11	07/07/11	TLS	08	2305
08/07/11	08/07/11	TLS	08	2305
09/07/11	09/07/11	TLS	08	2305
10/07/11	10/07/11	TLS	08	2305
11/07/11	11/07/11	TLS	08	2305
12/07/11	12/07/11	TLS	08	2305
01/08/12	01/08/12	TLS	08	2305
02/08/12	02/08/12	TLS	08	2305
03/08/12	03/08/12	TLS	08	2305
04/08/12	04/08/12	TLS	08	2305
05/08/12	05/08/12	TLS	08	2305
06/08/12	06/08/12	TLS	08	2305
07/08/12	07/08/12	TLS	08	2305
08/08/12	08/08/12	TLS	08	2305
09/08/12	09/08/12	TLS	08	2305
10/08/12	10/08/12	TLS	08	2305
11/08/12	11/08/12	TLS	08	2305
12/08/12	12/08/12	TLS	08	2305
01/09/13	01/09/13	TLS	08	2305
02/09/13	02/09/13	TLS	08	2305
03/09/13	03/09/13	TLS	08	2305
04/09/13	04/09/13	TLS	08	2305
05/09/13	05/09/13	TLS	08	2305
06/09/13	06/09/13	TLS	08	2305
07/09/13	07/09/13	TLS	08	2305
08/09/13	08/09/13	TLS	08	2305
09/09/13	09/09/13	TLS	08	2305
10/09/13	10/09/13	TLS	08	2305
11/09/13	11/09/13	TLS	08	2305
12/09/13	12/09/13	TLS	08	2305
01/10/14	01/10/14	TLS	08	2305
02/10/14	02/10/14	TLS	08	2305
03/10/14	03/10/14	TLS	08	2305
04/10/14	04/10/14	TLS	08	2305
05/10/14	05/10/14	TLS	08	2305
06/10/14	06/10/14	TLS	08	2305
07/10/14	07/10/14	TLS	08	2305
08/10/14	08/10/14	TLS	08	2305
09/10/14	09/10/14	TLS	08	2305
10/10/14	10/10/14	TLS	08	2305
11/10/14	11/10/14	TLS	08	2305
12/10/14	12/10/14	TLS	08	2305
01/11/15	01/11/15	TLS	08	2305
02/11/15	02/11/15	TLS	08	2305
03/11/15	03/11/15	TLS	08	2305
04/11/15	04/11/15	TLS	08	2305
05/11/15	05/11/15	TLS	08	2305
06/11/15	06/11/15	TLS	08	2305
07/11/15	07/11/15	TLS	08	2305
08/11/15	08/11/15	TLS	08	2305
09/11/15	09/11/15	TLS	08	2305
10/11/15	10/11/15	TLS	08	2305
11/11/15	11/11/15	TLS	08	2305
12/11/15	12/11/15	TLS	08	2305
01/12/16	01/12/16	TLS	08	2305
02/12/16	02/12/16	TLS	08	2305
03/12/16	03/12/16	TLS	08	2305
04/12/16	04/12/16	TLS	08	2305
05/12/16	05/12/16	TLS	08	2305
06/12/16	06/12/16	TLS	08	2305
07/12/16	07/12/16	TLS	08	2305
08/12/16	08/12/16	TLS	08	2305
09/12/16	09/12/16	TLS	08	2305
10/12/16	10/12/16	TLS	08	2305
11/12/16	11/12/16	TLS	08	2305
12/12/16	12/12/16	TLS	08	2305
01/13/17	01/13/17	TLS	08	2305
02/13/17	02/13/17	TLS	08	2305
03/13/17	03/13/17	TLS	08	2305
04/13/17	04/13/17	TLS	08	2305
05/13/17	05/13/17	TLS	08	2305
06/13/17	06/13/17	TLS	08	2305
07/13/17	07/13/17	TLS	08	2305
08/13/17	08/13/17	TLS	08	2305
09/13/17	09/13/17	TLS	08	2305
10/13/17	10/13/17	TLS	08	2305
11/13/17	11/13/17	TLS	08	2305
12/13/17	12/13/17	TLS	08	2305
01/14/18	01/14/18	TLS	08	2305
02/14/18	02/14/18	TLS	08	2305
03/14/18	03/14/18	TLS	08	2305
04/14/18	04/14/18	TLS	08	2305
05/14/18	05/14/18	TLS	08	2305
06/14/18	06/14/18	TLS	08	2305
07/14/18	07/14/18	TLS	08	2305
08/14/18	08/14/18	TLS	08	2305
09/14/18	09/14/18	TLS	08	2305
10/14/18	10/14/18	TLS	08	2305
11/14/18	11/14/18	TLS	08	2305
12/14/18	12/14/18	TLS	08	2305
01/15/19	01/15/19	TLS	08	2305
02/15/19	02/15/19	TLS	08	2305
03/15/19	03/15/19	TLS	08	2305
04/15/19	04/15/19	TLS	08	2305
05/15/19	05/15/19	TLS	08	2305
06/15/19	06/15/19	TLS	08	2305
07/15/19	07/15/19	TLS	08	2305
08/15/19	08/15/19	TLS	08	2305
09/15/19	09/15/19	TLS	08	2305
10/15/19	10/15/19	TLS	08	2305
11/15/19	11/15/19	TLS	08	2305
12/15/19	12/15/19	TLS	08	2305
01/16/20	01/16/20	TLS	08	2305
02/16/20	02/16/20	TLS	08	2305
03/16/20	03/16/20	TLS	08	2305
04/16/20	04/16/20	TLS	08	2305
05/16/20	05/16/20	TLS	08	2305
06/16/20	06/16/20	TLS	08	2305
07/16/20	07/16/20	TLS	08	2305
08/16/20	08/16/20	TLS	08	2305
09/16/20	09/16/20	TLS	08	2305
10/16/20	10/16/20	TLS	08	2305
11/16/20	11/16/20	TLS	08	2305
12/16/20	12/16/20	TLS	08	2305
01/17/21	01/17/21	TLS	08	2305
02/17/21	02/17/21	TLS	08	2305
03/17/21	03/17/21	TLS	08	2305
04/17/21	04/17/21	TLS	08	2305
05/17/21	05/17/21	TLS	08	2305
06/17/21	06/17/21	TLS	08	2305
07/17/21	07/17/21	TLS	08	2305
08/17/21	08/17/21	TLS	08	2305
09/17/21	09/17/21	TLS	08	2305
10/17/21	10/17/21	TLS	08	2305
11/17/21	11/17/21	TLS	08	2305
12/17/21	12/17/21	TLS	08	2305
01/18/22	01/18/22	TLS	08	2305
02/18/22	02/18/22	TLS	08	2305
03/18/22	03/18/22	TLS	08	2305
04/18/22	04/18/22	TLS	08	2305
05/18/22	05/18/22	TLS	08	2305
06/18/22	06/18/22	TLS	08	2305
07/18/22	07/18/22	TLS	08	2305
08/18/22	08/18/22	TLS	08	2305
09/18/22	09/18/22	TLS	08	2305
10/18/22	10/18/22	TLS	08	2305
11/18/22	11/18/22	TLS	08	2305
12/18/22	12/18/22	TLS	08	2305
01/19/23	01/19/23	TLS	08	2305
02/19/23	02/19/23	TLS	08	2305
03/19/23	03/19/23	TLS	08	2305
04/19/23	04/19/23	TLS	08	2305
05/19/23	05/19/23	TLS	08	2305
06/19/23	06/19/23	TLS	08	2305
07/19/23	07/19/23	TLS	08	2305
08/19/23	08/19/23	TLS	08	2305
09/19/23	09/19/23	TLS	08	2305
10/19/23	10/19/23	TLS	08	2305
11/19/23	11/19/23	TLS	08	2305
12/19/23	12/19/23	TLS	08	2305
01/20/24	01/20/24	TLS	08	2305
02/20/24	02/20/24	TLS	08	2305
03/20/24	03/20/24	TLS	08	2305
04/20/24	04/20/24	TLS	08	2305
05/20/24	05/20/24	TLS	08	2305
06/20/24	06/20/24	TLS	08	2305
07/20/24	07/20/24	TLS	08	2305
08/20/24	08/20/24	TLS	08	2305
09/20/24	09/20/24	TLS	08	2305
10/20/24	10/20/24	TLS	08	2305
11/20/24	11/20/24	TLS	08	2305
12/20/24	12/20/24	TLS	08	2305
01/21/25	01/21/25	TLS	08	2305
02/21/25	02/21/25	TLS	08	2305
03/21/25	03/21/25	TLS	08	2305
04/21/25	04/21/25	TLS	08	2305
05/21/25	05/21/25	TLS	08	2305
06/21/25	06/21/25	TLS	08	2305
07/21/25	07/21/25	TLS	08	2305
08/21/25	08/21/25	TLS	08	2305
09/21/25	09			

CURVE NO.	LENGTH	RADIUS	TANGENT	DELTA	CHORD BEARING	START STATION	END STATION
C-1	153.90	1570.00	77.70	17°44'52"	S84°42'46"E	21+33.98	24+77.88



PLAN VIEW
SCALE: 1"=20'



PROFILE
SCALE: 1"=4' VERT.

STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET
CB1	4"ø	55.26	-	54.60/12'(EXCB99)	21+76.36, 10.70' LT
*EXCB99	EX	55.80	54.35/12'(CB1)	(EXISTING)	21+72.1, 14.4' RT

*CORE EXISTING STRUCTURE

Drawing No. **7**

Geometrics Plan & Profile - Porpoise Way - Block 1
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

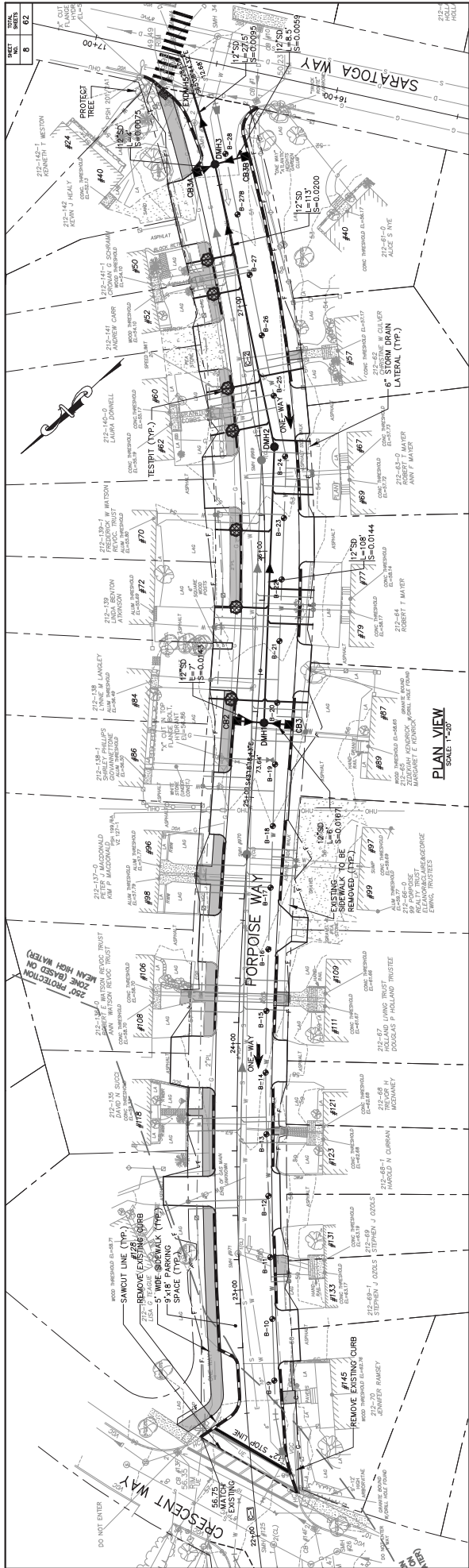
GP Gorrill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 PO Box 1237
 15 Shaker Road
 Gray, ME 04039
 207-657-8910
 FAX: 207-657-8912
 E-Mail: mshoeb@gorrillpalmer.com

Design/RCN	Date: 08/11	Drawn: SP	Date: MAR 2010
By: MSH	Scale: 1"=20'	Check: MSH	Job No.: 2385

This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. Any unauthorized modification, reproduction, or other use, shall be at the user's sole risk and without liability to GPCEI.

REVISION	DATE	BY
9/25/11	TLS	
10/07/11	TLS	
10/08/10	TLS	
9/03/10	TLS	
6/29/10	TLS	

Rev.	Date	Revision



BASELINE CURVE TABLE

CURVE NO.	LENGTH	RADIUS	TANGENT	DELTA	CHORD BEARING	START STATION	END STATION
C-1	353.90	1570.00	177.70	125°54'50"	S89°45'46"E	21+23.88	24+77.28
C-2	240.15	830.00	21.05	21°50'26"	S84°13'31"E	25+51.53	27+91.67

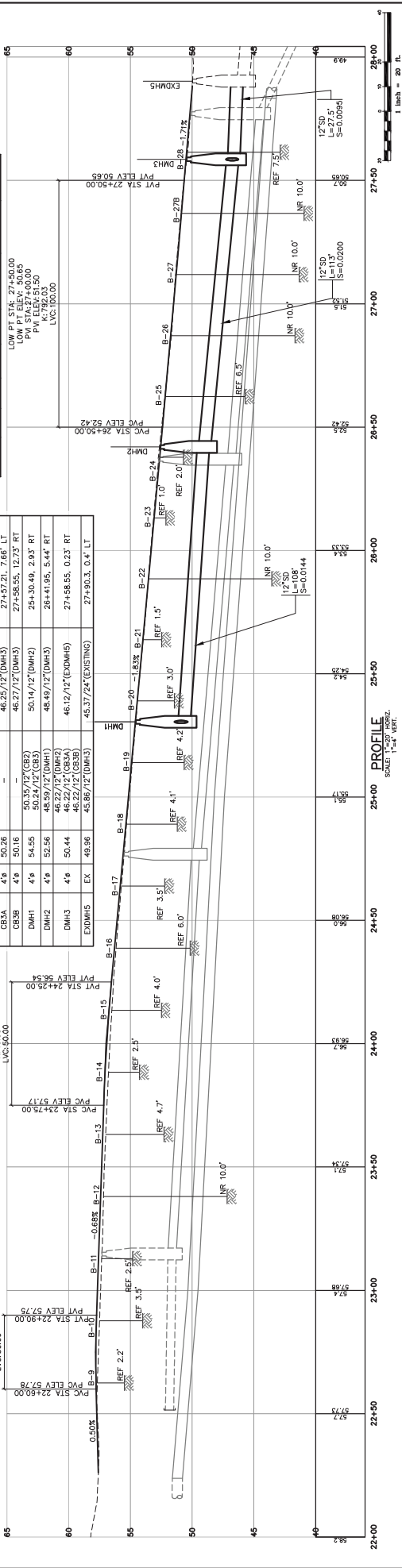
LOW PT STA: 27+50.00
 LOW PT ELEV: 50.65
 PVI STA: 27+50.00
 PVI ELEV: 51.50
 K: 782.03
 LVC: 100.00

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE	SIZE	RM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET
CB2	48	54.45	50.45/12'(DMH1)	25+30.49, 8.00' LT	
CB3	48	54.35	50.34/12'(DMH1)	25+30.49, 13.00' RT	
CB3A	48	50.26	46.25/12'(DMH3)	27+57.21, 7.66' LT	
CB3B	48	50.16	46.27/12'(DMH3)	27+58.55, 12.73' RT	
DMH1	48	54.55	50.14/12'(DMH2)	25+30.49, 2.93' RT	
DMH2	48	52.56	48.59/12'(DMH2)	25+30.49, 5.44' RT	
DMH3	48	50.44	46.22/12'(DMH2)	25+41.95, 5.44' RT	
DMH3	48	50.44	46.22/12'(DMH2)	27+58.55, 0.23' RT	
EXDMHS	EX.	49.96	45.86/12'(DMH3)	45.37/24'(EXISTING)	27+90.3, 0.4' LT

DRAINAGE STRUCTURE SCHEDULE (continued)

DMH	48	50.44	45.86/12'(DMH3)	45.37/24'(EXISTING)	27+90.3, 0.4' LT
B-16					
B-17					
B-18					
B-19					
B-20					
B-21					
B-22					
B-23					
B-24					
B-25					
B-26					
B-27					
B-28					
B-29					
B-30					



Geometrics Plan & Profile - Porpoise Way - Block 2

ATLANTIC HEIGHTS STREETScape IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Junkenis Avenue, Portsmouth, NH 03802

Client: _____

Design/RCN: _____ Date: 09/11/11 Date Mkr: 2010
 Drawn: SP
 Title: 230
 Job No.: 2305

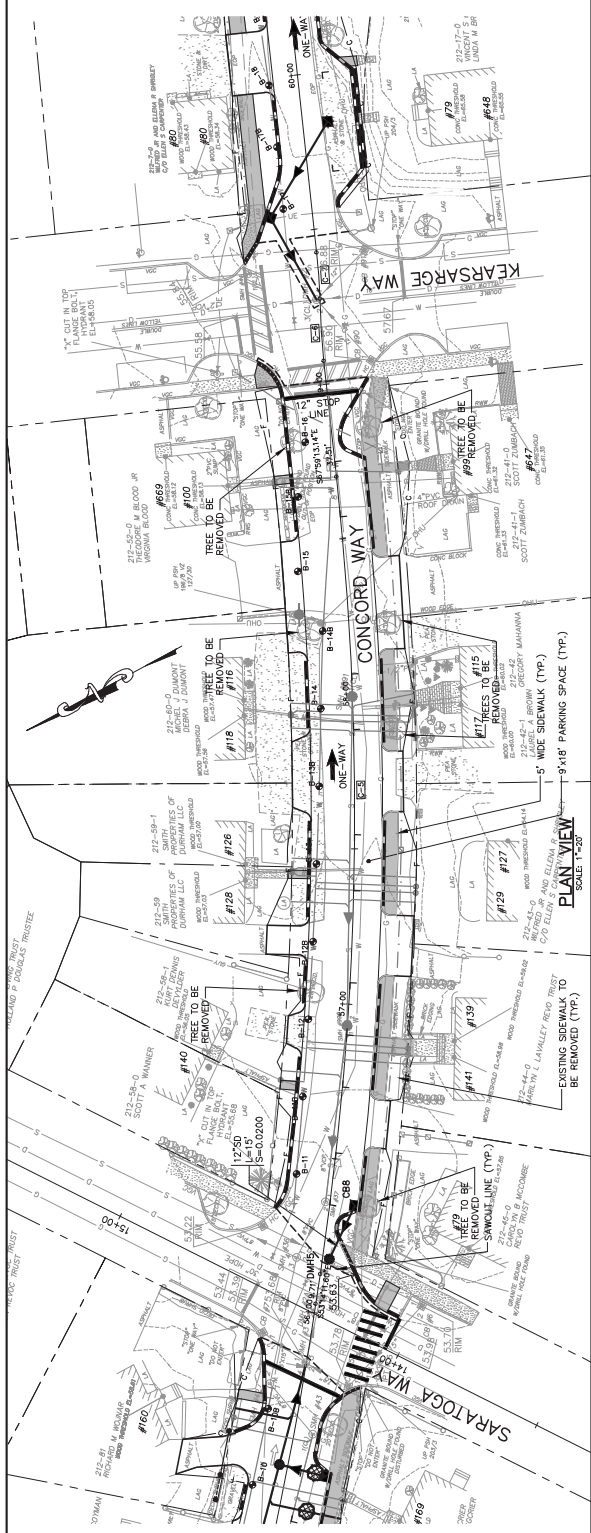
Revised: _____
 07/07/11 TIG
 10/08/10 TIG
 9/03/10 TIG
 6/29/10 TIG
 9/23/09 TIG

This plan shall not be modified without written permission from Geometrics - Palmer Consulting. Any unauthorized use, reproduction, or alteration of this plan is prohibited. The user assumes all liability for any errors or omissions, and the user's use of this plan is at their own risk and without liability to GPCI.

Issued For: _____ Date: _____ By: _____

Rev. Date Revision

Drawing No. **8**

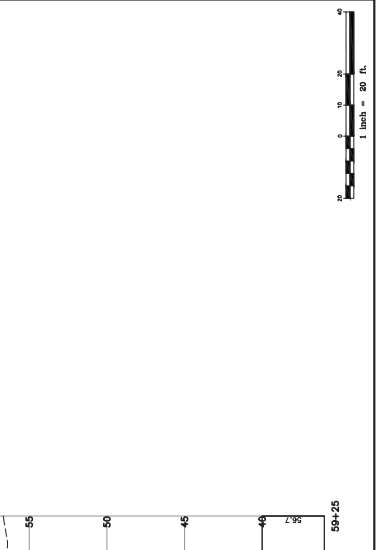


DRAINAGE STRUCTURE SCHEDULE

STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET
CB8	4'φ	53.60	49.19/12'(C&B)	49.50/12'(D&H)	56+35.62, 8.00' RT
D&H5	4'φ	53.63	47.35/12'(C&B)	47.33/12'(EXCB)	56+17.62, 2.19' RT

BASELINE CURVE TABLE

CURVE NO.	LENGTH	RADIUS	ANGENT	DELTA	CHORD BEARING	START STATION	END STATION
C-5	237.44	1000.00	129.44	144.902°	S60°04'42"	56+12.56	56+70.01
C-6	20.05	222.81	10.03	5.9292°	S85°7'57"	56+07.51	56+27.56
C-7	14.87	200.00	7.48	4.721°	S85°50'33"	56+27.56	56+42.53



PROFILE
SOUL: 1" = 10' VERT.

Scale: 1" = 20' HORIZ.

Drawing No. **10**

Geometrics Plan & Profile - Concord Way - Block 2
 ATLANTIC HEIGHTS STREETScape IMPROVEMENTS
 CONCORD WAY & PORPSE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Jundkins Avenue, Portsmouth, NH 03802

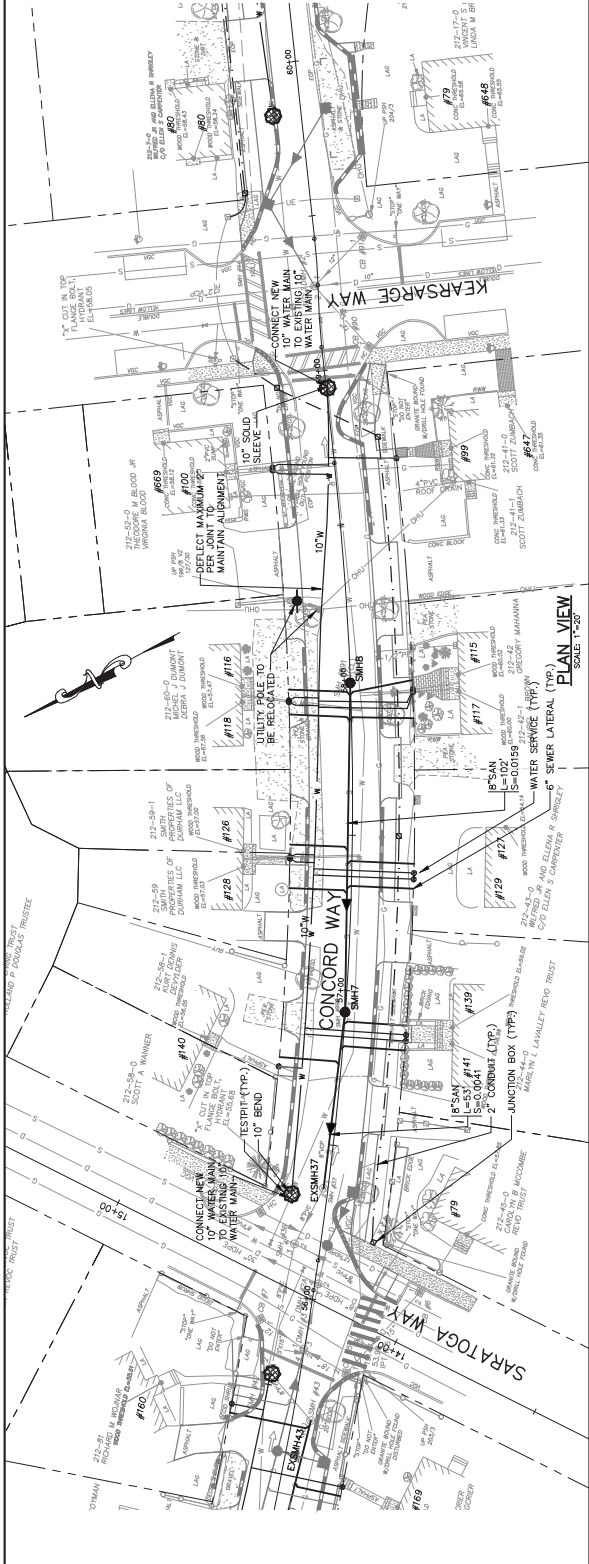
GP Gorrill-Palmer Consulting Engineers, Inc.
 207-657-6910
 PO Box 1237
 Engineering Excellence Since 1998
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mshoemaker@gorrillpalmer.com

Design: RGN Date: 09/11/11
 Drawn: SP Date: 09/11/11
 Title: 2843_250.dwg
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. Any unauthorized modification shall be at the user's sole risk and without liability to GPCEI.

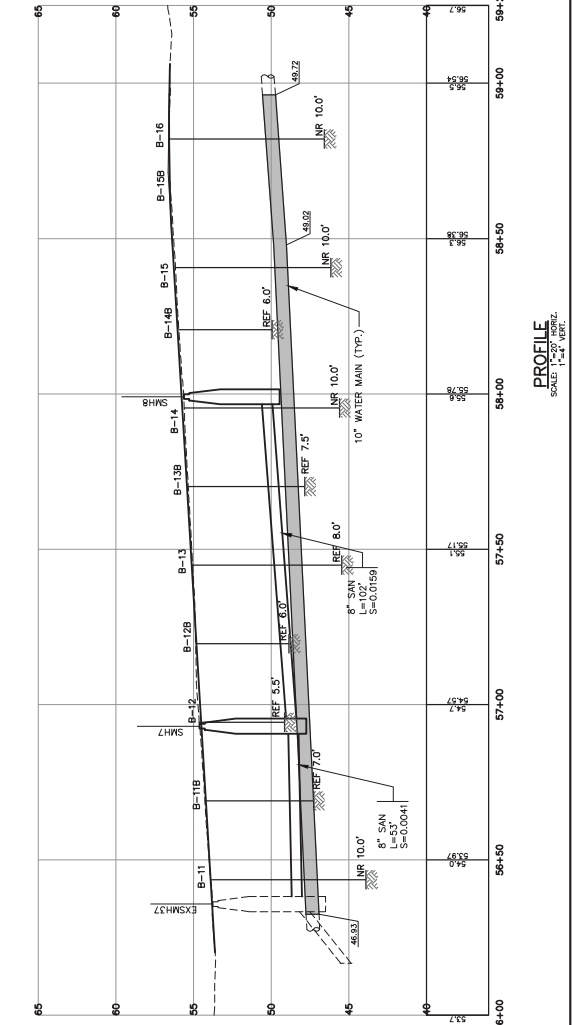
REV.	DATE	BY	ISSUED FOR
01	07/11	TLS	
02	07/11	TLS	
03	08/10	TLS	
04	09/10	TLS	
05	09/10	TLS	
06	09/10	TLS	

Rev.	Date	Revision

NO.	15	62
-----	----	----



STRUCTURE	SIZE	RIM	INV. IN./SIZE (FROM)	INV. OUT./SIZE (TO)	STATION/OFFSET	COMMENTS
EXSMH37	EX	53.83	48.00/8"(SMH7)	EXISTING	56+35.8, 1.5' LT	RECONSTRUCT TO GRADE
SMH7	4.9	54.62	48.34/8"(SMH8)	48.24/8"(EXSMH37)	56+93.05, 0.09' LT	
SMH8	4.9	55.63	—	48.96/8"(SMH7)	57+99.08, 0.09' LT	



Drawing No. **15**

Utilities Plan & Profile — Concord Way — Block 2

ATLANTIC HEIGHTS STREETScape IMPROVEMENTS

CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH

City of Portsmouth

1 Junkins Avenue, Portsmouth, NH 03802

Gorrill-Palmer Consulting Engineers, Inc.

