

R.I. DEM WETLANDS PRELIMINARY DETERMINATION SUBMISSION

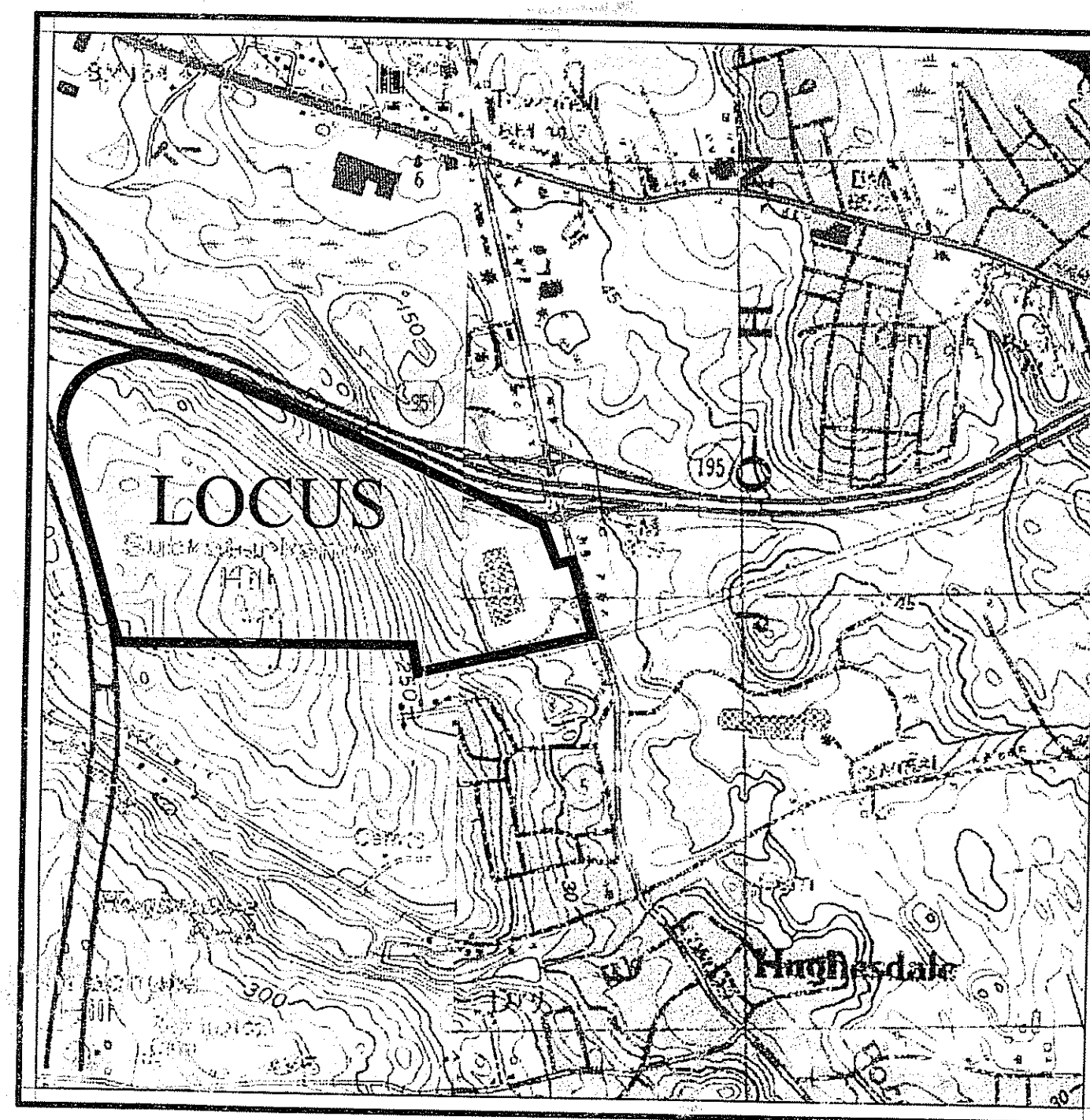
FOR

STONEHILL MARKETPLACE PHASE 3

SITUATED ON:

A.P. 44/4, LOT 66
ROUTE 6/195

JOHNSTON, RHODE ISLAND



LOCUS MAP

SCALE: 1"=1000'

APPLICANT/OWNER:
195 ASSOCIATES, LLC
1414 ATWOOD AVENUE
JOHNSTON, RI 02919

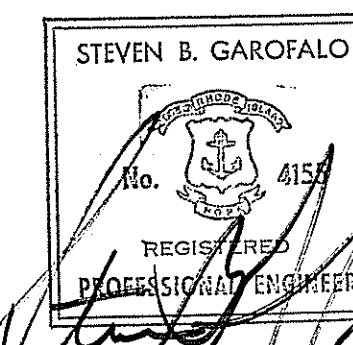
PREPARED BY:

GAROFALO

GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

P.O. BOX 6145
85 CORLISS STREET
PROVIDENCE, R.I. 02940
TEL. 401-273-6000
JOB NUMBER: 5570-07

FEBRUARY 12, 2009



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C706	SITE DETAILS - PLAN 6	2-12-09
C707	SITE DETAILS - PLAN 7	2-12-09
C708	SITE DETAILS - PLAN 8	2-12-09
C709	SITE DETAILS - PLAN 9	2-12-09

PROJECT TEAM:

OWNER/DEVELOPER

195 ASSOCIATES, LLC
1414 ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
(401) 273-6800
ATTN: MR. KELLEY COATES
SENIOR VICE PRESIDENT

SURVEYOR, CIVIL ENGINEER,

TRAFFIC ENGINEER

GAROFALO & ASSOCIATES, INC.
85 CORLISS STREET, P.O. BOX 6145
PROVIDENCE, RHODE ISLAND
(401) 273-6000
ATTN: MR. SAMUEL WHITE, P.L.S. (SURVEYOR)
ATTN: MR. STEVEN GAROFALO, P.E.

GEOTECHNICAL/ENVIRONMENTAL

GZA GEO ENVIRONMENTAL
140 BROADWAY
PROVIDENCE, RHODE ISLAND
(401) 421-4140

WETLANDS

ECOLOGICAL ASSOCIATES
44 WOODLAND AVENUE
NORTH KINGSTON, RHODE ISLAND
(401) 884-3656

UTILITY AGENCIES:

WATER COMPANY

PROVIDENCE WATER SUPPLY BOARD

SEWER COMPANY

NARRAGANSETT BAY COMMISSION
ONE SERVICE ROAD
PROVIDENCE, RHODE ISLAND
(401) 461-8848, EXT. 348

GAS COMPANY

NATIONAL GRID
100 WEYBOSSET STREET
PROVIDENCE, RHODE ISLAND
(401) 272-5040, EXT. 5682

ELECTRIC COMPANY

NATIONAL GRID
280 MELROSE STREET
PROVIDENCE, RHODE ISLAND
(401) 784-7412

CABLE COMPANY

COX COMMUNICATIONS
1320 EDDIE DOWLING HIGHWAY
LINCOLN, RHODE ISLAND
(401) 383-2283

PERMITTING AGENCIES:

JOHNSTON TOWN HALL

1385 HARTFORD AVENUE
JOHNSTON, RHODE ISLAND
(401) 553-8800

TOWN OF JOHNSTON

100 IRONS AVENUE
JOHNSTON, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 PROMENADE STREET
PROVIDENCE, RHODE ISLAND
(401) 222-6820

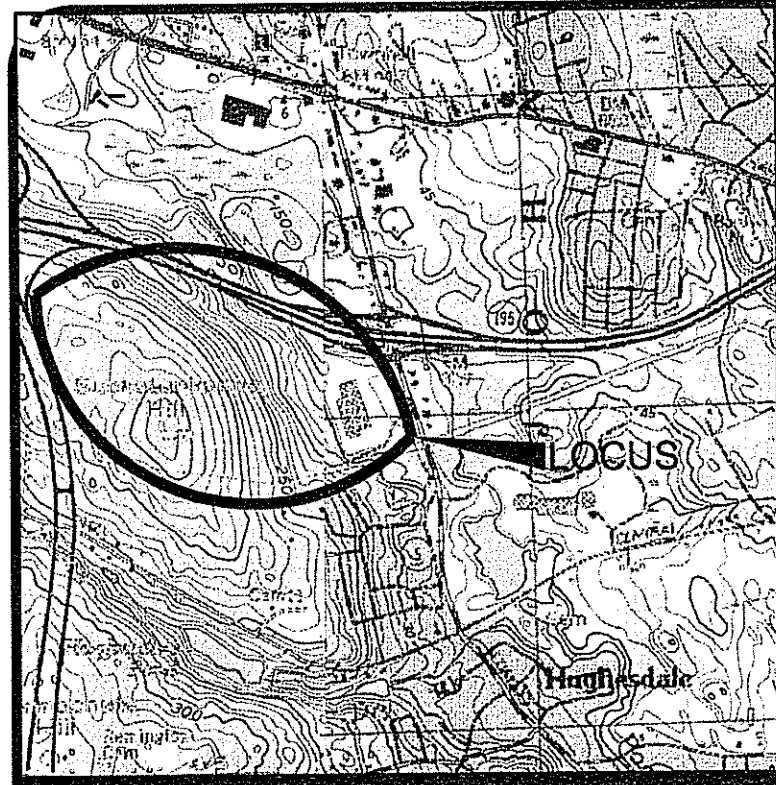
FIRE ALARM AND FIRE DEPARTMENT

JOHNSTON FIRE DEPARTMENT
1520 ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
(401) 351-1600

TELEPHONE COMPANY

VERIZON
85 HIGH STREET, FLOOR 1
PAWTUCKET, RHODE ISLAND
(401) 525-3030

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 08-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



LOCUS MAP
NOT TO SCALE

LEGEND	
	Locus Property Line
	Abutter's Property Line
	Right of Way (R.O.W.) Easement
	Stone Wall
	Monument (found/set)
	Iron Rod/Pipe (found/set)
	P.K. Nail (found/set)

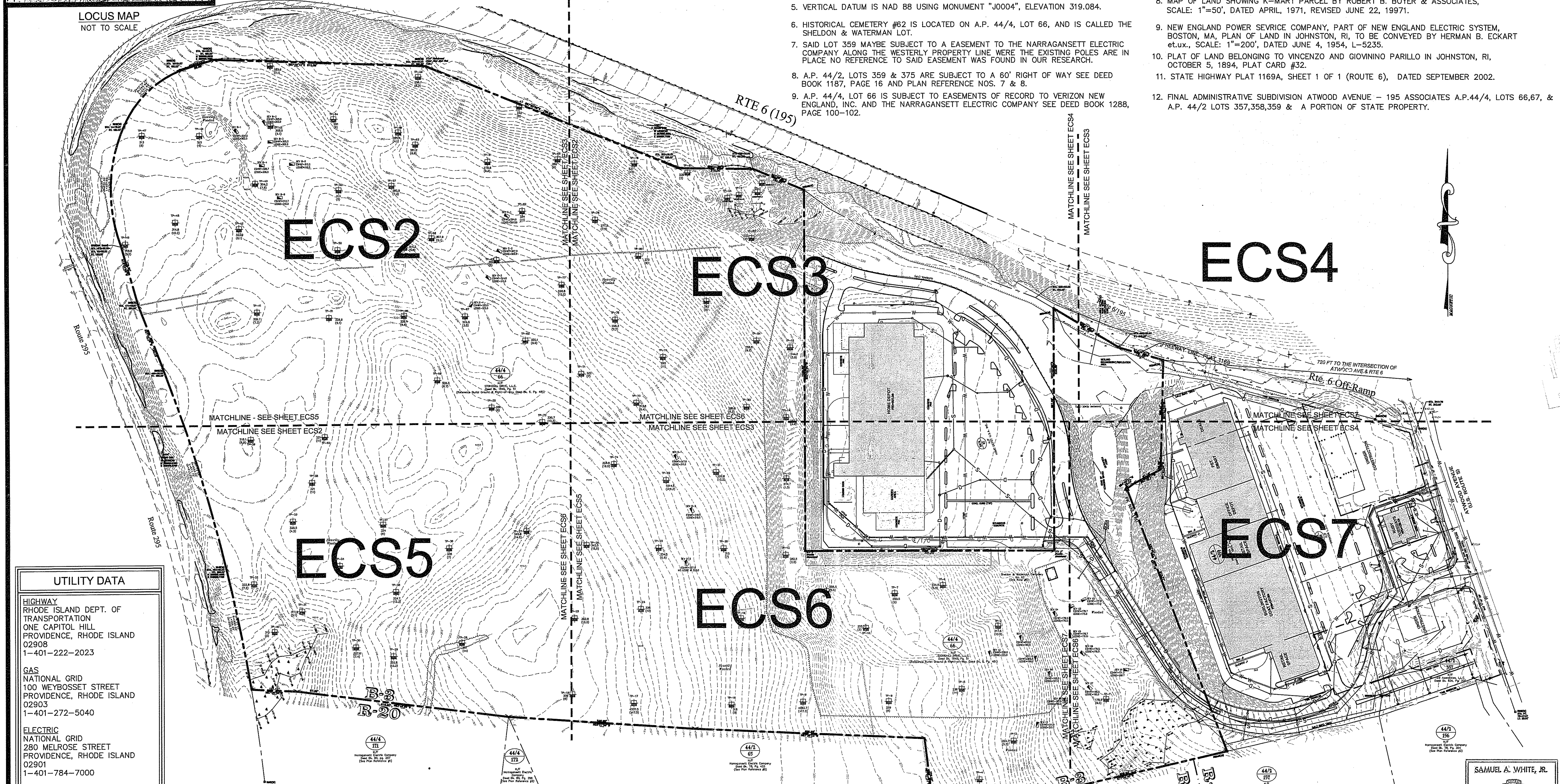
LEGEND	
	DRAIN LINE
	WATER LINE
	SEWER LINE
	GAS LINE
	ELECTRIC/TELEPHONE/CABLE LINE
	1' CONTOUR
	TREE LINE
	CHAIN LINK FENCE
	GUARDRAIL
	DRAIN MANHOLE
	CATCH BASIN
	SEWER MANHOLE
	UTILITY POLE
	FIRE HYDRANT
	WATER GATE
	ZONING DISTRICT BOUNDARY LINE
	WETLAND BOUNDARY w/FLAGS
	LIGHTPOST
	FLOODLIGHT

NOTES:

- PLAT 44/2, LOT 359 IS SUBJECT TO A 60' RIGHT-OF-WAY AND A 20' EASEMENT FOR BENEFIT OF MARY S. THORTEN et al., HER SUCCESSORS AND ASSIGNS FOR THE PRIVILEGE TO PASS AND REPASS BY USUAL WAY TO BURIAL GROUNDS, SEE DEED BK. 6, PG. 481.
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION @ 1-888-344-7233).
- THE PROJECT IS LOCATED WITHIN FLOOD ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN) AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE TOWN OF JOHNSTON, RHODE ISLAND, PROVIDENCE COUNTY, COMMUNITY PANEL NO. 440018-0020C, HAVING AN EFFECTIVE DATE OF NOVEMBER 17, 1993.
- HORIZONTAL DATUM IS IN NAD 83 USING MONUMENTS "J0004" & "J0011".
- VERTICAL DATUM IS NAD 88 USING MONUMENT "J0004", ELEVATION 319.084.
- HISTORICAL CEMETERY #62 IS LOCATED ON A.P. 44/4, LOT 66, AND IS CALLED THE SHELDON & WATERMAN LOT.
- SAID LOT 359 MAYBE SUBJECT TO AN EASEMENT TO THE NARRAGANSETT ELECTRIC COMPANY ALONG THE WESTERLY PROPERTY LINE WERE THE EXISTING POLES ARE IN PLACE NO REFERENCE TO SAID EASEMENT WAS FOUND IN OUR RESEARCH.
- A.P. 44/2, LOTS 359 & 375 ARE SUBJECT TO A 60' RIGHT OF WAY SEE DEED BOOK 1187, PAGE 16 AND PLAN REFERENCE NOS. 7 & 8.
- A.P. 44/4, LOT 66 IS SUBJECT TO EASEMENTS OF RECORD TO VERIZON NEW ENGLAND, INC. AND THE NARRAGANSETT ELECTRIC COMPANY SEE DEED BOOK 1288, PAGE 100-102.

REFERENCES:

- NEW ENGLAND POWER SERVICES COMPANY PLAN SHOWING LAND IN JOHNSTON, RHODE ISLAND TO BE CONVEYED TO MARY VOLPE TO THE NARRAGANSETT ELECTRIC COMPANY, SCALE: 1"=200', DATED JANUARY 19, 1955, L-5381.
- NEW ENGLAND POWER SERVICE COMPANY PLAN SHOWING LAND IN JOHNSTON, RHODE ISLAND TO BE CONVEYED BY GEORGE FERRANTE et.ux., SCALE: 1"=50', DATED MAY 12, 1954, L-5221.
- NEW ENGLAND POWER SERVICE COMPANY PLAN SHOWING LAND IN JOHNSTON, RHODE ISLAND TO BE CONVEYED BY CHARLES H. WOOD, et.ux., SCALE: 1"=100', DATED JANUARY 20, 1955, L-5389.
- STATE HIGHWAY PLAT 1443, SHEETS 5-7 OF 12 (ROUTE 295) DATED APRIL 1970.
- STATE HIGHWAY PLAT 1169, SHEETS 7 & 8 OF 14 (ROUTE 6) DATED OCTOBER 1961.
- STATE HIGHWAY PLAT 1075, SHEET 8 OF 10 (ROUTE 5, ATWOOD AVE.) DATED OCTOBER 1958.
- ALTA/ACSM PLAN OF LAND IN JOHNSTON, RHODE ISLAND, BY GUERRIERE & HALNON, INC., DATED AUGUST 12, 1997, SCALE: 1"=50'.
- MAP OF LAND SHOWING K-MART PARCEL BY ROBERT B. BOYER & ASSOCIATES, SCALE: 1"=50', DATED APRIL, 1971, REVISED JUNE 22, 1997.
- NEW ENGLAND POWER SERVICE COMPANY, PART OF NEW ENGLAND ELECTRIC SYSTEM, BOSTON, MA, PLAN OF LAND IN JOHNSTON, RI, TO BE CONVEYED BY HERMAN B. ECKART et.ux., SCALE: 1"=200', DATED JUNE 4, 1954, L-5235.
- PLAT OF LAND BELONGING TO VINCENZO AND GIOVINNO PARILLO IN JOHNSTON, RI, OCTOBER 5, 1894, PLAT CARD #32.
- STATE HIGHWAY PLAT 1169A, SHEET 1 OF 1 (ROUTE 6), DATED SEPTEMBER 2002.
- FINAL ADMINISTRATIVE SUBDIVISION ATWOOD AVENUE - 195 ASSOCIATES A.P.44/4, LOTS 66,67, & A.P. 44/2 LOTS 357,358,359 & A PORTION OF STATE PROPERTY.