Engineering Excellence Since 1998

207-657-8910

207-657-8912

15 Shaker Road

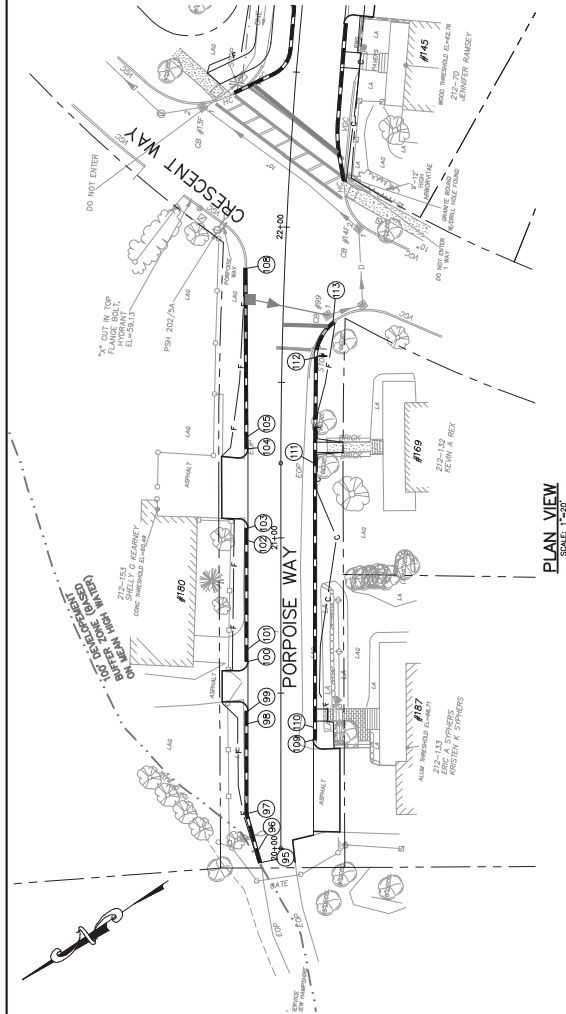
Greenville, ME 04039

E-Mail: mrobson@gorrillpalmer.com

DESIGNER	DATE	DATE	DATE
SMH7	8/25/10	8/25/10	8/25/10
SMH8	8/25/10	8/25/10	8/25/10
SMH9	8/25/10	8/25/10	8/25/10

DESIGNER	DATE	DATE	DATE
SMH7	8/25/10	8/25/10	8/25/10
SMH8	8/25/10	8/25/10	8/25/10
SMH9	8/25/10	8/25/10	8/25/10

REVISION	DATE	BY



PLAN VIEW
SCALE 1"=20'

CURBING ABBREVIATIONS

VC	- VERTICAL GRANITE CURB
FL	- FLUSH GRANITE CURB
TC	- TYPING CURB (CURB SECTIONS TAPERING TO ZERO HEIGHT AT PEDESTRIAN RAMPS AND DRIVEWAYS)

CURB LAYOUT TABLE

PT	STATION/OFFSET FROM	PT	STATION/OFFSET TO	LENGTH	RADIUS	CURB TYPE	COMMENTS
95	19+95.52, 6.19' LT	96	19+98.38, 7.25' LT	4.00	-	TC	
96	19+99.38, 7.25' LT	97	20+11.27, 10.50' LT	12.33	-	VC	
97	20+11.27, 10.50' LT	98	20+40.17, 10.50' LT	28.91	-	VC	
98	20+40.17, 10.50' LT	99	20+44.17, 10.50' LT	4.00	-	TC	
100	20+40.17, 10.50' LT	101	20+64.17, 10.50' LT	4.00	-	TC	
101	20+64.17, 10.50' LT	102	20+99.07, 10.50' LT	34.89	-	VC	
102	20+99.07, 10.50' LT	103	21+03.07, 10.50' LT	4.00	-	TC	
104	21+28.64, 10.51' LT	105	21+32.61, 10.56' LT	4.00	-	TC	
105	21+32.61, 10.56' LT	108	21+86.24, 12.13' LT	54.04	-	VC	
109	20+34.97, 10.50' RT	110	20+38.97, 10.50' RT	4.00	-	TC	
110	20+38.97, 10.50' RT	111	21+24.05, 10.50' RT	85.08	-	VC	
111	21+24.05, 10.50' RT	112	21+58.18, 10.50' RT	33.90	1559.50	VC	
112	21+58.18, 10.50' RT	113	21+70.08, 16.17' RT	13.55	15.00	VC	



Drawing No. **17**

Curbing Layout Plan — Porpoise Way — Block 1

Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH

Client: City of Portsmouth
1 Junkins Avenue, Portsmouth, NH 03802

GP Gorrill-Palmer Consulting Engineers, Inc.
Engineering Excellence Since 1998

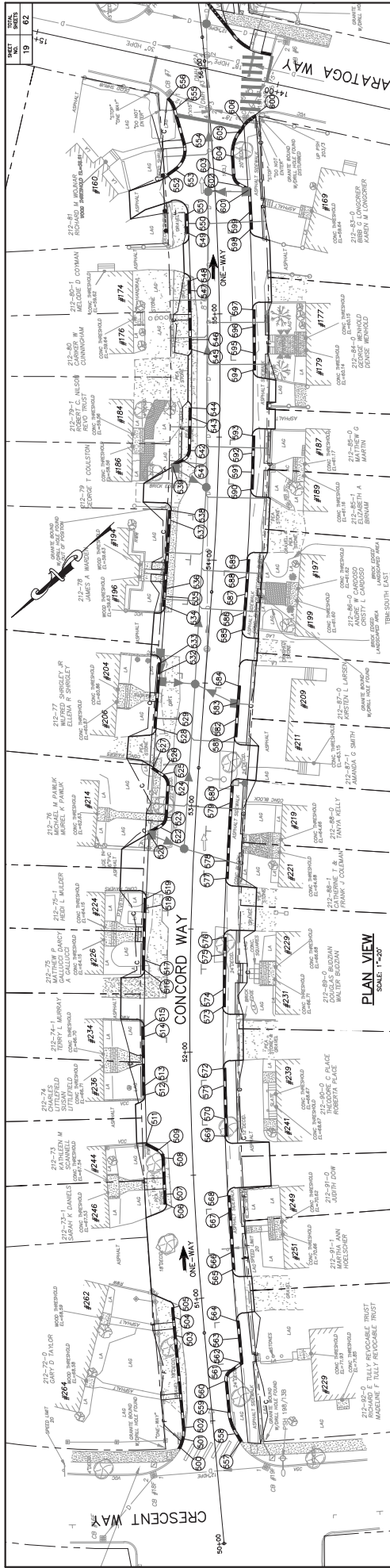
PO Box 1237
15 Shaker Road
Gorham, ME 04039

207-657-8910
FAC: 207-657-8912
E-Mail: mds@gpengineers.com

Design: RCN Date: 09/20/11 Date: MAR 2010
 By: NAME, ADDRESS, PHONE NO. JOB NO. 2305
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. Any unauthorized modification, reproduction, or otherwise, shall be at the user's sole risk and without liability to GPCEI.

Rev.	Date	Revision

Rev.	Date	Revision



PLAN VIEW
SCALE: 1"=30'

CURB LAYOUT TABLE

PT	STATION/OFFSET FROM	RADIUS	CURB TYPE	COMMENTS	
500	50+40.20, 13.50' LT	500	TC		
501	50+43.80, 12.21' LT	4.00	TC		
502	50+43.80, 12.21' LT	4.64	15.00	VC	
503	50+48.37, 11.50' LT	3.74	VC		
504	50+53.21, 11.50' LT	7.44	1391.50	VC	
505	50+59.21, 11.50' LT	4.00	TC		
506	51+38.83, 11.50' LT	4.00	1391.50	TC	
507	51+42.90, 11.50' LT	14.80	1391.50	VC	
508	51+57.57, 11.50' LT	4.18	4.00	VC	
509	51+61.00, 13.49' LT	5.80	TC		
510	51+63.88, 18.50' LT	5.80	TC		
511	51+86.91, 18.50' LT	4.00	1398.50	TC	
512	51+86.91, 18.50' LT	19.73	1398.50	VC	
513	51+86.91, 18.50' LT	4.00	1398.50	TC	
514	52+06.38, 18.50' LT	4.00	1398.50	TC	
515	52+10.33, 18.50' LT	21.12	1398.50	VC	
516	52+33.07, 18.50' LT	4.00	1398.50	TC	
517	52+37.02, 18.50' LT	4.00	1398.50	TC	
518	52+57.86, 18.50' LT	4.00	1398.50	TC	
519	52+61.80, 18.50' LT	5.25	TC		
520	52+87.86, 18.49' LT	5.25	TC		
521	52+90.46, 13.97' LT	5.19	5.00	VC	
522	52+90.46, 13.97' LT	12.95	1391.50	VC	
523	52+94.73, 11.50' LT	5.21	5.00	VC	
524	53+07.57, 11.50' LT	1.22	VC		
525	53+11.84, 13.98' LT	4.00	TC		
526	53+12.45, 15.04' LT	4.00	TC		
527	53+14.43, 18.50' LT	4.00	TC		
528	53+30.21, 18.50' LT	4.00	TC		
529	53+34.21, 18.50' LT	18.61	VC		
530	53+52.82, 18.50' LT	4.00	TC		
531	53+52.82, 18.50' LT	4.00	TC		
532	53+52.82, 18.50' LT	4.00	TC		
533	53+56.82, 18.50' LT	4.00	TC		
534	53+79.85, 18.50' LT	3.24	VC		
535	53+83.85, 18.50' LT	27.73	1226.50	VC	
536	53+87.09, 18.50' LT	4.00	1226.50	VC	
537	54+15.24, 18.50' LT	4.00	1226.50	VC	
538	54+19.30, 18.50' LT	4.00	1226.50	VC	
539	54+19.30, 18.50' LT	6.04	14.50	FL	

CURB LAYOUT TABLE

PT	STATION/OFFSET FROM	RADIUS	CURB TYPE	COMMENTS	
539	54+37.37, 18.50' LT	5.14	TC		
540	54+39.95, 14.03' LT	5.14	TC		
541	54+39.95, 14.03' LT	5.22	5.00	VC	
542	54+44.35, 11.50' LT	13.22	1233.50	VC	
543	54+47.70, 11.50' LT	4.00	1233.50	TC	
544	54+61.73, 11.50' LT	4.00	1233.50	TC	
545	54+85.73, 11.50' LT	4.00	1233.50	TC	
546	54+89.77, 11.50' LT	19.86	1233.50	VC	
547	55+09.81, 11.50' LT	4.00	1233.50	TC	
548	55+13.85, 11.50' LT	4.00	1233.50	TC	
549	55+33.23, 11.50' LT	4.00	1233.50	TC	
550	55+37.27, 11.50' LT	4.00	1233.50	TC	
551	55+41.30, 11.50' LT	4.00	1233.50	TC	
552	55+57.21, 18.59' LT	4.00	TC		
553	55+59.39, 15.21' LT	12.14	10.00	VC	
554	55+70.00, 10.74' LT	14.70	VC		
555	55+84.56, 13.58' LT	4.28	10.00	VC	
556	55+89.31, 15.79' LT	4.28	10.00	VC	
557	50+40.41, 10.32' RT	4.00	TC		
558	50+44.01, 8.56' RT	9.15	20.00	VC	
559	50+52.84, 6.50' RT	12.79	VC		
560	50+56.63, 6.50' RT	5.25	5.00	VC	
561	50+65.63, 6.50' RT	5.11	VC		
562	50+69.97, 9.01' RT	9.93	VC		
563	50+72.50, 13.50' RT	5.11	VC		
564	50+82.44, 13.50' RT	7.00	TC		
565	50+88.47, 13.50' RT	7.00	1366.50	TC	
566	51+10.62, 13.50' RT	16.13	1366.50	VC	
567	51+17.69, 13.50' RT	7.00	1366.50	TC	
568	51+33.98, 13.50' RT	7.00	1366.50	TC	
569	51+41.05, 13.50' RT	7.00	1366.50	TC	
570	51+72.46, 13.50' RT	7.00	1366.50	TC	
571	51+86.16, 13.50' RT	15.56	1366.50	VC	
572	51+93.23, 13.50' RT	7.00	1366.50	TC	
573	52+18.42, 13.50' RT	14.24	1366.50	VC	
574	52+25.49, 13.50' RT	7.00	1366.50	TC	
575	52+38.86, 13.50' RT	7.00	1366.50	TC	
576	52+46.93, 13.50' RT	7.00	1366.50	TC	
577	52+39.86, 13.50' RT	7.00	1366.50	TC	

CURB LAYOUT TABLE

PT	STATION/OFFSET FROM	RADIUS	CURB TYPE	COMMENTS		
577	52+71.77, 13.50' RT	578	52+78.23, 13.50' RT	7.00	1366.50	TC
578	52+78.23, 13.50' RT	579	53+01.99, 13.50' RT	23.52	1366.50	VC
579	53+01.99, 13.50' RT	580	53+09.06, 13.50' RT	7.00	1366.50	TC
580	53+13.50, 13.50' RT	581	53+16.13, 13.50' RT	7.00	1366.50	TC
581	53+29.13, 13.50' RT	582	53+36.13, 13.50' RT	7.00	1366.50	TC
582	53+36.13, 13.50' RT	583	53+42.83, 13.50' RT	6.70	1366.50	TC
583	53+42.83, 13.50' RT	584	53+46.83, 13.50' RT	7.00	1366.50	TC
584	53+46.83, 13.50' RT	585	53+49.49, 13.50' RT	7.00	1366.50	TC
585	53+49.49, 13.50' RT	586	53+54.20, 13.50' RT	7.18	1366.50	VC
586	53+54.20, 13.50' RT	587	54+01.13, 13.50' RT	7.00	1366.50	TC
587	54+01.13, 13.50' RT	588	54+04.79, 13.50' RT	7.00	1366.50	TC
588	54+04.79, 13.50' RT	589	54+08.45, 13.50' RT	7.00	1366.50	TC
589	54+08.45, 13.50' RT	590	54+12.11, 13.50' RT	7.00	1366.50	TC
590	54+12.11, 13.50' RT	591	54+15.77, 13.50' RT	7.00	1366.50	TC
591	54+15.77, 13.50' RT	592	54+19.43, 13.50' RT	7.00	1366.50	TC
592	54+19.43, 13.50' RT	593	54+23.09, 13.50' RT	7.00	1366.50	TC
593	54+23.09, 13.50' RT	594	54+26.75, 13.50' RT	7.00	1366.50	TC
594	54+26.75, 13.50' RT	595	54+30.41, 13.50' RT	7.00	1366.50	TC
595	54+30.41, 13.50' RT	596	54+34.07, 13.50' RT	7.00	1366.50	TC
596	54+34.07, 13.50' RT	597	54+37.73, 13.50' RT	7.00	1366.50	TC
597	54+37.73, 13.50' RT	598	54+41.39, 13.50' RT	7.00	1366.50	TC
598	54+41.39, 13.50' RT	599	54+45.05, 13.50' RT	7.00	1366.50	TC
599	54+45.05, 13.50' RT	600	54+48.71, 13.50' RT	7.00	1366.50	TC
600	54+48.71, 13.50' RT	601	54+52.37, 13.50' RT	7.00	1366.50	TC
601	54+52.37, 13.50' RT	602	54+56.03, 13.50' RT	7.00	1366.50	TC
602	54+56.03, 13.50' RT	603	54+59.69, 13.50' RT	7.00	1366.50	TC
603	54+59.69, 13.50' RT	604	54+63.35, 13.50' RT	7.00	1366.50	TC
604	54+63.35, 13.50' RT	605	54+67.01, 13.50' RT	7.00	1366.50	TC
605	54+67.01, 13.50' RT	606	54+70.67, 13.50' RT	7.00	1366.50	TC
606	54+70.67, 13.50' RT	607	54+74.33, 13.50' RT	7.00	1366.50	TC
607	54+74.33, 13.50' RT	608	54+77.99, 13.50' RT	7.00	1366.50	TC
608	54+77.99, 13.50' RT	609	54+81.65, 13.50' RT	7.00	1366.50	TC
609	54+81.65, 13.50' RT	610	54+85.31, 13.50' RT	7.00	1366.50	TC
610	54+85.31, 13.50' RT	611	54+88.97, 13.50' RT	7.00	1366.50	TC
611	54+88.97, 13.50' RT	612	54+92.63, 13.50' RT	7.00	1366.50	TC
612	54+92.63, 13.50' RT	613	54+96.29, 13.50' RT	7.00	1366.50	TC
613	54+96.29, 13.50' RT	614	54+99.95, 13.50' RT	7.00	1366.50	TC
614	54+99.95, 13.50' RT	615	55+03.61, 13.50' RT	7.00	1366.50	TC
615	55+03.61, 13.50' RT	616	55+07.27, 13.50' RT	7.00	1366.50	TC
616	55+07.27, 13.50' RT	617	55+10.93, 13.50' RT	7.00	1366.50	TC
617	55+10.93, 13.50' RT	618	55+14.59, 13.50' RT	7.00	1366.50	TC
618	55+14.59, 13.50' RT	619	55+18.25, 13.50' RT	7.00	1366.50	TC
619	55+18.25, 13.50' RT	620	55+21.91, 13.50' RT	7.00	1366.50	TC
620	55+21.91, 13.50' RT	621	55+25.57, 13.50' RT	7.00	1366.50	TC
621	55+25.57, 13.50' RT	622	55+29.23, 13.50' RT	7.00	1366.50	TC
622	55+29.23, 13.50' RT	623	55+32.89, 13.50' RT	7.00	1366.50	TC
623	55+32.89, 13.50' RT	624	55+36.55, 13.50' RT	7.00	1366.50	TC
624	55+36.55, 13.50' RT	625	55+40.21, 13.50' RT	7.00	1366.50	TC
625	55+40.21, 13.50' RT	626	55+43.87, 13.50' RT	7.00	1366.50	TC
626	55+43.87, 13.50' RT	627	55+47.53, 13.50' RT	7.00	1366.50	TC
627	55+47.53, 13.50' RT	628	55+51.19, 13.50' RT	7.00	1366.50	TC
628	55+51.19, 13.50' RT	629	55+54.85, 13.50' RT	7.00	1366.50	TC
629	55+54.85, 13.50' RT	630	55+58.51, 13.50' RT	7.00	1366.50	TC
630	55+58.51, 13.50' RT	631	55+62.17, 13.50' RT	7.00	1366.50	TC
631	55+62.17, 13.50' RT	632	55+65.83, 13.50' RT	7.00	1366.50	TC
632	55+65.83, 13.50' RT	633	55+69.49, 13.50' RT	7.00	1366.50	TC
633	55+69.49, 13.50' RT	634	55+73.15, 13.50' RT	7.00	1366.50	TC
634	55+73.15, 13.50' RT	635	55+76.81, 13.50' RT	7.00	1366.50	TC
635	55+76.81, 13.50' RT	636	55+80.47, 13.50' RT	7.00	1366.50	TC
636	55+80.47, 13.50' RT	637	55+84.13, 13.50' RT	7.00	1366.50	TC
637	55+84.13, 13.50' RT	638	55+87.79, 13.50' RT	7.00	1366.50	TC
638	55+87.79, 13.50' RT	639	55+91.45, 13.50' RT	7.00	1366.50	TC
639	55+91.45, 13.50' RT	640	55+95.11, 13.50' RT	7.00	1366.50	TC
640	55+95.11, 13.50' RT	641	55+98.77, 13.50' RT	7.00	1366.50	TC
641	55+98.77, 13.50' RT	642	56+02.43, 13.50' RT	7.00	1366.50	TC
642	56+02.43, 13.50' RT	643	56+06.09, 13.50' RT	7.00	1366.50	TC
643	56+06.09, 13.50' RT	644	56+09.75, 13.50' RT	7.00	1366.50	TC
644	56+09.75, 13.50' RT	645	56+13.41, 13.50' RT	7.00	1366.50	TC
645	56+13.41, 13.50' RT	646	56+17.07, 13.50' RT	7.00	1366.50	TC
646	56+17.07, 13.50' RT	647	56+20.73, 13.50' RT	7.00	1366.50	TC
647	56+20.73, 13.50' RT	648	56+24.39, 13.50' RT	7.00	1366.50	TC
648	56+24.39, 13.50' RT	649	56+28.05, 13.50' RT	7.00	1366.50	TC
649	56+28.05, 13.50' RT	650	56+31.71, 13.50' RT	7.00	1366.50	TC
650	56+31.71, 13.50' RT	651	56+35.37, 13.50' RT	7.00	1366.50	TC
651	56+35.37, 13.50' RT	652	56+39.03, 13.50' RT	7.00	1366.50	TC
652	56+39.03, 13.50' RT	653	56+42.69, 13.50' RT	7.00	1366.50	

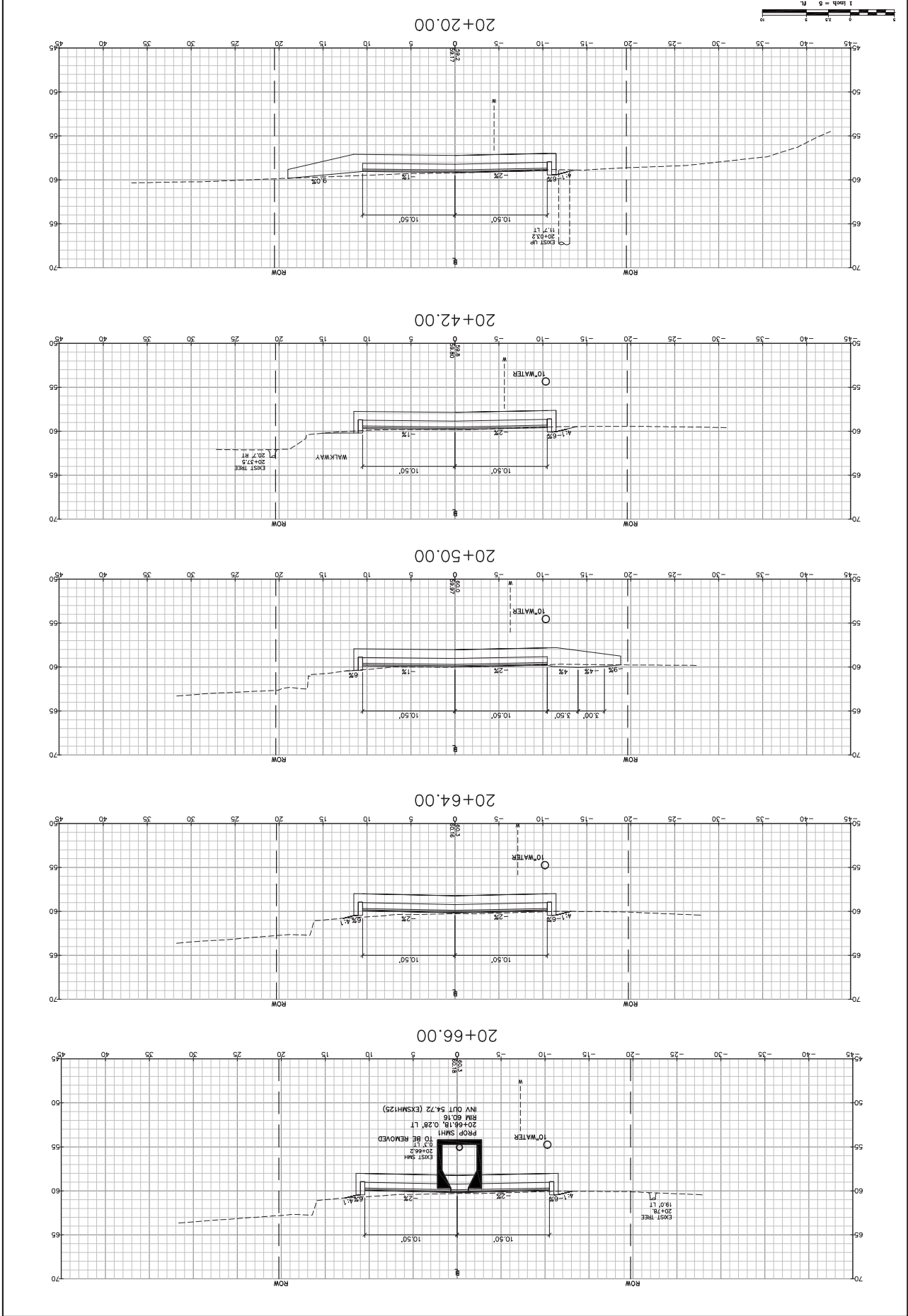
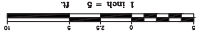
Drawing No. 22

Drawing Name:

City of Portsmouth
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

GP
 Engineering Excellence Since 1998
 Gorjill-Palmer Consulting Engineers, Inc.
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobo@gorjillpalmer.com
 207-657-6910
 Fax: 207-657-6912
 Engineers, Inc. (GPEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPEI.

Design: RJB
 Check: TLO
 Scale: 1"=50'
 Job No.: 2165
 Date: MAY 2010

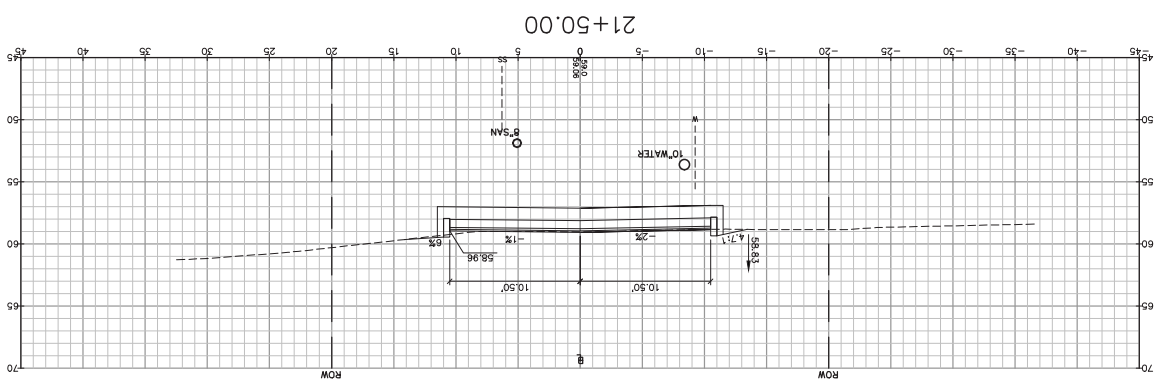
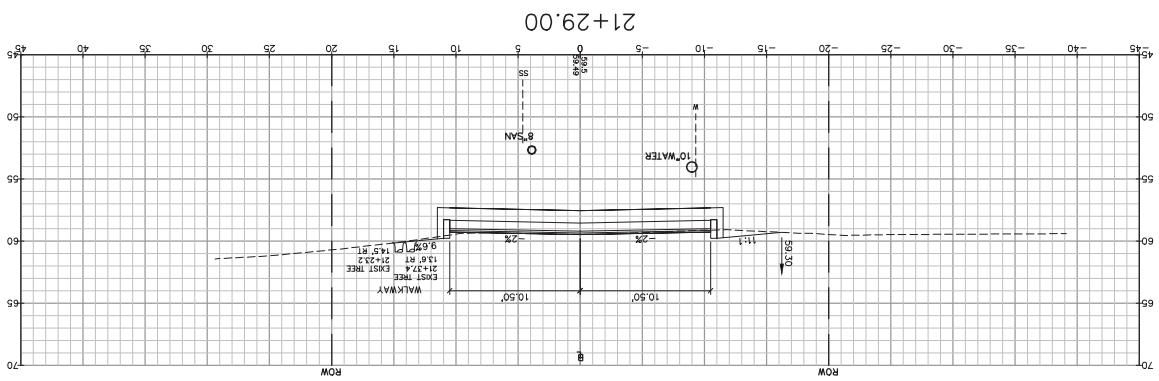
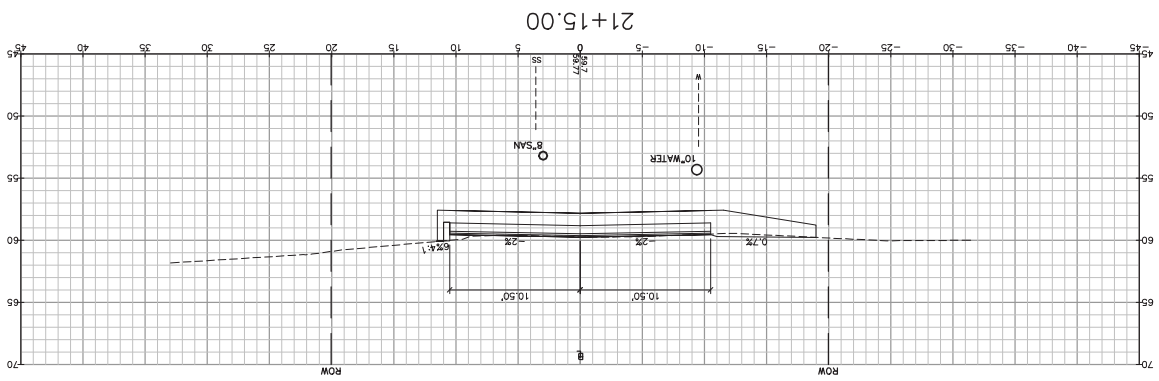
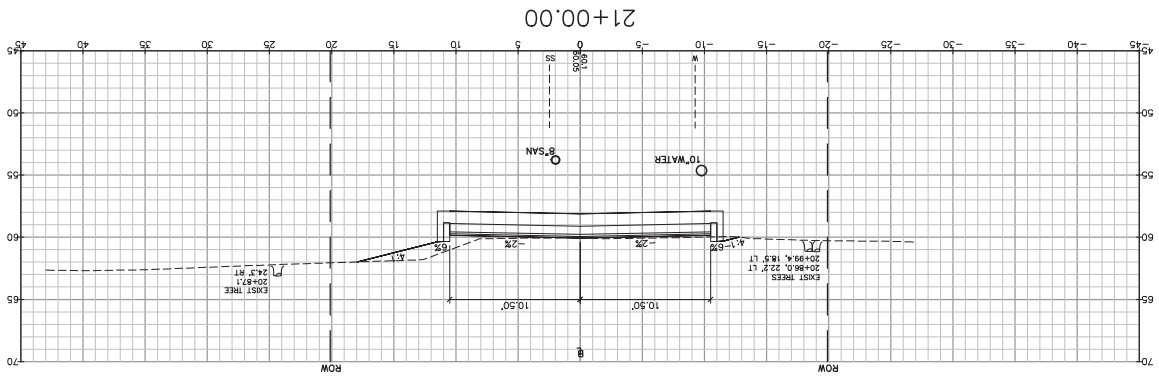
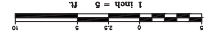


Drawing No. 23

Drawing Name: Cross Sections - Porpoise Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorjill-Palmer Consulting Engineers, Inc.
 P.O. Box 1237
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mlobow@gorjillpalmer.com
 Fax: 207-657-6912
 Phone: 207-657-6910

This plan shall not be modified without written permission from Gorjill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCEI.
 Design: RJB
 Check: TLO
 Scale: 1"=50'
 Job No.: 2365
 Date: MAY 2010

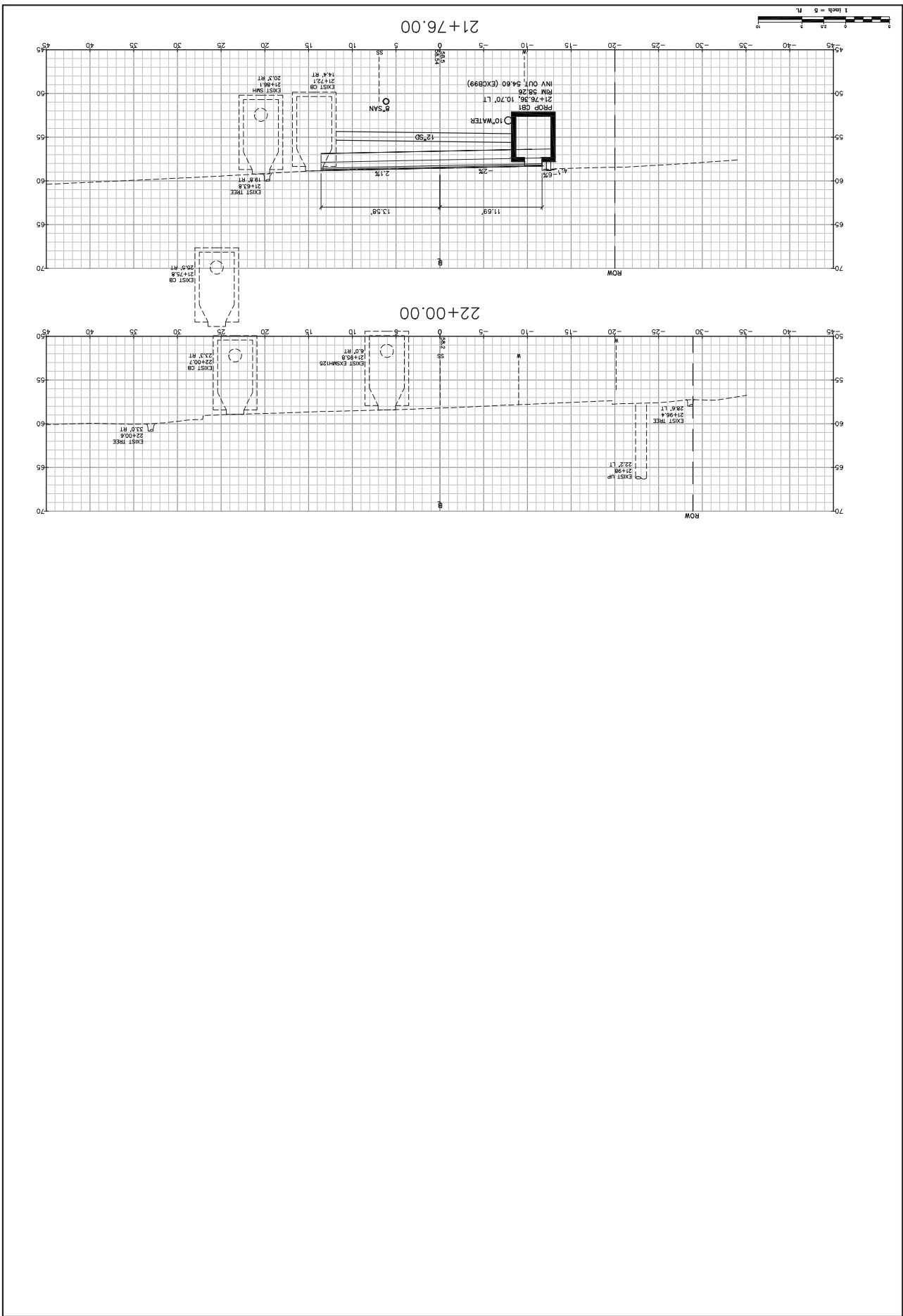


Drawing No. 24

City of Portsmouth
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-437-6910
 Fax: 603-437-6912
 E-Mail: mrobson@gorillpalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No.: 2365
 Scale: 1"=50'
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCEI.