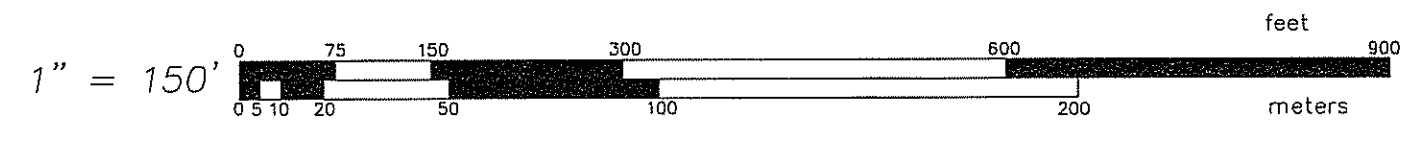


UTILITY DATA	
HIGHWAY	RHODE ISLAND DEPT. OF TRANSPORTATION ONE CAPITOL HILL PROVIDENCE, RHODE ISLAND 02908 1-401-222-2023
GAS	NATIONAL GRID 100 WEYBOSSET STREET PROVIDENCE, RHODE ISLAND 02903 1-401-272-5040
ELECTRIC	NATIONAL GRID 280 MELROSE STREET PROVIDENCE, RHODE ISLAND 02901 1-401-784-7000
TELEPHONE	VERIZON NEW ENGLAND 185 FRANKLIN STREET BOSTON, MASSACHUSETTS 02107 1-800-941-9900
WATER	PWSB and JOHNSTON WATER DEPARTMENT 1385 HARTFORD AVENUE JOHNSTON, RHODE ISLAND 02919 1-401-351-1760
SEWER	NBC
DRAINAGE	PRIVATE

STREET INDEX	
U.S. ROUTE 6 (a.k.a. ROUTE 195)	
ATWOOD AVENUE (R.I. ROUTE 5)	
INTERSTATE ROUTE 295	

PARCEL DATA	
A.P. 44/4, LOT 66	N/F
STONEHILL DRIVE, L.L.C.	DEED BK. 1845, PG. 51
STONE HILL ROAD	JOHNSTON, RHODE ISLAND
LOT AREA:	4,061,133 S.F.± OR 93.23 Ac.±

ZONING DATA	
ZONING DISTRICT (B-3)	(INTERCHANGE BUSINESS DISTRICT)
MIN. LOT AREA = NONE	MIN. LOT FRONTAGE = 500'
SETBACKS:	
FRONT - 0'	SIDE - 0'
REAR - 0'	MAX. BLDG. HEIGHT - 70'
MAX. BLDG. COVERAGE - 40%	MIN. DISTANCE OF STRUCTURE FROM RESIDENTIAL ZONE - 200'
*REFER TO TOWN OF JOHNSTON ZONING ORDINANCE FOR FURTHER INFORMATION.	



OVERALL ALTA/ACSM
Land Title Survey w/Topography

FOR
A.P. 44/4, Lot 66

SITUATED ON
Stone Hill Road
Johnston, Rhode Island

PREPARED FOR
195 Associates, L.L.C.

FEB 16 2009

NO.	REVISION	BY	DATE
1	WETFLAGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
3	WETFLAGS G1-G7 & SEV	SW	02-12-09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

86 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
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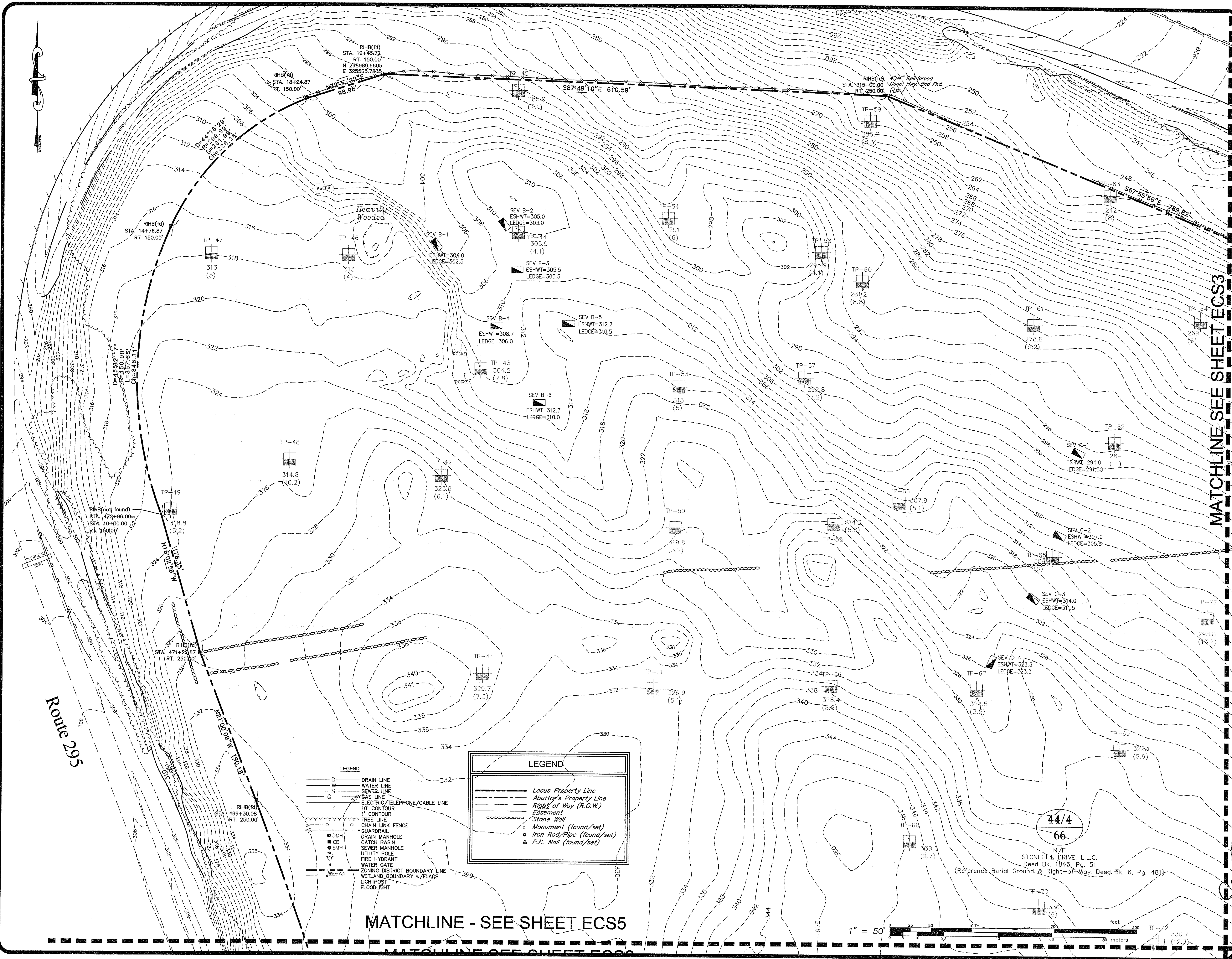
JOB NO. 5570-07	DRAWN BY M.J.C.
DWG. NO. 887A-ECS	CHECKED S.A.W.
APPROVED SAMUEL A. WHITE, JR. PROFESSIONAL LAND SURVEYOR	APPROVED STATE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM, 2006 AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAR 18 2009 FILE # DR-0099 CHANGES ALLOWED WITHOUT PRIOR APPROVAL PROVED PLANS MUST BE AT CONSTRUCTION SITE

ECS1

2 OF 39 SHEETS

CERTIFICATION:
THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
BOUNDARY SURVEY - CLASS I
TOPOGRAPHIC SURVEY - CLASS III

BY: *Samuel A. White, Jr.* 1781
PROFESSIONAL LAND SURVEYOR REG. NO. DATE

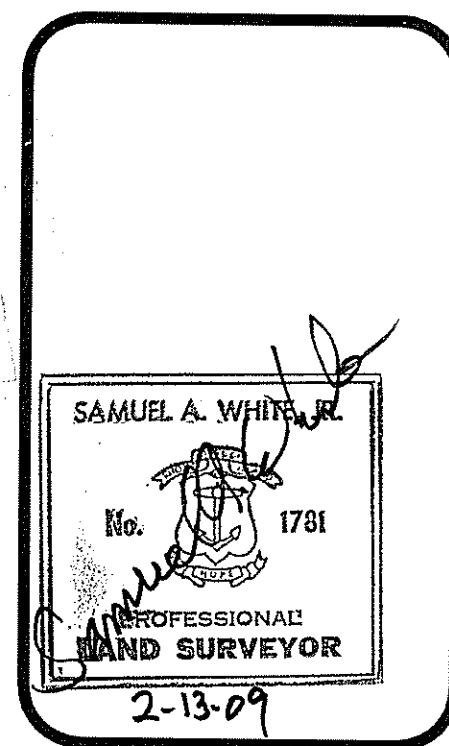


MATCHLINE SEE SHEET ECS3

MATCHLINE - SEE SHEET ECS5

ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
195 Associates, L.I.C.

NO.	REVISION	BY	DATE
1	WEIPLAGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
3	WEIPLAGS G1-G7 & SEV	SW	02-12-09



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85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07
DWG. NO. 5570-ECS
SCALE: AS SHOWN
DRAWN BY M.J.C.
CHECKED S.A.W.
APPROVED S.A.W.
STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES DIVISION
FRESHWATER WETLANDS PROGRAM
APPROVED AND SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 08-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED AND SPECIFIED IN THE LETTER OF APPROVAL

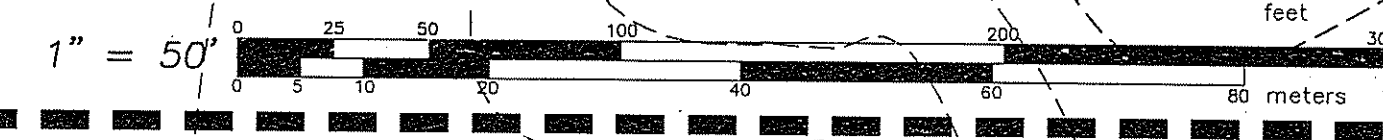
ECS2
3 OF 39 SHEETS

LEGEND

- DRAIN LINE
- WATER LINE
- SEWER LINE
- GAS LINE
- ELECTRIC/TELEPHONE/CABLE LINE
- 10' CONTOUR
- 5' CONTOUR
- CHAIN LINK FENCE
- GUARDRAIL
- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- UTILITY POLE
- FIRE HYDRANT
- WATER GATE
- ZONING DISTRICT BOUNDARY LINE
- WETLAND BOUNDARY w/FLAGS
- FLOODLIGHT

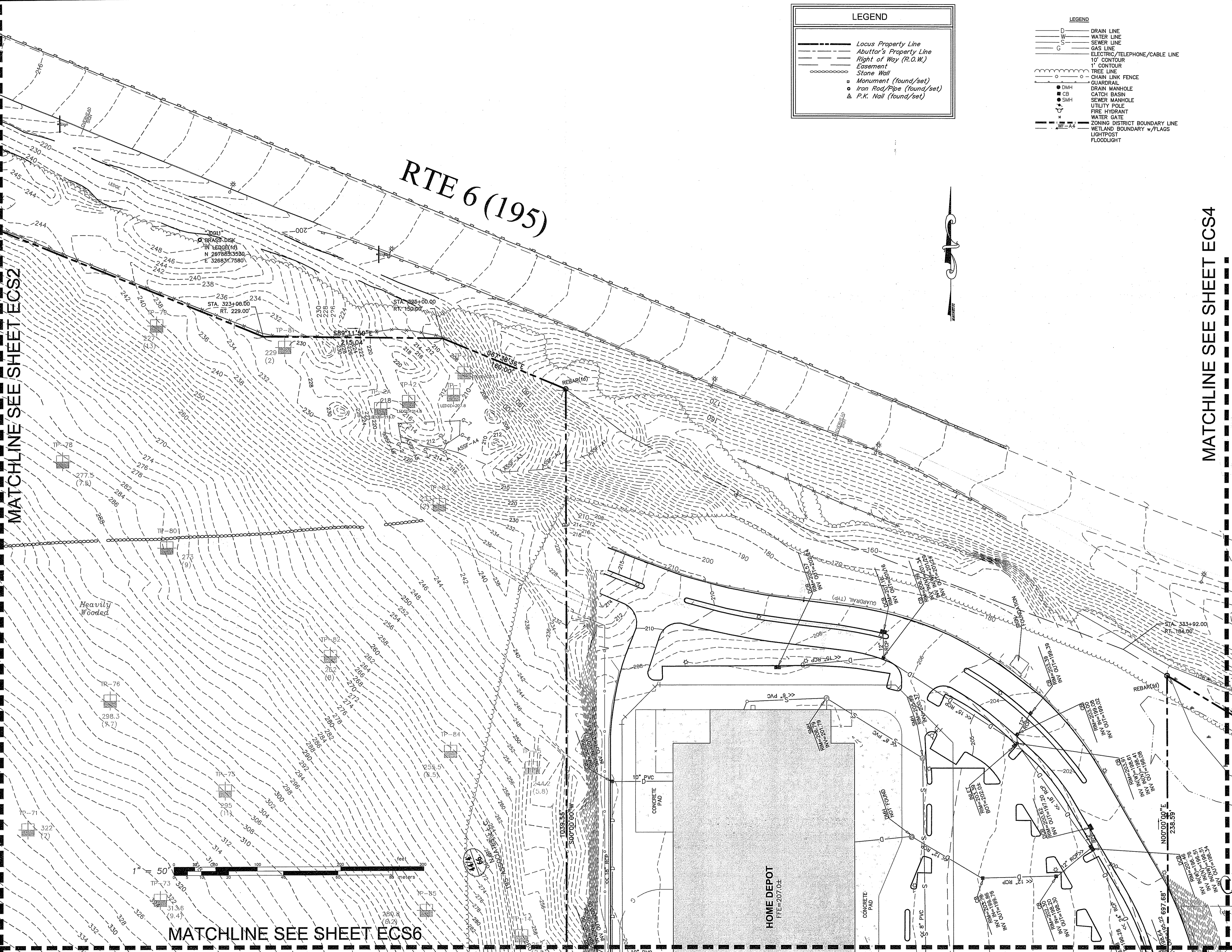
LEGEND

- Locus Property Line
- Adaptor's Property Line
- Rights of Way (R.O.W.)
- Exemption
- Stone Wall
- Monument (found/set)
- Iron Rod/Pipe (found/set)
- P.K. Nail (found/set)



44/4
66

N/E
STONEHILLS DRIVE, L.L.C.
Deed Bk. 1845, Pg. 51
(Reference Burial Ground & Right-of-Way, Deed Bk. 6, Pg. 48)



LEGEND	
---	Locus Property Line
---	Abuttor's Property Line
---	Right of Way (R.O.W.)
---	Easement
---	Stone Wall
□	Monument (found/set)
○	Iron Rod/Pipe (found/set)
△	P.K. Nail (found/set)

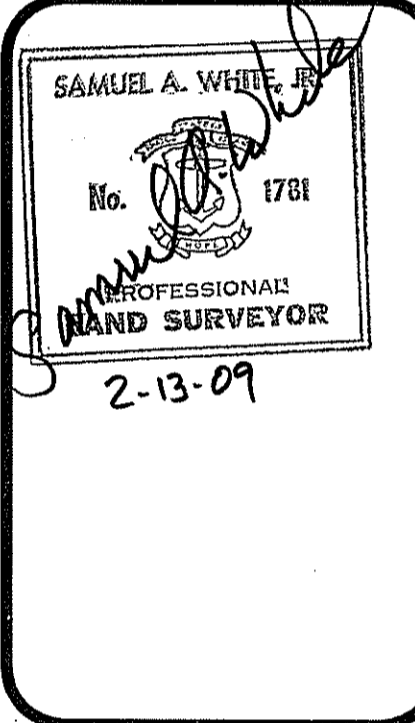
LEGEND	
---	DRAIN LINE
---	WATER LINE
---	SEWER LINE
---	GAS LINE
---	ELECTRIC/TELEPHONE/CABLE LINE
---	10' CONTOUR
---	1' CONTOUR
---	TREE LINE
---	CHAIN LINK FENCE
---	GUARDRAIL
---	DRAIN MANHOLE
---	CATCH BASIN
---	SEWER MANHOLE
---	UTILITY POLE
---	FIRE HYDRANT
---	WATER GATE
---	ZONING DISTRICT BOUNDARY LINE
---	WETLAND BOUNDARY w/FLAGS
---	LIGHTPOST
---	FLOODLIGHT



MATCHLINE SEE SHEET ECS4

ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
195 Associates, L.L.C.

NO.	REVISION	BY	DATE
1	WETFLAGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
3	WETFLAGS G1-G7 & SEV	SW	02-12-09



GAROFALO
GAROFALO & ASSOCIATES, INC.
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85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-01	DRAWN BY M.J.C.
DWG. NO. 5570-ECS	CHECKED S.A.W.
SCALE AS SHOWN	APPROVED S.A.W.
OFFICE OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCE MANAGEMENT FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS	
AS SPECIFIED IN THE LETTER OF APPROVAL DATED 1/8/2009 FILE # 08-0099 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

ECS3

MATCHLINE SEE SHEET ECS3

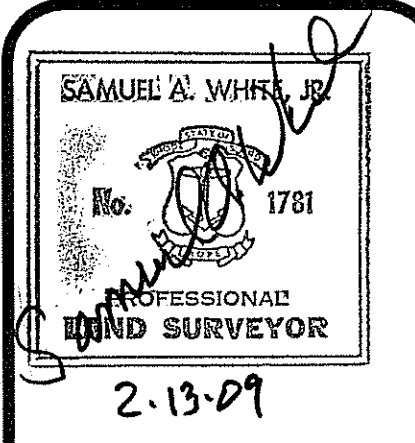
MATCHLINE SEE SHEET ECS4

LEGEND	
	Locus Property Line
	Abutter's Property Line
	Right of Way (R.O.W.)
	Easement
	Stone Wall
	Monument (found/set)
	Iron Rod/Pipe (found/set)
	P.K. Nail (found/set)

LEGEND	
	DRAIN LINE
	WATER LINE
	SEWER LINE
	GAS LINE
	ELECTRIC/TELEPHONE/CABLE LINE
	1' CONTOUR
	1' CONTOUR
	TREE LINE
	CHAIN LINK FENCE
	GUARDRAIL
	DRAIN MANHOLE
	CATCH BASIN
	SEWER MANHOLE
	UTILITY POLE
	FIRE HYDRANT
	WATER GATE
	ZONING DISTRICT BOUNDARY LINE
	WETLAND BOUNDARY w/FLAGS
	LIGHTPOST
	FLOODLIGHT

ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
195 Associates, L.L.C.