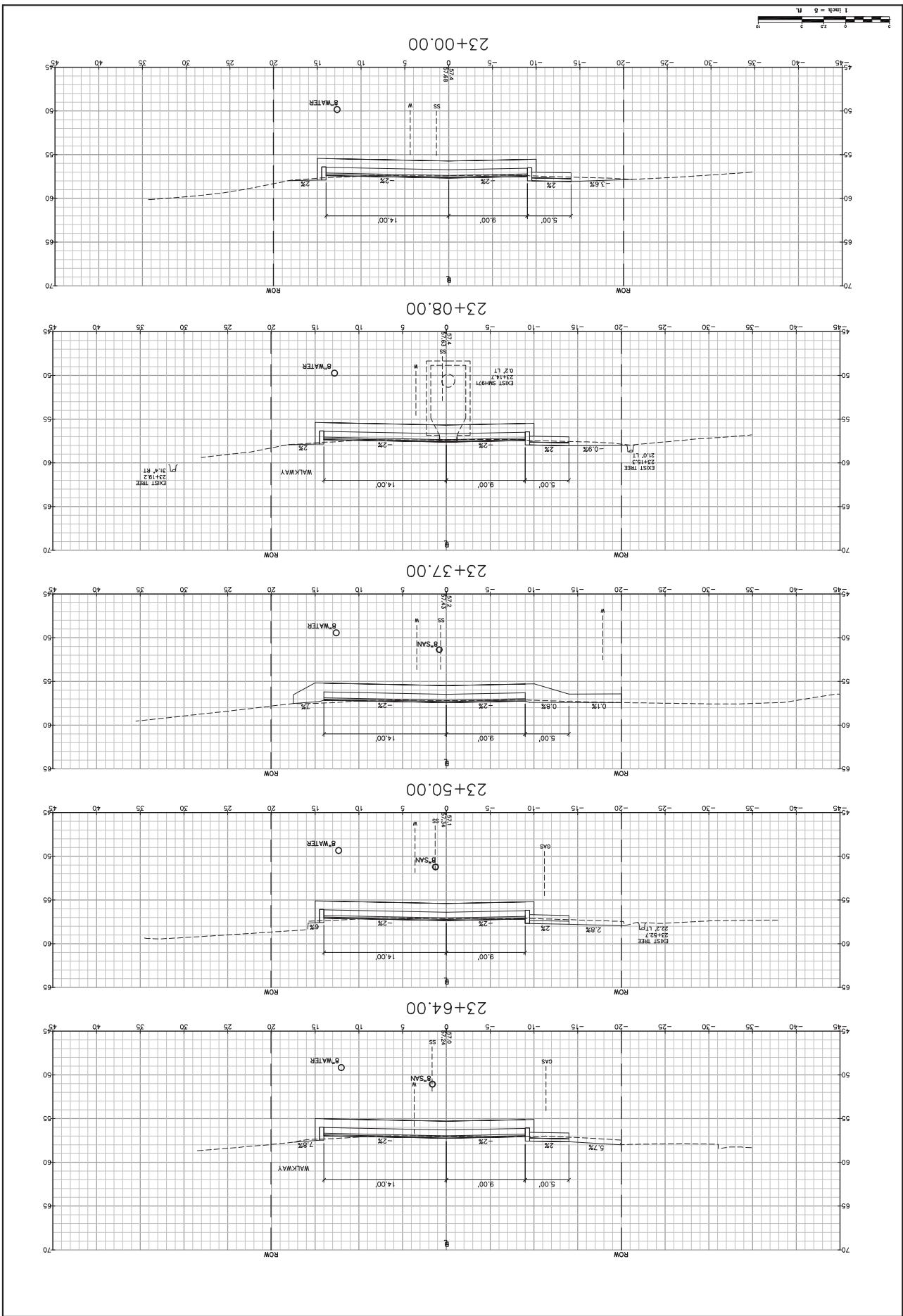
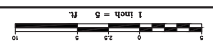


Drawing No. 26

Drawing Name: Cross Sections - Porpoise Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Client: City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 207-657-6910
 Fax: 207-657-6912
 E-Mail: mobdox@gorillapalmer.com

Design: RJB
 Check: TLD
 Scale: 1"=5'
 Job No: 2369
 Date: MAY 2010
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc.
 GPE and without liability to GPE.

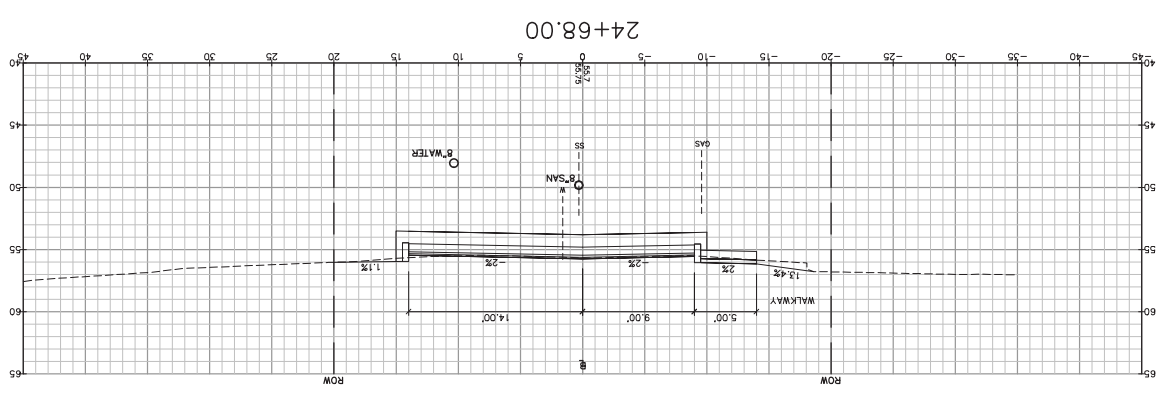
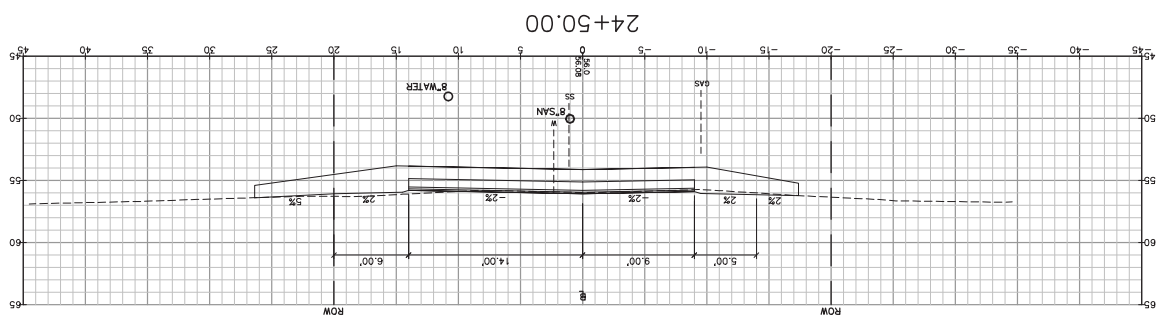
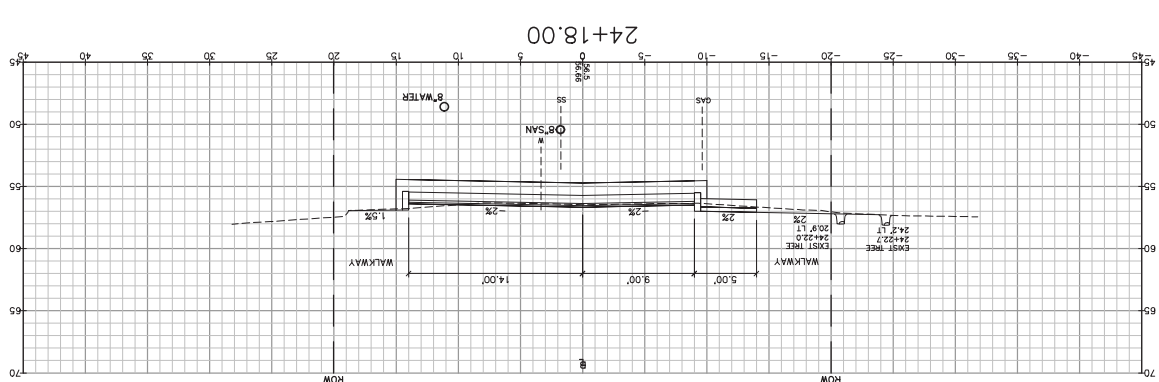
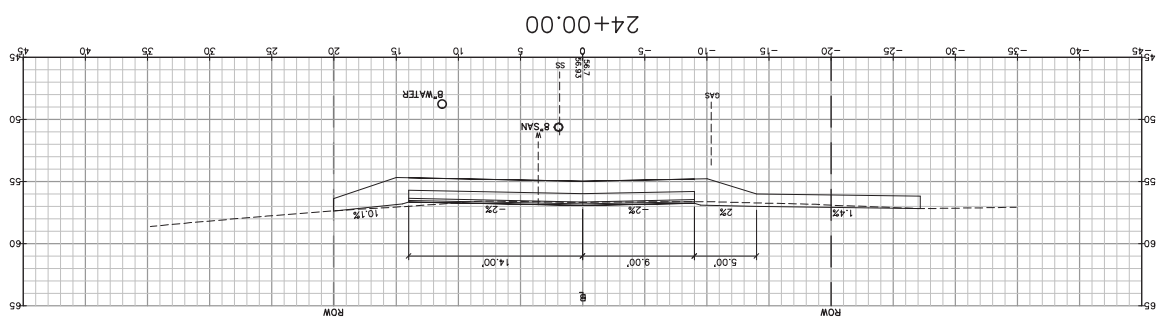
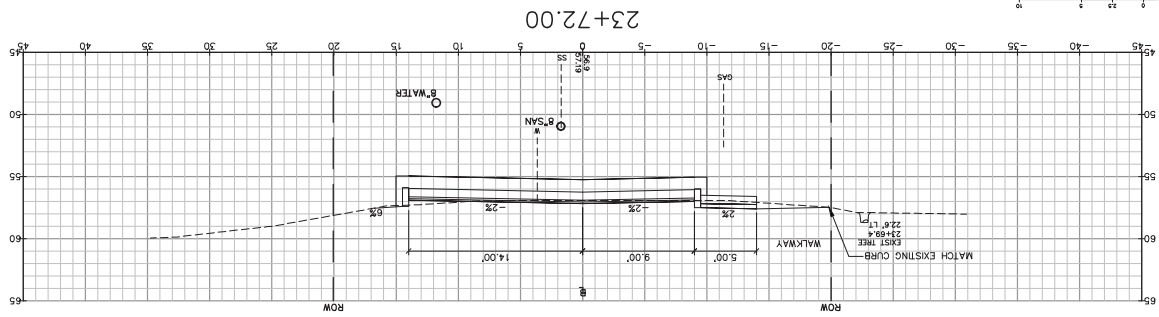
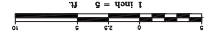


Drawing No. 22

Drawing Name: Cross Sections - Porpoise Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering
 Gorill-Palmer Consulting Engineers, Inc.
 207-657-6910
 15 Shaker Road
 Portsmouth, NH 03802
 E-Mail: mroblox@gorillpalmer.com

Design: RJB
 Check: TLD
 Scale: 1"=5'
 Job No: 2365
 Date: MAY 2010
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCE.

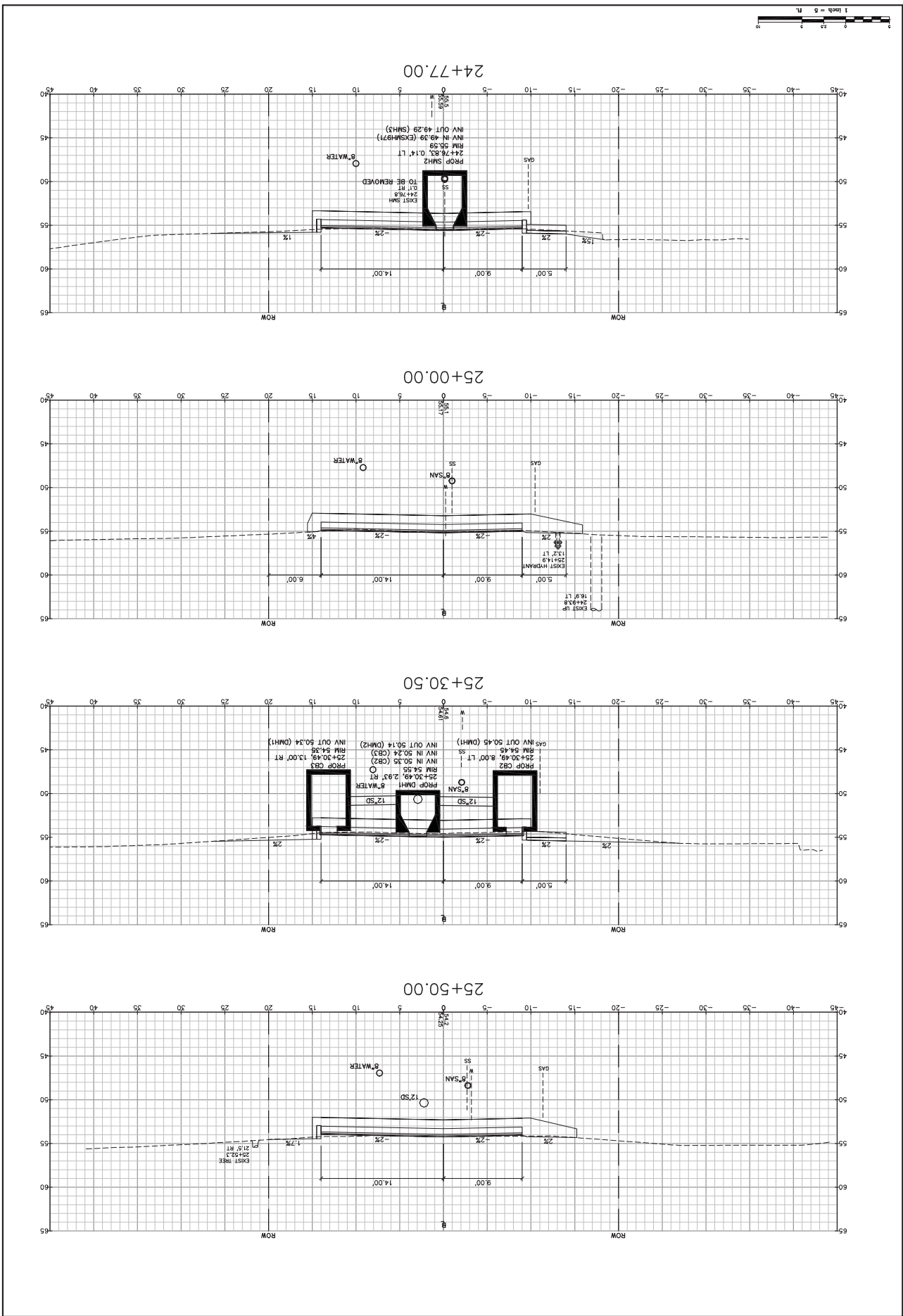
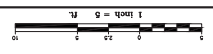


82
Drawing No.

City of Portsmouth
Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
Cross Sections - Porpoise Way

GP
Engineering Excellence Since 1998
Gorriall-Palmer Consulting Engineers, Inc.
207-657-6910
207-657-6912
E-Mail: mlobow@gorriallpalmer.com
15 Shaker Road
Portsmouth, NH 03802
PO Box 1277
Gray, ME 04039

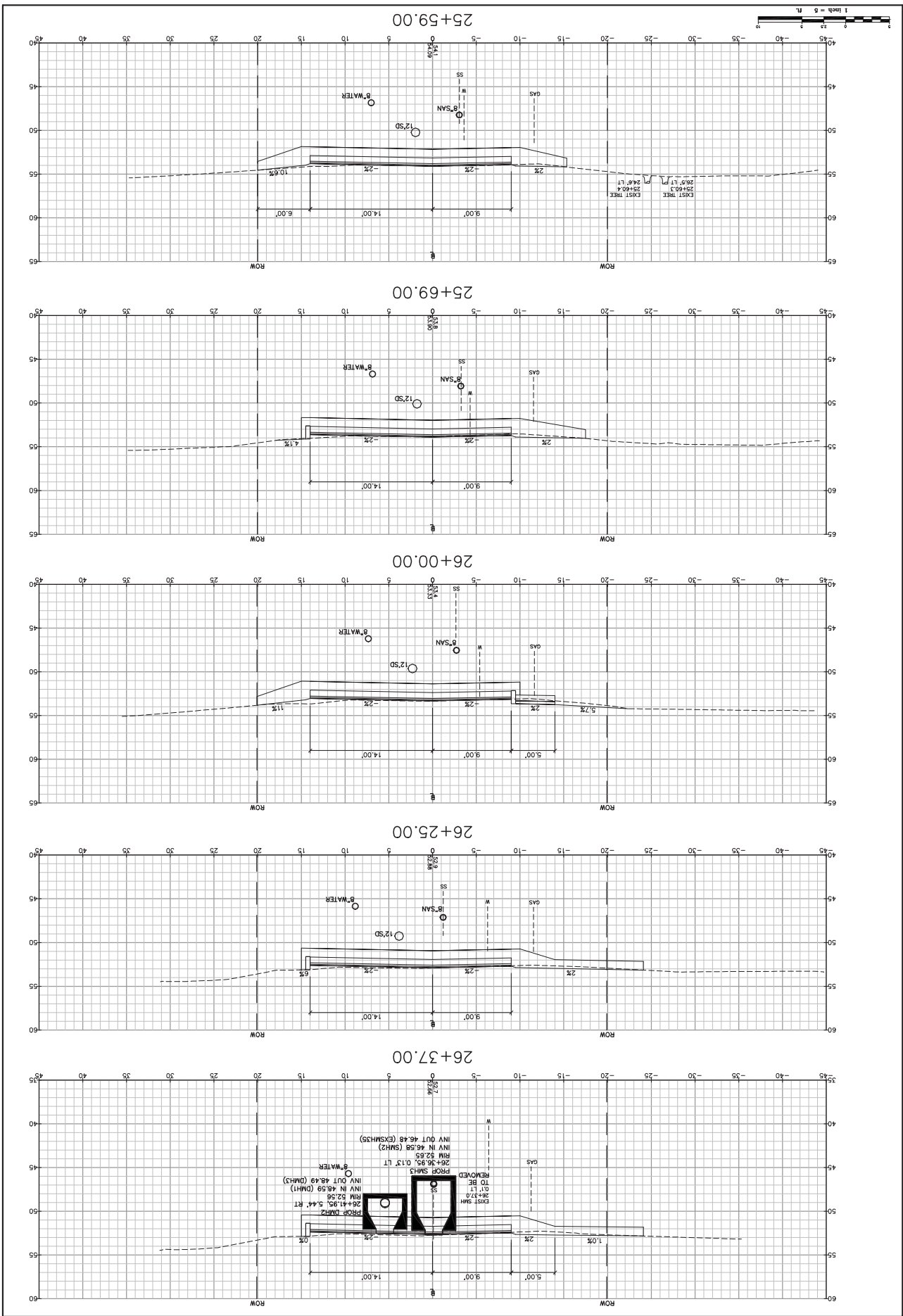
Design: RJB
Check: TLD
Scale: 1"=5'
Job No: 2369
Date: MAY 2010
This plan shall not be modified without written permission from Gorriall-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCE.



City of Portsmouth
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 1 Junken Avenue, Portsmouth, NH 03802

GP
 Engineering Excellence Since 1998
 Gorrill-Palmer Consulting Engineers, Inc.
 207-657-6910
 207-657-6912
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mrob@gorrillpalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2769
 Scale: 1"=5'
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCE.

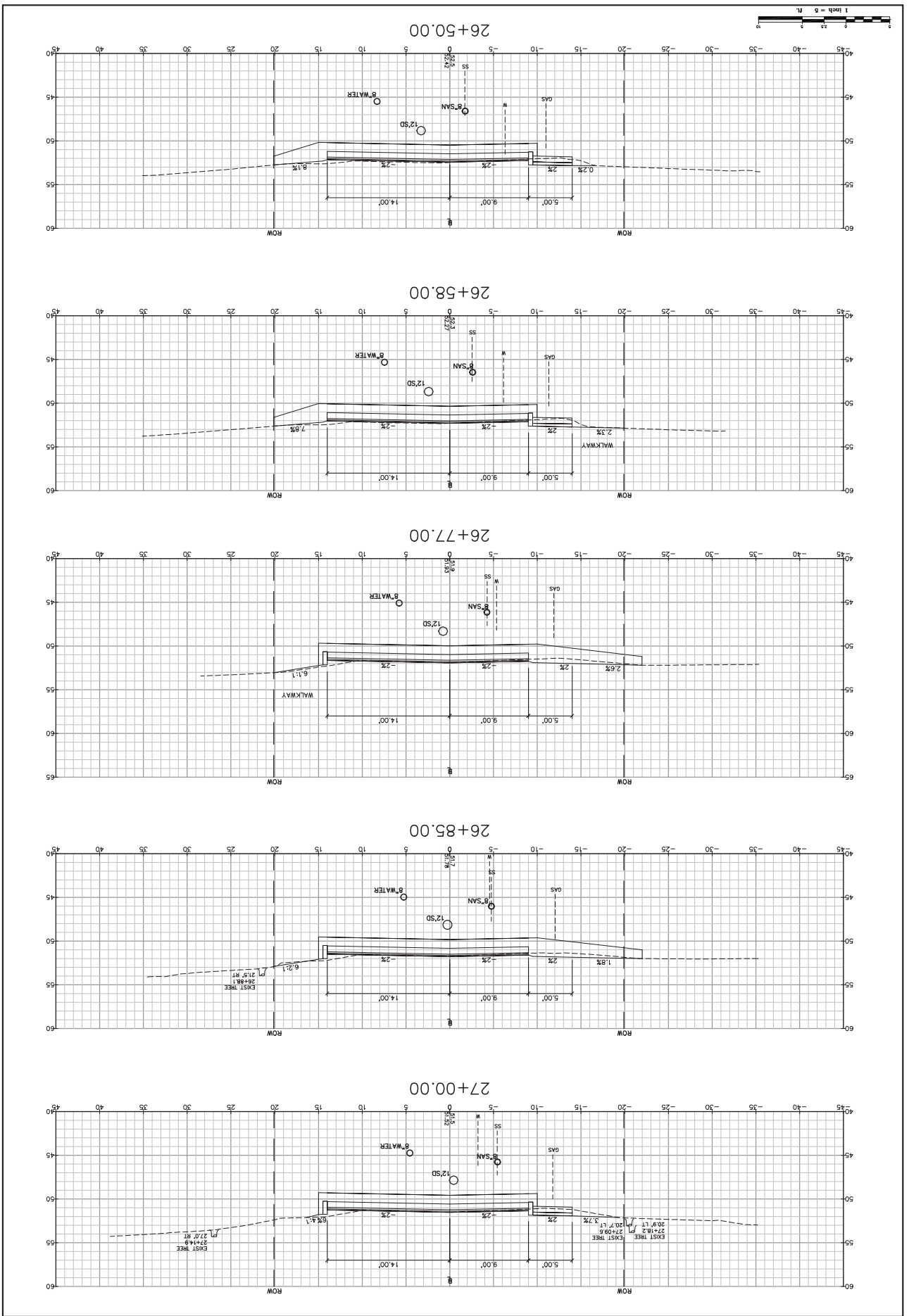


Drawing No. 30

City of Portsmouth
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Drawing Name: Cross Sections - Porpoise Way

GP
 Engineering Excellence Since 1998
 Gorrill-Palmer Consulting Engineers, Inc.
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-437-6910
 Fax: 603-437-6912
 E-Mail: mrob@gorrillpalmer.com

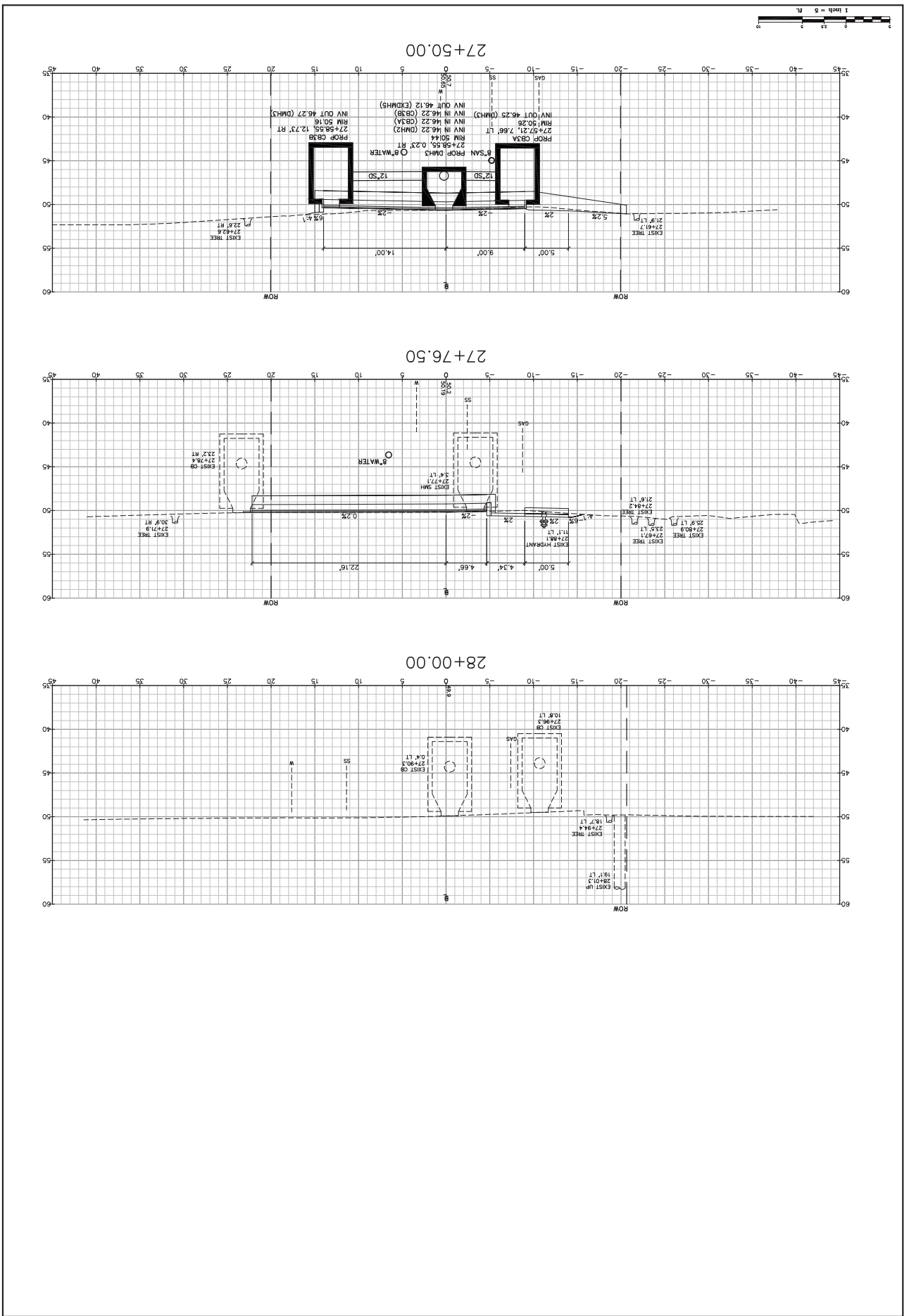
Design: RJB
 Check: TLD
 Scale: 1"=5'
 Date: MAY 2010
 Job No: 2769
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, omissions or changes, shall be at the user's sole risk and without liability to GPCE.