NO.	REVISION	BY	DATE
1	WETFLGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
3	WETFLGS G1-G7 & SEV	SW	02-12-09

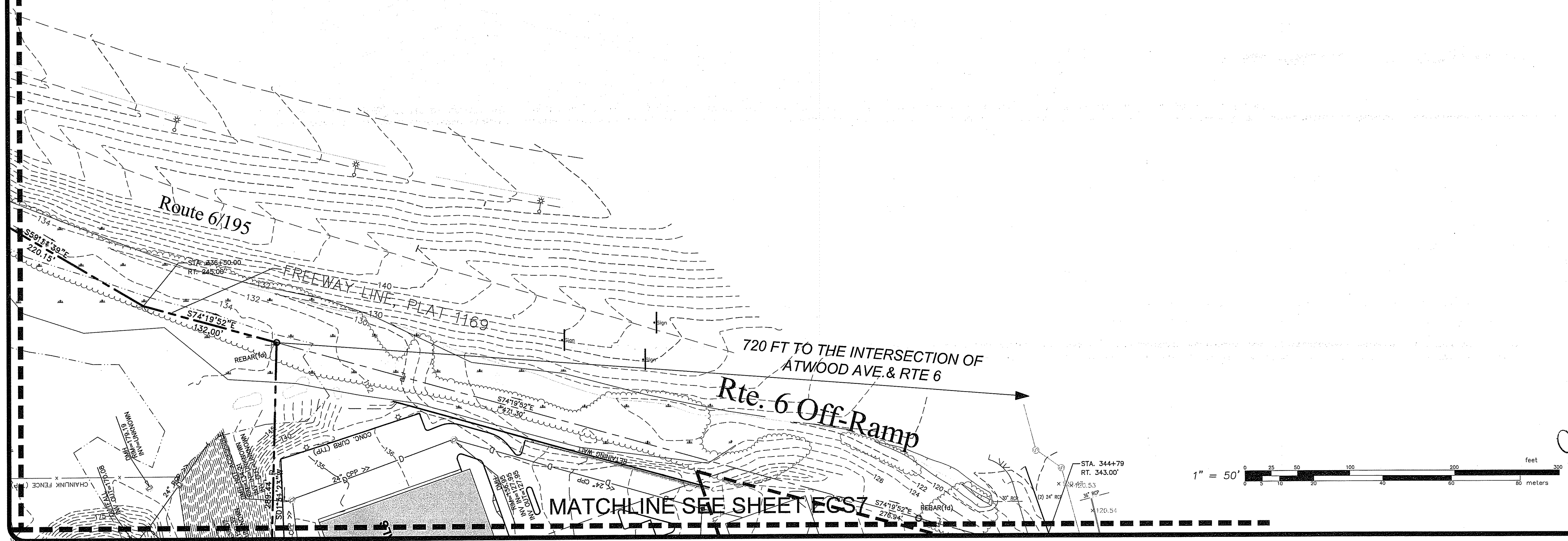


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PROVIDENCE, R.I. 02940
TEL: 401-273-8000

JOB NO. 5570-07
DWG. NO. 5570-ECS
SCALE: AS SHOWN
DRAWN BY M.J.C.
CHECKED S.A.W.
APPROVED S.A.W.
DESIGNED BY M.J.C.
DATE: MAR 18 2009
FILE # DR-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION AT CONSTRUCTION SITE

ECS4



MATCHLINE SEE SHEET ECS2

Route 295

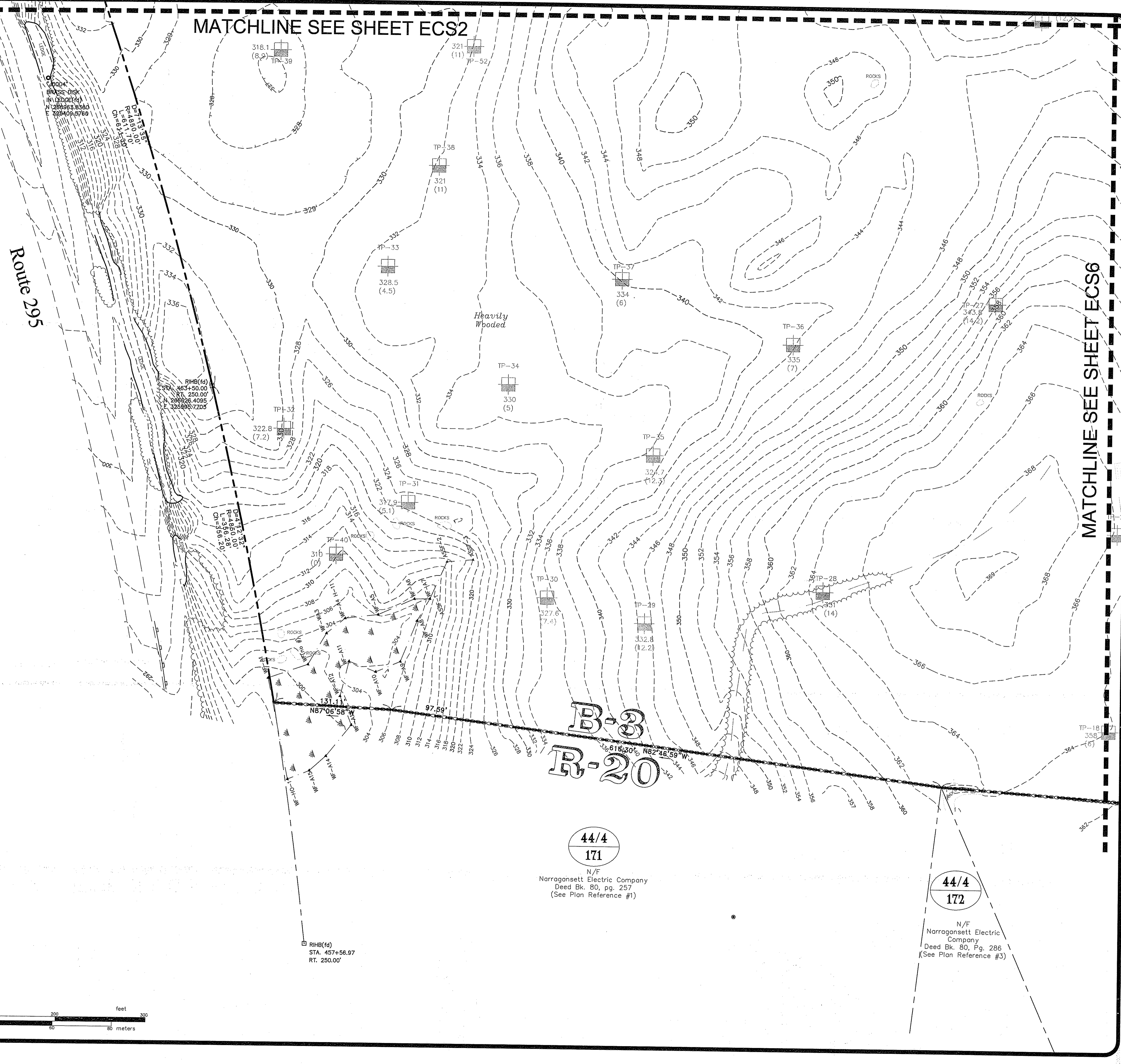
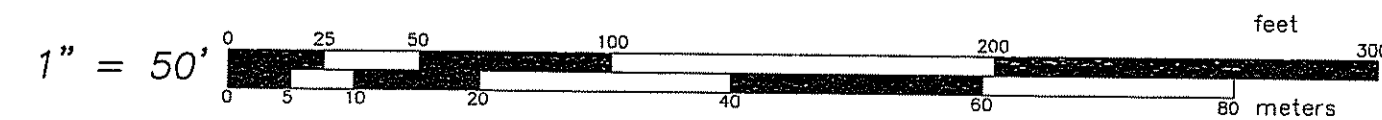
MATCHLINE SEE SHEET ECS6

LEGEND

- Locus Property Line
- Abutter's Property Line
- Right of Way (R.O.W.)
- Easement
- Stone Wall
- Monument (found/set)
- Iron Rod/Pipe (found/set)
- △ P.K. Nail (found/set)

LEGEND

- D DRAIN LINE
- W WATER LINE
- S SEWER LINE
- G GAS LINE
- E ELECTRIC/TELEPHONE/CABLE LINE
- 1' CONTOUR
- TREE LINE
- CHAIN LINK FENCE
- GUARDRAIL
- DMH DRAIN MANHOLE
- CB CATCH BASIN
- SMH SEWER MANHOLE
- U UTILITY POLE
- F FIRE HYDRANT
- W WATER GATE
- Z ZONING DISTRICT BOUNDARY LINE
- WETLAND BOUNDARY w/FLAGS
- L LIGHTPOST
- F FLOODPOST



44/4
171

N/F
Narragansett Electric Company
Deed Bk. 80, pg. 257
(See Plan Reference #1)

44/4
172

N/F
Narragansett Electric Company
Deed Bk. 80, Pg. 286
(See Plan Reference #3)

ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
195 Associates, L.L.C.

NO.	REVISION	BY	DATE
1	WETLAGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
3	WETLAGS G1-G7 & SEV	SW	02-12-09

RECEIVED
FEB 17 2009

SAMUEL A. WHITE
No. 1781
PROFESSIONAL
LAND SURVEYOR
2-13-09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

86 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07
DWG. NO. 5570-ECS

DRAWN BY M.J.C.
CHECKED S.A.W.

APPROVED - S.A.W.
STATE OF RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
DATE: MAR 18 2009 FILE # D8-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

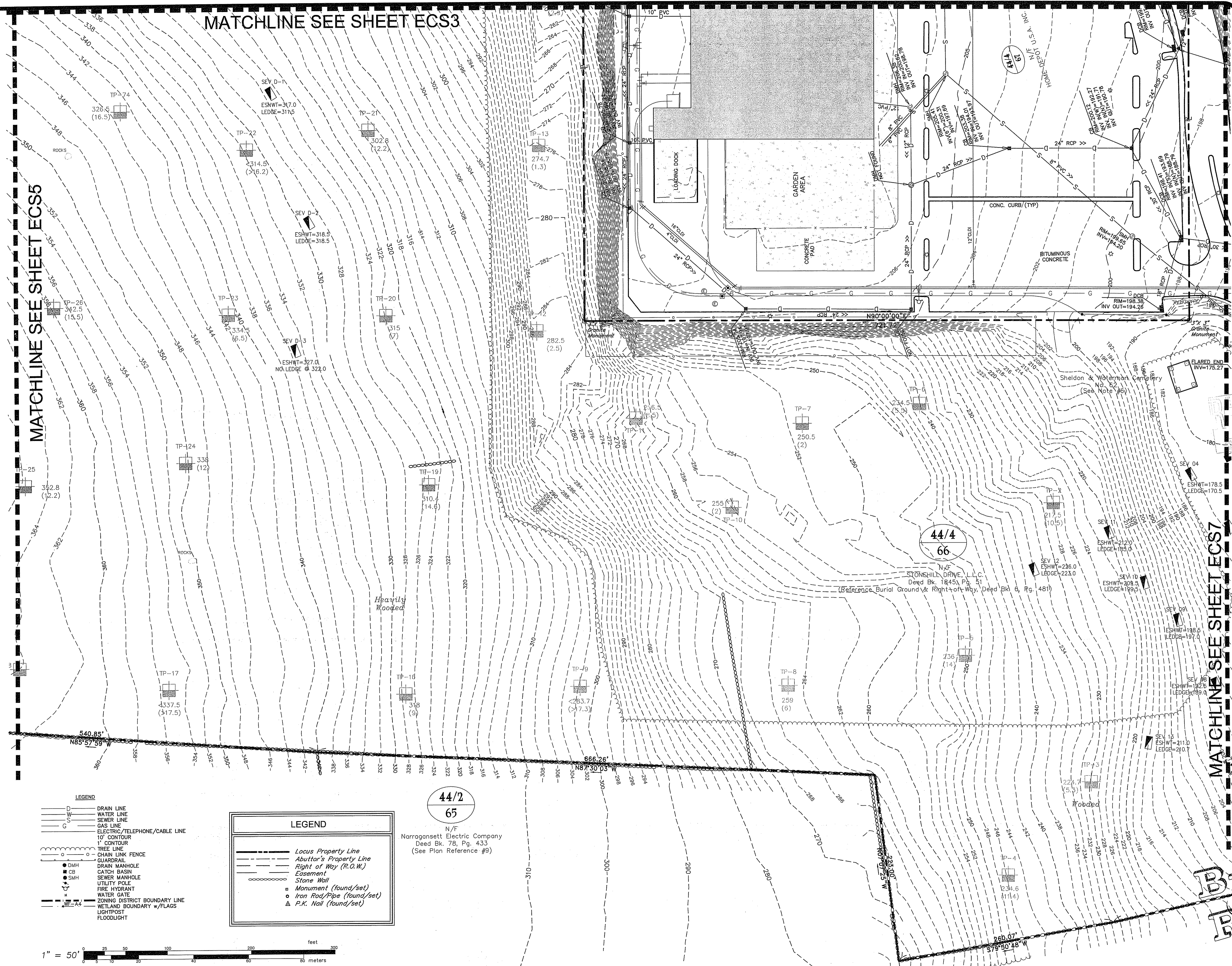
ECS5

6 OF 39 SHEETS

MATCHLINE SEE SHEET ECS3

MATCHLINE SEE SHEET ECS5

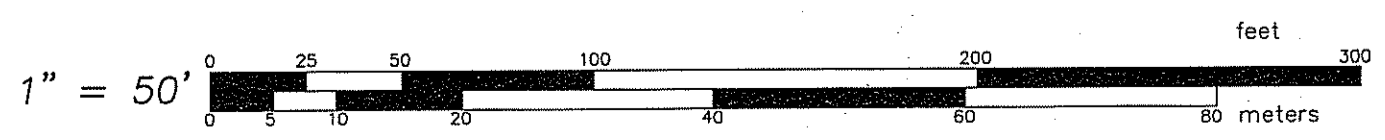
MATCHLINE SEE SHEET ECS7



- LEGEND**
- D DRAIN LINE
 - W WATER LINE
 - S SEWER LINE
 - G GAS LINE
 - E ELECTRIC/TELEPHONE/CABLE LINE
 - 1' CONTOUR
 - CHAIN LINK FENCE
 - GUARDRAIL
 - DRAIN MANHOLE
 - CB CATCH BASIN
 - SMH SEWER MANHOLE
 - UTILITY POLE
 - FIRE HYDRANT
 - WATER GATE
 - ZONING DISTRICT BOUNDARY LINE
 - WETLAND BOUNDARY w/FLAGS
 - LIGHTPOST
 - FLOODLIGHT

- LEGEND**
- Locus Property Line
 - Abuttor's Property Line
 - Right of Way (R.O.W.)
 - Easement
 - Stone Wall
 - Monument (found/set)
 - Iron Rod/Pipe (found/set)
 - P.K. Nail (found/set)

44/2
65
N/F
Narragansett Electric Company
Deed Bk. 78, Pg. 433
(See Plan Reference #9)



ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
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7 2009

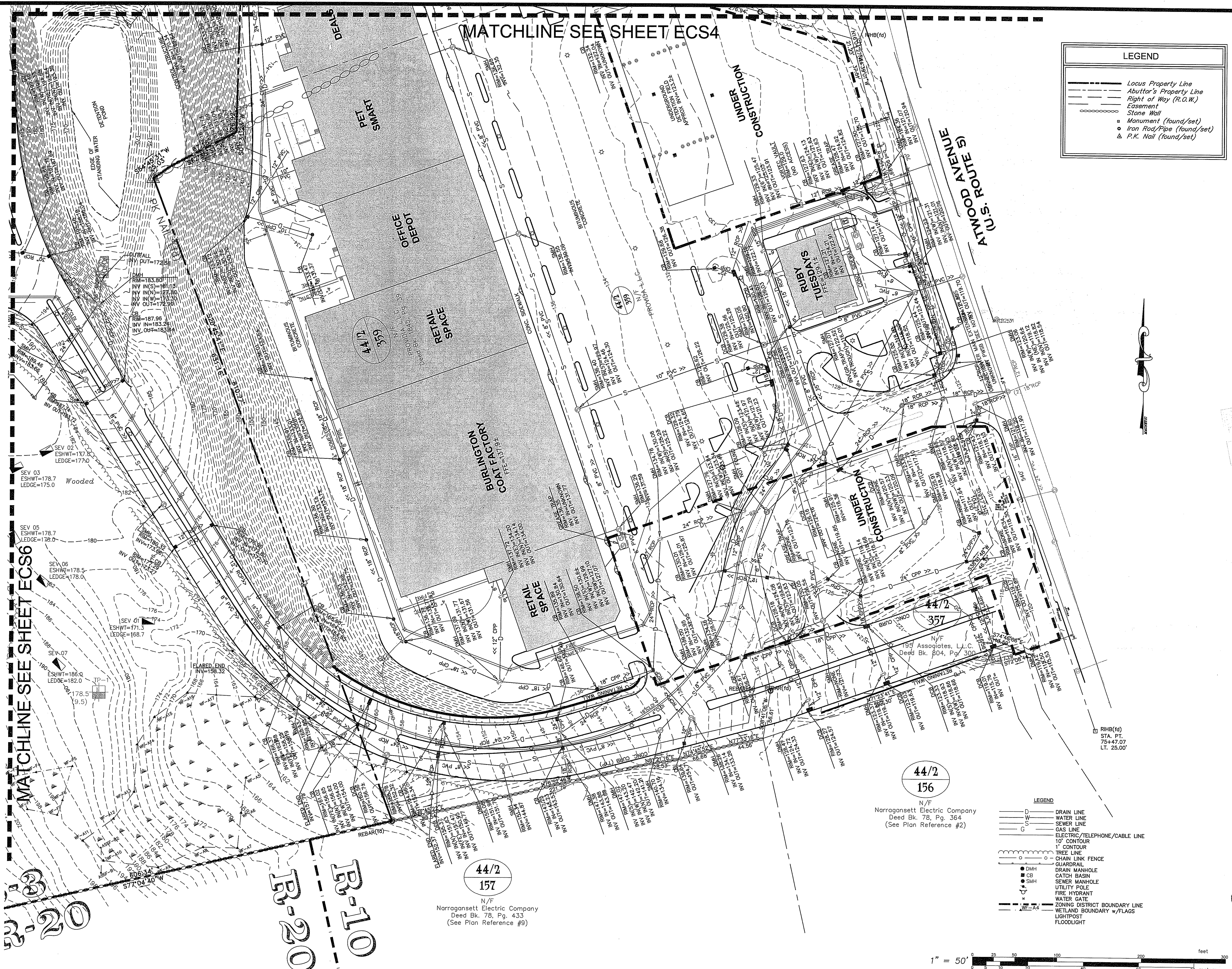
SAMUEL A. WHITE, JR.
No. 1781
PROFESSIONAL
LAND SURVEYOR
2-13-09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLIUS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07	DRAWN BY M.J.C.
DWG. NO. 5570-ECS	CHECKED S.A.W.
SCALE: AS SHOWN	APPROVED S.A.W.
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DIVISION OF WATER RESOURCES NEW STATE WATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAR 18 2009 FILE # 08-0099 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT THE PROJECT SITE	

ECS6



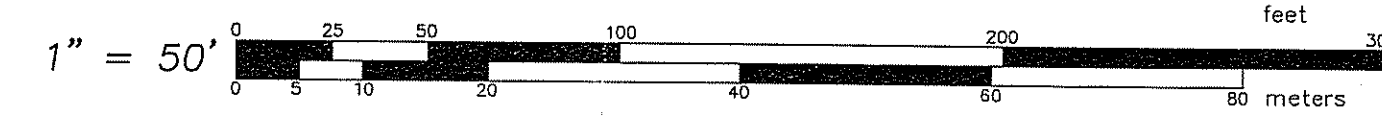
LEGEND

- Locus Property Line
- - - Abutor's Property Line
- - - Right of Way (R.O.W.)
- Easement
- Stone Wall
- Monument (found/set)
- Iron Rod/Pipe (found/set)
- ▲ P.K. Nail (found/set)



LEGEND

- D --- DRAIN LINE
- W --- WATER LINE
- S --- SEWER LINE
- G --- GAS LINE
- E --- ELECTRIC/TELEPHONE/CABLE LINE
- 1' --- 1' CONTOUR
- TREE LINE
- CHAIN LINK FENCE
- DMH --- DRAIN MANHOLE
- CB --- CATCH BASIN
- SMH --- SEWER MANHOLE
- U --- UTILITY POLE
- F --- FIRE HYDRANT
- W --- WATER GATE
- Z --- ZONING DISTRICT BOUNDARY LINE
- W --- WETLAND BOUNDARY w/FLAGS
- L --- LIGHTPOST
- F --- FLOODLIGHT



MATCHLINE SEE SHEET ECS4

MATCHLINE SEE SHEET ECS6

ALTA/ACSM Land Title Survey
w/Topography
FOR
A.P. 44/4, Lot 66
SITUATED ON
Stone Hill Road
Johnston, Rhode Island
PREPARED FOR
195 Associates, L.L.C.