City of Portsmouth
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Drawing Name: Cross Sections - Porpoise Way

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 207-657-6912
 Fax: 207-657-6912
 E-Mail: mobil@gorillpalmer.com

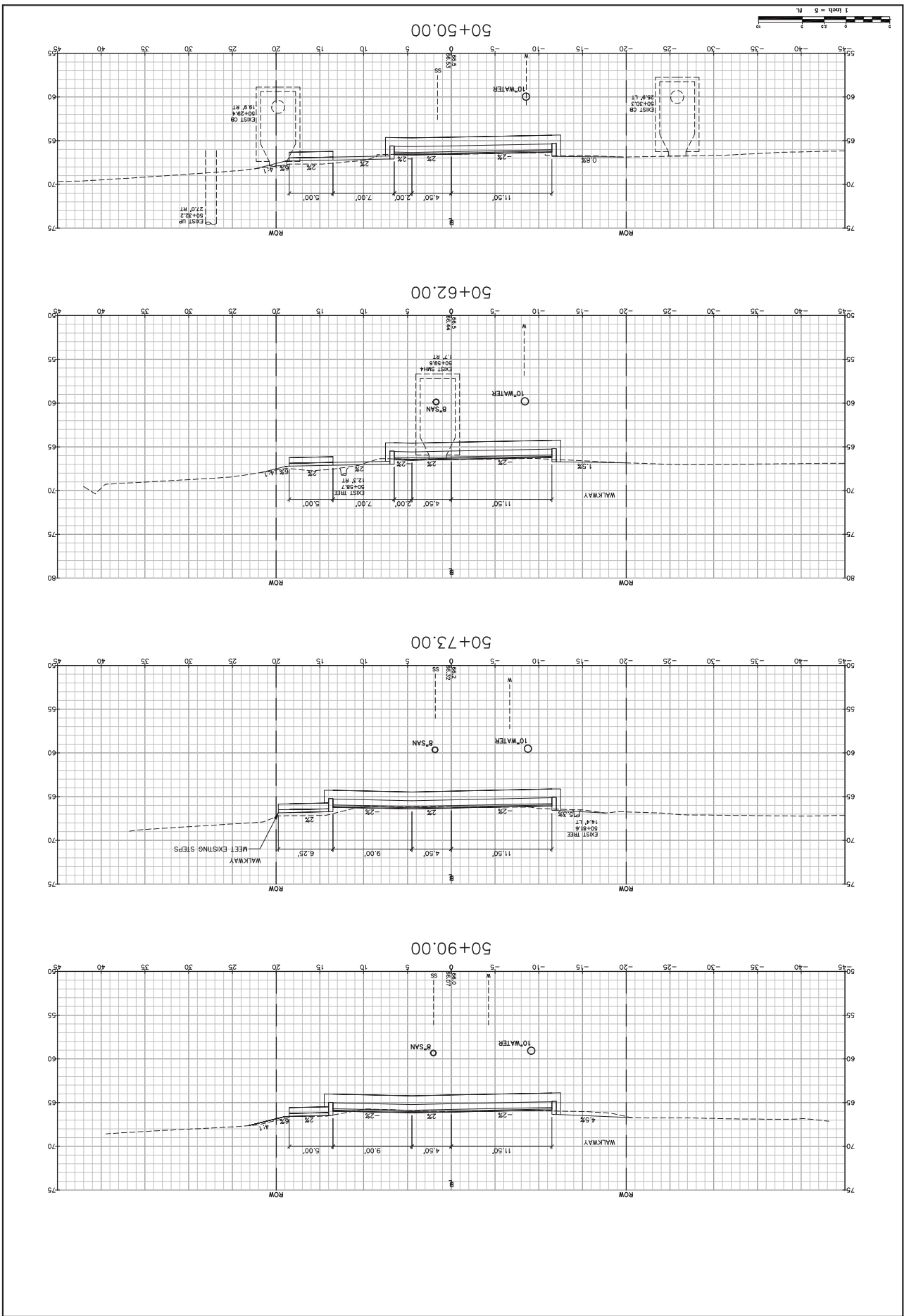
Design: RJB
 Check: TLD
 Scale: 1"=50'
 Date: MAY 2010
 Job No: 2769



Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 1 Juntkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorill-Palmer Consulting Engineers, Inc.
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-437-6910
 Fax: 603-437-6912
 E-Mail: mrobson@gorillpalmer.com

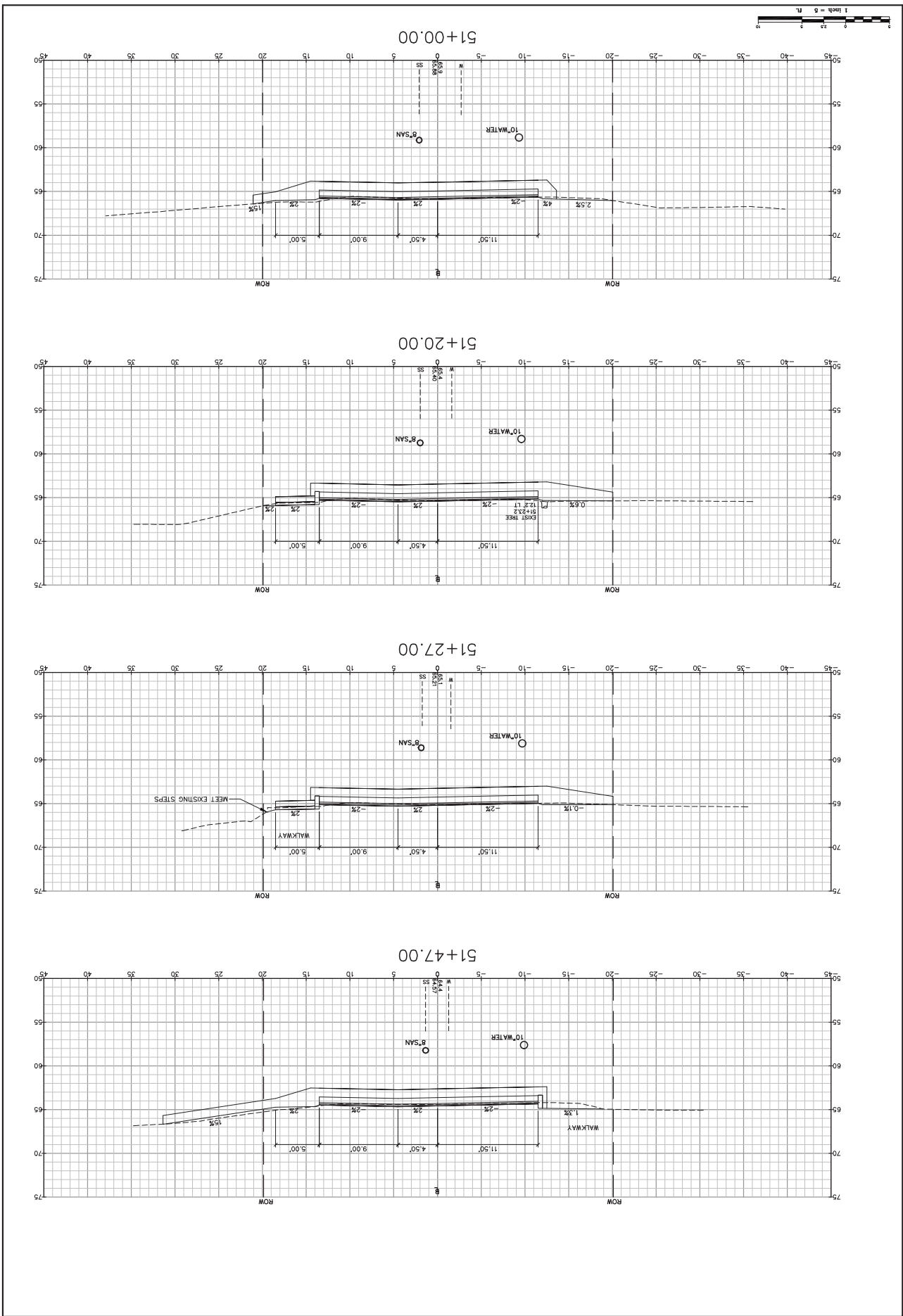
Design: RJB
 Check: TLD
 Scale: 1"=50'
 Job No.: 2165
 Date: MAY 2010



Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorrill-Palmer Consulting Engineers, Inc.
 207-657-6910
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mrobson@gorrillpalmer.com

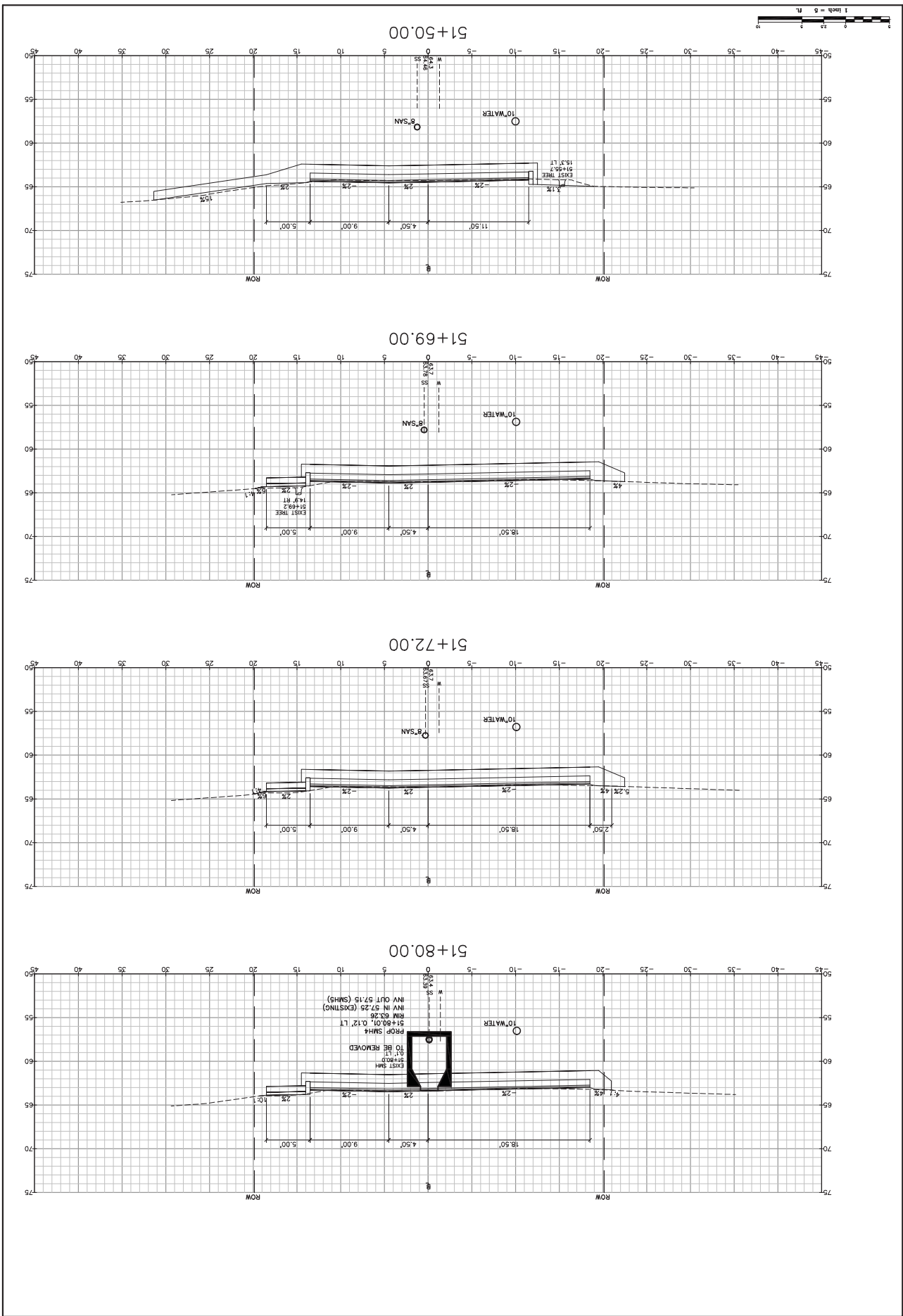
Design: RJB
 Check: TLD
 Scale: 1"=5'
 Date: MAY 2010
 Job No: 2369
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCE.

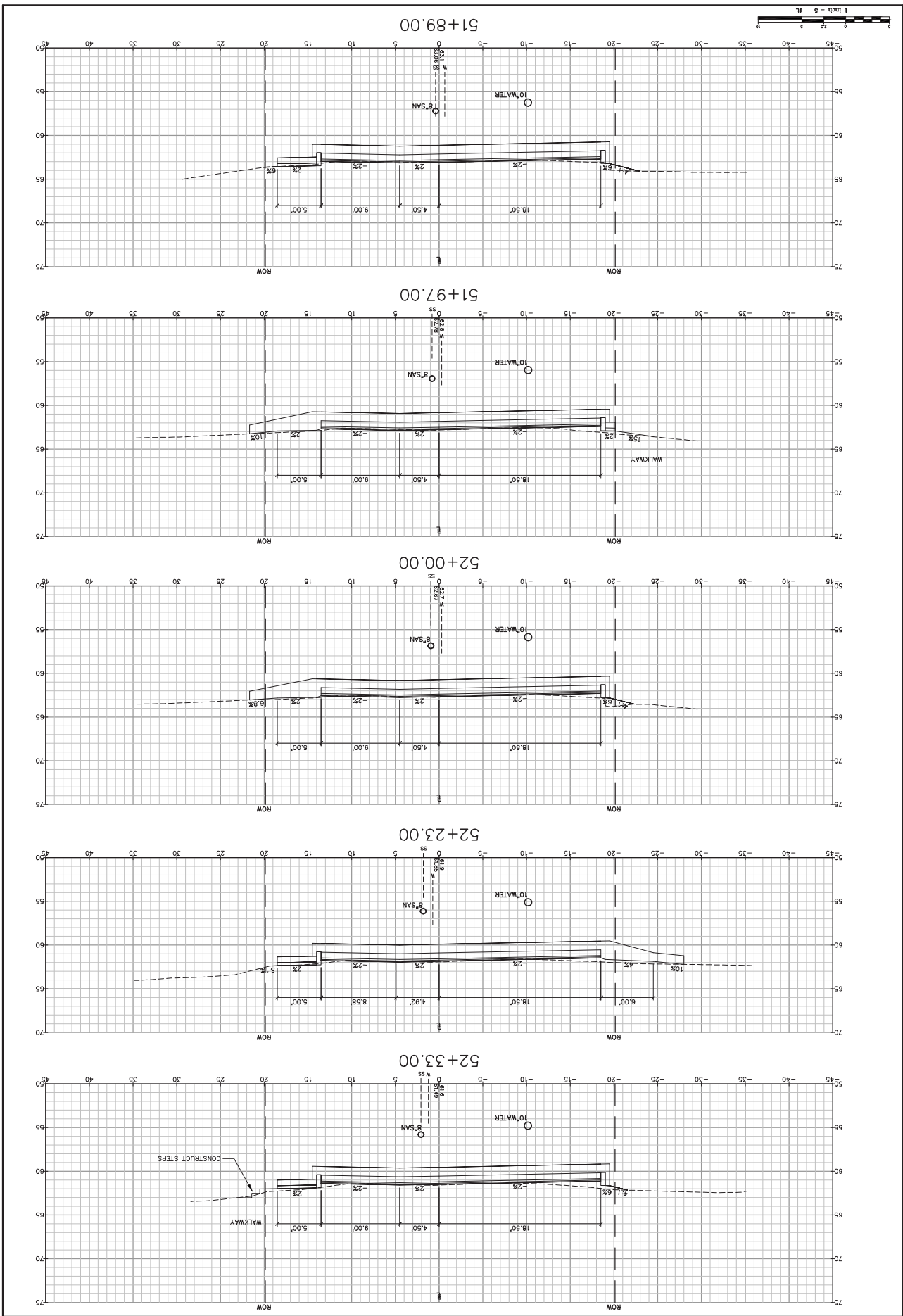


Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Junken Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorrill-Palmer Consulting Engineers, Inc.
 207-657-6910
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mrob@gorrillpalmer.com

Design: RJB
 Check: TLO
 Date: MAY 2010
 Job No: 2365
 Scale: 1"=50'
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCE.

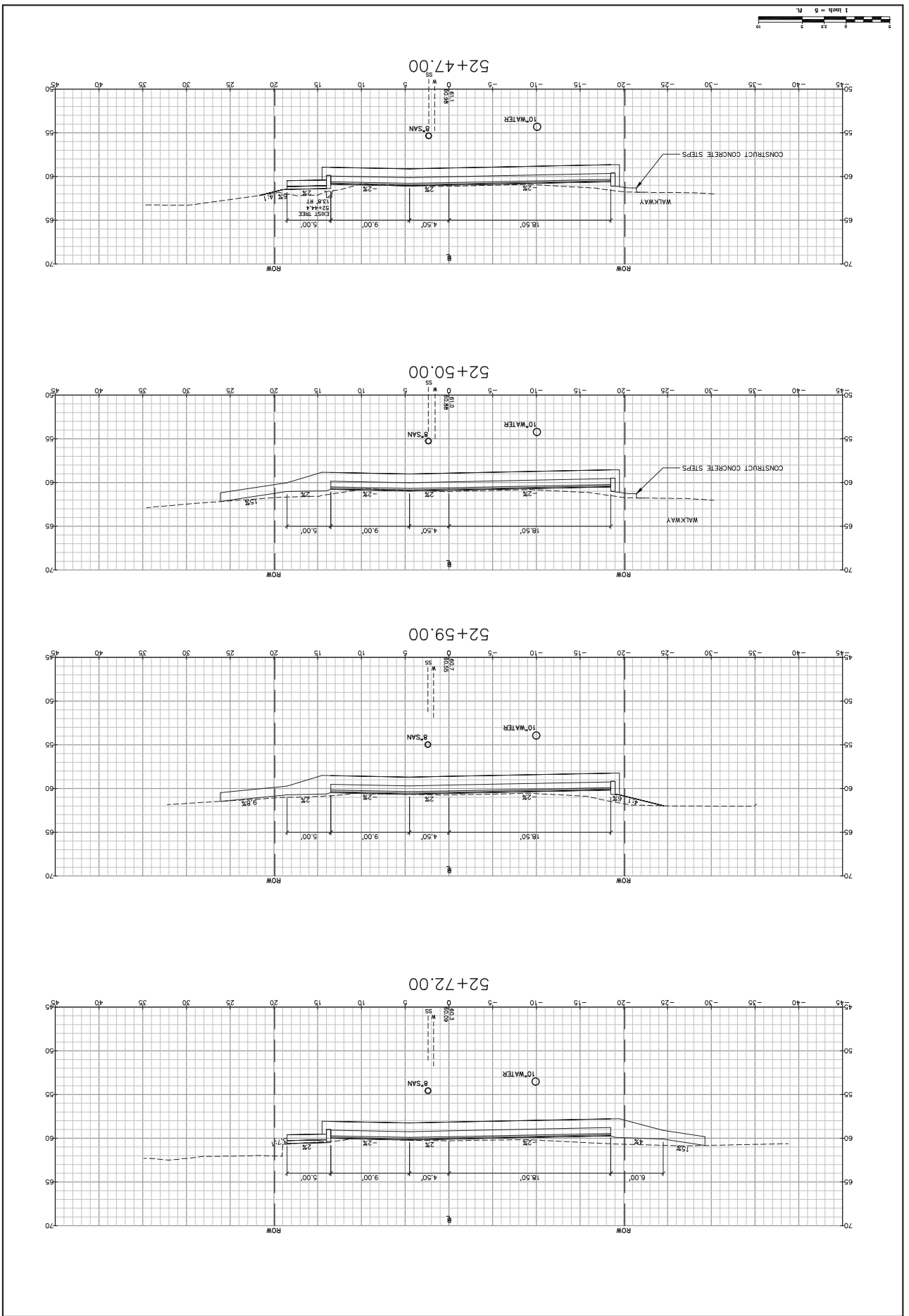




City of Portsmouth
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-437-6910
 Fax: 603-437-6912
 E-Mail: mrobson@gorillpalmer.com

Design: RJB Date: MAY 2010
 Checked: TLO Scale: 1"=50'
 Job No.: 2365
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCEI.

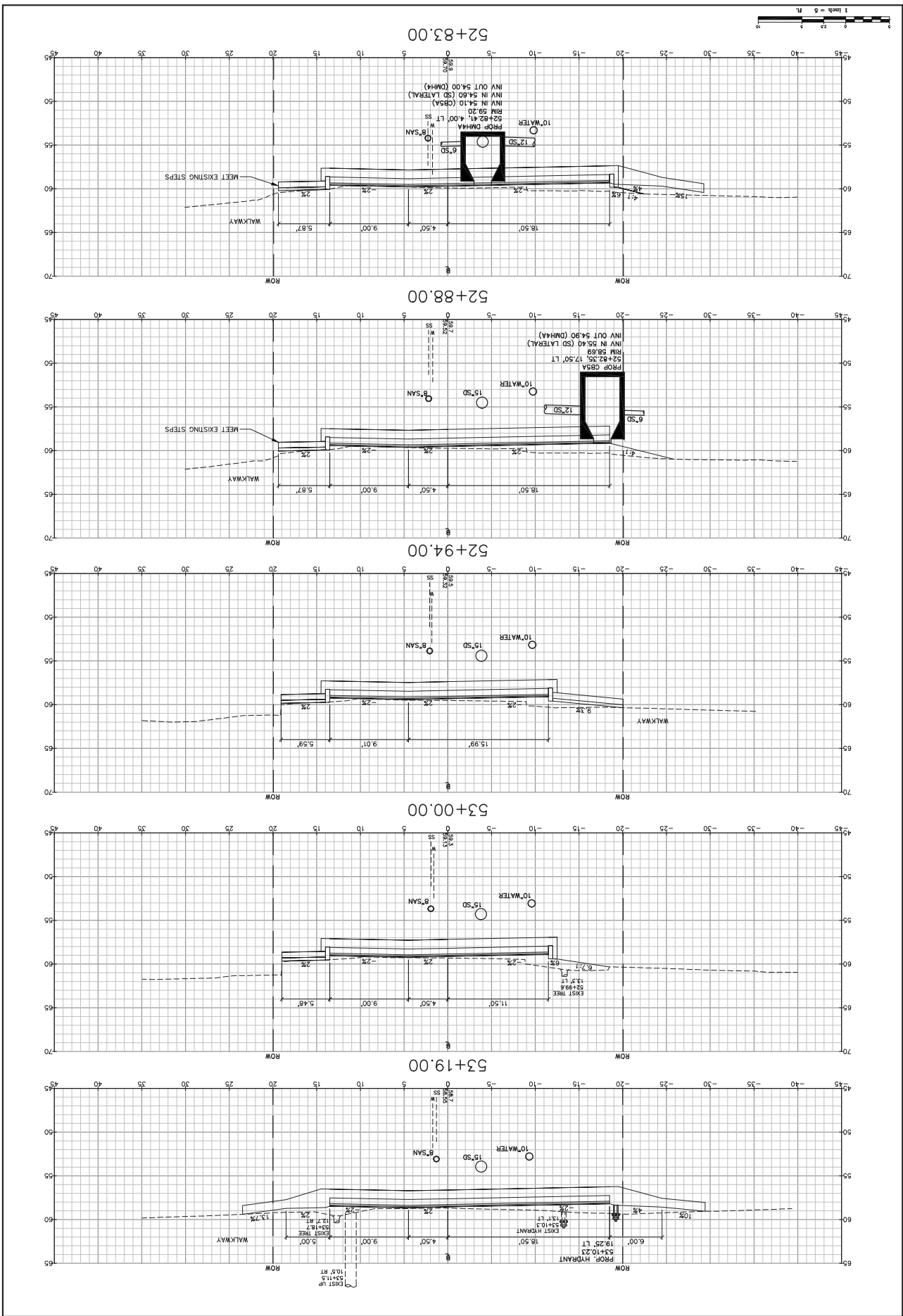


City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Drawing Name: **Cross Sections - Concord Way**

GP Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-431-1237
 Fax: 603-431-1238
 E-Mail: mobo@gorillapalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2369
 Scale: 1"=5'
 Part: 08
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCE.

Drawing No. **37**

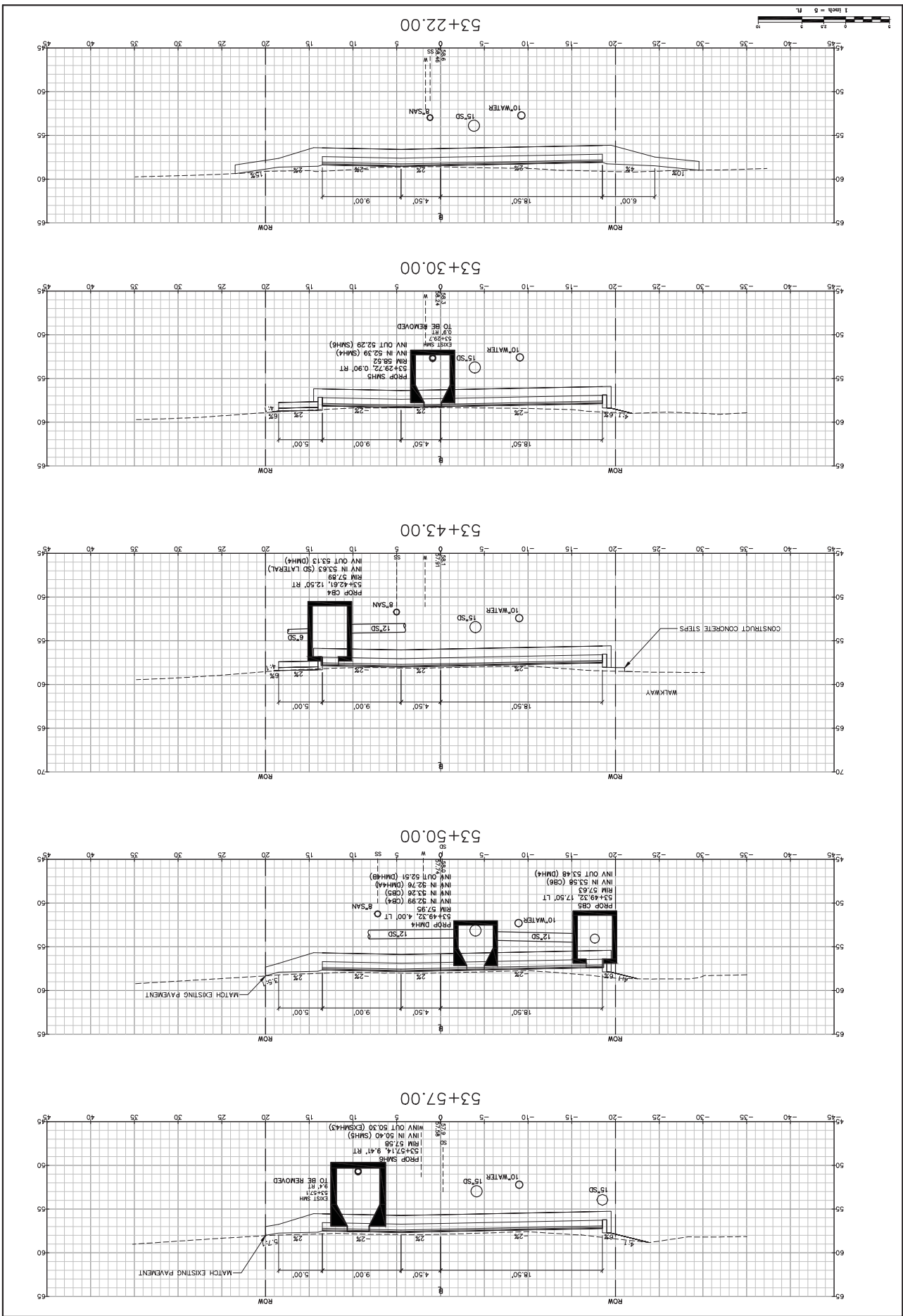


City of Portsmouth
 1 Umkin Avenue, Portsmouth, NH 03802
 Client: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Drawing Name: Cross Sections - Concord Way

GP Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 207-657-6910
 Fax: 207-657-6912
 E-Mail: mrobson@gortpalmer.com

GortPalmer Consulting Engineers, Inc.
 Design: RJB
 Check: TLD
 Scale: 1"=5'
 Date: MAY 2010
 Job No: 2769

Drawing No. 38



39

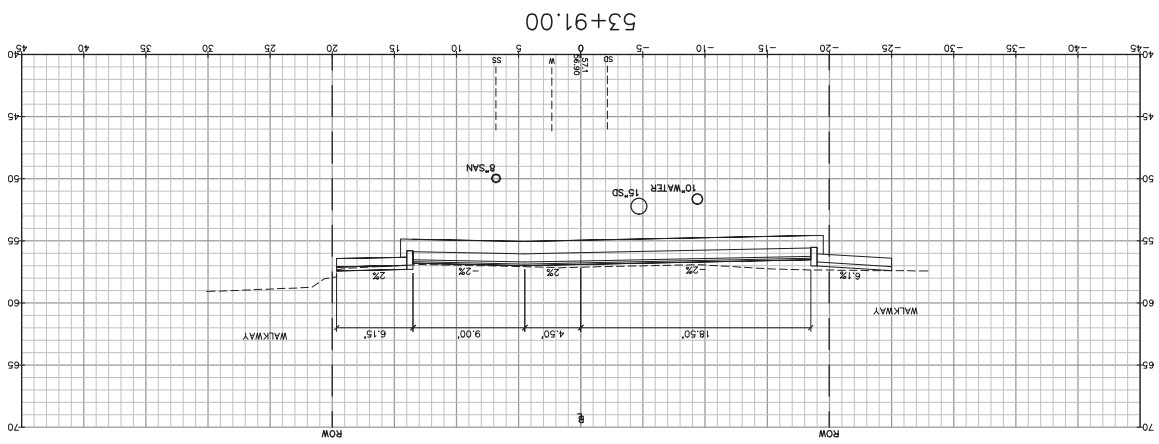
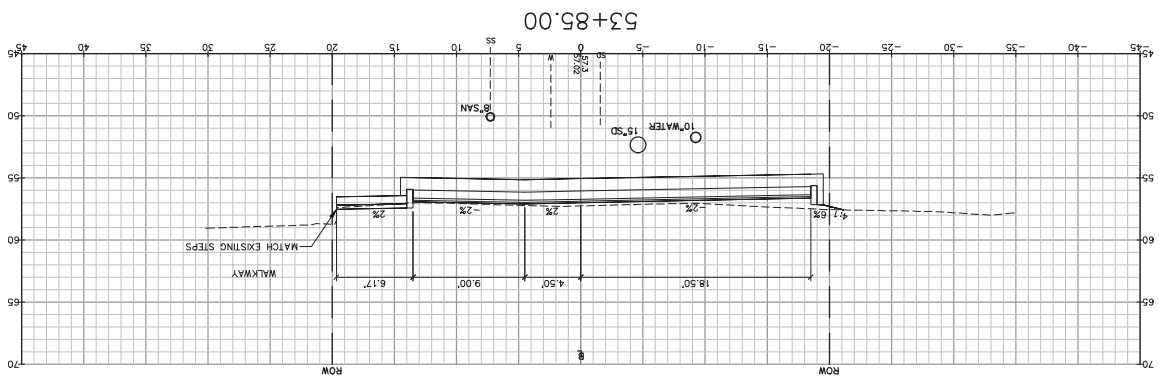
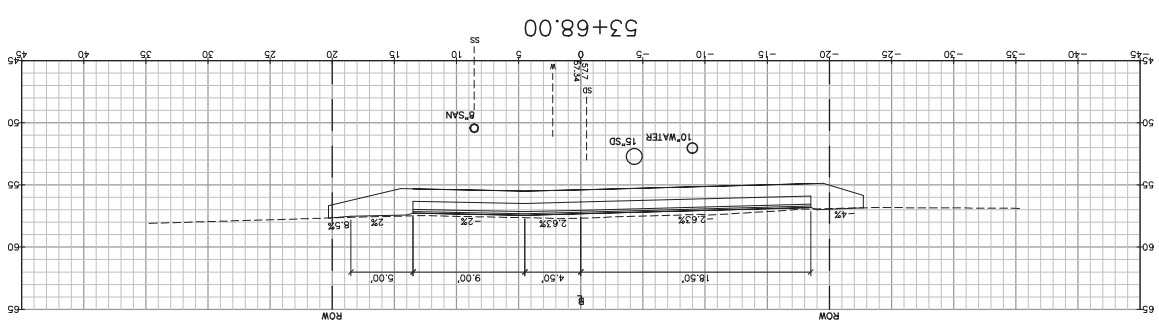
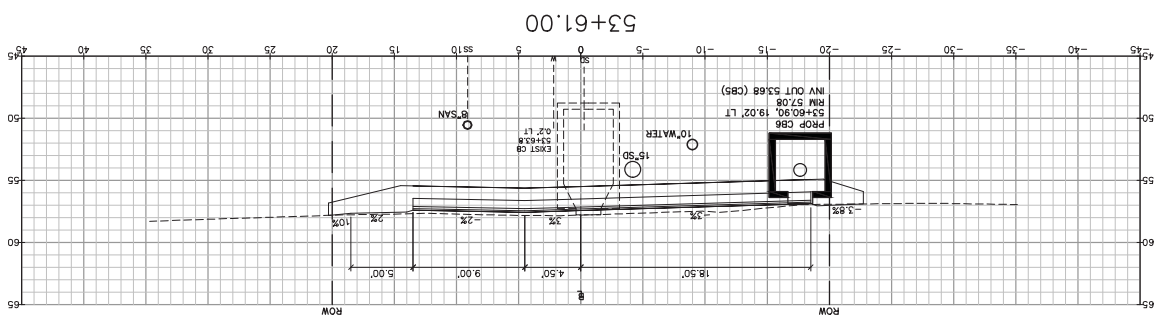
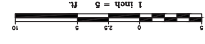
Drawing No.