NO.	REVISION	BY	DATE
1	WEIFLAGS WF1-WF7 & SEV	PJD	8-12-08
2	PARCEL DATA	PJD	12-31-08
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17 2009

SAMUEL A. WHITE, III
1781
PROFESSIONAL
LAND SURVEYOR
2-13-09

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JOB NO. 5570-07
DWG. NO. 5570-ECS7
SCALE: AS SHOWN
DRAWN BY M.J.C.
CHECKED S.A.W.
APPROVED S.A.W.
PARTIAL REVIEW BY ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES MANAGEMENT, 2006
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 08-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION AT CONSTRUCTION SITE

ECS7

8 OF 39 SHEETS

R-20
R-10

44/2
157
N/F
Narragansett Electric Company
Deed Bk. 78, Pg. 433
(See Plan Reference #9)

44/2
156
N/F
Narragansett Electric Company
Deed Bk. 78, Pg. 364
(See Plan Reference #2)

UTILITY NOTES

- THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND ALL LOCAL AUTHORITIES & UTILITY COMPANIES TO VERIFY LOCATIONS OF UTILITIES WITHIN THE AREA 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, LOCATE AND PROTECT EXISTING UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE DRAWINGS.
- ALL WORK SHALL BE IN COMPLETE ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER. THE CONTRACTOR SHALL REFER TO THE KENT COUNTY WATER AUTHORITY RULES & REGULATIONS FOR THE SERVICE INSTALLATION & EXTENSION REQUIREMENTS OF WATER LINES.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE OF CURBING, PAVING AND COMPACTED SUB GRADE. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER & ALL LOCAL UTILITY COMPANIES 48 HOURS BEFORE EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREA. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- THE CONTRACTOR SHALL REMOVE ANY ABANDONED FOUNDATIONS, UTILITY STRUCTURES, BURIED DEBRIS ETC. WHICH INTERFERE WITH THE INSTALLATION OF THE UTILITY WORK. ALL SUCH STRUCTURES SHALL BE COMPLETELY REMOVED AND THE EXCAVATED AREA SHALL BE BACKFILLED WITH COMPACTED GRAVEL IN 6" LIFTS TO 95% COMPACTION TO 6" BELOW THE BOTTOM OF THE UTILITY AND PIPE.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTION TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED ONE FOOT IN COMPACTED FILL THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF PROJECT APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PIPING LAYOUT INDICATED ON THESE PLANS IS DIAGRAMMATIC ONLY AND DOES NOT SHOW ALL THE REQUIRED FITTINGS FOR PROPER ALIGNMENT. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS TO OBTAIN PROPER ALIGNMENT AND FOR EXISTING UTILITY CONNECTIONS BASED UPON FIELD CONDITIONS.
- IF DURING EXCAVATION THE TRENCH WIDTH EXCEEDS THE SUM OF THE PIPE O.D. PLUS 2'-0", PLACE AND COMPACT THE FILL TO 12" ABOVE THE PIPE AND RE-EXCAVATE TO REQUIRED GRADE.
- PROPOSED WATER AND FIRE SERVICE PIPING SHALL BE CLASS 52 DOUBLE CEMENT LINED DUCTILE IRON PIPE WITH TYTON JOINTS. ALL BENDS, TEES ETC. SHALL BE JOINT RESTRAINED BY THE USE OF CONCRETE THRUST BLOCKS AND "MEG-A-LUG". ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROVIDENCE WATER SUPPLY BOARD (PWSB) REGULATIONS, STANDARDS AND SPECIFICATIONS. NOTIFICATION SHALL BE PROVIDED TO SAID AUTHORITIES AT LEAST 72 HOURS PRIOR TO INITIATING CONSTRUCTION. FIRE SERVICE PIPING SIZE SHOWN IS APPROXIMATE ONLY AND SHALL BE SIZED AND VERIFIED BY A LICENSED FIRE PROTECTION ENGINEER. DOMESTIC WATER SERVICE PIPING SIZE SHOWN IS APPROXIMATE ONLY AND SHALL BE SIZED AND VERIFIED BY A LICENSED PLUMBING ENGINEER.
- GATE VALVES SHALL BE CAST IRON BODY BRONZE MOUNTED, COMPLETE WITH ROAD BOX AND SHALL CONFORM TO THE PWSB REGULATIONS, STANDARDS AND SPECIFICATIONS.
- FIRE HYDRANT AND WATER MAINS SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
- ALL FIRE AND PLUMBING FIXTURES MUST CONFORM TO LOCAL SPECIFICATIONS AND AS STIPULATED BY THE LOCAL FIRE MARSHAL AND/OR THE BUILDING OFFICIAL.
- ALL SEWER MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE INSTALLATION AND TESTING OF SANITARY SEWERS SHALL CONFORM TO LOCAL REGULATIONS, STANDARDS AND SPECIFICATIONS. ALL SEWER SYSTEM COMPONENTS MUST BE TESTED, CLEANED AND AS-BUILT INFORMATION MUST BE SUBMITTED TO THE CITY/TOWN AND APPROVED, PRIOR TO ISSUANCE OF A PERMIT TO CONNECT TO PUBLIC SEWER SYSTEM.
- SANITARY SEWERS MAINS AND SERVICES SHALL BE SDR-35 (ASTM D-3034) PVC SEWER PIPE WITH PUSH ON RUBBER RING JOINTS UNLESS NOTED OTHERWISE. CLEANOUTS SHALL BE INSTALLED AT BUILDING FACE (SEE PLUMBING PLANS FOR ALL WORK WITHIN 5' OF THE BUILDING). NEOPRENE COUPLINGS WITH STAINLESS STEEL BAND AND SHEER RINGS SHALL BE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
- SEWER LINES SHALL BE INSTALLED AT A MINIMUM 10 FOOT HORIZONTAL SEPARATION FROM ANY PROPOSED OR EXISTING WATER LINE.
- WHENEVER SEWER LINES MUST CROSS WATER LINES, THE SEWER SHALL BE INSTALLED SO THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHERE 18 INCH VERTICAL SEPARATION & 10 FOOT HORIZONTAL SEPARATION CAN NOT BE MET AT WATER AND SEWER CROSSINGS, THE SEWER PIPE SHALL BE ENCASED IN 4,000 PSI CONCRETE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF CROSSING.
- WHENEVER NEW SEWER LINES CONNECT TO EXISTING SEWER MANHOLES THE CONTRACTOR SHALL REBUILD THE EXISTING SEWER MANHOLE CHANNEL TO ACCOMMODATE THE NEW CONNECTION.
- STORM DRAINS 12" AND OVER SHALL BE SMOOTH INTERIOR WALL CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE CAPABLE OF WITHSTANDING (H-20) LOAD UNLESS NOTED OTHERWISE. JOINTS SHALL MEET OR EXCEED ASTM D3212 LAB TEST AND ASTM F1417 WATERTIGHT FIELD TEST. HDPE PIPE SHALL BE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS INC. (ADS), HANCOR PIPE OR LANE PIPE. ALL STORM DRAINAGE PIPING SHALL BE LAID ON A SMOOTH CONTINUOUS GRADE WITH NO VISIBLE BENDS AT THE JOINTS. CLASS III RCP PIPE WITH "O" RING GASKET JOINTS IS AN APPROVED ALTERNATE TO HDPE WITH WRITTEN APPROVAL BY THE OWNER.
- GAS SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE UTILITY INSTALLATIONS AS REQUIRED TO ENSURE ADEQUATE GAS SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE GAS COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION.
- ELECTRIC SERVICE AND TRANSFORMER PAD SHALL CONFORM TO THE REQUIREMENTS OF NATIONAL GRID. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE ELECTRIC SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE ELECTRIC COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR DETAILS ON ALL UNDERGROUND ELECTRIC.
- TEL/CABLE SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE UTILITY SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE ETC.) AS IS REQUIRED BY THE LOCAL UTILITY CO. FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR ALL UNDERGROUND ELECTRIC.
- SITE LIGHTING ELEMENTS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION OF LIGHT POLE BASES IN LOCATIONS INDICATED. REFER TO TENANT ELECTRICAL SITE PLANS FOR INSTALLATION REQUIREMENTS.
- AT A MINIMUM, THE LENGTH OF RIP RAP AREA SHALL BE SIX TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF THE RIP RAP AREA SHALL BE THREE TIMES THE DIAMETER AT THE OUTLET OF THE PIPE AND TWO TIMES THE DIAMETER AT THE INLET END. ALL RIP RAP AREAS SHALL BE PROVIDED WITH A MINIMUM OF 6" CRUSHED STONE BEDDING AND FILTER FABRIC.
- THE PROJECT CONSTRUCTION WILL RESULT IN A EARTH DISTURBANCE OF ONE ACRE OR MORE. THEREFORE THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PER THE REQUIREMENTS OF RIDEM. SWPPP MUST BE SUBMITTED TO R.I. DEM AND A COPY KEPT AT THE SITE TRAILER AT ALL TIMES.

GENERAL CONSTRUCTION NOTES:

- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF JOHNSTON AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, DRIVEWAYS, WALKS, WALLS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
- SITEWORK CONSTRUCTION SHALL COMMENCE AT THE OWNERS RISK UNTIL ALL APPROVALS HAVE BEEN SECURED. REQUIRED PERMITS/APPROVALS FOR THE PROJECT INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING: DEMOLITION PERMITS, SITE PLAN APPROVAL BY THE TOWN OF JOHNSTON, RIDOT PHYSICAL ALTERATION PERMIT (PLANS UNDER SEPARATE COVER), RIDEM FRESHWATER WETLANDS RIDEM UNDERGROUND INJECTED CONTROL (UIC), AND N.B.C. SEWER CONNECTION PERMIT. RIDPE PERMIT TO BE FILED BY SITE CONTRACTOR PRIOR TO START OF CONSTRUCTION.

BASE INFORMATION NOTE:

PORTIONS OF THE "EXISTING" BASE INFORMATION INDICATED ON THESE PLANS IS BASED ON IMPROVEMENTS INDICATED ON PLANS TITLED "SITE PLANS FOR MAJOR RETAIL ADDITION" DATED JANUARY 2002 (AS REVISED), SUPPLEMENTED WITH FIELD SURVEY. THE IMPROVEMENTS WERE UNDER CONSTRUCTION AT THE TIME OF PLAN DEVELOPMENT AND MAY VARY.

SITE GRADING NOTES

- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY GAROFALO & ASSOCIATES, INC. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- MAXIMUM SLOPE OF EMBANKMENT SHALL BE 2.0 FEET HORIZONTAL TO 1.0 FOOT VERTICAL, OR PER APPLICABLE JURISDICTIONAL REGULATIONS.
- PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADE.
- THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.

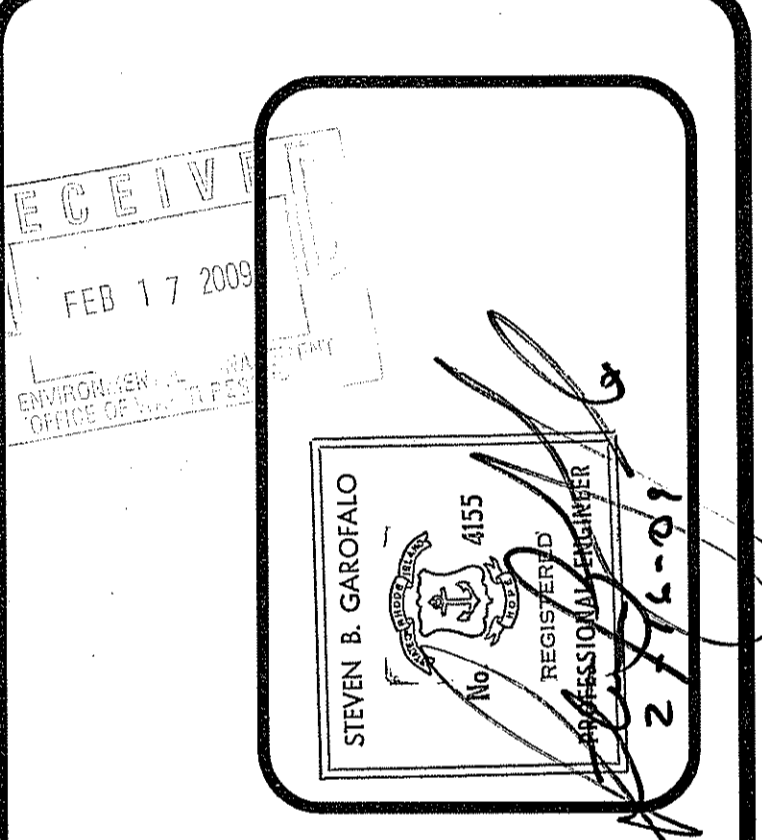
SITE NOTES

- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER AND TENANT.
- ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
- NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION.
- HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC. (SEE ELECTRICAL PLANS BY OTHERS)
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS NEAR CONSTRUCTION; I.E. IN TIMES OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC. WITH A MINIMUM WIDTH OF 20 FEET. ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION. (NFPA 1141 3-1).
- "FIRE LANE NO PARKING" CAN BE STENCILED ON THE CURB EVERY 30 FT. OR IF NO CURB PROVIDE "NO PARKING FIRE LANE" SIGNS THAT ARE LEGIBLE FROM BOTH DIRECTIONS AND TRAFFIC YELLOW CROSS HATCHED 20 FT WIDE, AT THE MAIN ENTRANCES. (NFPA 1141-3.3) OR AS DIRECTED BY THE LOCAL FIRE DEPARTMENT.
- RAMPS SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB OR IS PART OF AN ACCESSIBLE ROUTE THAT HAS A SLOPE OF 1:20 OR GREATER. THE RAMP SHALL HAVE A MINIMUM WIDTH OF 36 INCHES CLEAR EXCLUSIVE OF FLARED SIDES AND A MAXIMUM SLOPE OF 12 INCHES OF RUN FOR EVERY 1 INCH OF LIFT. IF THE RAMP HAS 72 INCHES OF RUN THERE SHALL BE A HANDRAIL ON BOTH SIDES OF THE RAMP. A MAXIMUM OF 36 INCHES APART. THE MAXIMUM HEIGHT OF HANDRAILS FROM FINISH SURFACE TO TOP OF HANDRAIL SHALL NOT EXCEED 34 INCHES.
- SIDEWALK CONSTRUCTION SHOWN IN THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 1991 TITLE II, TITLE III, AND ANY STATE, COUNTY LOCAL OR OTHER APPLICABLE LAWS.

EXISTING	DESCRIPTION	PROPOSED
---	LOCUS PROPERTY LINE	---
---	CHAIN LINK FENCE	---
---	CONTOUR LINE	---
---	DRAIN LINE	---
---	ELECTRIC/TELEPHONE/CABLE	---
---	GAS MAIN	---
---	SEWER LINE	---
---	WATER LINE	---
---	OVERHEAD WIRE	---
⊙	SEWER MANHOLE	⊙
⊙	DRAIN MANHOLE	⊙
□ CB	CATCH BASIN	■ CB#1
□ DGCB	DOUBLE GRATE CATCH BASIN	■ DGCB#7
⊙	ELECTRIC MANHOLE	⊙
⊙ LP	LIGHT POLE	⊙
⊙ W	WATER GATE	⊙
⊙	GAS GATE	⊙
⊙	FIRE HYDRANT	⊙
⊙	UTILITY POLE	⊙
⊙ GCO	GROUND CLEANOUT	⊙ GCO
▷ CTB	CONCRETE THRUST BLOCK	▷ CTB
X 300.5	SPOT GRADE	X 300.50
300.4 lc	TOP OF CURB	TC=300.50
300.3 bc	BOTTOM OF CURB	BC=300.50
300.4 tw	TOP OF WALL	TW=300.50
300.3 bw	BOTTOM OF WALL	BW=300.50
VGC	VERTICAL GRANITE CURB	VGC
PCC	PRECAST CONCRETE CURB	PCC
	TYPICAL HAYBALE & SILTFENCE LIMIT OF WORK	-----
	TYPICAL DOUBLE ROW OF HAYBALE & SILTFENCE LIMIT OF WORK	-----

GENERAL NOTES & LEGEND
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09



GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
88 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07
DWG. NO. 5570-DETAILS/NOTES
SCALE: 1/8" = 1'-0"
DRAWN BY PJD
CHECKED SGG
APPROVED SGG
DATE: MAR 18 2009
FILE # 08-0097
AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAR 18 2009
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
PROVED PERMITS MUST BE AT CONSTRUCTION SITE

C001

**SOIL EROSION AND
SEDIMENT CONTROL NOTES**

- DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CURRENT CONSTRUCTION STANDARDS & SPECIFICATIONS OF THE TOWN OF JOHNSTON AND THE RHODE ISLAND SOIL EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- THE SOIL EROSION CONTROL MEASURES SHOWN AND DETAILED HEREIN SHOULD BE CONSIDERED THE MINIMUM ACCEPTABLE STANDARDS FOR THE PROJECT. THE INITIAL METHOD OUTLINED IS INTENDED TO ROUTE ALL PRACTICABLE SURFACE WATER FROM THE EXCAVATION AREAS INTO EROSION CONTROL FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, ALLAY DUST AND INSTALL ANY ADDITIONAL PROTECTIVE MEASURES NECESSARY TO CONTROL RUNOFF FROM THE SITE DURING CONSTRUCTION ACTIVITIES AND ENSURE THAT THE PROJECT SITE AND ALL ADJACENT PROPERTIES ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
- PRIOR TO COMMENCEMENT OF SITE DEMOLITION, PREPARATION OR EARTHWORK THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- THE LIMIT OF WORK SHALL BE STAKED OUT IN THE FIELD TO ENSURE THAT ALL WORK WILL OCCUR WITHIN THE APPROVED LIMITS OF DISTURBANCE.
- PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES ON SITE, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON SITE TO ESTABLISH SUPERVISORY AND INSPECTION PROCEDURES FOR SEDIMENT AND EROSION CONTROL MEASURES. THE MEETING SHALL BE ATTENDED BY THE CONTRACTOR, APPLICANT/OWNER, ARCHITECT/ENGINEER AND THE LOCAL SOIL & EROSION CONTROL PROFESSIONAL.
- THE EROSION CONTROL MEASURES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL & MAINTAIN EROSION CONTROL DEVICES FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
- THE EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAINSTORM TO ENSURE THEY ARE FUNCTIONING PROPERLY. REPAIR ANY DAMAGED AREAS IMMEDIATELY AND REMOVE ALL CAPTURED SEDIMENT AS REQUIRED.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE PLACED AS DIRECTED BY THE ARCHITECT/ENGINEER OR THE LOCAL SOIL & EROSION CONTROL PROFESSIONAL.
- DEWATERING OF ALL EXCAVATIONS SHALL BE PUMPED THROUGH DEWATERING BAGS AND DISCHARGED INTO A TEMPORARY SALINATION BASIN WITHIN THE APPROVED PROJECT LIMIT OF DISTURBANCE.
- AT NO TIME SHALL SILT LADEN WATER BE ALLOWED TO ENTER ENVIRONMENTALLY SENSITIVE AREAS, EXISTING OR NEW DRAINAGE SYSTEMS. RUNOFF FROM DISTURBED AREAS SHALL BE DIRECTED THROUGH A TEMPORARY SILTATION BASIN & EROSION CONTROL MEASURES PRIOR TO ENTERING ANY ENVIRONMENTALLY SENSITIVE AREA OR DRAINAGE SYSTEM.
- CONTRACTOR SHALL REDUCE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES CAUSED BY CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES SHALL BE SO SCHEDULED SO THAT THE LEAST AREA OF DISTURBED SOIL IS EXPOSED AT ON TIME. IN DISTURBED AREAS NOT SUBJECT TO TRAFFIC, CONTRACTOR SHALL USE TEMPORARY SEEDING AND MULCHING OPERATIONS. IN DISTURBED AREAS SUBJECT TO TRAFFIC, CONTRACTOR SHALL SPRINKLE SURFACE WITH WATER TO MINIMIZE DUST. DUST CONTROL MEASURES SHALL BE MAINTAINED THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVEMENT OR OTHER GROUND COVER SHALL BE PLANTED WITH GRASS ON 4" THICKNESS OF TOPSOIL. IF SEEDING CANNOT BE COMPLETED IMMEDIATELY, DISTURBED AREAS SHALL BE STABILIZED WITH A SPREAD HAY MULCH APPROPRIATELY ANCHORED OR EROSION CONTROL BLANKET.
- SURFACE STABILIZATION MUST BE IMPLEMENTED WITH 14 DAYS AFTER CONSTRUCTION ACTIVITY IN A PORTION OF THE SITE HAS CEASED OR BEEN TEMPORARILY HALTED.
- INSTALL REINFORCED SILT BARRIER AROUND STOCKPILE AREAS, TRUCK WASH DOWN AREAS AND VEHICLE REFUELING AREAS.
- TRUCK WASH DOWN AREA SHALL BE A MINIMUM 20'x20' AREA SURROUNDED BY A STONE REINFORCED SILT BARRIER. ACCUMULATED SOIL, SEDIMENT OR CONCRETE SHALL BE EITHER RECYCLED ON SITE OR DISPOSED OF AT AN OFF-SITE LOCATION.
- CONSTRUCTION VEHICLE REFUELING AREA SHALL BE A MINIMUM 20'x20' AREA SURROUNDED BY A STONE REINFORCED SILT BARRIER. THE DEPTH SHALL BE DETERMINED IN THE FIELD. AREA SHALL BE SCRAPPED AND REDRESSED MONTHLY. SCRAPPED MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION.
- AS SOON AS PAVING IS COMPLETED, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATED SEDIMENT AND DEBRIS. THEREAFTER, CLEAN UP SHOULD FOLLOW LONG TERM MAINTENANCE PLAN.
- REMOVE CONSTRUCTION FENCE, SILT BARRIER AND EROSION CONTROL MEASURES ONLY AFTER ESTABLISHMENT OF PERMANENT VEGETATION.

R.I.D.E.M. NOTES:

- IMPROVEMENTS INDICATED ON THIS PLAN ARE REGULATED BY THE RIDEM. THE CONTRACTOR SHALL REVIEW THE RIDEM PERMIT AND SHALL BE RESPONSIBLE TO CONFORM TO ALL CONDITIONS OUTLINED THEREIN.
- ALL EXCESS SOIL, STUMPS, TREES, ROCKS, BOULDERS, AND OTHER REFUSE SHALL BE DISCARDED OFFSITE, OUTSIDE OF ALL WETLANDS AND WETLAND SETBACK AREAS, UNLESS OTHERWISE SPECIFIED.
- THE HAYBALE LINE ILLUSTRATED ON THIS PLAN SHALL BE INSTALLED IN THE FIELD PRIOR TO CONSTRUCTION, AND SHALL SERVE AS THE LIMIT OF CLEARING & SURFACE DISTURBANCE ON THE SUBJECT PROPERTY. NO ALTERATIONS (INCLUDING VEGETATIVE CLEARING, RESTORATION PLANTINGS, SEEDING, OR SURFACE DISTURBANCE) SHALL OCCUR BEYOND THE SILT FENCE/DISTURBANCE LINE. UPON THE COMPLETION OF CONSTRUCTION AND AN ADEQUATE STABILIZATION OF THE SITE, ALL SILT FENCE SHALL BE REMOVED ALONG WITH ANY ACCUMULATED SANDS/SEDIMENTS.
- UPON THE COMPLETION OF THE NECESSARY GRADING ON THE SUBJECT LOT, ALL DISTURBED SURFACES ADJACENT TO DELINEATED WETLANDS SHALL BE COVERED WITH PLANTABLE SOIL (4" MINIMUM), SEEDING WITH A CONSERVATION SEED MIX (OR LIKE), STABILIZED WITH A SPREAD HAY MULCH OR SIMILAR EROSION CONTROL AGENT AND, WHERE APPLICABLE, PLANTED WITH EVERGREEN WOODY SHRUB AND SAPLING SPECIES. THESE AREAS SHALL REMAIN ENTIRELY UNDISTURBED FOLLOWING PROJECT COMPLETION AND WILL BE ALLOWED TO REVEGETATE TO A NATURAL CONDITION.

CONSERVATION SEED MIX:
(% BY WEIGHT) (SEEDING RATE: 100 LBS/ACRE)
70% RED FESCUE; 10% PERENNIAL RYE GRASS; 5% COLONIAL BENT GRASS;
15% BIRDSFOOT TREFLOL

STORMWATER SYSTEM MAINTENANCE NOTES:

THE DRAINAGE SYSTEMS ARE TO BE MONITORED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL DO A FULL MAINTENANCE & CLEAN UP OF THE STORMWATER SYSTEM AND SITE. UPON COMPLETION OF THE CONTRACTOR'S FINAL MAINTENANCE & CLEAN UP THE PROJECT MONITORING SHALL BE THE RESPONSIBILITY OF THE STONEHILL MARKETPLACE. HEREAFTER REFERRED TO AS THE OWNER. DURING CONSTRUCTION THE CONTRACTOR SHALL BE REQUIRED TO KEEP A WEEKLY LOG OF ALL INSPECTIONS AND REQUIRED MAINTENANCE. THIS LOG SHALL BE MADE AVAILABLE TO THE LOCAL SOIL & EROSION CONTROL AGENT, R.I. DEM, ARCHITECT & ENGINEER AT ALL TIMES.

UPON COMPLETION OF THE PROJECT, THE OWNER SHALL DESIGNATE A QUALIFIED PROFESSIONAL ENTITY OR INDIVIDUAL TO PERFORM ALL MONITORING. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE ENTITY OR INDIVIDUAL SHALL BE PROVIDED TO THE R.I. DEM, DPW. THE OWNER'S REPRESENTATIVE SHALL BE REQUIRED TO KEEP A LOG OF ALL REQUIRED INSPECTIONS AND MAINTENANCE REQUIRED. THE LOG SHALL BE MADE AVAILABLE TO THE LOCAL SOIL & EROSION CONTROL AGENT, R.I. DEM, ARCHITECT & ENGINEER AT ALL TIMES.

THE DRAINAGE SYSTEMS INCLUDE DEEP-SUMP CATCH BASINS, SWALES AND RETENTION/INFILTRATION PONDS. THESE FACILITIES PROVIDE PARTIAL TREATMENT OF STORMWATER RUNOFF PRIOR TO DISCHARGE TO RESOURCE AREAS AND/OR INFILTRATION TO GROUNDWATER.

CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS: (RESPONSIBILITY OF CONTRACTOR)

- HAYBALE & SILT BARRIER:**
MONITOR SILT BARRIER ON A WEEKLY BASIS AND AFTER EVERY RAIN STORM. REPAIR ANY DAMAGED AREAS IMMEDIATELY. REMOVE AND DISPOSE OF ALL CAPTURED SEDIMENT.
- PAVED AREAS:**
PARKING LOTS, PUBLIC & PRIVATE ROADWAYS AND GUTTERS SHALL BE SWEEPED CLEAN OF ALL SEDIMENT & DEBRIS. SWEEPING & REMOVAL OF DEBRIS SHALL BE PERFORMED ON A WEEKLY BASIS AT A MINIMUM.
- CATCH BASINS:**
ALL CATCH BASINS SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM. SHOULD CATCH BASIN SUMPS BECOME FILLED WITH SEDIMENT TO HALF IT'S DEPTH (2') THEY SHALL BE CLEANED IMMEDIATELY.
- DRAIN MANHOLES:**
DRAIN MANHOLES SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM. SHOULD DRAIN MANHOLES BECOME FILLED WITH SEDIMENT TO A DEPTH OF (1') OR MORE THE DRAIN MANHOLES SHALL BE CLEANED IMMEDIATELY.
- RETENTION/INFILTRATION PONDS:**
PONDS SHALL BE INSPECTED AFTER EVERY RAIN STORM. CARE SHALL BE TAKEN TO PREVENT SILTATION OF THE POND AFTER INSTALLATION. PRETREATMENT BMP'S DEEP SUMP CATCH BASINS MUST BE MAINTAINED AND CLEANED PER THE PROCEDURES LISTED TO ENSURE PROPER FUNCTIONING. RETENTION/INFILTRATION POND SHALL BE MONITORED FOR ANY ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED.
- SWALES:**
SWALES SHALL BE INSPECTED AFTER EVERY RAIN STORM. SWALES SHALL BE MONITORED FOR ANY SLOPE EROSION, PONDING AND SEDIMENTATION. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED, BY HAND AND DISPOSED OF. MAINTAIN ALL EROSION CONTROL MEASURES DURING THE COURSE OF CONSTRUCTION AND IN ACCORDANCE WITH THE SWPPP.

DISPOSAL OF ALL SEDIMENT COLLECTED MUST BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

POST CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS: (RESPONSIBILITY OF THE OWNER).

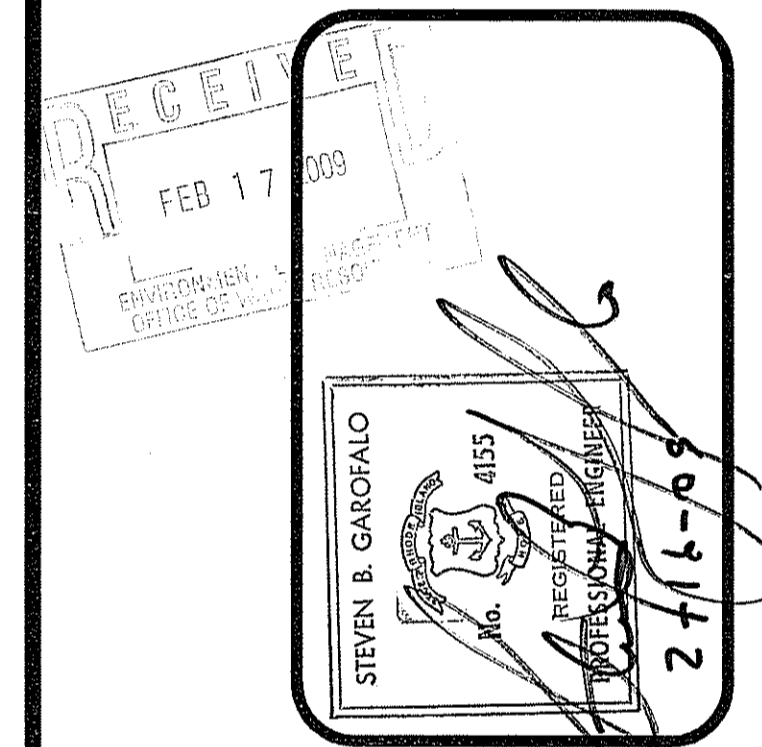
- PAVED AREAS:**
PARKING LOTS, ROADS AND ALL ACCESS WAYS AND GUTTERS SHALL BE SWEEPED CLEAN OF ALL DEBRIS SWEEPING SHALL BE PERFORMED, AT A MINIMUM, IN MARCH AND OCTOBER OF EACH YEAR.
- CATCH BASINS:**
ALL CATCH BASINS SHALL BE INSPECTED TO ENSURE THEY HAVE ADEQUATE SUMP CAPACITY, OIL/WATER SEPARATOR ELBOWS ARE IN PLACE, FRAMES AND GRATES ARE NOT DAMAGED. CATCH BASIN SUMPS SHALL BE CLEANED AT LEAST FOUR TIMES A YEAR AT A MINIMUM. IN ADDITION TO THIS REQUIREMENT, SHOULD CATCH BASIN SUMPS BECOME FILLED WITH SEDIMENT TO HALF IT'S DEPTH (2') THEY SHALL BE CLEANED IMMEDIATELY.
- DRAIN MANHOLES:**
ALL DRAIN MANHOLES SHALL BE INSPECTED TO ENSURE FRAMES AND COVER ARE NOT DAMAGED. DRAIN MANHOLES SHALL BE INSPECTED AND CLEANED AT LEAST FOUR TIMES A YEAR AT A MINIMUM. IN ADDITION TO THIS REQUIREMENT, SHOULD DRAIN MANHOLE CHANNEL BECOME FILLED WITH SEDIMENT OF (6") OR MORE THEY SHALL BE CLEANED IMMEDIATELY.
- RETENTION/INFILTRATION PONDS:**
PONDS SHALL BE INSPECTED ON A BIENNIAL BASIS, IN MARCH & OCTOBER AND AFTER EVERY RAIN STORM OF 3" OR MORE TO DETERMINE IF THE POND IS FUNCTIONING AS DESIGNED. PONDS SHALL BE MONITORED FOR ANY ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED IMMEDIATELY. IF THE RESULTS OF INSPECTION DETERMINE THAT THE SYSTEM IS NOT FUNCTIONING AS DESIGNED AND IS PERFORMING AT A SUBSTANDARD LEVEL OF SERVICE, THE SYSTEM WILL NEED TO BE REPAIRED OR COMPLETELY REPLACED. EVENTUALLY, THE POND CAPACITY WILL DECREASE REQUIRING DEEP TILLING OF THE BASIN FLOOR EVERY SEVERAL YEARS (5-10) TO RESTORE THE ORIGINAL INFILTRATION RATE. TILLING CAN BE ACCOMPLISHED WITH A ROTARY TILLER OR DISC HARROW. AFTER TILLING, BASIN FLOOR MUST BE RESEEDING IMMEDIATELY TO PREVENT EROSION OF THE BASIN BOTTOM.
- SWALES:**
SWALES SHALL BE INSPECTED BIENNIALY, IN MARCH AND OCTOBER, OR MORE FREQUENTLY IF REQUESTED BY THE TOWN OF JOHNSTON OR THE R.I. DEM. SWALE SHALL BE MONITORED FOR ANY SLOPE EROSION, PONDING AND SEDIMENTATION. SEDIMENT AND DEBRIS SHALL BE REMOVED, BY HAND, ON AN ANNUAL BASIS. GRASS SHALL BE MOWED AT LEAST TWICE PER YEAR WITH CLIPPINGS REMOVED. GRASS SHALL NOT BE CUT SHORTER THAN 4" TALL.

DISPOSAL OF ALL SEDIMENT COLLECTED MUST BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

THE RESULTS OF THE INSPECTIONS, ALONG WITH THE DETERMINATION OF ANY REMEDIAL WORK THAT MAY BE FOUND TO BE NECESSARY AS A RESULT OF THE INSPECTION, SHALL BE SUBMITTED TO THE TOWN OF JOHNSTON & THE R.I. DEM WITHIN (30) DAYS OF THE INSPECTION. PROVISIONS FOR INSPECTIONS AND ANY REMEDIAL REPAIRS DEEMED NECESSARY SHALL BE THE RESPONSIBILITY OF THE OWNER.

GENERAL NOTES PLAN 2
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

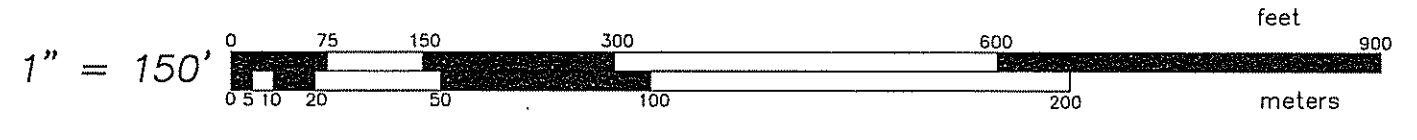
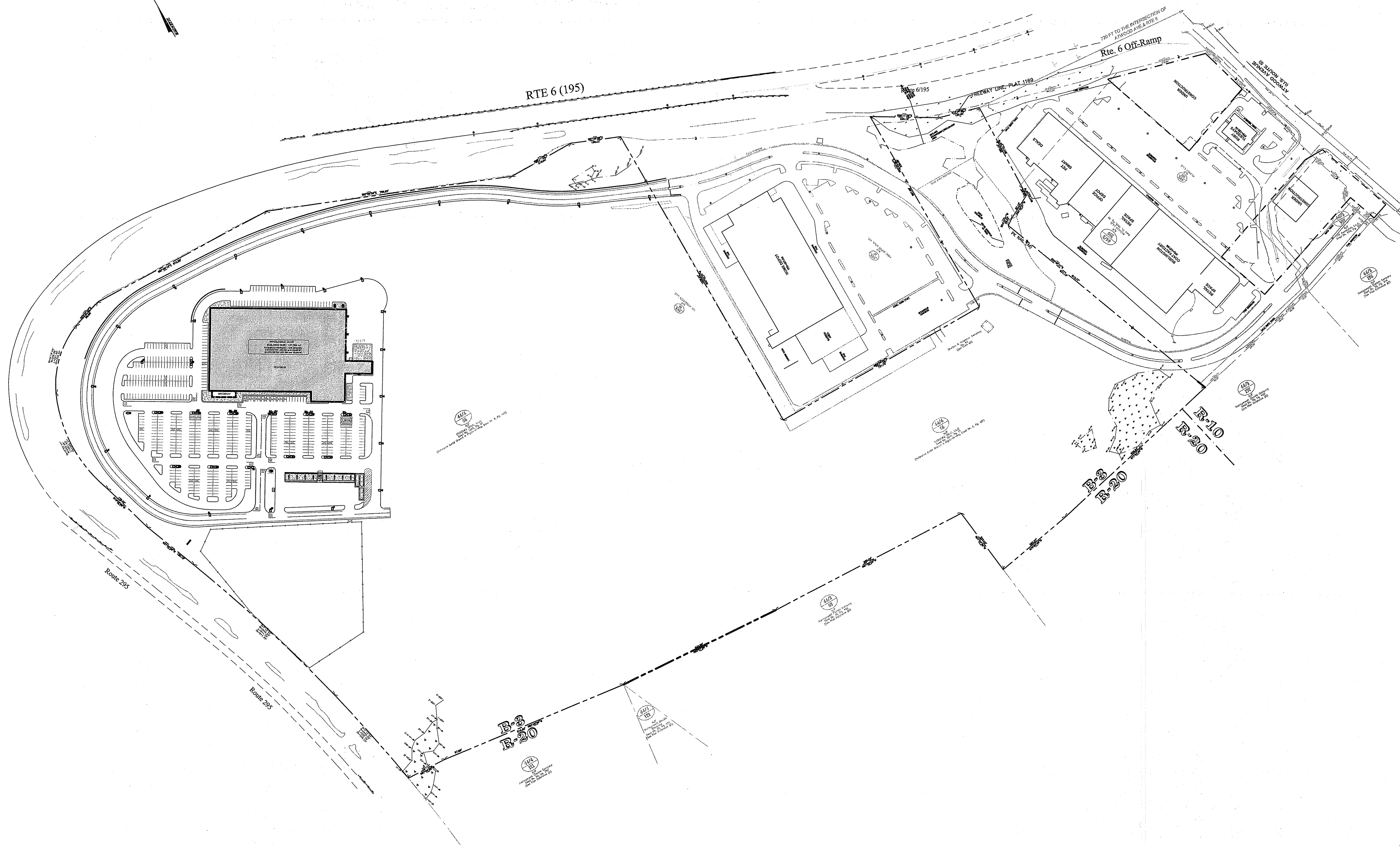
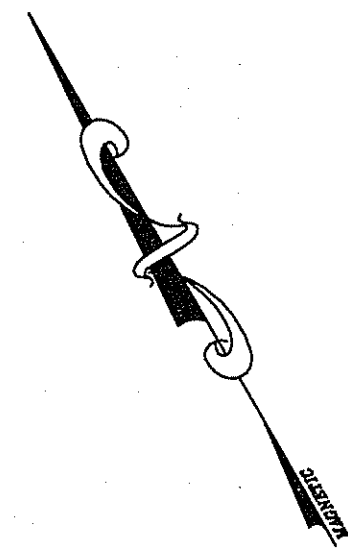


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LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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OR OWNER WITHOUT WRITTEN CONSENT OF
THIS OWNER OR ONE OF ITS DIRECTORS

85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-DETAILS/NOTES	CHECKED SBG
SCALE: 1"=20'	APPROVED SBG
PARTIAL SHOWN FOR ENVIRONMENTAL MANAGEMENT SOURCE OF WATER DATE: MARCH 2008 WETLANDS DATE: MARCH 2008	
AS SPECIFIED IN THE LETTER OF APPROVAL DATE: MAR 18 2009 FILE # 08-0099 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED FOR USE AT CONSTRUCTION SITE	
C002	
10 OF 39 SHEET	



OVERALL PLAN
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
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3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
PROGRAMMER: JAMES
OFFICE OF WATER RESOURCES

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02840
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FORM OR BY ANY MEANS, ELECTRONIC
OR MECHANICAL, INCLUDING PHOTOCOPYING,
RECORDING, OR BY ANY INFORMATION
SYSTEMS WITHOUT THE WRITTEN CONSENT
OF THE OWNER OR ONE OF ITS DIRECTORS.