STA 53+61 TO STA 53+91

City of Portsmouth
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Drawing Name: Cross Sections - Concord Way

GP
 Engineering Excellence Since 1998
 Gorrill-Palmer Consulting Engineers, Inc.
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-431-6910
 Fax: 603-431-6912
 E-Mail: mrob@gorrillpalmer.com

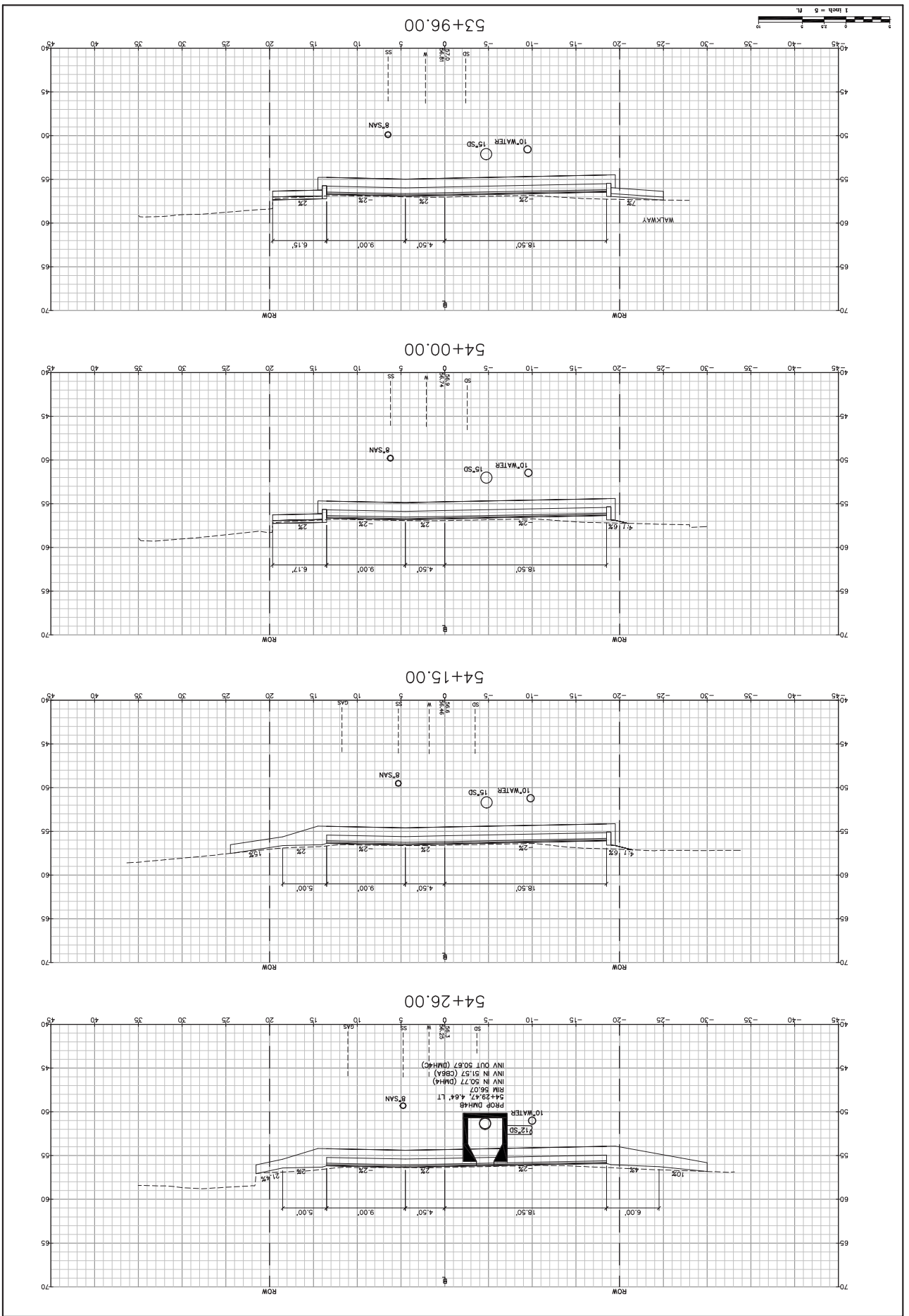
Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2369
 Scale: 1"=5'



Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETScape IMPROVEMENTS
 City of Portsmouth
 1 Judding Avenue, Portsmouth, NH 03802

GP Engineering
 127
 Engineering Excellence Since 1998
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mlobd@gorillapalmer.com
 207-657-6910
 Fax: 207-657-6912
 Gorill-Palmer Consulting Engineers, Inc.

Design: RJB
 Check: TLD
 Scale: 1"=5'
 Date: MAY 2010
 Job No: 2369
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCE). Any alterations, additions or omissions made by the user's sole risk and without liability to GPCE.

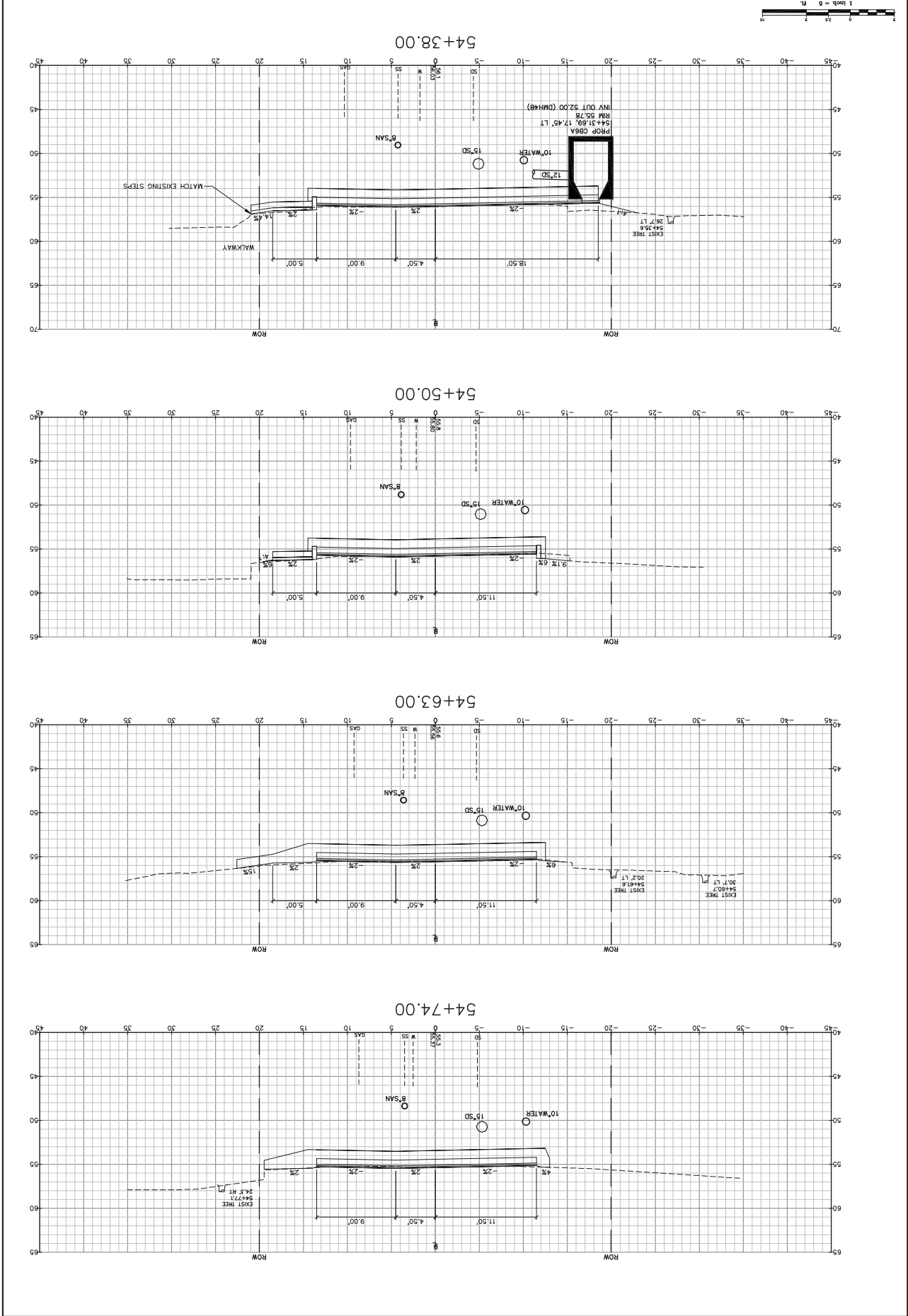
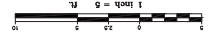


Drawing No. 41

Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Junken Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorjill-Palmer Consulting Engineers, Inc.
 15 Shaker Road
 P.O. Box 1237
 Gray, ME 04039
 E-Mail: mobil@gorjillpalmer.com
 207-657-6910
 Fax: 207-657-6912
 Engineers, Inc. (CPEI). Any alterations, additions or changes, shall be at the user's sole risk and without liability to CPEI.

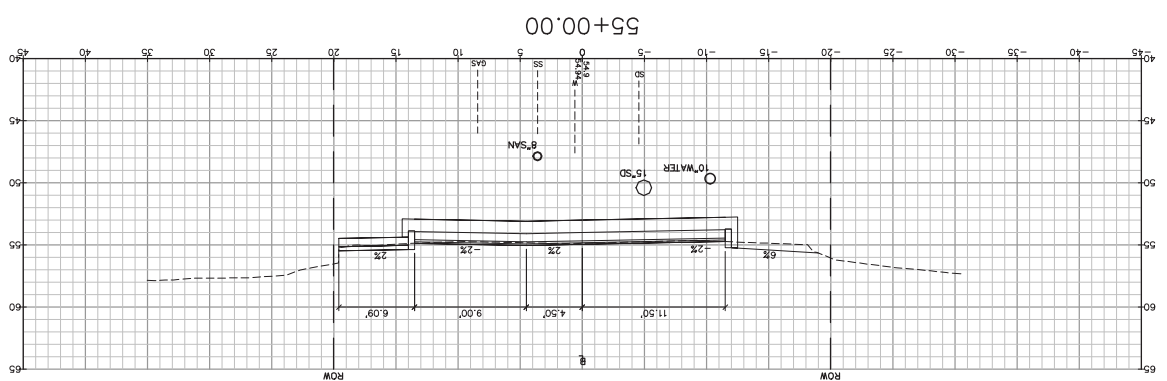
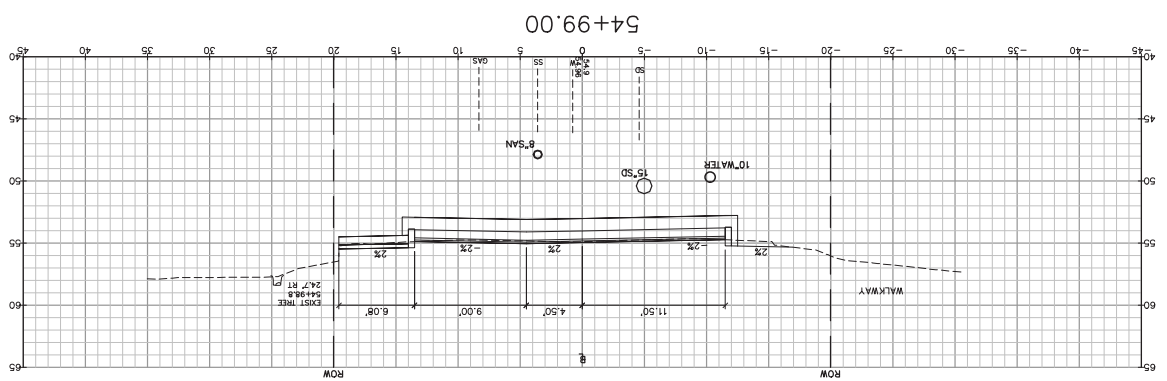
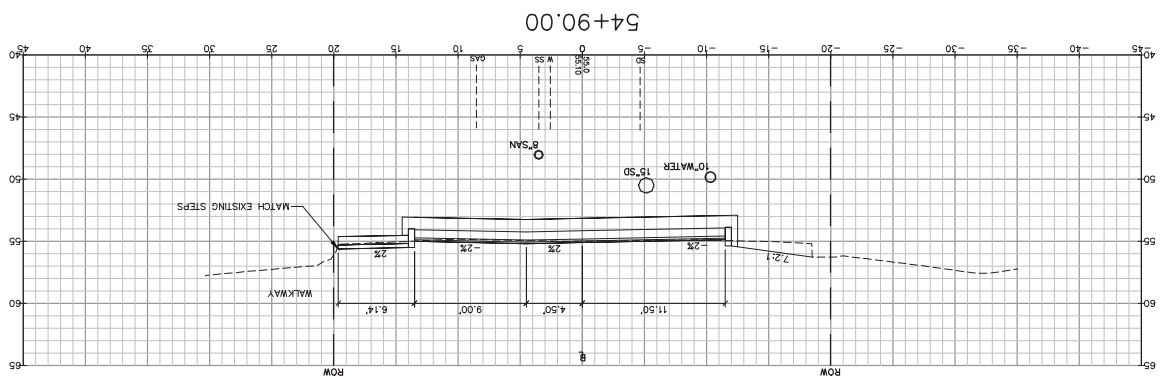
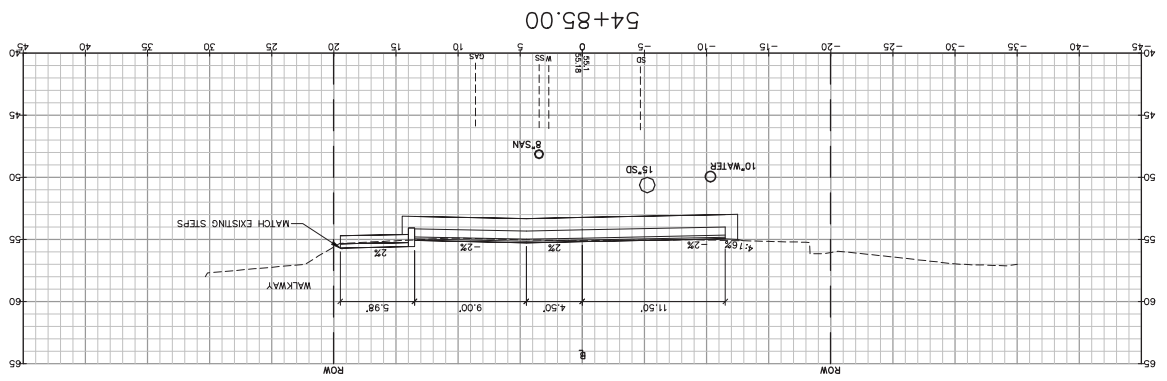
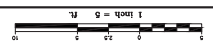
Design: RJB
 Check: TLD
 Scale: 1"=5'
 Job No.: 2369
 Date: MAY 2010



City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802
 Client:
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Cross Sections - Concord Way

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 207-657-6910
 Fax: 207-657-6912
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mrobson@gorillpalmer.com

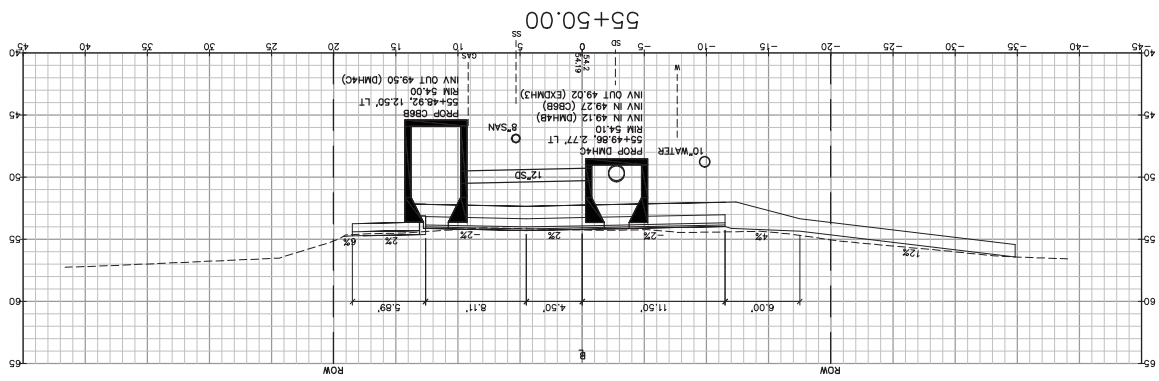
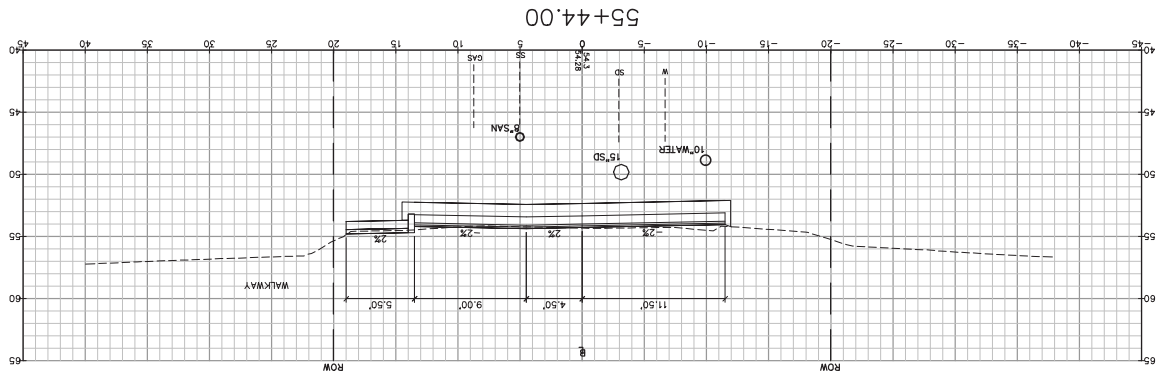
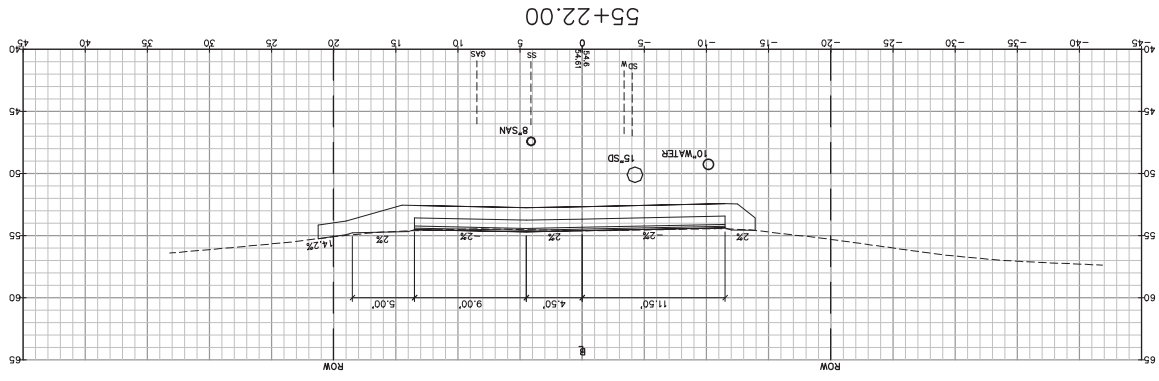
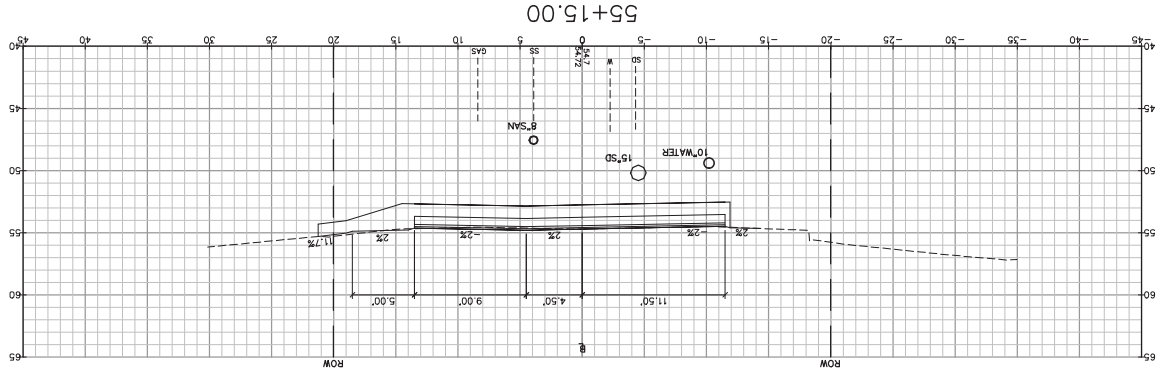
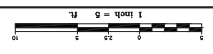
Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2365
 Scale: 1"=5'



City of Portsmouth
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorill-Palmer Consulting Engineers, Inc.
 Proj. No. 1277
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobil@gorillpalmer.com
 Fax: 207-657-6912
 207-657-6910
 Engineers, Inc. (GPEI). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPEI.

Design: RJB	Drawn: BJB	Date: MAY 2010
Checked: TLD	Scale: 1"=50'	Job No.: 2765
Proj. Name: 2365_XSEC.dwg	Sheet: 1 of 5	

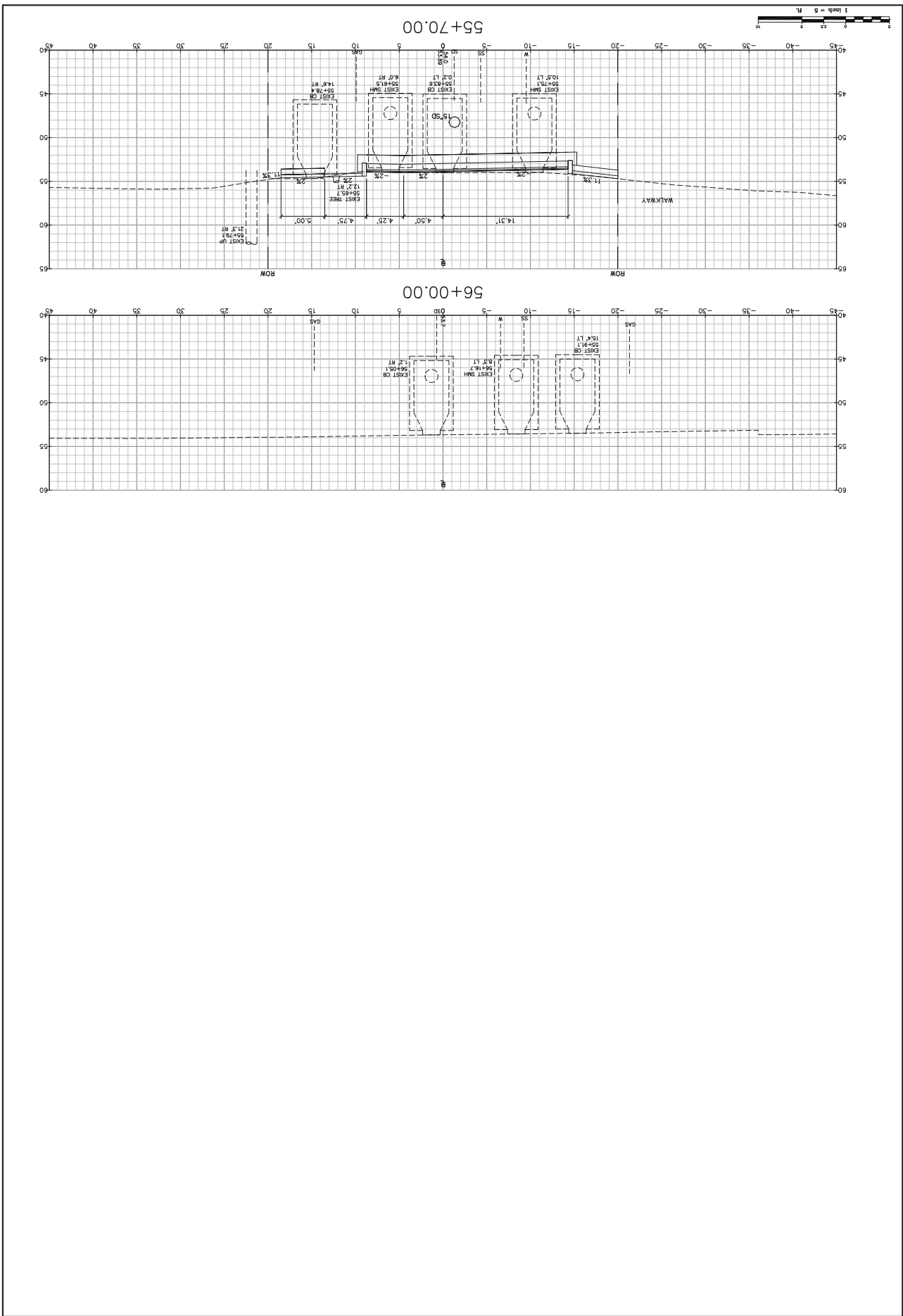


Drawing No. 44

City of Portsmouth
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 1 Junken Avenue, Portsmouth, NH 03802

Gorrell-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-437-6910
 Fax: 603-437-6912
 E-Mail: mrobson@gorrellpalmer.com

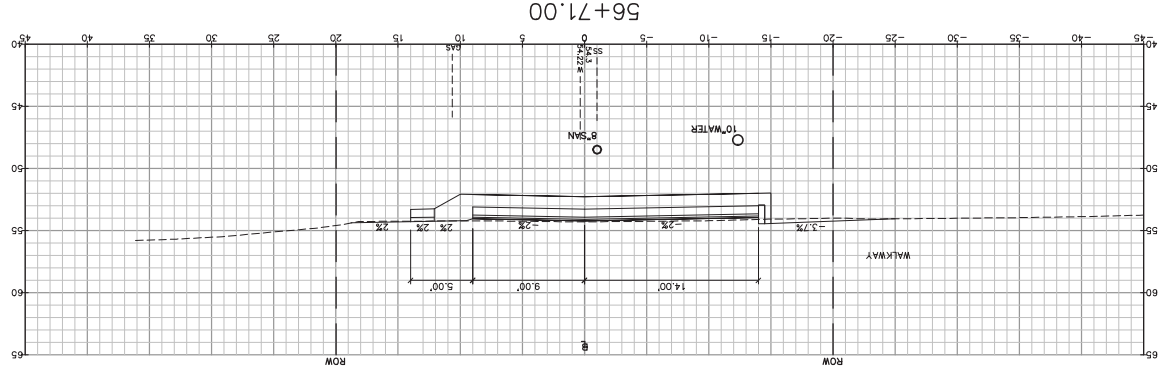
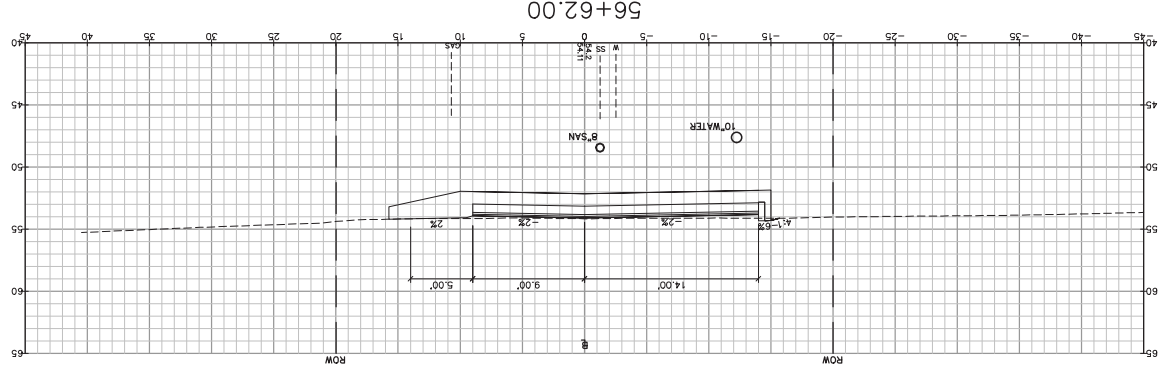
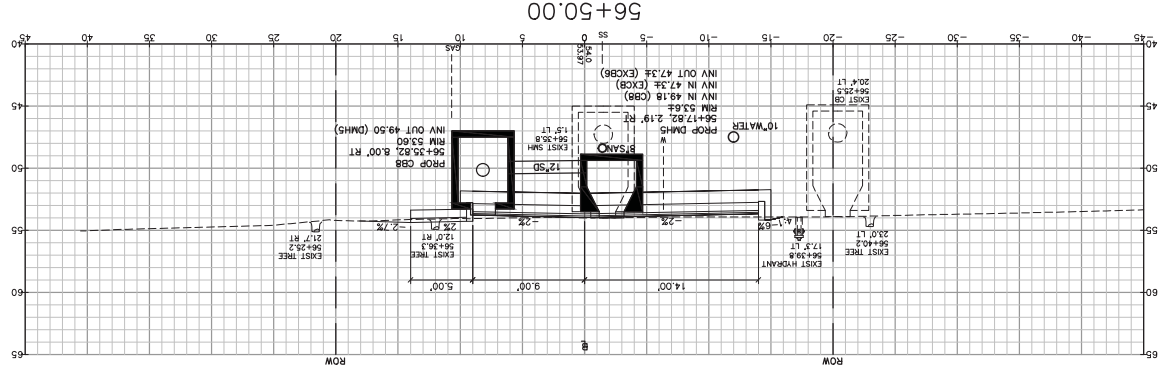
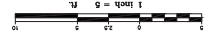
Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No.: 2365
 Scale: 1"=50'
 This plan shall not be modified without written permission from Gorrell-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPCEI.