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-SH	CHECKED SBG
SCALE: AS SHOWN	APPROVED SBG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SHOWN IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 08-0077
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR USE AT PROJECT LOCATION ON SITE

C100

LEGEND:

-  TYPICAL SLOPE PROTECTION
-  TYPICAL INLET PROTECTION AT CATCH BASINS
-  TYPICAL HAYBALE CHECK DAM
-  TYPICAL HAYBALE & SILTFENCE LIMIT OF DISTURBANCE
-  TYPICAL DOUBLE ROW OF HAYBALE & SILTFENCE LIMIT OF DISTURBANCE

TYPICAL SLOPE PROTECTION EROSION CONTROL BLANKET. ALSO PROVIDE SEDIMENT STOP EROSION CONTROL ROLLS AT 10' O.C. (SEE DETAILS)

INSTALL TEMPORARY HAYBALES & SILT FENCE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.

INSTALL HAYBALE CHECK DAMS EVERY 200' AT MIN. ALONG SWALE OR CLOSER IF WARRANTED BY FIELD CONDITIONS (TYP.)

SEDIMENT TRAP 20 L.F. STONE FILTER

CONSTRUCTION ENTRANCE/EXIT MAT

DIRECT SURFACE RUNOFF AWAY FROM FILL SLOPES DURING ALL PHASES OF CONSTRUCTION. INSTALL LOCALIZED TEMPORARY SETTLING BASINS AS DIRECTED AND AS WARRANTED BY FIELD CONDITIONS.

HAYBALE INLET PROTECTION TO BE INSTALLED IMMEDIATELY AFTER INLET CONSTRUCTION (TYP.)

INSTALL TEMPORARY HAYBALES & SILT FENCE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.

NOTE:
CONTRACTOR SHALL RESTRICT CLEARED UNSTABILIZED WORK ZONES TO A MINIMUM THROUGHOUT CONSTRUCTION

PROPOSED RETENTION/INFILTRATION POND

LIMIT OF DISTURBANCE FOR PROJECT (SEE PLAN NOTE 3 (TYP.))

CONSTRUCTION SEQUENCE:

1. SCHEDULE AND ATTEND PRE-CONSTRUCTION CONFERENCE.
2. FIELD LOCATE LIMITS OF CLEARING.
3. CLEAR & GRUB ONLY AREAS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL MEASURES.
4. INSTALL PERIMETER EROSION CONTROL MEASURES INCLUDING HAYBALES, CONSTRUCTION EXIT.
5. INSTALL SEDIMENT TRAPS AS INDICATED ON PLANS OR AS WARRANTED BY FIELD CONDITIONS.
6. CLEAR AND GRUB WORK AREAS.
NOTE: CLEAR ONLY AREAS PROPOSED FOR GRADING WORK DURING CONSTRUCTION ACTIVITIES IDENTIFIED.
7. MASS GRADE SITE. INSTALL TEMPORARY DIVERSION DIKES AS REQUIRED TO DIRECT SURFACE RUNOFF TO SEDIMENT CONTROL FACILITIES DURING ALL CONSTRUCTION ACTIVITIES.
8. INSTALL UTILITIES. INSTALL TEMPORARY INLET AND OUTLET PROTECTION ON DRAINAGE FACILITIES IMMEDIATELY UPON COMPLETION.
9. FINE GRADE SITE AND INSTALL ALL CURBING, WALKS, LANDSCAPE AREAS, AND APPURTENANT SITE IMPROVEMENTS.
10. CLEAN ALL COLLECTED SEDIMENTS FROM PROPOSED IMPROVEMENTS.
11. REMOVE SILTATION CONTROLS ONLY WHEN SITE IS COMPLETELY STABILIZED, AND AT THE DIRECTION OF THE OWNER.



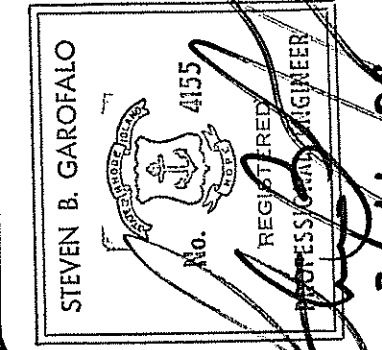
PLAN NOTES

1. THIS PLAN IS SCHEMATIC AND WAS DEVELOPED TO PROVIDE GENERAL SITE GRADING OVERVIEW AND EROSION CONTROL INSTALLATION REQUIREMENTS.
2. SLOPE TREATMENT AND/OR REQUIRED WALLS OR OTHER STRUCTURAL OUTSIDE OF THE SITE GRADING LIMITS INDICATED TO BE DETERMINED BASED ON FIELD CONDITIONS ENCOUNTERED.
3. DIRECT ALL SURFACE RUNOFF AWAY FROM DETENTION RETENTION FACILITIES UNTIL SITE IS COMPLETELY STABILIZED.
4. CONSTRUCTION EQUIPMENT SHALL ENTER AND EXIT SITE FROM CONSTRUCTION ACCESS INDICATED. CONTRACTOR PERSONNEL SHALL UTILIZE CONSTRUCTION EXIT ONLY UNTIL SITE ACCESS ROAD IS GRADED AND BINDER HAS BEEN PLACED.

EROSION CONTROL PLAN
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
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2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009



STEVEN B. GAROFALO
REGISTERED PROFESSIONAL ENGINEER
NO. 4155
STATE OF RHODE ISLAND

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
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JOB NO. 5570-07
DWG. NO. 5570-G&U

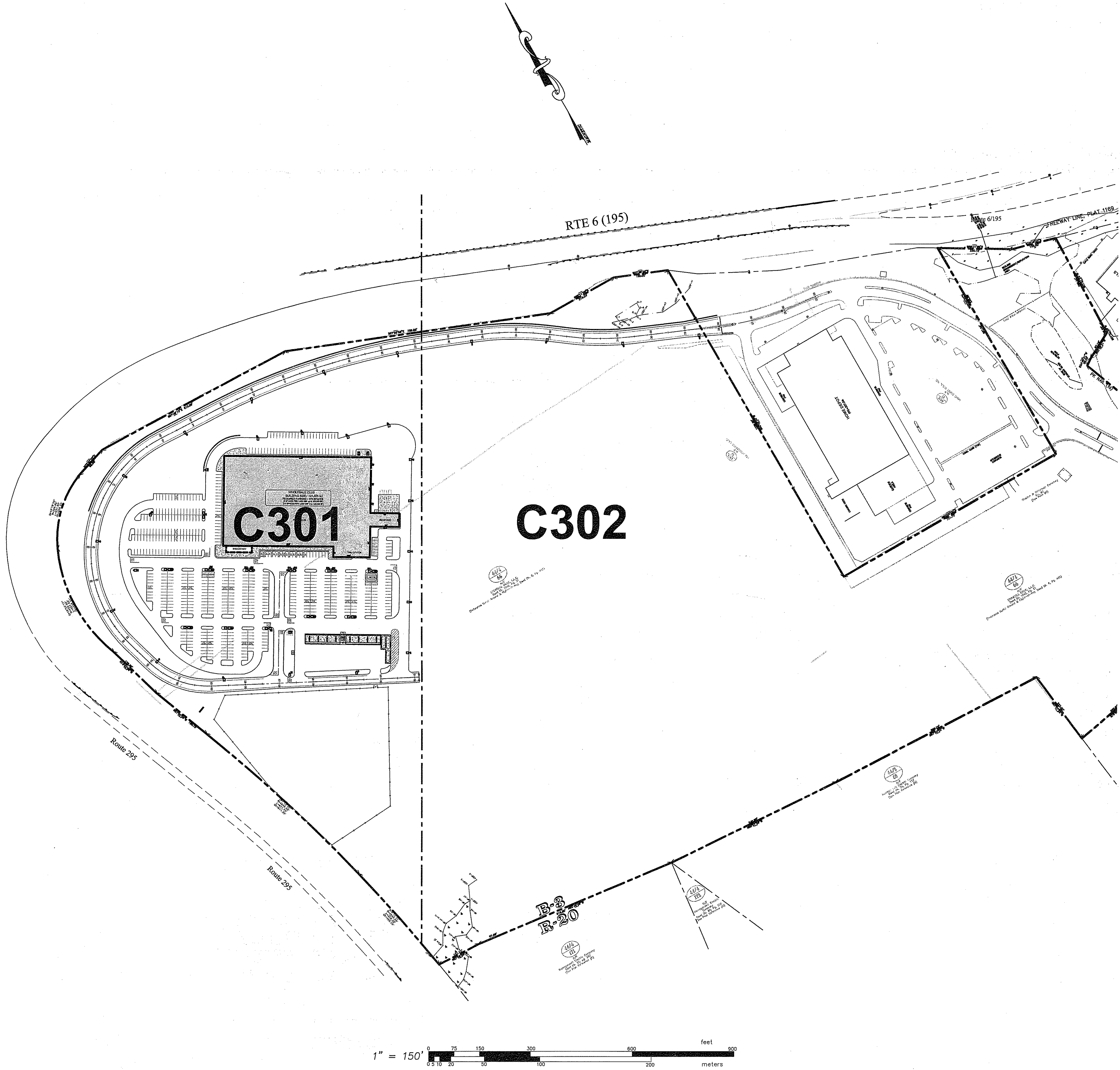
DRAWN BY PJD
CHECKED SBG
APPROVED SBG

SCALE: AS SHOWN

APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 08-0099
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION AT THIS SITE

C200

12 OF 39 SHEET



DEVELOPMENT SUMMARY			
ASSESSORS MAP 44/4, LOT 66			
ZONING: B-3 (INTERCHANGE BUSINESS DISTRICT)			
DESCRIPTION	REQUIRED	EXISTING	PROPOSED
SITE DATA			
LOT AREA	-	4,061,133 S.F. ±	4,061,133 S.F. ±
LAND USE	COMMERCIAL/RETAIL	COMMERCIAL/RETAIL	COMMERCIAL/RETAIL
MAXIMUM LOT BUILDING COVERAGE	40% (1,624,450 S.F.)	0	2.98% (121,324 GSF)
DIMENSIONAL & SETBACK REQUIREMENTS PRINCIPLE BUILDINGS COMMERCIAL/RETAIL & OFFICE USE			
FRONTAGE	500'*	1775.45' (ROUTE 6.)	1775.45' (ROUTE 6.)
FRONT YARD	0'	0	185.96' (ROUTE 6)
SIDE YARD	0'	0	360.65'
REAR YARD	0'	0	449.07'
HEIGHT:			
RETAIL STORE	50'*	0	41'-10" (TOP OF STEEL PEAK)
THEATER	60'*	0	N/A
ACCESSORY BLDG.	40'*	0	N/A
DIMENSIONAL & SETBACK REQUIREMENTS ACCESSORY BUILDINGS			
FRONT YARD	25'	0	N/A
SIDE YARD	25'	0	N/A
REAR YARD	25'	0	N/A
HEIGHT	40'	0	N/A
BUFFER ZONES SPECIFIC OFFSET REQUIREMENTS			
OFFSET TO ANY "R" DISTRICT	200'*	0	XXX'
OFFSET TO ANY "I" DISTRICT	150'	0	N/A
OFFSET TO ANY "B" DISTRICT	0'	0	XXXX
VEGETATED BUFFER ZONE TO ALL RESIDENTIAL DISTRICTS			
BUFFER ZONE	50'	0	XXX
PARKING REQUIREMENTS			
5 SPACE/1,000 GSF UP TO 100,000 GSF	500 (RETAIL 100,000 GSF)		WHOLESALE CLUB: 569 STANDARD 12 ACCESSIBLE 581 TOTAL RATIO= 4.78/1,000 S.F.
3.5 SPACE/1,000 GSF OF SPACE OVER 100,000 GSF	75 (RETAIL 21,324 GSF)	0	
TOTAL REQUIRED	575 (RETAIL 121,324 GSF)		
LOADING ZONES			
1 SPACE/40,000 GSF (14'x60' MIN SPACE)	3	0	3

*-REFER TO TOWN OF JOHNSTON ORDINANCE IN AMENDMENT OF THE ZONING ORDINANCE (ORDINANCE 2008-2)

SITE LEGEND

- LOCUS PROPERTY LINE
- CHAIN LINK FENCE
- □ LIGHT POLE
- ○ UTILITY POLE
- HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT
- (40Y) 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- (4W) 4" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- CTE CONNECT TO EXISTING
- MTE MATCH TO EXISTING
- PCC PRECAST CONCRETE CURB

OVERALL SITE LAYOUT PLAN
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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STEVEN B. GAROFALO
Professional Engineer
No. 0055
2/11-09

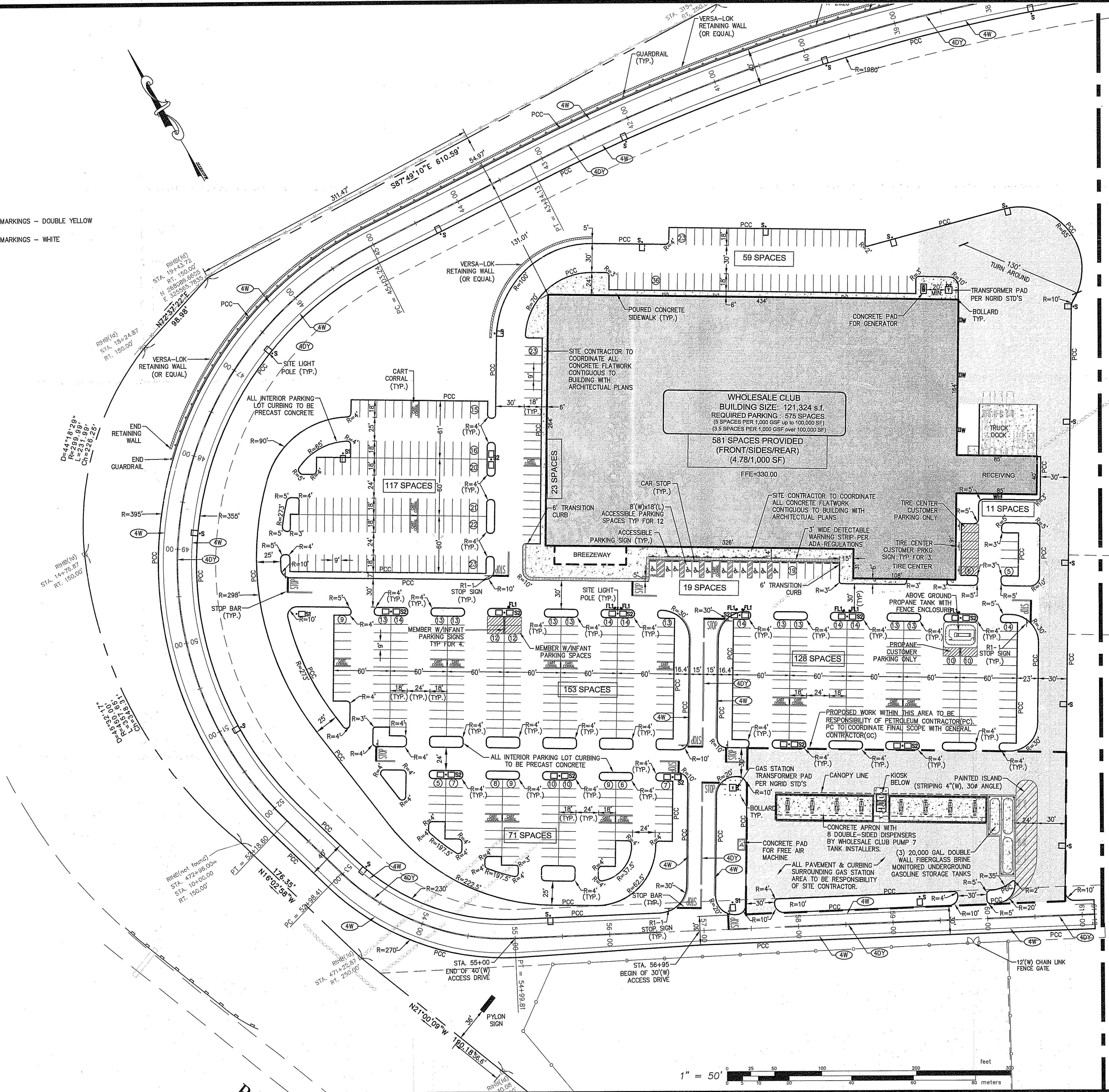
GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
 85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-SITE	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS APPROVED IN THE LETTER OF APPROVAL DATED MAR 18 2009 FILE # 08-0019 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PROJECT AT CONSTRUCTION SITE	

C300

SITE LEGEND

- LOCUS PROPERTY LINE
- CHAIN LINK FENCE
- LIGHT POLE
- UTILITY POLE
- HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT
- 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- 4" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- CONNECT TO EXISTING
- MATCH TO EXISTING
- PRECAST CONCRETE CURB



MATCHLINE SEE SHEET C302

SITE LAYOUT PLAN 1
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/28/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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FEB 17 2009

STEVEN B. GAROFALO
4135
PROFESSIONAL ENGINEER
2/16/09

GAROFALO

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 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