City of Portsmouth
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 1 Junkins Avenue, Portsmouth, NH 03802

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 207-657-6910
 Fax: 207-657-6912
 E-Mail: mlobon@gorillpalmer.com
 15 Shaker Road
 Roy, ME 04039

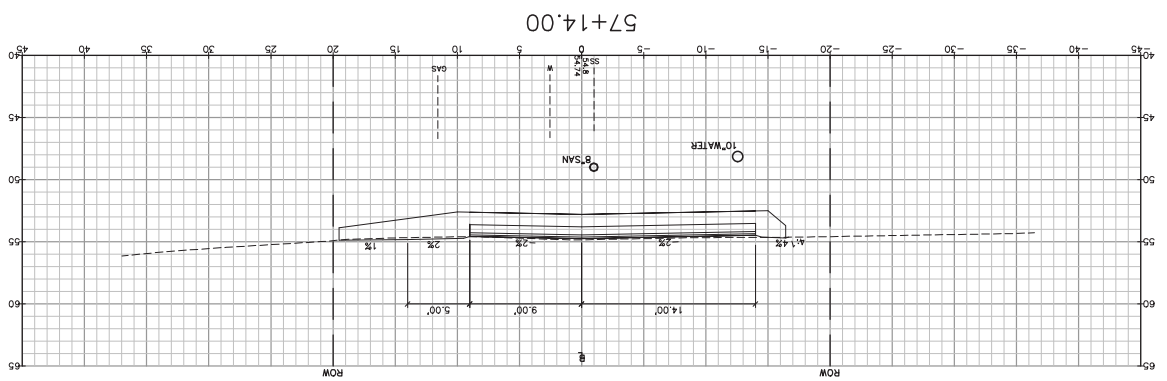
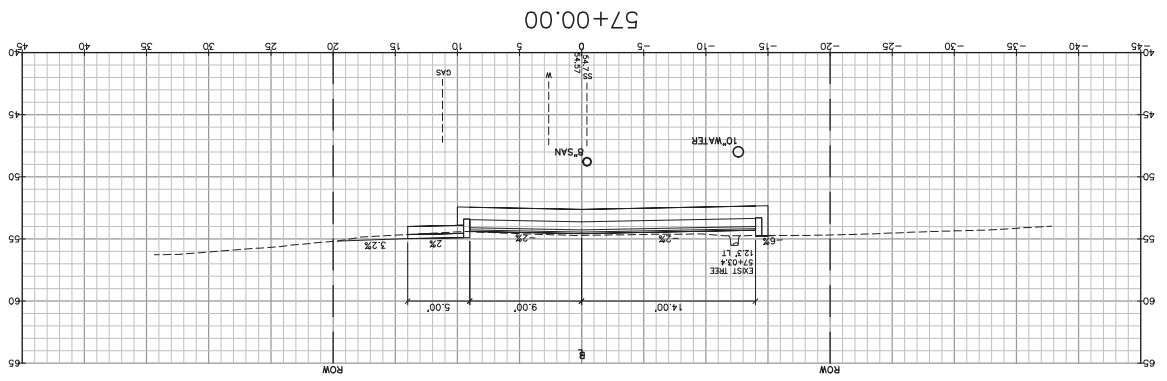
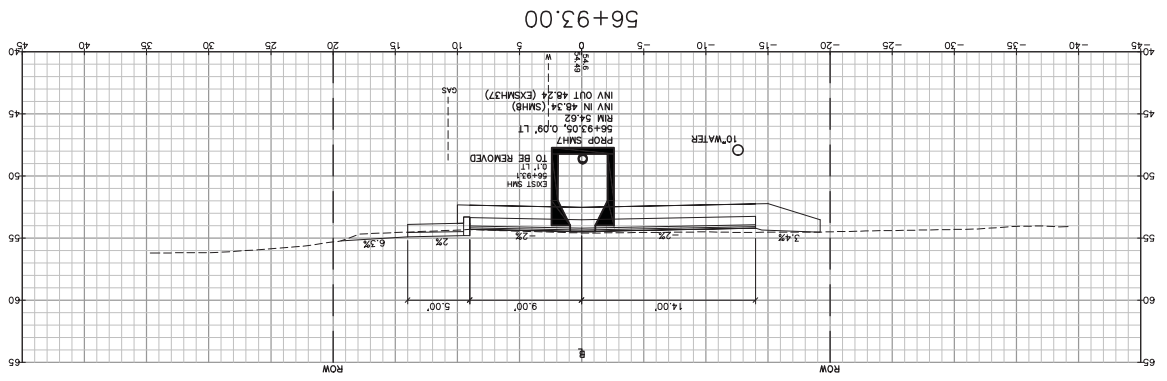
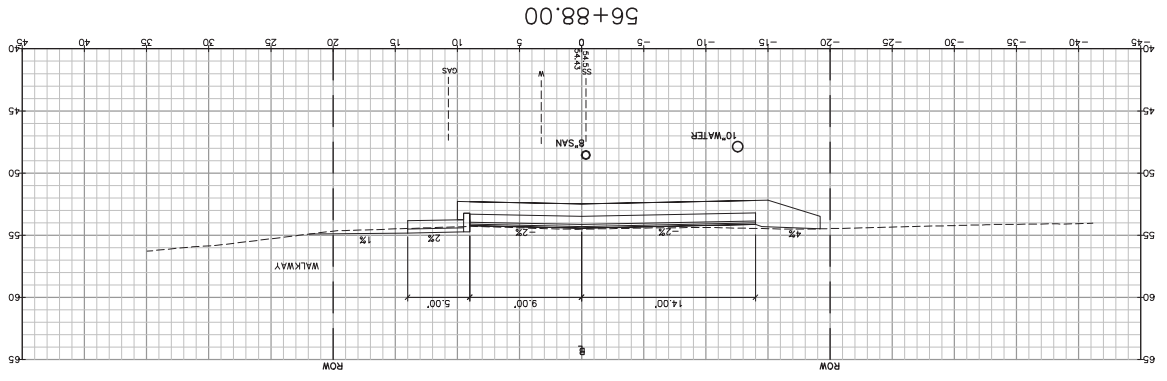
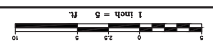
Design: RJB
 Check: TLO
 Scale: 1"=50'
 Date: MAY 2010
 Job No.: 2369
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCEI.



Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 207-657-6910
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobdox@gorillapalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2769

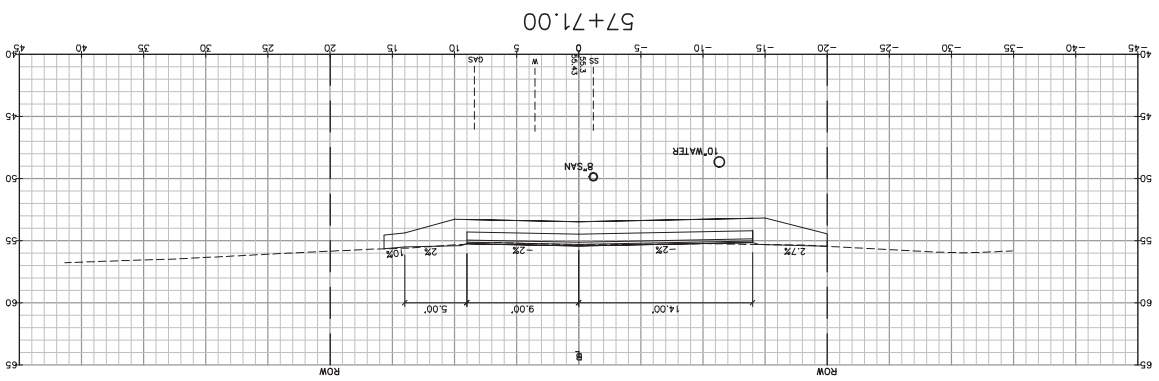
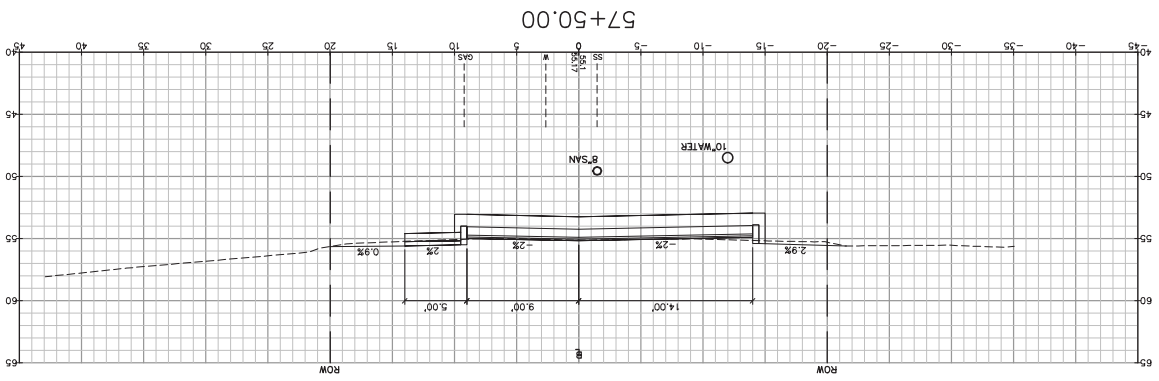
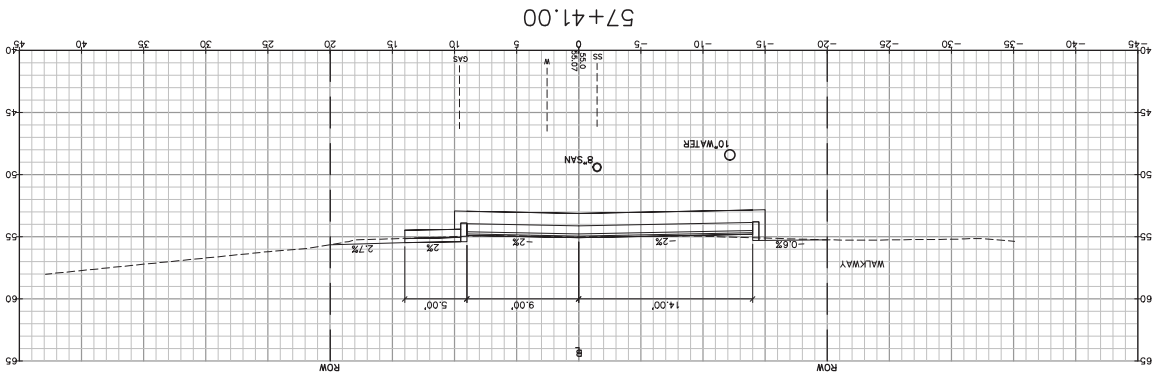
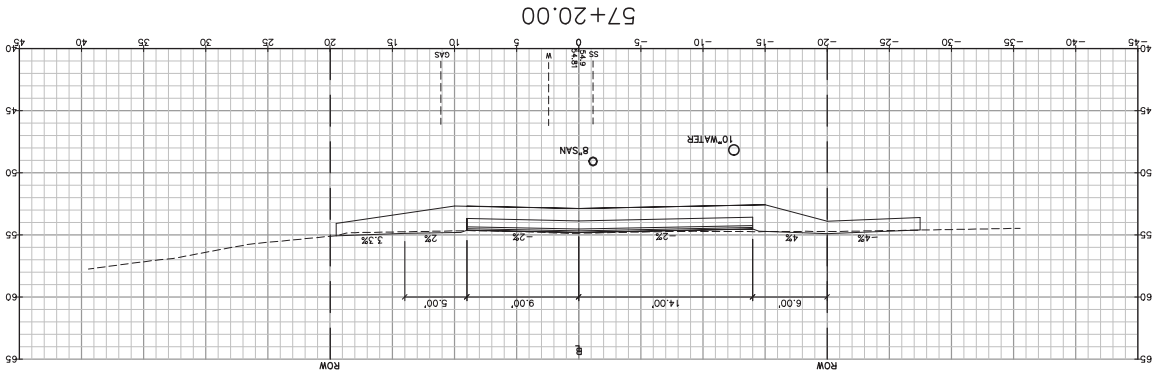
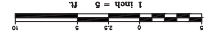


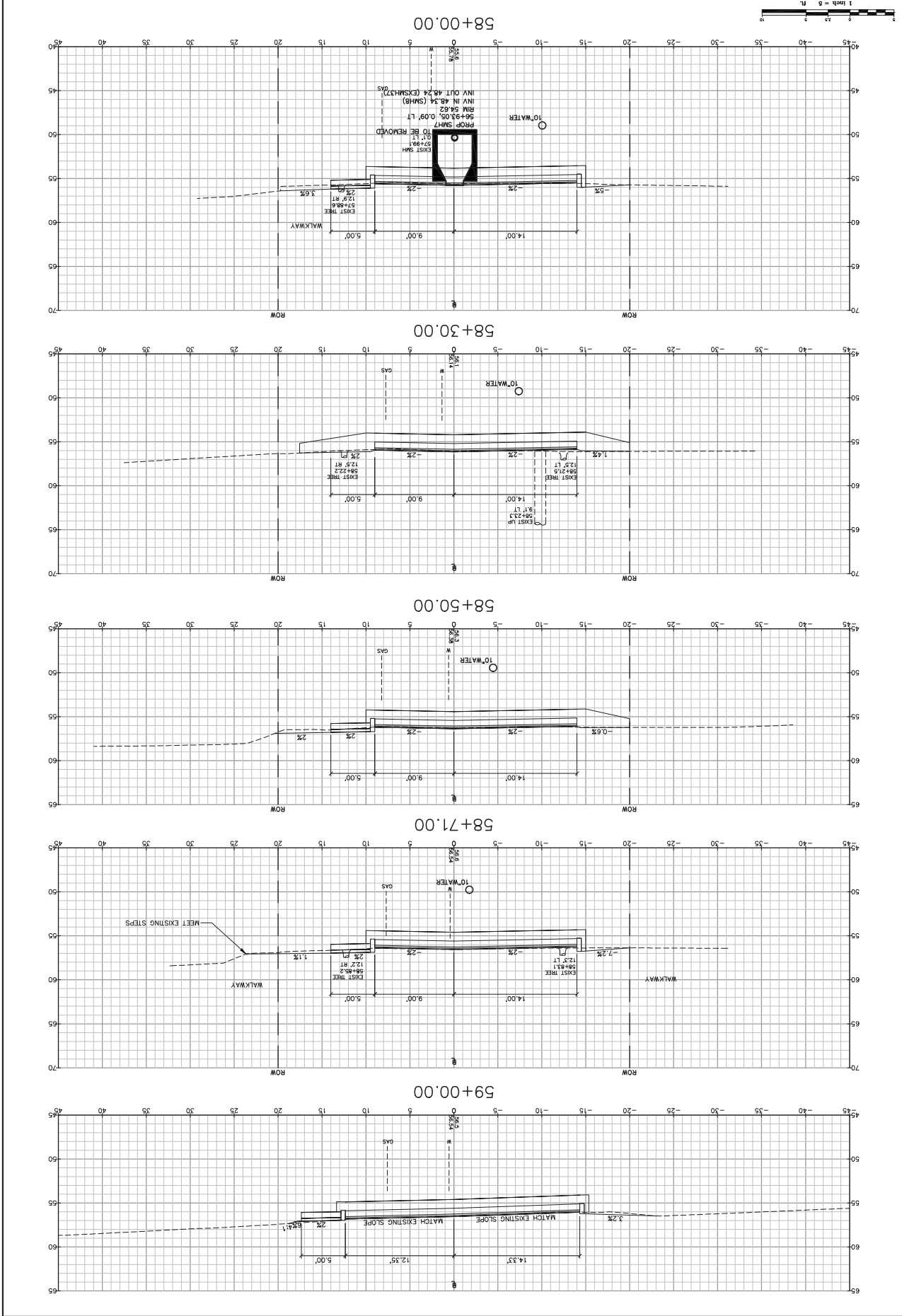
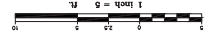


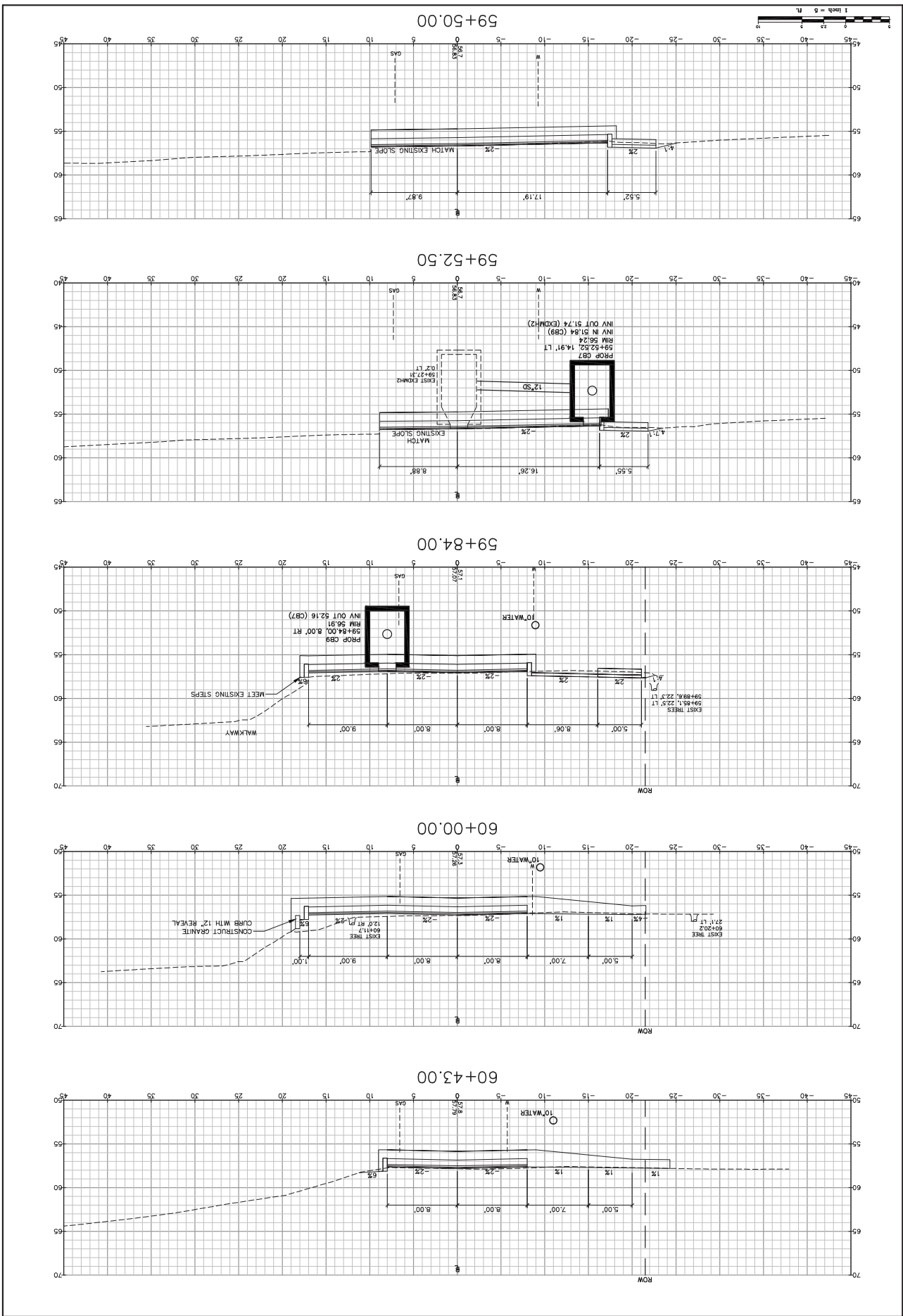
Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 207-657-6910
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobdox@gorillapalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2769
 Scale: 1"=50'
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc.
 Authorized or otherwise, and for the user's sole risk and without liability to GPCEI.



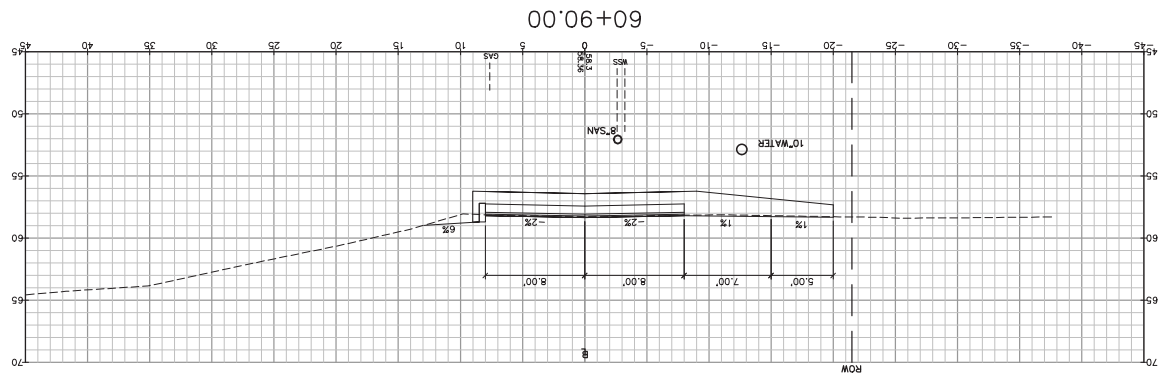
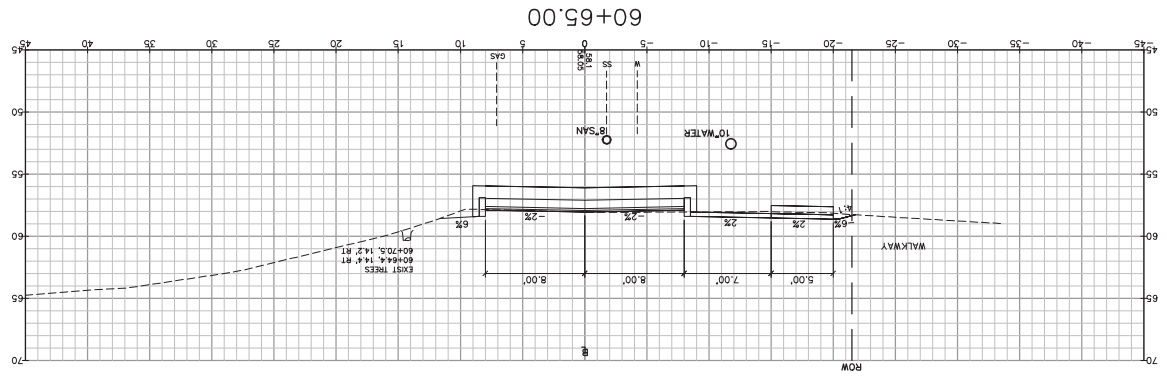
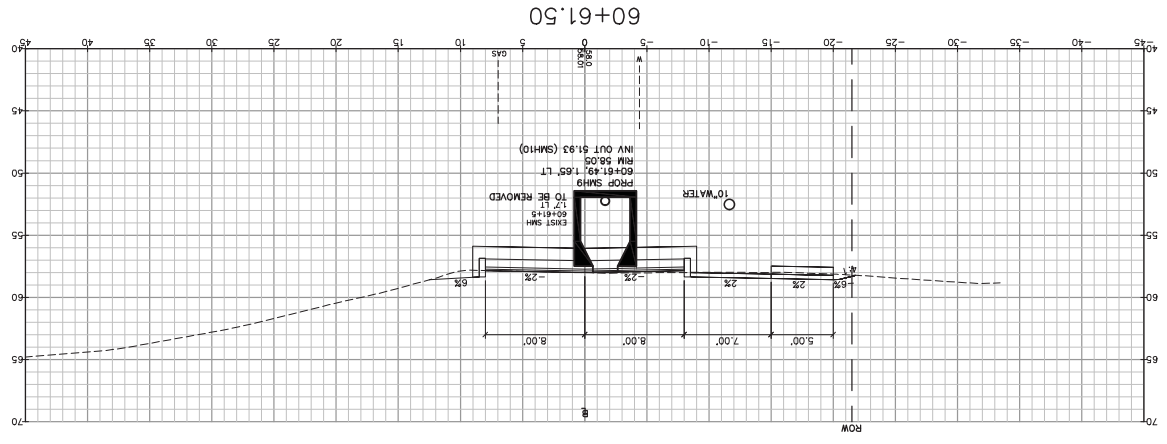
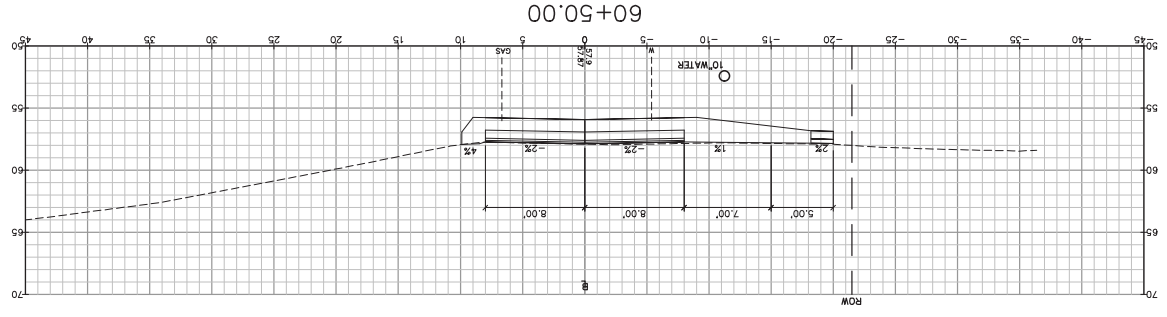
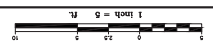




Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-431-1234
 Fax: 603-431-1234
 E-Mail: mrobson@gorillapalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2769
 Scale: 1"=50'
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc.
 Engineers, Inc. (GPEI). Any alterations, additions or omissions, shall be at the user's sole risk and without liability to GPEI.



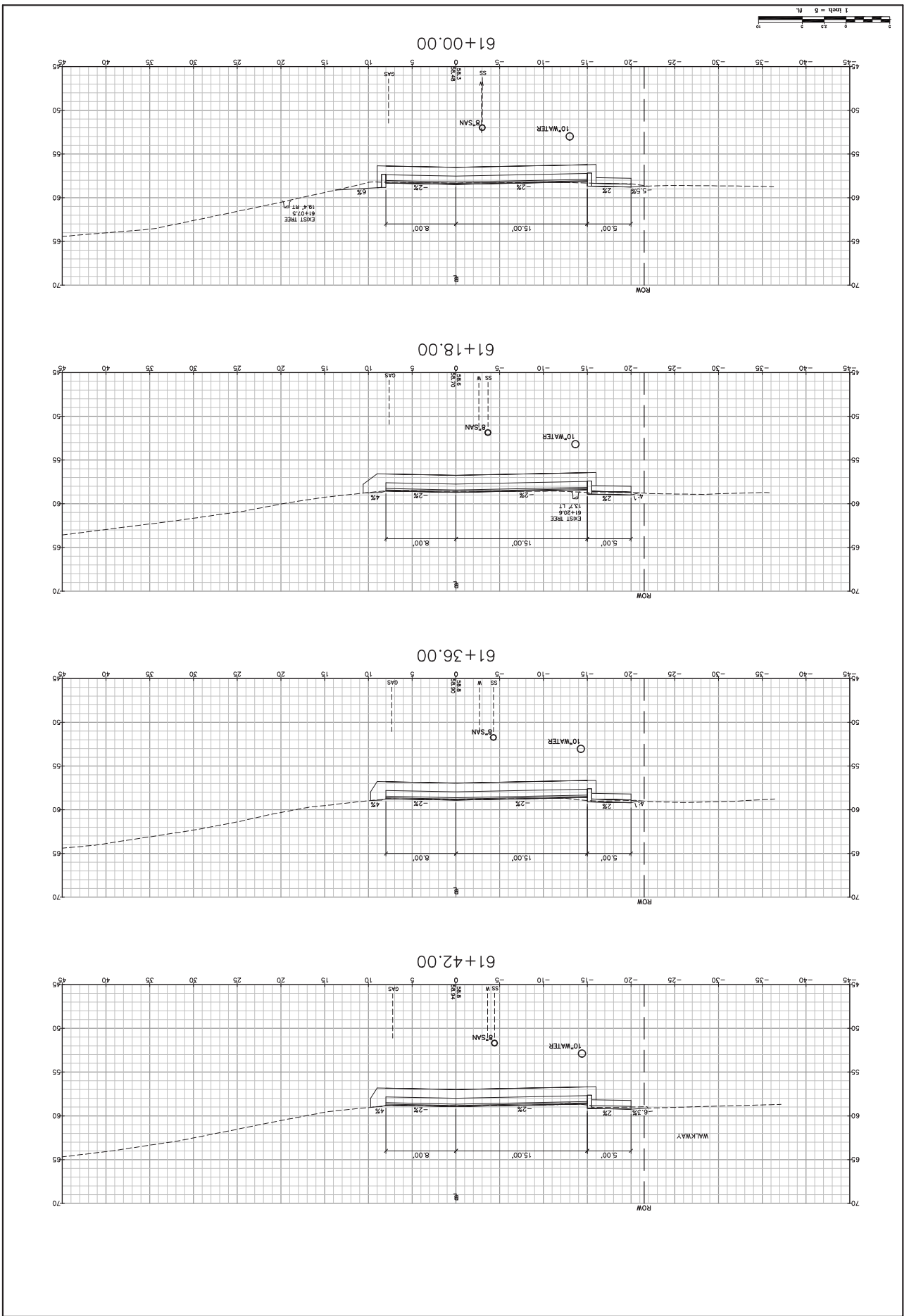
Drawing No. 51

STA 61+00 TO STA 61+42

Drawing Name: Cross Sections - Concord Way
 Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 City of Portsmouth
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 603-431-1234
 Fax: 603-431-1234
 E-Mail: info@gpengineering.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Scale: 1"=5'
 Job No: 2365



52

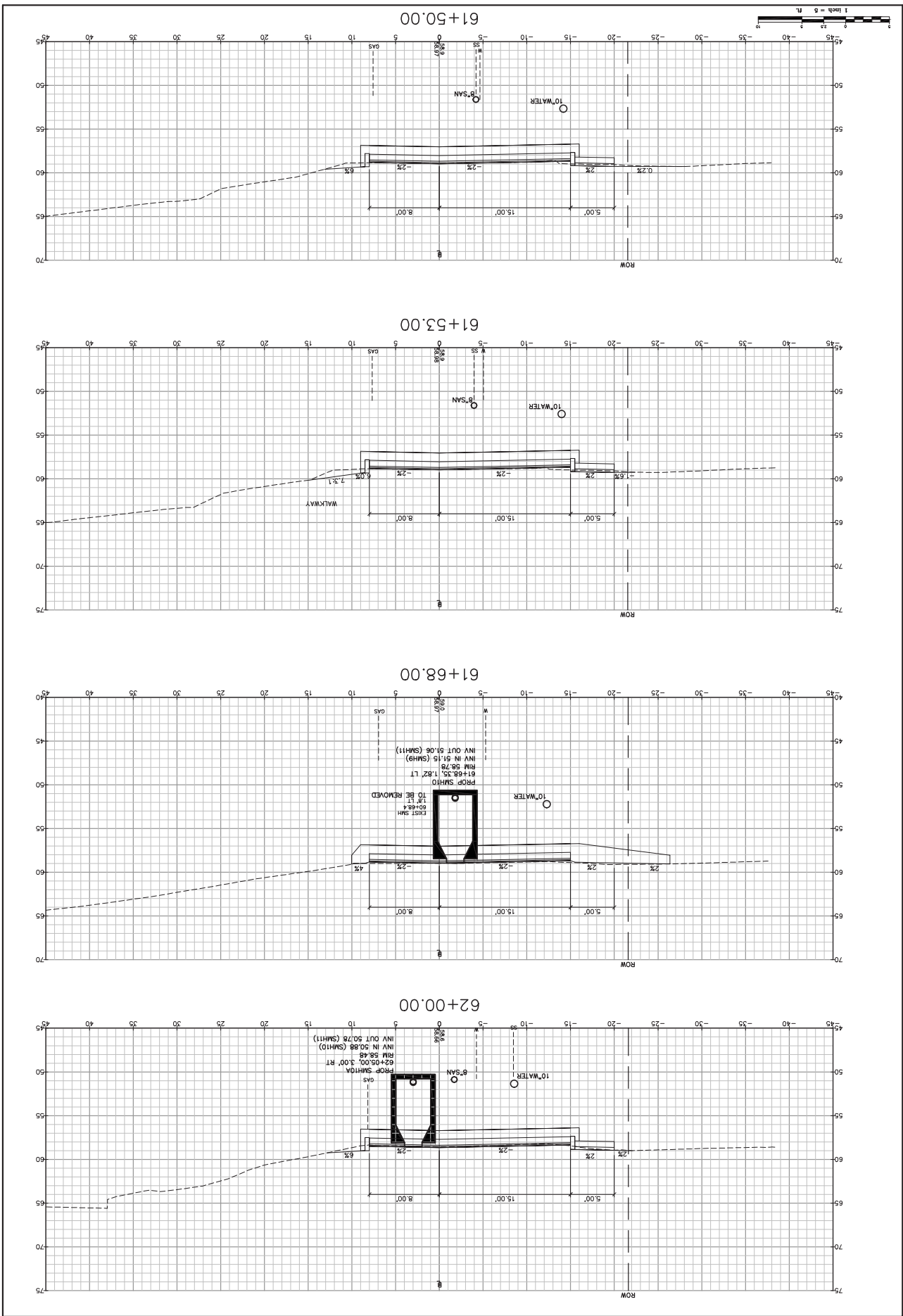
Drawing No.

STA 61+50 TO STA 62+00

Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Client: City of Portsmouth
 1 Junkins Avenue, Portsmouth, NH 03802

GP Engineering Excellence Since 1998
 Gorill-Palmer Consulting Engineers, Inc.
 207-657-6910
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobil@gorillpalmer.com

Design: RJB
 Check: TLD
 Date: MAY 2010
 Job No: 2169
 Scale: 1"=5'
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCE).
 GPCE and without liability to GPCE.

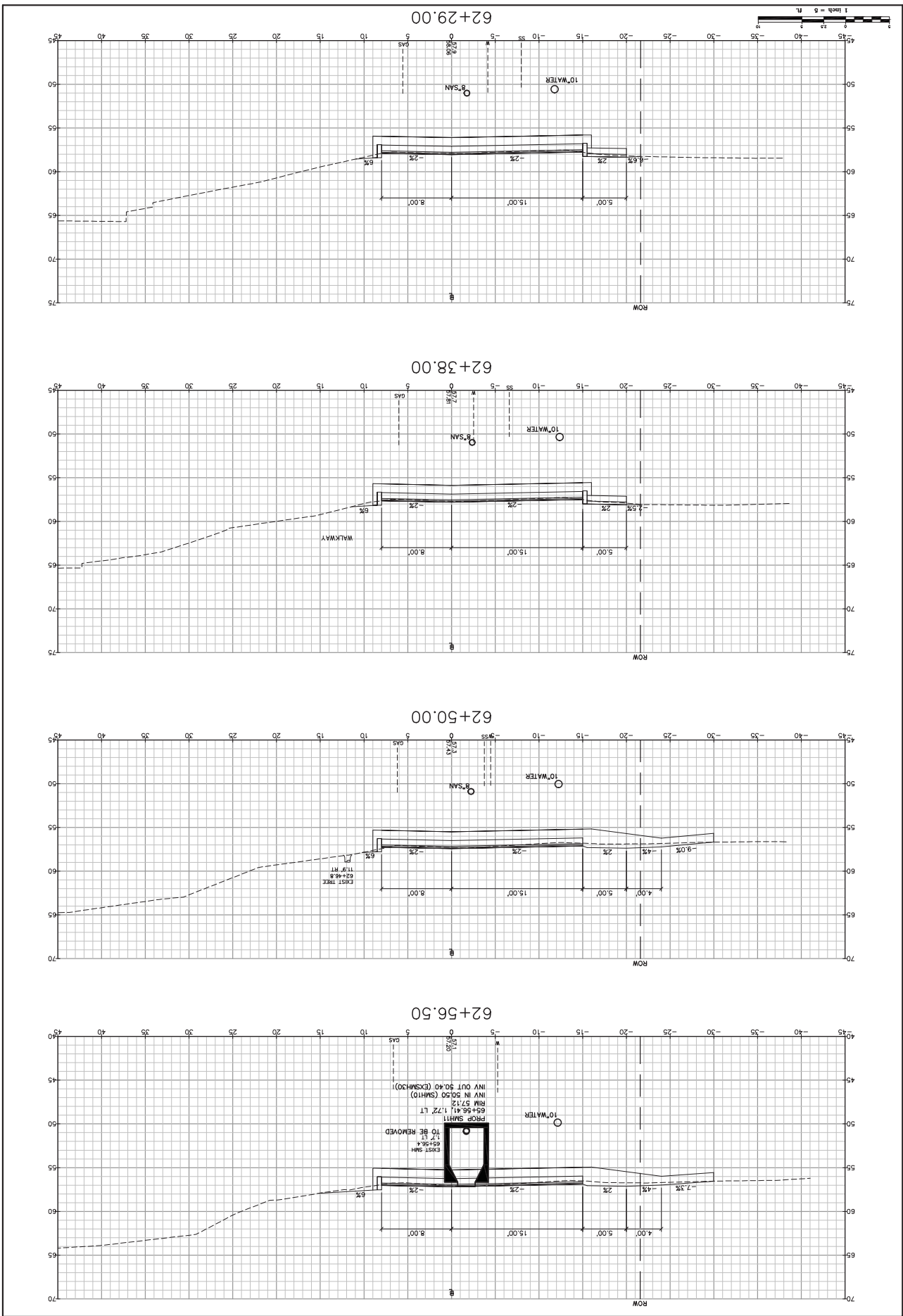


Drawing No. 53

City of Portsmouth
 ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 P.O. Box 1227
 15 Shaker Road
 Gray, ME 04039
 E-Mail: mobil@gorillpalmer.com
 207-657-6910
 Fax: 207-657-6912

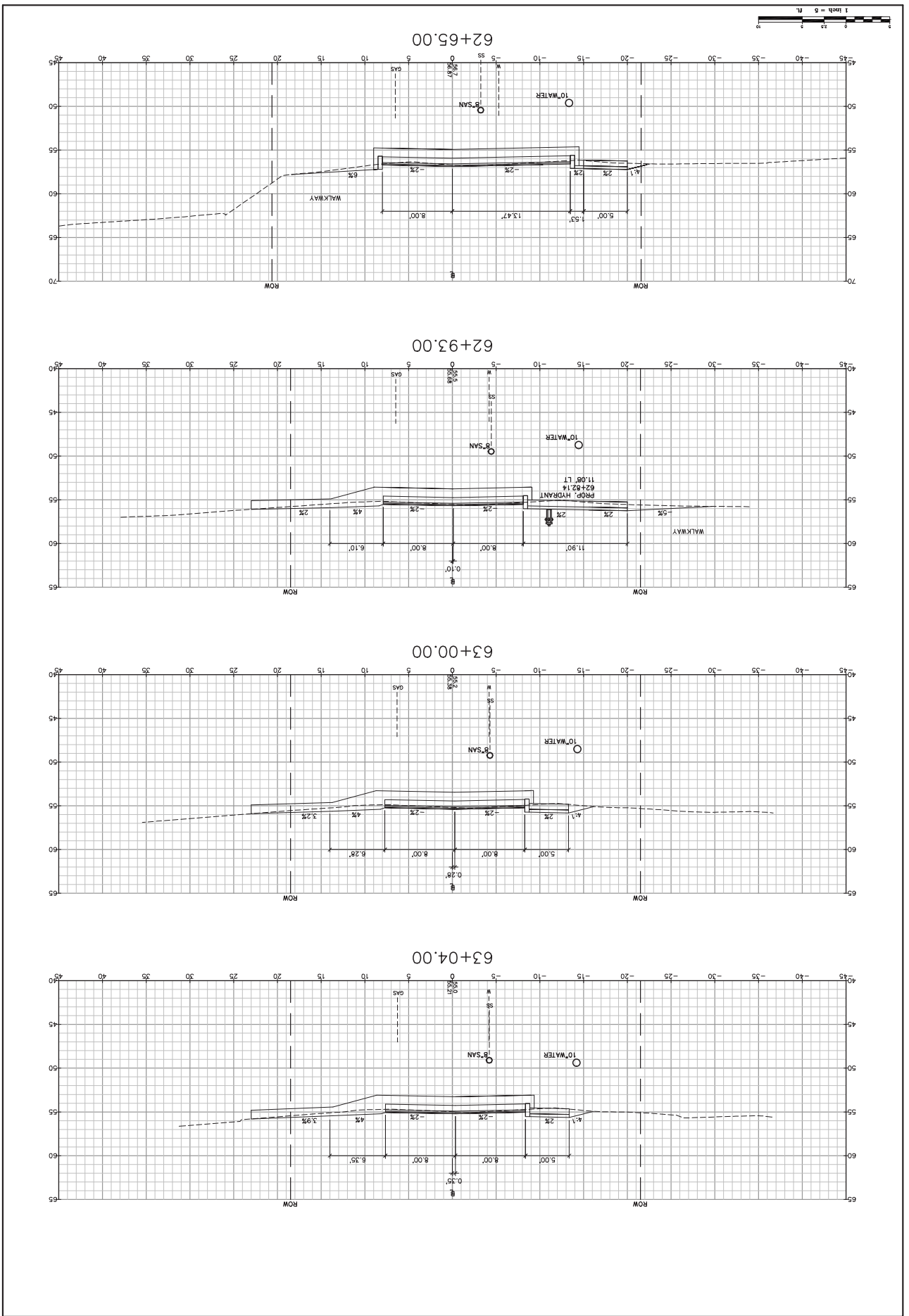
Design: RJB
 Check: TLD
 Scale: 1"=5'
 Job No.: 2165
 Date: MAY 2010
 This plan shall not be modified without written permission from Gorill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, additions or omissions shall be at the user's sole risk and without liability to GPCEI.

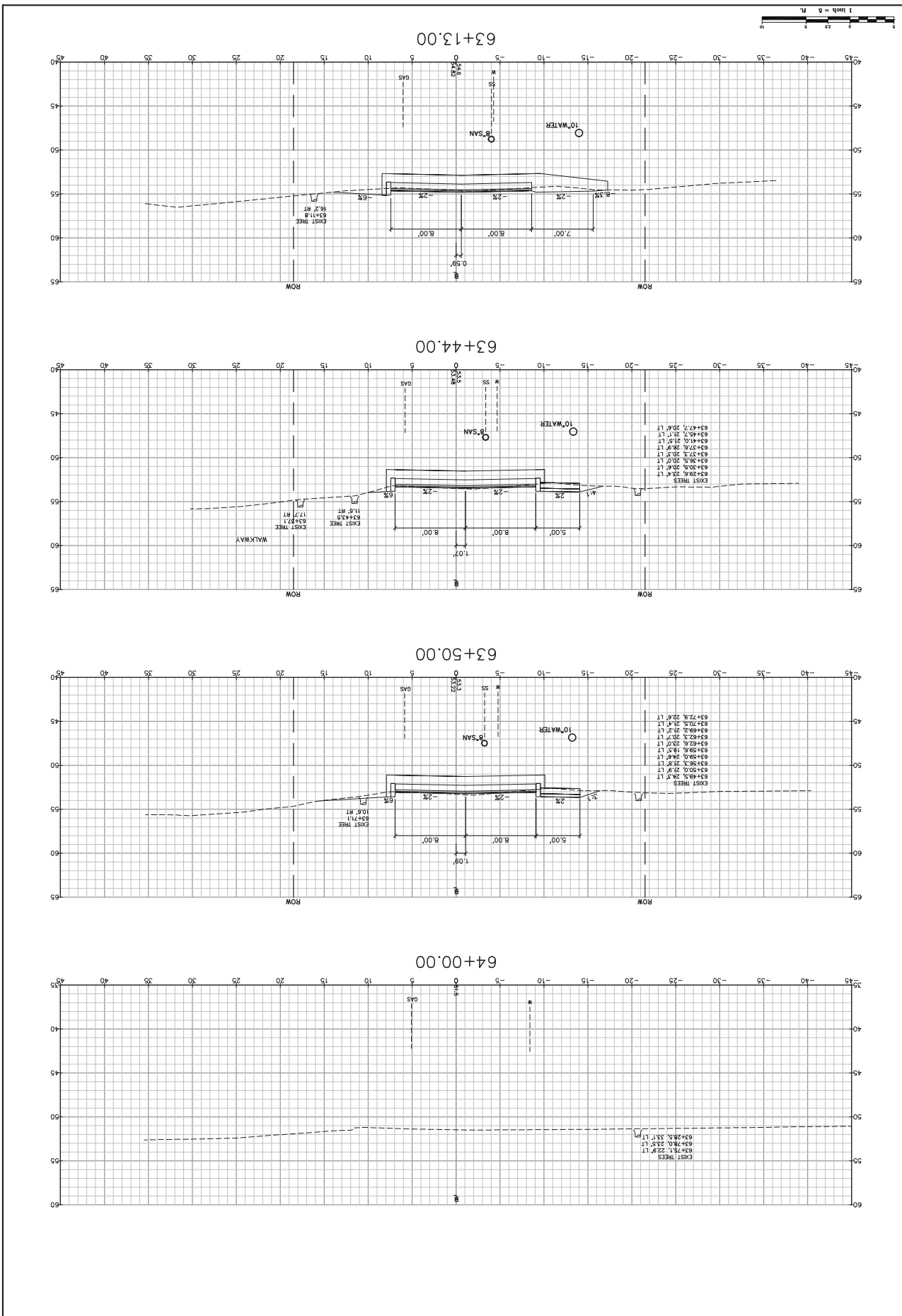
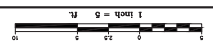


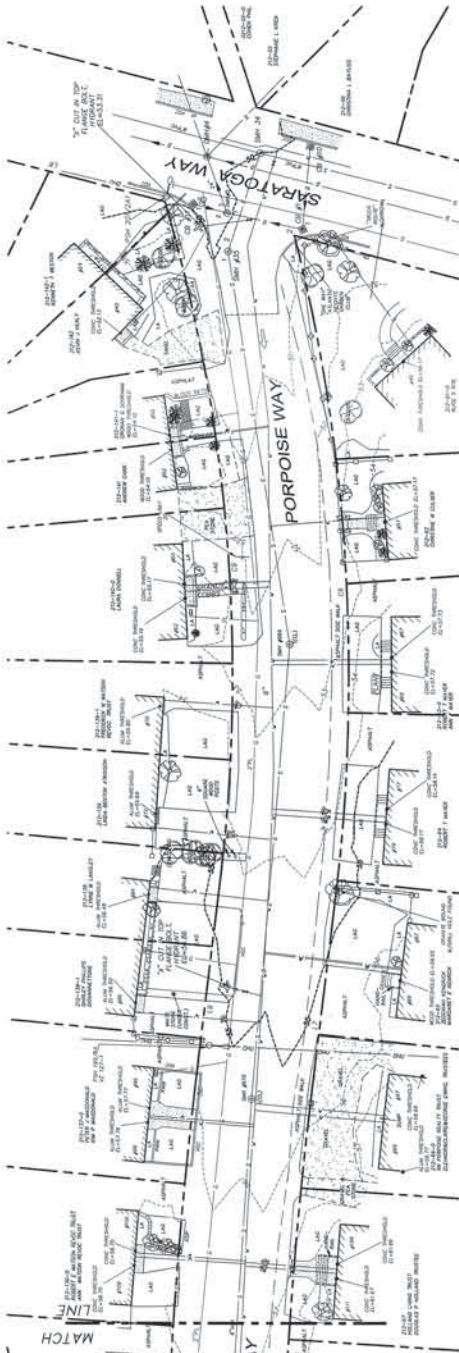
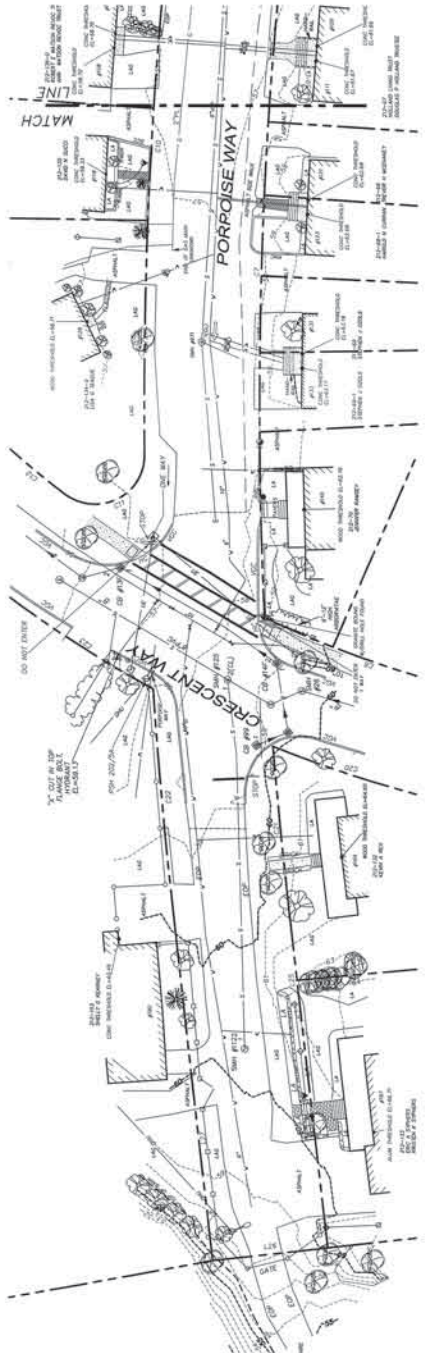
City of Portsmouth
 Project: CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH
 Client: 1 Junkins Avenue, Portsmouth, NH 03802

Gorill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 15 Shaker Road
 Portsmouth, NH 03802
 Phone: 207-657-6910
 Fax: 207-657-6912
 E-Mail: mroblox@gorillpalmer.com

Design: RJB
 Check: TLD
 Scale: 1"=50'
 Date: MAY 2010
 Job No: 2365





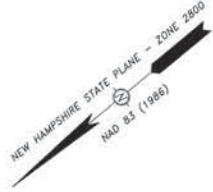


NOTES:

1. EASEMENT HOLDER: CITY OF PORTSMOUTH (SEE NOTE # 2)
ADDRESS: 1 HENNING AVENUE, PORTSMOUTH, NH 03801
PLAN REFERENCE: 23109
2. THE STREETS AND ALLEYS SHOWN HEREIN WERE DEDICATED BY THE ATLANTIC HEIGHTS DEVELOPMENT, INC. AND THE UNITED STATES SHIPPING BOARD EMERGENCY ASSISTANCE CORPORATION AS PUBLIC WAYS BY CERTIFICATIONS ON REFERENCE PLAN NO. 1.
3. THE REALITY ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET.
4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL USEABLE RECORDS AND AS SHOWN ON THE ATTACHED UTILITY RECORDS. INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES SHOULD BE USED IN WRITING, 300-ACC-3487.
5. ALL WATER AND GAS LINES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON RECORDS SUPPLIED BY THE OWNERS OF SAID LINES.
6. VERTICAL DATUM: NAVD 84. BENCHMARKS USED: CITY OF PORTSMOUTH CONTROL MONUMENT "ALBA" - NAD 83 (1983) BENCHMARK USED: CITY OF PORTSMOUTH MONUMENT "ALBA" - NAD 83 (1983) BENCHMARK USED: CITY OF PORTSMOUTH MONUMENT "ALBA" - NAD 83 (1983) COORDINATE SYSTEM: NEW HAMPSHIRE STATE PLANE, ZONE 2800.
7. ALL DISTANCES ARE CHORDS, REFERENCED TO GRID COORDINATE "A".
N=277165.874 E=2221334.429
GROUND TO GRID CORRECTION FACTOR = 1.0003278
8. ALL TBMS OR INGRESS ARE ON THE TOP FLANGE BELT (MARKED WITH CUT AND FILL) AND ARE TO BE MAINTAINED AS SHOWN.
9. ENGINEERS OR CONTRACTORS TO VERIFY TBMS (BENCHMARKS) BY LEADING BETWEEN 2 TBMS PRIOR TO THE SETTING OF ANY GRADES/ELEVATIONS. CONTACT THE SITE SURVEYOR IF DISCREPANCIES ARE FOUND.
10. THIS PLAN IS THE PROPERTY OF JAMES VERRA AND ASSOCIATES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SHOWN HEREON. ANY OTHER USES ARE BASED UPON A FIELD SURVEY BY JAMES VERRA AND ASSOCIATES, INC.
11. THE LINES DEPICTING THE INDIVIDUAL LOT LINES ARE APPROXIMATE ONLY, AND THE INFORMATION IS TO BE PROVIDED BY THE CITY OF PORTSMOUTH PUBLIC WORKS DEPARTMENT.

REFERENCE PLANS:

1. ATLANTIC HEIGHTS DEVELOPMENT, BY THE UNITED STATES SHIPPING BOARD EMERGENCY ASSISTANCE CORPORATION AND THE UNITED STATES SHIPPING BOARD EMERGENCY ASSISTANCE CORPORATION, NEW HAMPSHIRE, PROJECT NO. 1, DATED JAN. 14, 1978, ROAD PLAN 80247.



STREETSCAPE IMPROVEMENTS
CONCORD & PORPOISE WAYS
PORTSMOUTH, NEW HAMPSHIRE
 for **CITY OF PORTSMOUTH**
JAMES VERRA and ASSOCIATES, INC.
 10 SULLYWAY WAY
 PORTSMOUTH, NEW HAMPSHIRE 03801-3938
 TEL: (603) 861-1237
 FAX: (603) 861-1237
 CONSULTANT: JAMES VERRA AND ASSOCIATES, INC.

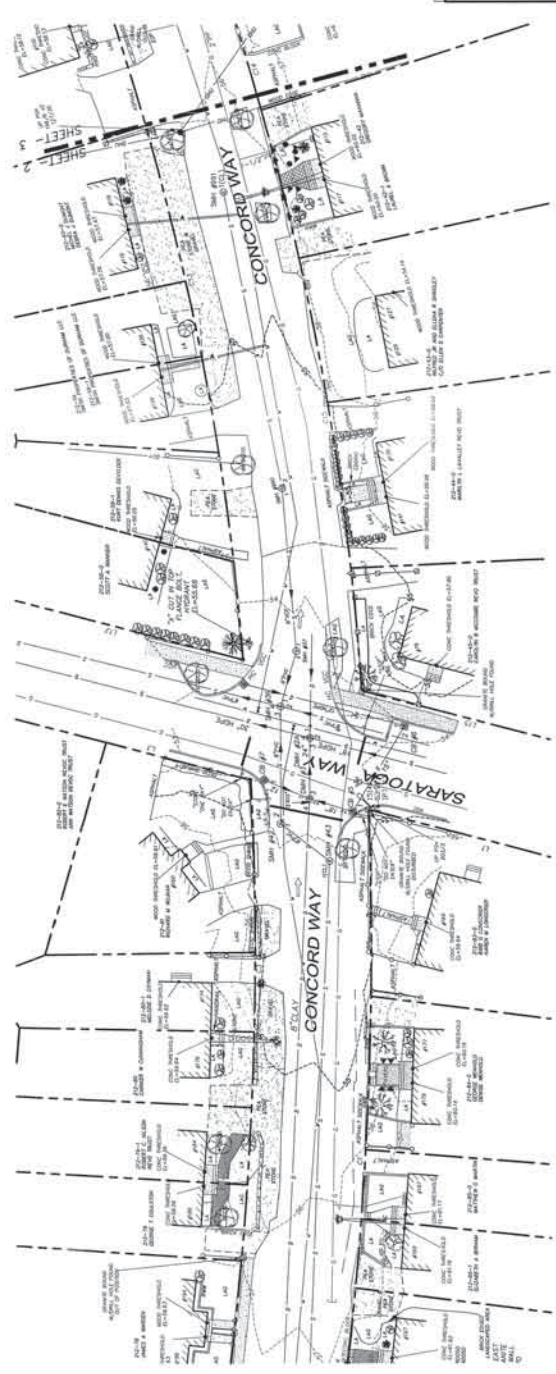
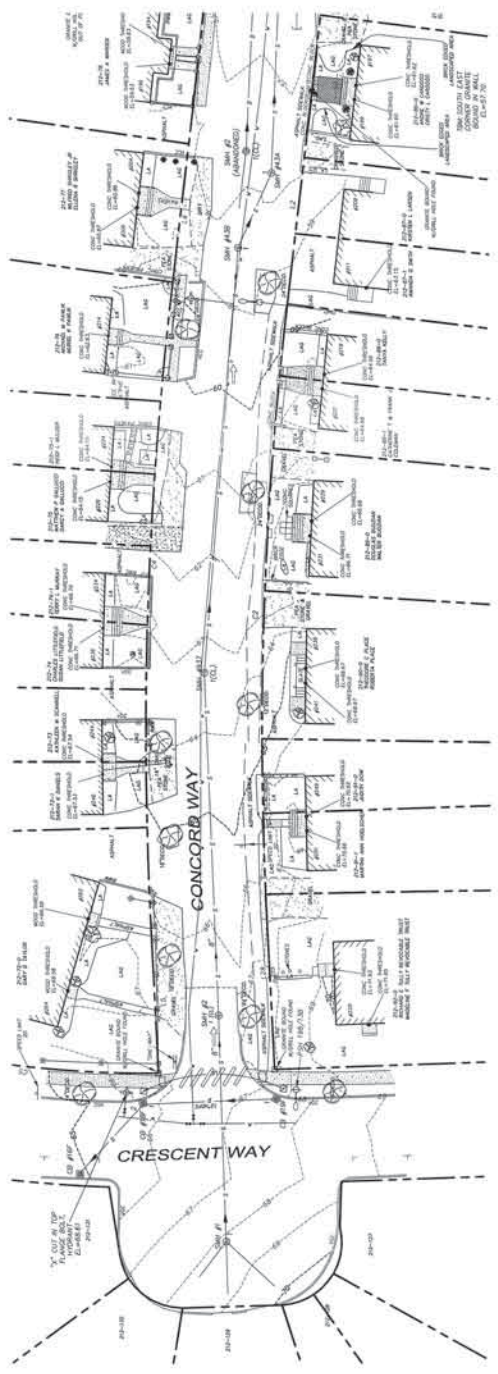
DATE:	04-28-2010
SCALE:	1" = 20'
PROJECT:	CONCORD & PORPOISE WAYS
DATE:	04-28-2010
SCALE:	1" = 20'
PROJECT:	CONCORD & PORPOISE WAYS
DATE:	04-28-2010
SCALE:	1" = 20'
PROJECT:	CONCORD & PORPOISE WAYS
DATE:	04-28-2010
SCALE:	1" = 20'
PROJECT:	CONCORD & PORPOISE WAYS

DATE: 04-28-2010
 SCALE: 1" = 20'
 PROJECT: CONCORD & PORPOISE WAYS
 DATE: 04-28-2010
 SCALE: 1" = 20'
 PROJECT: CONCORD & PORPOISE WAYS
 DATE: 04-28-2010
 SCALE: 1" = 20'
 PROJECT: CONCORD & PORPOISE WAYS
 DATE: 04-28-2010
 SCALE: 1" = 20'
 PROJECT: CONCORD & PORPOISE WAYS

NEW HAMPSHIRE STATE PLANE - ZONE 2800
 NAD 83 (1986)



DATE	04-28-2010
JOB NO.	23309
SCALE	1" = 20'
ENGINEER	JAMES VERRA
PROJECT NAME	STREETScape IMPROVEMENTS CONCORD & PORPOISE WAYS PORTSMOUTH, NEW HAMPSHIRE
CLIENT	CITY OF PORTSMOUTH
PROJECT NO.	23309
SHEET	2 OF 4



STRUCTURES:

SEWER MANHOLES

- SM 1.00' = 48.10
- (1) 15' PNC = 48.10
- (2) 15' PNC = 48.10
- (3) 15' PNC = 48.10
- (4) 15' PNC = 48.10
- (5) 15' PNC = 48.10
- (6) 15' PNC = 48.10
- (7) 15' PNC = 48.10
- (8) 15' PNC = 48.10
- (9) 15' PNC = 48.10
- (10) 15' PNC = 48.10
- (11) 15' PNC = 48.10
- (12) 15' PNC = 48.10
- (13) 15' PNC = 48.10
- (14) 15' PNC = 48.10
- (15) 15' PNC = 48.10
- (16) 15' PNC = 48.10
- (17) 15' PNC = 48.10
- (18) 15' PNC = 48.10
- (19) 15' PNC = 48.10
- (20) 15' PNC = 48.10
- (21) 15' PNC = 48.10
- (22) 15' PNC = 48.10
- (23) 15' PNC = 48.10
- (24) 15' PNC = 48.10
- (25) 15' PNC = 48.10
- (26) 15' PNC = 48.10
- (27) 15' PNC = 48.10
- (28) 15' PNC = 48.10
- (29) 15' PNC = 48.10
- (30) 15' PNC = 48.10
- (31) 15' PNC = 48.10
- (32) 15' PNC = 48.10
- (33) 15' PNC = 48.10
- (34) 15' PNC = 48.10
- (35) 15' PNC = 48.10
- (36) 15' PNC = 48.10
- (37) 15' PNC = 48.10
- (38) 15' PNC = 48.10
- (39) 15' PNC = 48.10
- (40) 15' PNC = 48.10
- (41) 15' PNC = 48.10
- (42) 15' PNC = 48.10
- (43) 15' PNC = 48.10
- (44) 15' PNC = 48.10
- (45) 15' PNC = 48.10
- (46) 15' PNC = 48.10
- (47) 15' PNC = 48.10
- (48) 15' PNC = 48.10
- (49) 15' PNC = 48.10
- (50) 15' PNC = 48.10
- (51) 15' PNC = 48.10
- (52) 15' PNC = 48.10
- (53) 15' PNC = 48.10
- (54) 15' PNC = 48.10
- (55) 15' PNC = 48.10
- (56) 15' PNC = 48.10
- (57) 15' PNC = 48.10
- (58) 15' PNC = 48.10
- (59) 15' PNC = 48.10
- (60) 15' PNC = 48.10
- (61) 15' PNC = 48.10
- (62) 15' PNC = 48.10
- (63) 15' PNC = 48.10
- (64) 15' PNC = 48.10
- (65) 15' PNC = 48.10
- (66) 15' PNC = 48.10
- (67) 15' PNC = 48.10
- (68) 15' PNC = 48.10
- (69) 15' PNC = 48.10
- (70) 15' PNC = 48.10
- (71) 15' PNC = 48.10
- (72) 15' PNC = 48.10
- (73) 15' PNC = 48.10
- (74) 15' PNC = 48.10
- (75) 15' PNC = 48.10
- (76) 15' PNC = 48.10
- (77) 15' PNC = 48.10
- (78) 15' PNC = 48.10
- (79) 15' PNC = 48.10
- (80) 15' PNC = 48.10
- (81) 15' PNC = 48.10
- (82) 15' PNC = 48.10
- (83) 15' PNC = 48.10
- (84) 15' PNC = 48.10
- (85) 15' PNC = 48.10
- (86) 15' PNC = 48.10
- (87) 15' PNC = 48.10
- (88) 15' PNC = 48.10
- (89) 15' PNC = 48.10
- (90) 15' PNC = 48.10
- (91) 15' PNC = 48.10
- (92) 15' PNC = 48.10
- (93) 15' PNC = 48.10
- (94) 15' PNC = 48.10
- (95) 15' PNC = 48.10
- (96) 15' PNC = 48.10
- (97) 15' PNC = 48.10
- (98) 15' PNC = 48.10
- (99) 15' PNC = 48.10
- (100) 15' PNC = 48.10