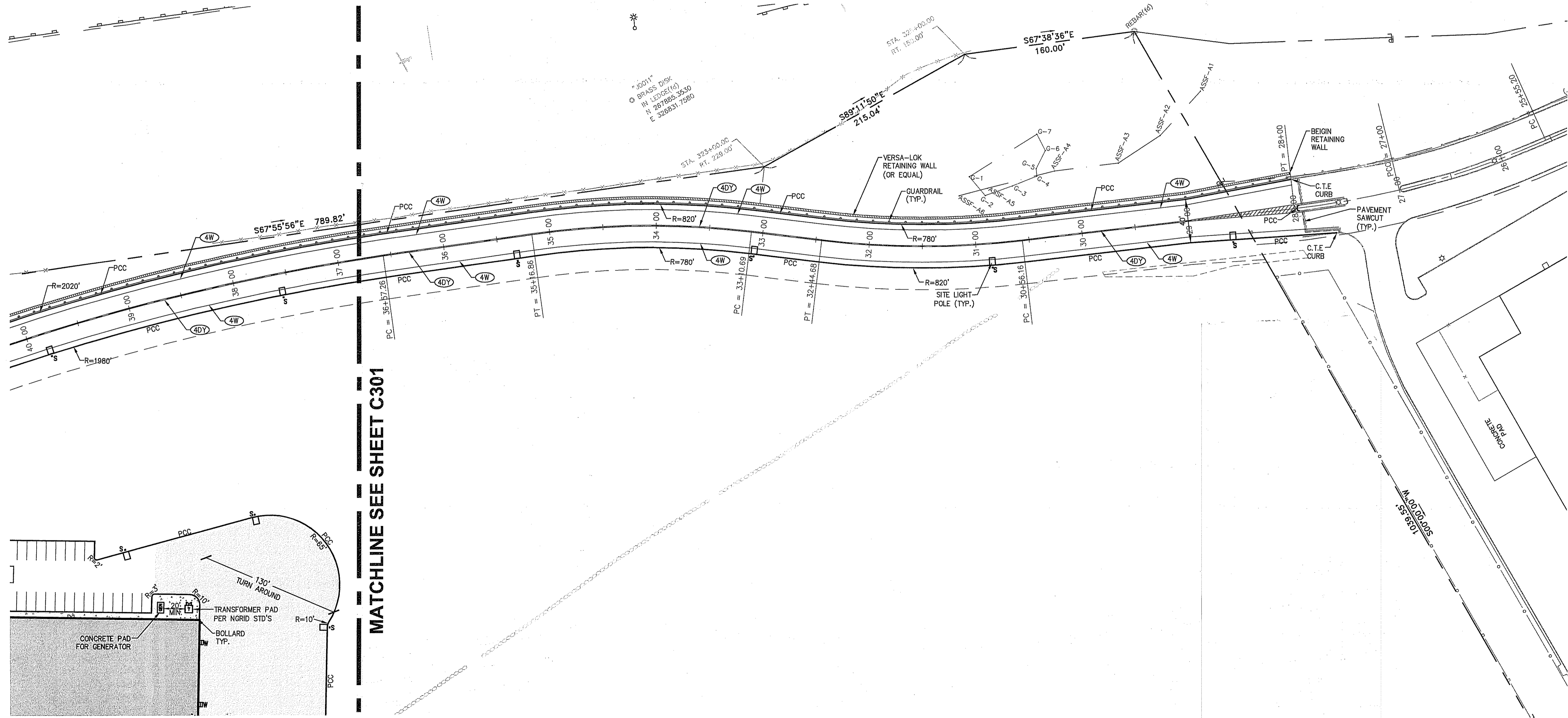
85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-SITE	CHECKED SBC
SCALE OF ENVIRONMENTAL MANAGEMENT FRESHWATER WELLS PROGRAM APPROVED WITH COMMENTS 2/16/09	APPROVED SBC
SHEET 18 2009 FILE # D8-0099 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

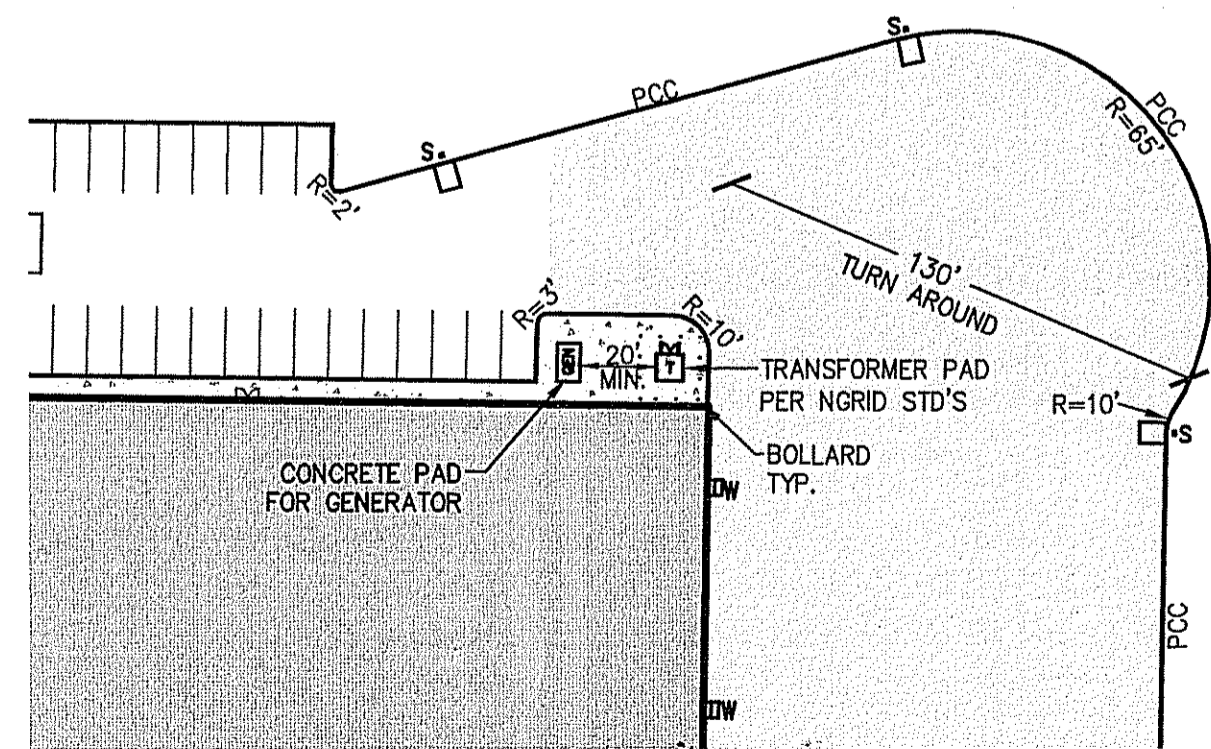
C301

SITE LEGEND

- LOCUS PROPERTY LINE
- CHAIN LINK FENCE
- LIGHT POLE
- UTILITY POLE
- HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT
- 4DY 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- 4W 4" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- CTE CONNECT TO EXISTING
- MTE MATCH TO EXISTING
- PCC PRECAST CONCRETE CURB



MATCHLINE SEE SHEET C301



SITE LAYOUT PLAN 2
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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RECEIVED
 FEB 17 2009

STEVEN B. GAROFALO
 No. 4155
 REGISTERED PROFESSIONAL ENGINEER

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 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

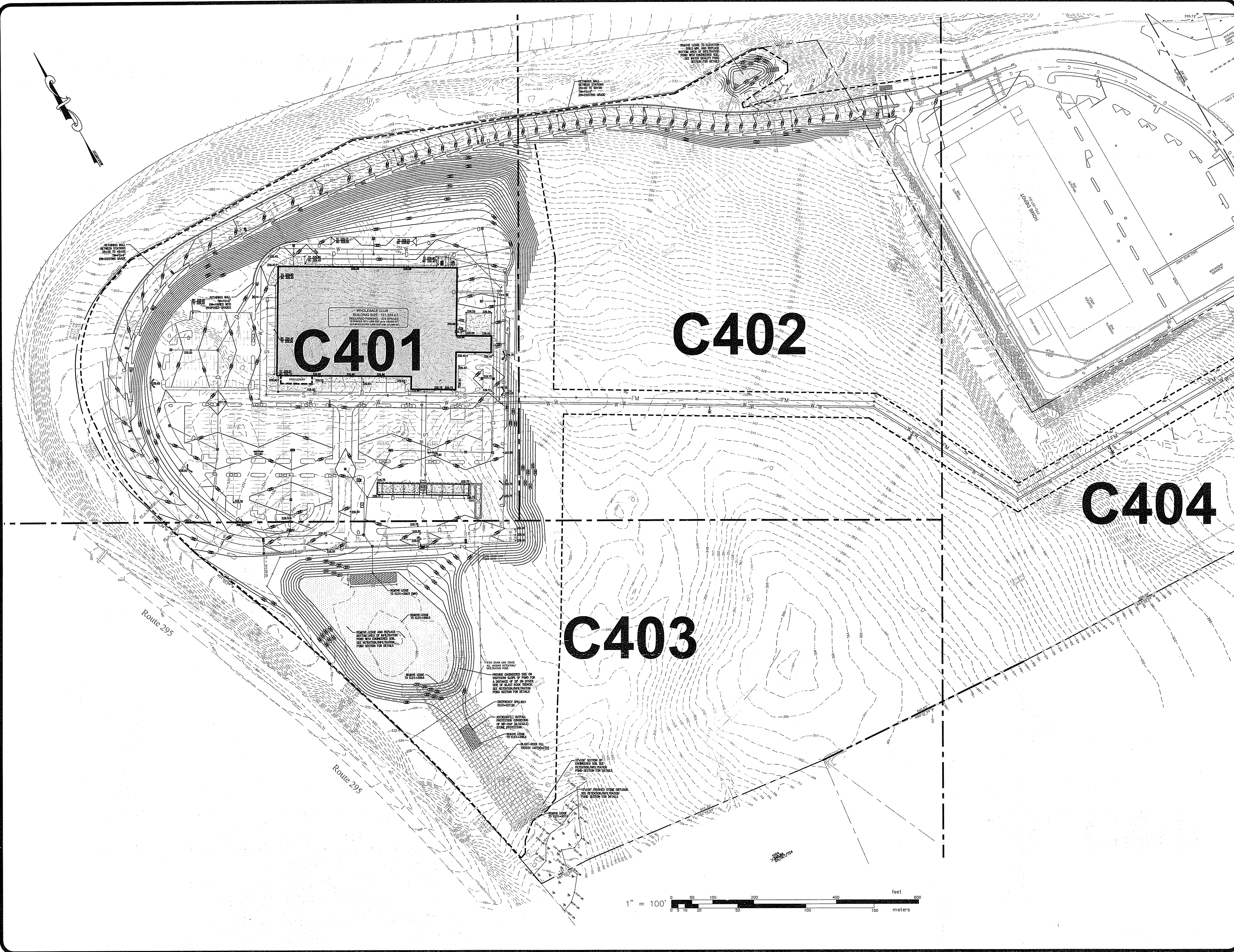
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 TEL. 401-273-6000

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 INTENDED FOR THE PROJECT AND SITE
 SHOWN. THEY ARE NOT TO BE
 USED FOR ANY OTHER PURPOSE, LOCATION
 OR OWNER WITHOUT WRITTEN CONSENT OF
 THIS OWNER OR ONE OF ITS DIRECTORS

JOB NO. 5570-07
 DWG. NO. 5570 SITE
 SCALE: AS SHOWN
 DRAWN BY PJD
 CHECKED SBG
 APPROVED - SBG
 DATE: MARCH 21, 2008
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAR 18 2009 FILE # 08-0099
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PROJECT AT CONSTRUCTION SITE

C302

15 OF 39 SHEET



OVERALL SITE GRADING PLAN
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

REGISTERED PROFESSIONAL ENGINEER
No. 2411-1
STEVEN B. GAROFALO
R.I. REG. NO. 2411-1
FEB 17

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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TEL. 401-273-6000

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JOB NO. 5570-07
DWG. NO. 5570-C400
SCALE 1/4" = 1'-0"

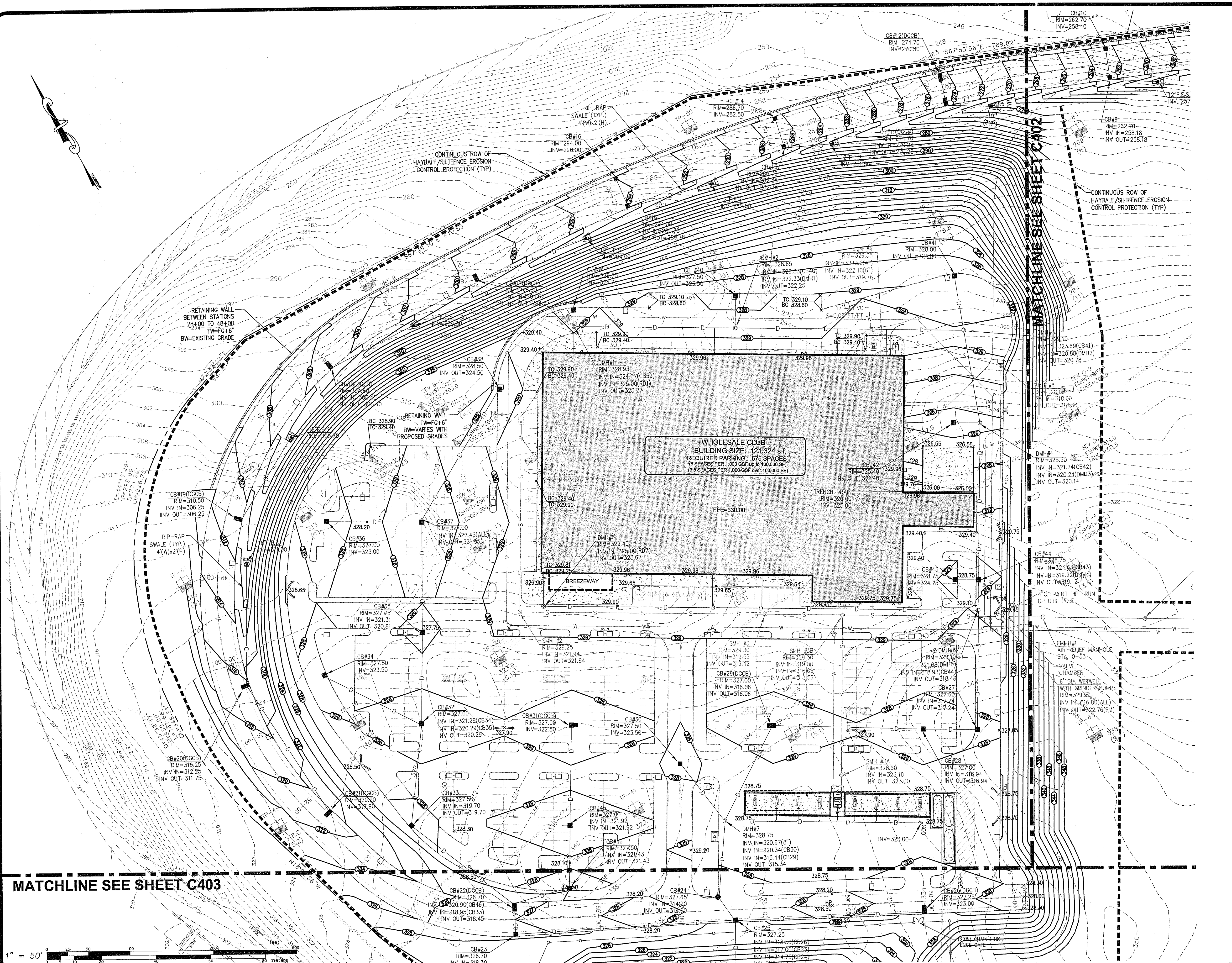
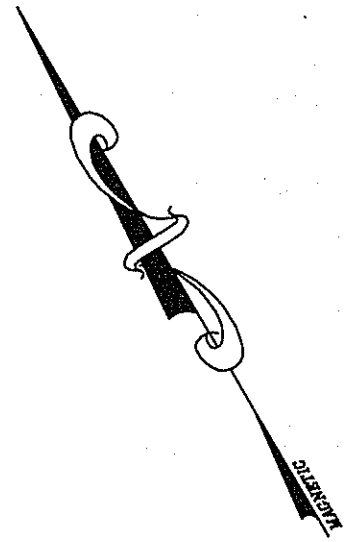
DRAWN BY PJD
CHECKED SBG
APPROVED SBG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WELLS AND SURFACE WATER

APPROVED WITH CONDITIONS
SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009 FILE # 06-0077
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR USE AT THIS LOCATION SITE

C400

16 OF 39 SHEET



MATCHLINE SEE SHEET C403

1" = 50'

SITE GRADING PLAN 1
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
 FEB 17 2009

STEVEN B. GAROFALO
 2/11-09

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 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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 THE ENGINEER/SURVEYOR OR HIS DIRECTORS

JOB NO. 5570-07
 DWG. NO. 5570-07A

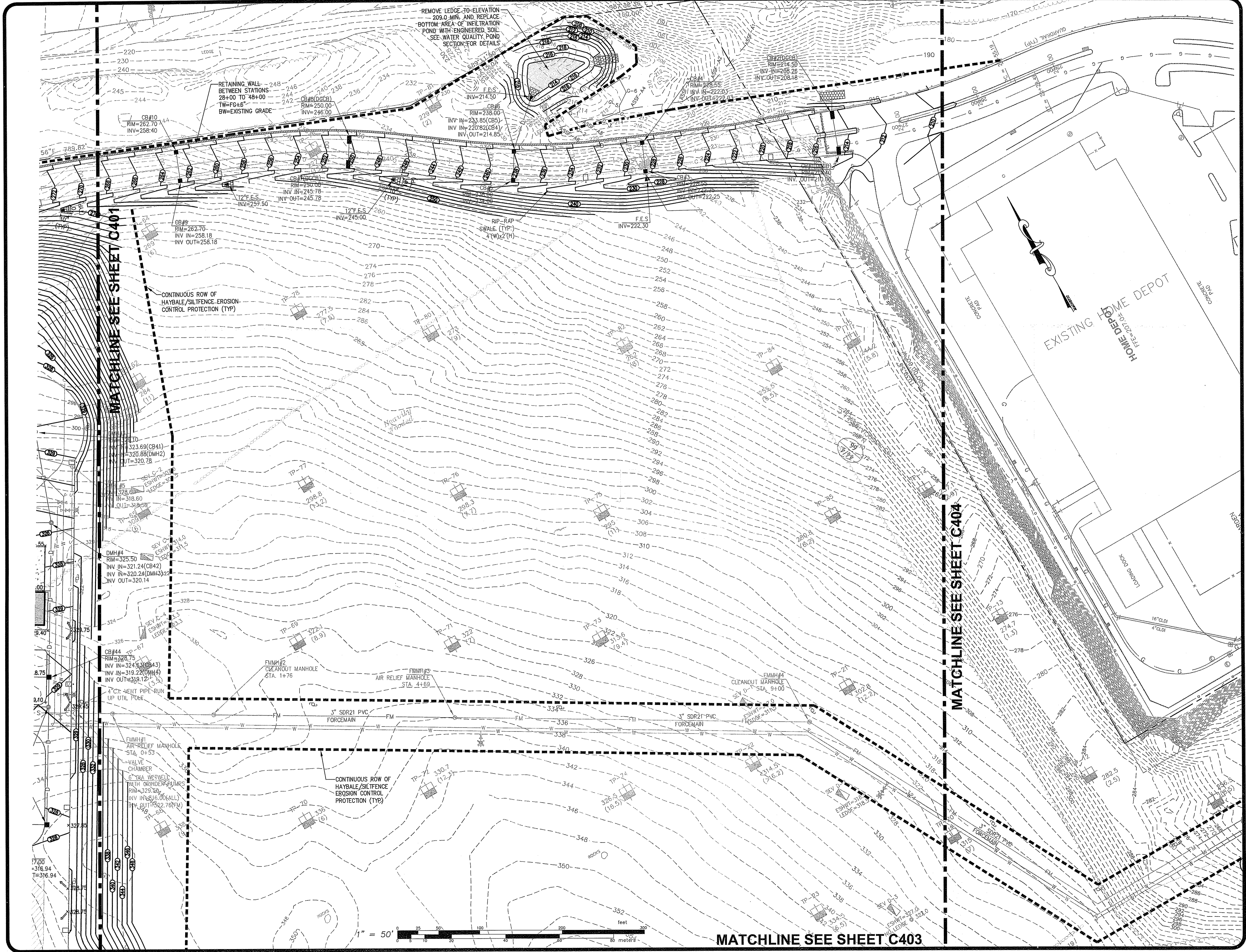
DRAWN BY PJD
 CHECKED SBG
 APPROVED SBG

SCALE: 1" = 50'