DRAIN MANHOLES

- SM 1.00' = 48.10
- (1) 15' PNC = 48.10
- (2) 15' PNC = 48.10
- (3) 15' PNC = 48.10
- (4) 15' PNC = 48.10
- (5) 15' PNC = 48.10
- (6) 15' PNC = 48.10
- (7) 15' PNC = 48.10
- (8) 15' PNC = 48.10
- (9) 15' PNC = 48.10
- (10) 15' PNC = 48.10
- (11) 15' PNC = 48.10
- (12) 15' PNC = 48.10
- (13) 15' PNC = 48.10
- (14) 15' PNC = 48.10
- (15) 15' PNC = 48.10
- (16) 15' PNC = 48.10
- (17) 15' PNC = 48.10
- (18) 15' PNC = 48.10
- (19) 15' PNC = 48.10
- (20) 15' PNC = 48.10
- (21) 15' PNC = 48.10
- (22) 15' PNC = 48.10
- (23) 15' PNC = 48.10
- (24) 15' PNC = 48.10
- (25) 15' PNC = 48.10
- (26) 15' PNC = 48.10
- (27) 15' PNC = 48.10
- (28) 15' PNC = 48.10
- (29) 15' PNC = 48.10
- (30) 15' PNC = 48.10
- (31) 15' PNC = 48.10
- (32) 15' PNC = 48.10
- (33) 15' PNC = 48.10
- (34) 15' PNC = 48.10
- (35) 15' PNC = 48.10
- (36) 15' PNC = 48.10
- (37) 15' PNC = 48.10
- (38) 15' PNC = 48.10
- (39) 15' PNC = 48.10
- (40) 15' PNC = 48.10
- (41) 15' PNC = 48.10
- (42) 15' PNC = 48.10
- (43) 15' PNC = 48.10
- (44) 15' PNC = 48.10
- (45) 15' PNC = 48.10
- (46) 15' PNC = 48.10
- (47) 15' PNC = 48.10
- (48) 15' PNC = 48.10
- (49) 15' PNC = 48.10
- (50) 15' PNC = 48.10
- (51) 15' PNC = 48.10
- (52) 15' PNC = 48.10
- (53) 15' PNC = 48.10
- (54) 15' PNC = 48.10
- (55) 15' PNC = 48.10
- (56) 15' PNC = 48.10
- (57) 15' PNC = 48.10
- (58) 15' PNC = 48.10
- (59) 15' PNC = 48.10
- (60) 15' PNC = 48.10
- (61) 15' PNC = 48.10
- (62) 15' PNC = 48.10
- (63) 15' PNC = 48.10
- (64) 15' PNC = 48.10
- (65) 15' PNC = 48.10
- (66) 15' PNC = 48.10
- (67) 15' PNC = 48.10
- (68) 15' PNC = 48.10
- (69) 15' PNC = 48.10
- (70) 15' PNC = 48.10
- (71) 15' PNC = 48.10
- (72) 15' PNC = 48.10
- (73) 15' PNC = 48.10
- (74) 15' PNC = 48.10
- (75) 15' PNC = 48.10
- (76) 15' PNC = 48.10
- (77) 15' PNC = 48.10
- (78) 15' PNC = 48.10
- (79) 15' PNC = 48.10
- (80) 15' PNC = 48.10
- (81) 15' PNC = 48.10
- (82) 15' PNC = 48.10
- (83) 15' PNC = 48.10
- (84) 15' PNC = 48.10
- (85) 15' PNC = 48.10
- (86) 15' PNC = 48.10
- (87) 15' PNC = 48.10
- (88) 15' PNC = 48.10
- (89) 15' PNC = 48.10
- (90) 15' PNC = 48.10
- (91) 15' PNC = 48.10
- (92) 15' PNC = 48.10
- (93) 15' PNC = 48.10
- (94) 15' PNC = 48.10
- (95) 15' PNC = 48.10
- (96) 15' PNC = 48.10
- (97) 15' PNC = 48.10
- (98) 15' PNC = 48.10
- (99) 15' PNC = 48.10
- (100) 15' PNC = 48.10

CATCH BASINS

- CB 1.00' = 50.22
- (1) 15' PNC = 50.22
- (2) 15' PNC = 50.22
- (3) 15' PNC = 50.22
- (4) 15' PNC = 50.22
- (5) 15' PNC = 50.22
- (6) 15' PNC = 50.22
- (7) 15' PNC = 50.22
- (8) 15' PNC = 50.22
- (9) 15' PNC = 50.22
- (10) 15' PNC = 50.22
- (11) 15' PNC = 50.22
- (12) 15' PNC = 50.22
- (13) 15' PNC = 50.22
- (14) 15' PNC = 50.22
- (15) 15' PNC = 50.22
- (16) 15' PNC = 50.22
- (17) 15' PNC = 50.22
- (18) 15' PNC = 50.22
- (19) 15' PNC = 50.22
- (20) 15' PNC = 50.22
- (21) 15' PNC = 50.22
- (22) 15' PNC = 50.22
- (23) 15' PNC = 50.22
- (24) 15' PNC = 50.22
- (25) 15' PNC = 50.22
- (26) 15' PNC = 50.22
- (27) 15' PNC = 50.22
- (28) 15' PNC = 50.22
- (29) 15' PNC = 50.22
- (30) 15' PNC = 50.22
- (31) 15' PNC = 50.22
- (32) 15' PNC = 50.22
- (33) 15' PNC = 50.22
- (34) 15' PNC = 50.22
- (35) 15' PNC = 50.22
- (36) 15' PNC = 50.22
- (37) 15' PNC = 50.22
- (38) 15' PNC = 50.22
- (39) 15' PNC = 50.22
- (40) 15' PNC = 50.22
- (41) 15' PNC = 50.22
- (42) 15' PNC = 50.22
- (43) 15' PNC = 50.22
- (44) 15' PNC = 50.22
- (45) 15' PNC = 50.22
- (46) 15' PNC = 50.22
- (47) 15' PNC = 50.22
- (48) 15' PNC = 50.22
- (49) 15' PNC = 50.22
- (50) 15' PNC = 50.22
- (51) 15' PNC = 50.22
- (52) 15' PNC = 50.22
- (53) 15' PNC = 50.22
- (54) 15' PNC = 50.22
- (55) 15' PNC = 50.22
- (56) 15' PNC = 50.22
- (57) 15' PNC = 50.22
- (58) 15' PNC = 50.22
- (59) 15' PNC = 50.22
- (60) 15' PNC = 50.22
- (61) 15' PNC = 50.22
- (62) 15' PNC = 50.22
- (63) 15' PNC = 50.22
- (64) 15' PNC = 50.22
- (65) 15' PNC = 50.22
- (66) 15' PNC = 50.22
- (67) 15' PNC = 50.22
- (68) 15' PNC = 50.22
- (69) 15' PNC = 50.22
- (70) 15' PNC = 50.22
- (71) 15' PNC = 50.22
- (72) 15' PNC = 50.22
- (73) 15' PNC = 50.22
- (74) 15' PNC = 50.22
- (75) 15' PNC = 50.22
- (76) 15' PNC = 50.22
- (77) 15' PNC = 50.22
- (78) 15' PNC = 50.22
- (79) 15' PNC = 50.22
- (80) 15' PNC = 50.22
- (81) 15' PNC = 50.22
- (82) 15' PNC = 50.22
- (83) 15' PNC = 50.22
- (84) 15' PNC = 50.22
- (85) 15' PNC = 50.22
- (86) 15' PNC = 50.22
- (87) 15' PNC = 50.22
- (88) 15' PNC = 50.22
- (89) 15' PNC = 50.22
- (90) 15' PNC = 50.22
- (91) 15' PNC = 50.22
- (92) 15' PNC = 50.22
- (93) 15' PNC = 50.22
- (94) 15' PNC = 50.22
- (95) 15' PNC = 50.22
- (96) 15' PNC = 50.22
- (97) 15' PNC = 50.22
- (98) 15' PNC = 50.22
- (99) 15' PNC = 50.22
- (100) 15' PNC = 50.22

LEGEND:

- CHAIN LINK FENCE
- POST & RAIL FENCE
- RETAINING WALL
- SEWER MANHOLE
- DRAIN MANHOLE
- HYDRANT
- WATER SHUT OFF VALVE
- GAS METER
- CURB
- UTILITY POLE W/TRANSFORMER
- UTILITY POLE
- ELECTRIC METER
- ELECTRIC BOX
- SEWER LINE
- WATER LINE
- OVERHEAD WIRING
- UNDERGROUND WIRING
- DECIDUOUS TREE
- CONIFEROUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- LIGHT POLE W/ARM
- LANDSCAPED AREA
- LANDSCAPED AREA
- VERTICAL FACED GRANITE CURB
- WOOD TRUSS RETAINING WALL
- CONCRETE RETAINING WALL
- STONE RETAINING WALL
- CONCRETE BLOCK RETAINING WALL
- GRAVEL/DIRT/STONE DRIVE
- ROCK
- GROUND MOUNTED LIGHT
- RESIDENTIAL POLE MOUNTED LIGHT
- LANDSCAPED AREA
- MANICAP ACCESSIBLE

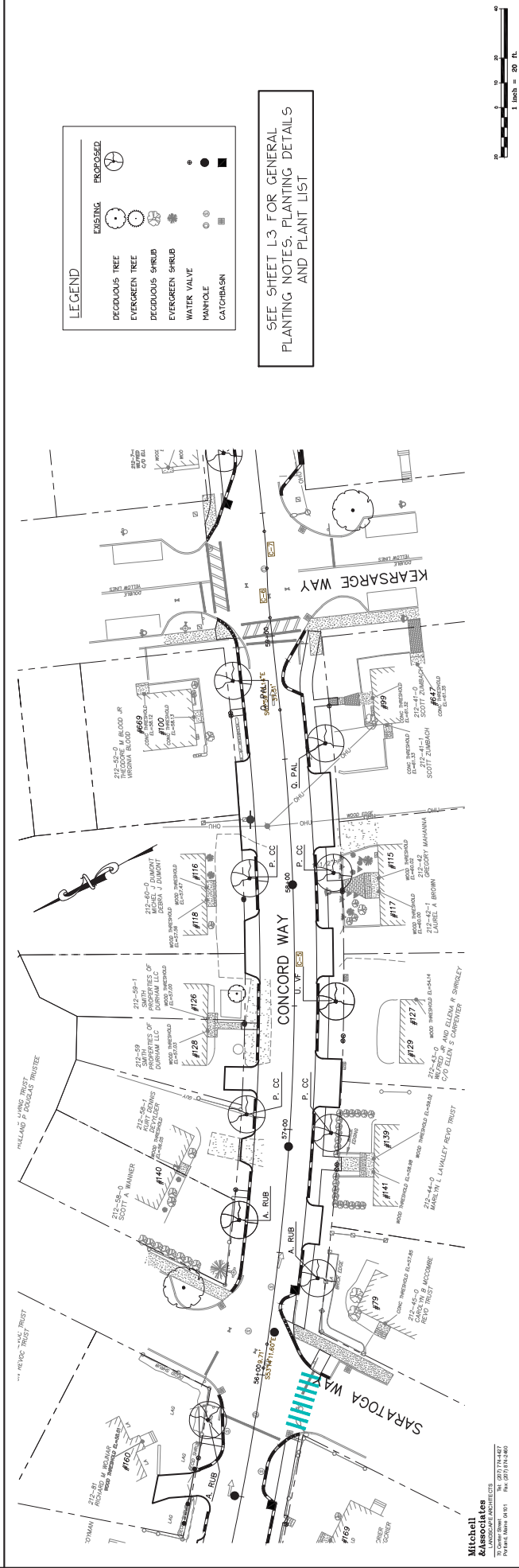
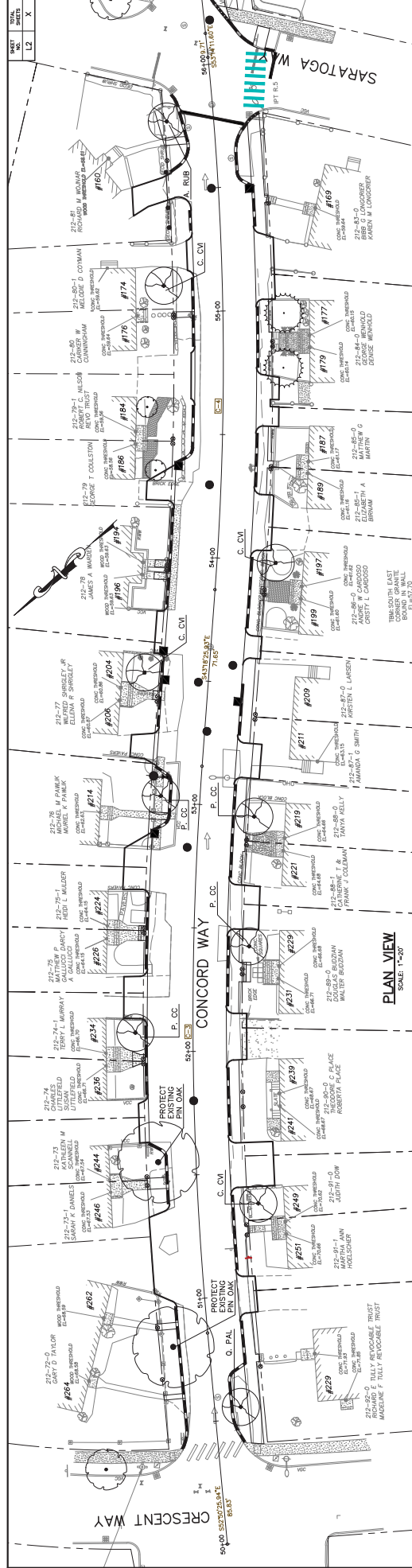
ABBREVIATIONS

- AS (A/C) ASPHALT CONCRETE
- LA LANDSCAPED AREA
- GC GRANITE CURB
- VC VERTICAL FACED GRANITE CURB
- PL PLASTIC
- ST STRUCTURE
- UT UTILITY
- WV WATER VALVE
- WM WATER METER
- WC WATER CURB
- WT WATER TRUSS
- WV WATER VALVE
- WM WATER METER
- WC WATER CURB
- WT WATER TRUSS

LINE & CURVE TABLES

LINE	BEARING	DISTANCE	BEARING	DISTANCE
1	N 85.5247° E	79.20		
2	N 83.9728° E	79.20		
3	S 85.5247° W	51.85		
4	S 83.9728° W	51.85		
5	N 85.5247° E	48.70		
6	N 83.9728° E	48.70		
7	S 85.5247° W	53.00		
8	S 83.9728° W	53.00		
9	N 85.5247° E	74.81		
10	N 83.9728° E	74.81		
11	S 85.5247° W	58.58		
12	S 83.9728° W	58.58		
13	N 85.5247° E	53.22		
14	N 83.9728° E	53.22		
15	S 85.5247° W	23.24		
16	S 83.9728° W	23.24		
17	N 85.5247° E	186.51		
18	N 83.9728° E	186.51		
19	S 85.5247° W	85.97		
20	S 83.9728° W	85.97		
21	N 85.5247° E	48.23		
22	N 83.9728° E	48.23		
23	S 85.5247° W	105.47		
24	S 83.9728° W	105.47		
25	N 85.5247° E	62.54		
26	N 83.9728° E	62.54		
27	S 85.5247° W	2.00		
28	S 83.9728° W	2.00		
29	N 85.5247° E	71.76		
30	N 83.9728° E	71.76		
31	S 85.5247° W	121.38		
32	S 83.9728° W	121.38		
33	N 85.5247° E	122.28		
34	N 83.9728° E	122.28		
35	S 85.5247° W	48.51		
36	S 83.9728° W	48.51		

LINE	BEARING	DISTANCE	BEARING	DISTANCE
37	N 85.5247° E	178.74	N 83.9728° E	178.74
38	S 85.5247° W	218.05	S 83.9728° W	218.05
39	N 85.5247° E	226.56	N 83.9728° E	226.56
40	S 85.5247° W	186.57	S 83.9728° W	186.57
41	N 85.5247° E	201.17	N 83.9728° E	201.17
42	S 85.5247° W	186.57	S 83.9728° W	186.57
43	N 85.5247° E	178.74	N 83.9728° E	178.74
44	S 85.5247° W	218.05	S 83.9728° W	218.05
45	N 85.5247° E	226.56	N 83.9728° E	226.56
46	S 85.5247° W	186.57	S 83.9728° W	186.57
47	N 85.5247° E	201.17	N 83.9728° E	201.17
48	S 85.5247° W	186.57	S 83.9728° W	186.57
49	N 85.5247° E	178.74	N 83.9728° E	178.74
50	S 85.5247° W	218.05	S 83.9728° W	218.05
51	N 85.5247° E	226.56	N 83.9728° E	226.56
52	S 85.5247° W	186.57	S 83.9728° W	186.57
53	N 85.5247° E	201.17	N 83.9728° E	201.17
54	S 85.5247° W	186.57	S 83.9728° W	186.57
55	N 85.5247° E	178.74	N 83.9728° E	178.74
56	S 85.5247° W	218.05	S 83.9728° W	218.05
57	N 85.5247° E	226.56	N 83.9728° E	226.56
58	S 85.5247° W	186.57	S 83.9728° W	186.57
59	N 85.5247° E	201.17	N 83.9728° E	201.17
60	S 85.5247° W	186.57	S 83.9728° W	186.57
61	N 85.5247° E	178.74	N 83.9728° E	178.74
62	S 85.5247° W	218.05	S 83.9728° W	218.05
63	N 85.5247° E	226.56	N 83.9728° E	226.56
64	S 85.5247° W	186.57	S 83.9728° W	186.57
65	N 85.5247° E	201.17	N 83.9728° E	201.17
66	S 85.5247° W	186.57	S 83.9728° W	186.57
67	N 85.5247° E	178.74	N 83.9728° E	178.74
68	S 85.5247° W	218.05	S 83.9728° W	218.05
69	N 85.5247° E	226.56	N 83.9728° E	226.56
70	S 85.5247° W	186.57	S 83.9728° W	186.57
71	N 85.5247° E	201.17	N 83.9728° E	201.17
72	S 85.5247° W	186.57	S 83.9728° W	186.57
73	N 85.5247° E	178.74	N 83.9728° E	178.74
74	S 85.5247° W	218.05	S 83.9728° W	218.05
75	N 85.5247° E	226.56	N 83.9728° E	226.56
76	S 85.5247° W	186.57	S 83.9728° W	186.57
77	N 85.5247° E	201.17	N 83.9728° E	201.17
78	S 85.5247° W	186.57	S 83.9728° W	186.57
79	N 85.5247° E	178.74	N 83.9728° E	178.74
80	S 85.5247° W	218.05	S 83.9728° W	218.05

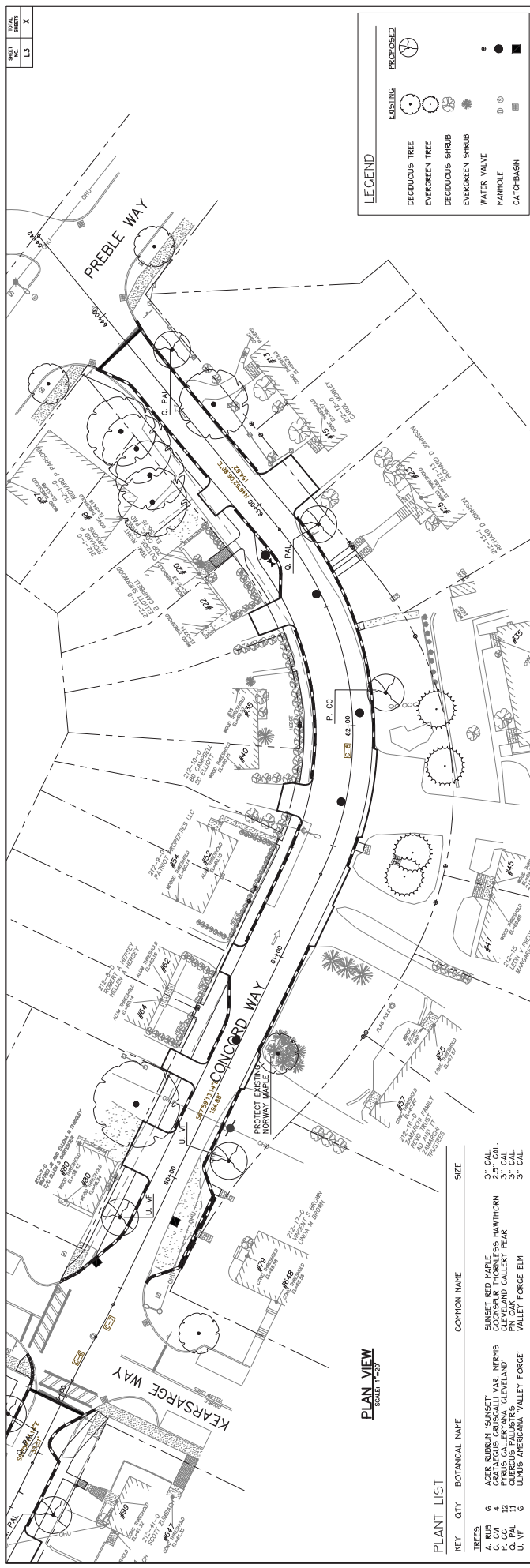


LEGEND

EXISTING	PROPOSED
DECIDUOUS TREE	DECIDUOUS TREE
EVERGREEN TREE	EVERGREEN TREE
DECIDUOUS SHRUB	DECIDUOUS SHRUB
EVERGREEN SHRUB	EVERGREEN SHRUB
WATER VALVE	WATER VALVE
MANHOLE	MANHOLE
CATCHBASIN	CATCHBASIN

SEE SHEET L3 FOR GENERAL PLANTING NOTES, PLANTING DETAILS AND PLANT LIST

<p>Design: RBM Drawn: RBM Date: MAR 2010 Checked: RBM Scale: 1"=20'-0" Project: -</p>		<p>Drawing No. L2</p>																								
<p>Project: ATLANTIC HEIGHTS STREETSCAPE IMPROVEMENTS CONCORD WAY & PORPOISE WAY, PORTSMOUTH, NH</p>		<p>City of Portsmouth 1 Junktions Avenue, Portsmouth, NH 03802</p>																								
<p>Client:</p>		<p>City of Portsmouth 1 Junktions Avenue, Portsmouth, NH 03802</p>																								
<p>GP Gorrill-Palmer Consulting Engineers, Inc. 207-857-8910 15 Shaker Road Portsmouth, NH 03802 E-Mail: mhallo@gorrillpalmer.com</p>																										
<p>This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, use of this plan for other projects, or reproduction of this plan is prohibited without the written consent of GPCEI. GPCEI assumes no liability for any errors or omissions on this plan.</p>																										
<table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>10/09/10</td> <td>RBM</td> </tr> <tr> <td>002</td> <td>9/02/10</td> <td>RBM</td> </tr> <tr> <td>003</td> <td>8/25/10</td> <td>RBM</td> </tr> </tbody> </table>	Rev.	Date	By	001	10/09/10	RBM	002	9/02/10	RBM	003	8/25/10	RBM	<table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Revision</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev.	Date	Revision										<p>Mitchell Associates 75 Oliver Street Portsmouth, NH 03801 Phone: (603) 861-1111 Fax: (603) 784-4660</p>
Rev.	Date	By																								
001	10/09/10	RBM																								
002	9/02/10	RBM																								
003	8/25/10	RBM																								
Rev.	Date	Revision																								



HEET	SHEET	DATE	BY
L3	L3	X	

LEGEND

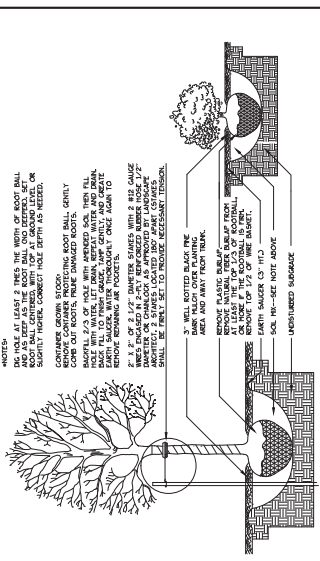
	DECIDUOUS TREE		PROPOSED
	EVERGREEN TREE		EXISTING
	DECIDUOUS SHRUB		WATER VALVE
	EVERGREEN SHRUB		MANHOLE
	CATCHBASIN		

PLANT LIST
SCALE: 1/8"=1'-0"

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
TREES	6	WEST BERRY HAWK		3" CAL.
A	RUB	CASTANEA SATIVA	COARSE LEAF BUCKLE	2.5" CAL.
P	CC	PRUNUS GALLERIANA	CLEVELAND GALLERY PEAR	3" CAL.
U	VAL	UNUS AMERICANA	VALLEY FORGE ELM	3" CAL.

GENERAL PLANTING NOTES

- DESIGN BASED ON DRAWINGS BY GORRILL-PALMER CONSULTING ENGINEERS. ALL PLANTS TO BE PLANTED SHALL BE ADJUSTED TO THE ACTUAL FIELD CONDITIONS.
- CALL THE SALES REPRESENTATIVE FOR THE PLANTS TO BE PLANTED. THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF UNDERGROUND UTILITIES AND SHALL VERIFY THE RESPECTIVE UTILITIES PRIOR TO CONSTRUCTION AND DIGGING OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- LOCATION, SUPPORT, PROTECTION AND RESTORATION OR REPAIR OF ALL EXISTING UTILITIES INSTALLED FOR THE CONSTRUCTION OF PROJECTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL REPORT UTILITY OR OTHER SITE CONDITIONS TO PROVIDE SUFFICIENT INFORMATION TO LANDSCAPE MATERIAL SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS PRIOR TO CONSTRUCTION BIDDING.
- DO NOT SCALE FROM DRAWINGS. ANY OMISSIONS IN DIMENSIONING SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES BETWEEN DIMENSIONS, DETAILS, NOTES AND LAYOUT AND/OR GRADY RELATIONSHIPS PRIOR TO CONSTRUCTION.
- PROVIDE SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING CONDITIONS.
- CONTRACTOR SHALL FURNISH AND PLACE A MATURE OF 75% SHRUB BEDS, 30" APARTS IN ALL TREE FITS, AND 6" APARTS UNDER ALL TURF AREAS, OR OTHER AREAS WHICH HAVE BEEN EXPOSED TO SOIL EROSION OR FOR WHICH THE CONTRACTOR SHALL PROVIDE SLOPE PROTECTION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
- ALL GRASS, OTHER VEGETATION AND DEMERS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
- CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS SHOWN ON THE DRAWINGS AND LISTED THEREON. ALL CONDITIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED. MULCH NOT LARGER THAN 4" IN LENGTH AND 3" IN WIDTH. MULCH FREE OF WOODCHIPS, SANDWUST AND OTHER DEBRIS. MULCH TO BE APPLIED TO ALL PLANTING AREAS. MULCH TO BE APPLIED IN A 9" FOOT DIAMETER RINGHAT SAUCER, AND KEEPING MULCH AWAY FROM THE TREE TRUNK.
- ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY, OR CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY'S REPRESENTATIVE PRIOR TO INSTALLATION ON SITE.
- CITY IS SOLELY RESPONSIBLE FOR MAINTAINING VEGETABLES AND PERENNIALS WITHIN THE PLANTING AREAS. THE CITY'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR MAINTAINING VEGETATION ONCE THE PLANTINGS HAVE BEEN APPROVED AND ACCEPTED.
- CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
- ALL TREES AND SHRUB BEDS SHALL BE MULCHED WITH MULCH NOT LARGER THAN 4" IN LENGTH AND 3" IN WIDTH. MULCH FREE OF WOODCHIPS, SANDWUST AND OTHER DEBRIS. MULCH TO BE APPLIED TO ALL PLANTING AREAS. MULCH TO BE APPLIED IN A 9" FOOT DIAMETER RINGHAT SAUCER, AND KEEPING MULCH AWAY FROM THE TREE TRUNK.
- ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS: THE SOIL SHALL BE FERTILIZED PRIOR TO PLANTING. FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE FROM THE OWNER.
- CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
- ALL TREES AND SHRUB BEDS SHALL BE MULCHED WITH MULCH NOT LARGER THAN 4" IN LENGTH AND 3" IN WIDTH. MULCH FREE OF WOODCHIPS, SANDWUST AND OTHER DEBRIS. MULCH TO BE APPLIED TO ALL PLANTING AREAS. MULCH TO BE APPLIED IN A 9" FOOT DIAMETER RINGHAT SAUCER, AND KEEPING MULCH AWAY FROM THE TREE TRUNK.
- ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY, OR CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY'S REPRESENTATIVE PRIOR TO INSTALLATION ON SITE.
- CITY IS SOLELY RESPONSIBLE FOR MAINTAINING VEGETABLES AND PERENNIALS WITHIN THE PLANTING AREAS. THE CITY'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR MAINTAINING VEGETATION ONCE THE PLANTINGS HAVE BEEN APPROVED AND ACCEPTED.



Street Name: Streetscape Planting Plan – Concord Way – 2

Project: ATLANTIC HEIGHTS STREET SCAPES IMPROVEMENTS

CONCORD WAY & PORPHE WAY, PORTSMOUTH, NH

City of Portsmouth

1. Jinkins Avenue, Portsmouth, NH 03802

GP Gorrill-Palmer Consulting Engineers, Inc.

Engineering Excellence Since 1998

PO Box 1337 207-657-8912
15 Shover Road FAX: 207-657-8912
Groby, NH 04939 E-Mail: mitchell@gorrillpalmer.com

Design: RBM	Date: 04 MAR 2010
Checked: T-2527	Job No: 2585
This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc. (GPCEI). Any alterations, deletions or additions shall be the user's sole risk and without liability to GPCEI.	

95% FINAL PLAN	10/08/10	RBM
DRAFT FINAL PLAN	9/02/10	RBM
50% SUBMISSION	6/25/10	RBM

Rev.	Date	Revision	Date	By
1/06/11		ALIGNMENT-CONCORD ST AT PREBLE WAY		