DATE: MAR 18 2009

C401

17 OF 39 SHEET



SITE GRADING PLAN 2
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
 FEB 17 2009

STEVEN B. GAROFALO
 REGISTERED PROFESSIONAL ENGINEER
 4155
 2-16-09

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CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

86 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

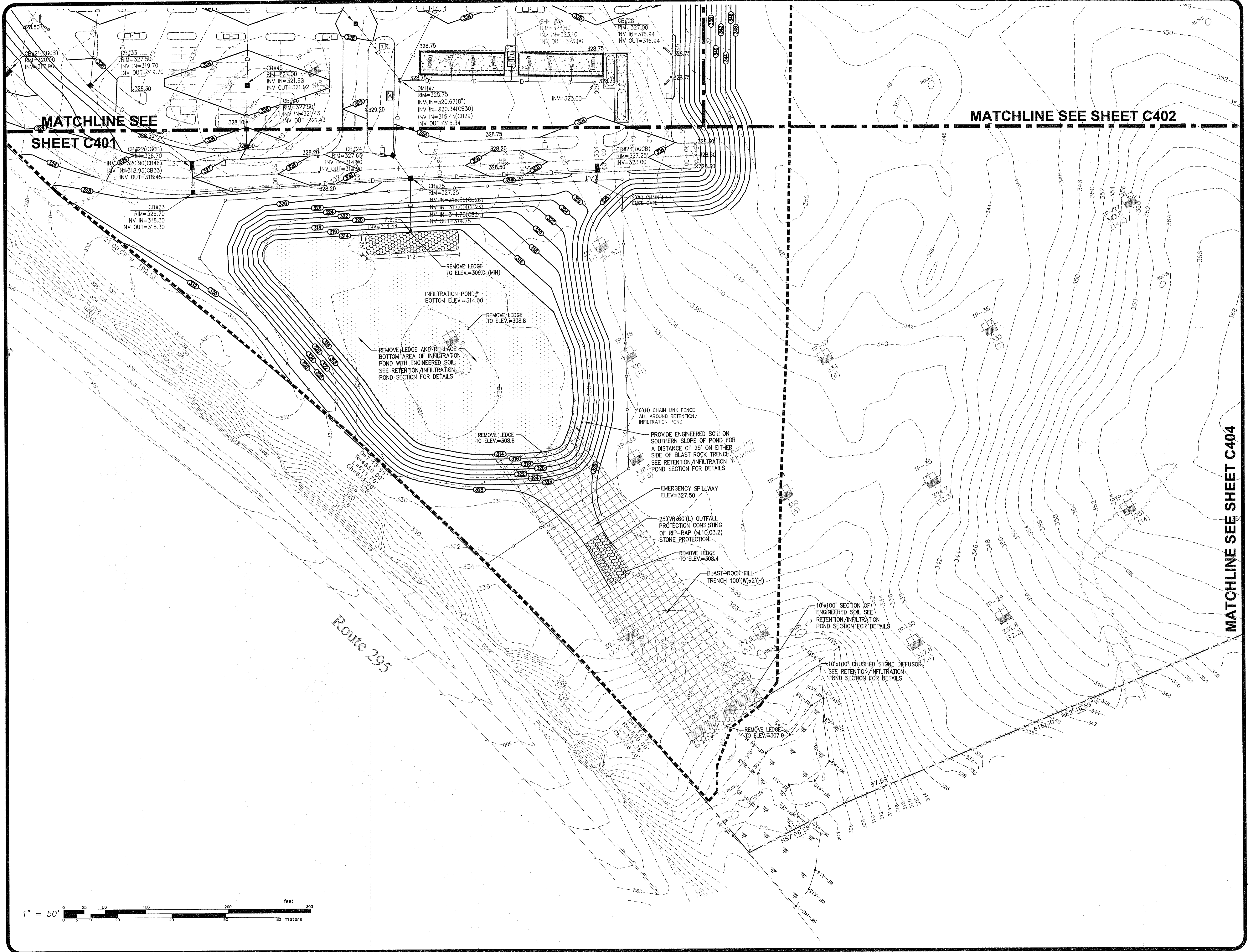
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JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-07-01	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG

STATE OF RHODE ISLAND
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS DIVISION
 APPROVED IN THE LETTER OF APPROVAL
 DATED MAR 18 2009 FILE # DR-0097
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PROJECT MUST BE AT CONSTRUCTION SITE

C402

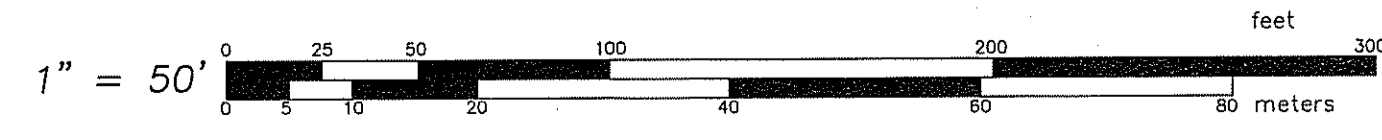
18 OF 39 SHEET



MATCHLINE SEE SHEET C401

MATCHLINE SEE SHEET C402

MATCHLINE SEE SHEET C404



SITE GRADING PLAN 3
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
FEB 18 2009
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009

STEVEN B. GAROFALO
No. 4153
PROFESSIONAL REGISTERED
2/18/09

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GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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PROVIDENCE, R.I. 02940
TEL. 401-273-6000

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FEB 17 2009

STEVEN B. GAROFALO
No. 4153
PROFESSIONAL REGISTERED
2/18/09

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JOB NO. 5570-07
DWG. NO. 5570-G&U

SCALE: AS SHOWN

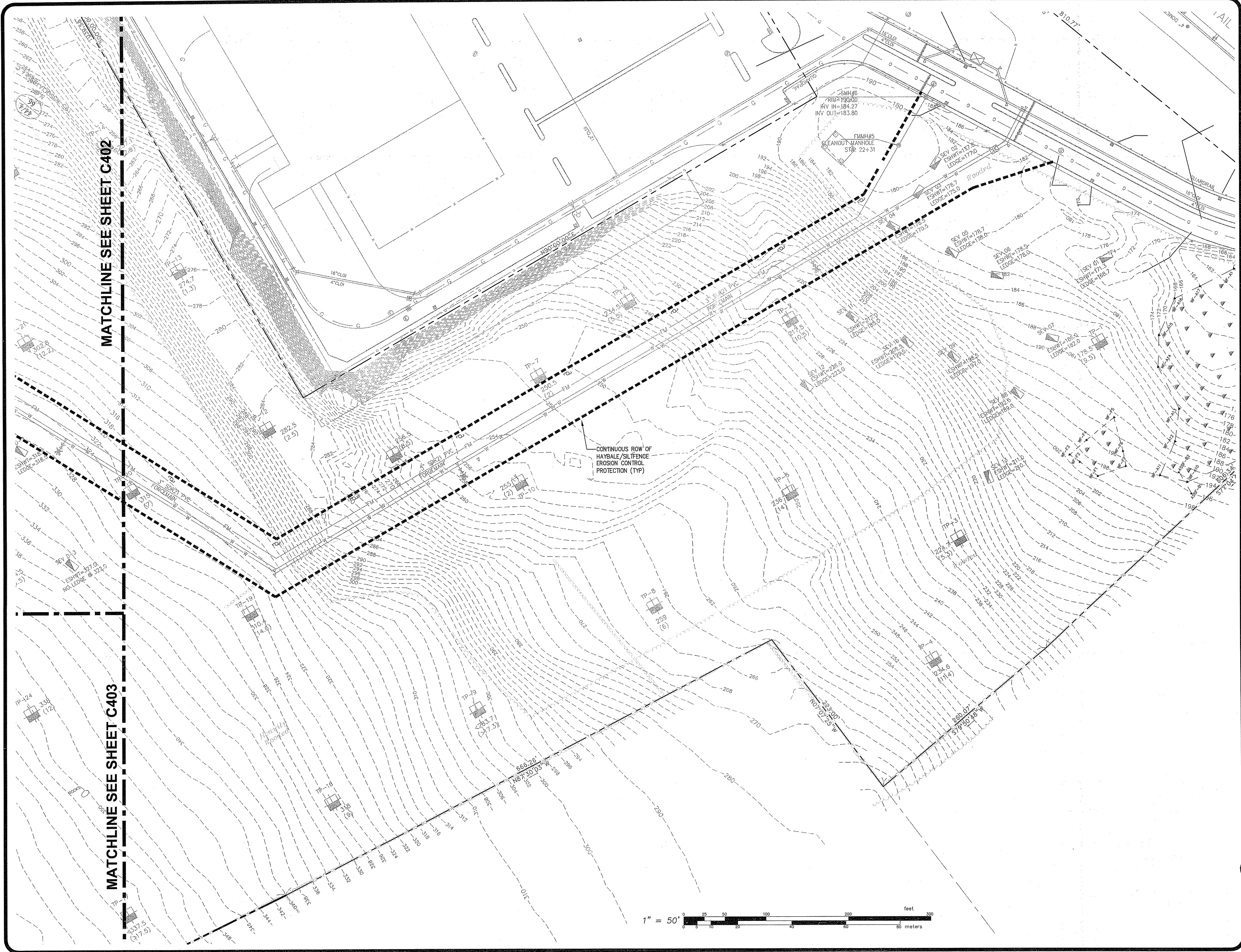
DRAWN BY PJD
CHECKED SBG
APPROVED SBG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS AND MARSHES
DATE: MAR 18 2009
FILE # 08-0099

APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED FOR CONSTRUCTION SITE

C403

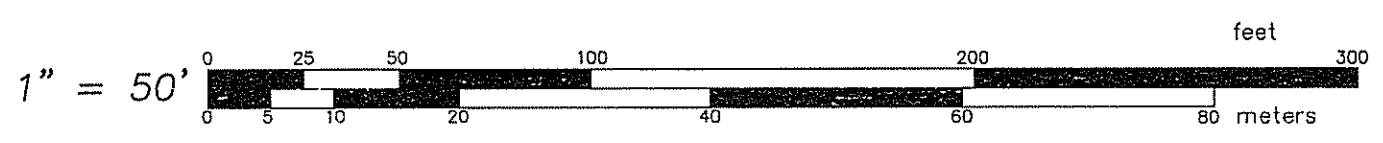
19 OF 39 SHEET



MATCHLINE SEE SHEET C402

MATCHLINE SEE SHEET C403

CONTINUOUS ROW OF
HAYBALE/SILTENCE
EROSION CONTROL
PROTECTION (TYP)



SITE GRADING PLAN 4
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
FEB 13 2009
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER
STEVEN B. GAROFALO
No. 6145
2-11-09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
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AND DATE OF THIS SITE AND IS NOT TO BE
THE OWNER OR ONE OF ITS DIRECTORS.

JOB NO. 5570-07
DWG. NO. 5570-C404

DRAWN BY PJD
CHECKED SBG

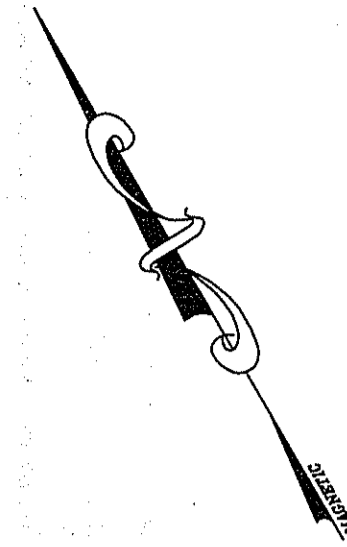
SCALE: AS SHOWN
APPROVED SBG

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
DATE: MAR 18 2009
FILE # DS-0071

AS SPECIFIED IN THE LETTER OF APPROVAL
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
PROVIDED THIS MUST BE AT CONSTRUCTION SITE.

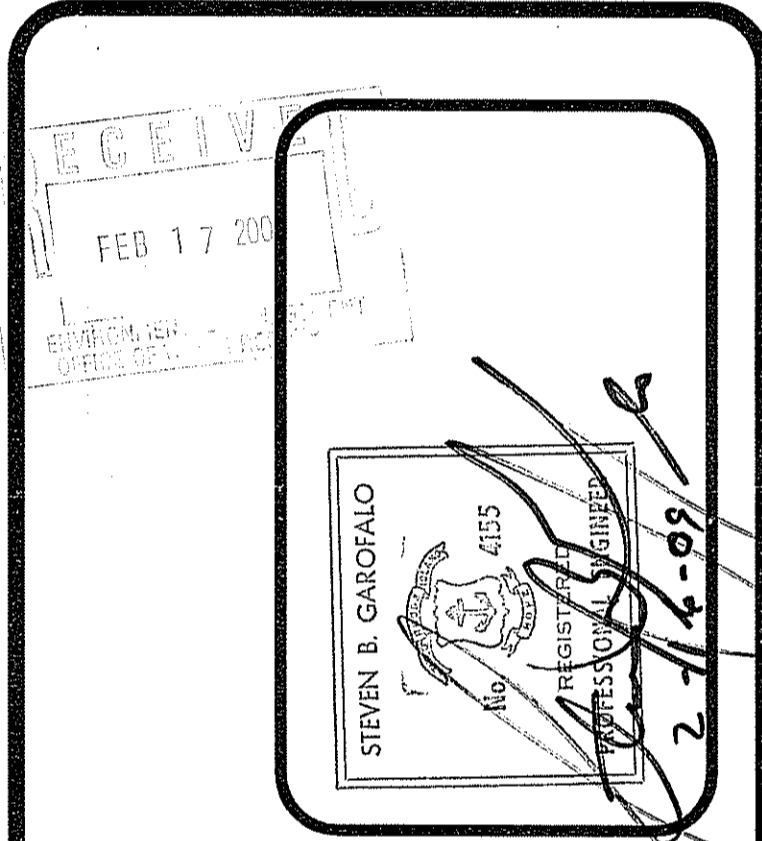
C404

20 OF 39 SHEET



SITE UTILITY PLAN 1
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC
FEB 16 2009

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

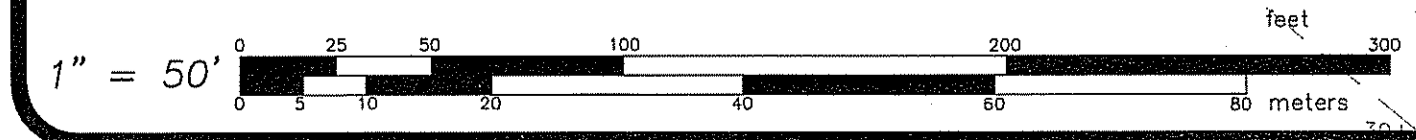
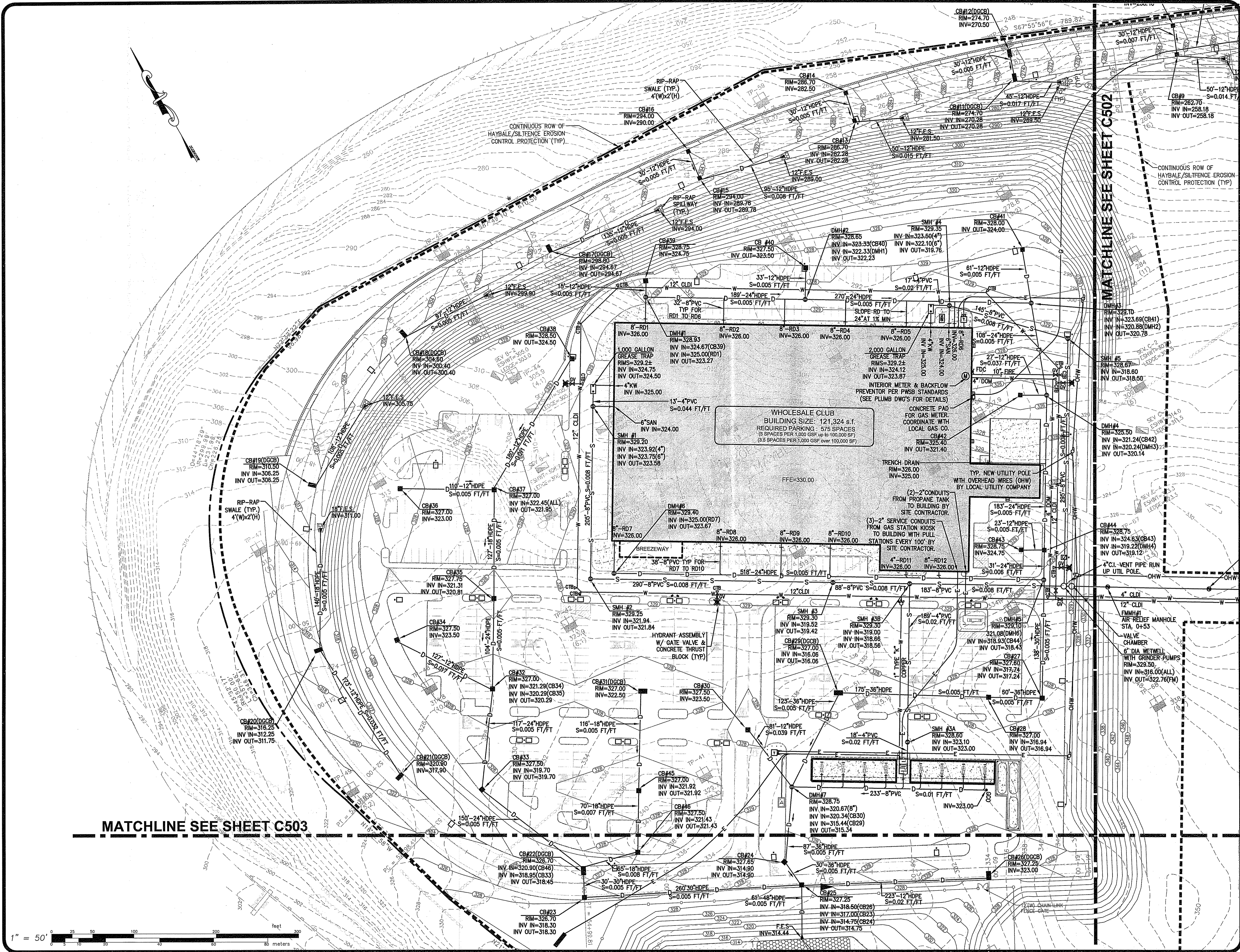


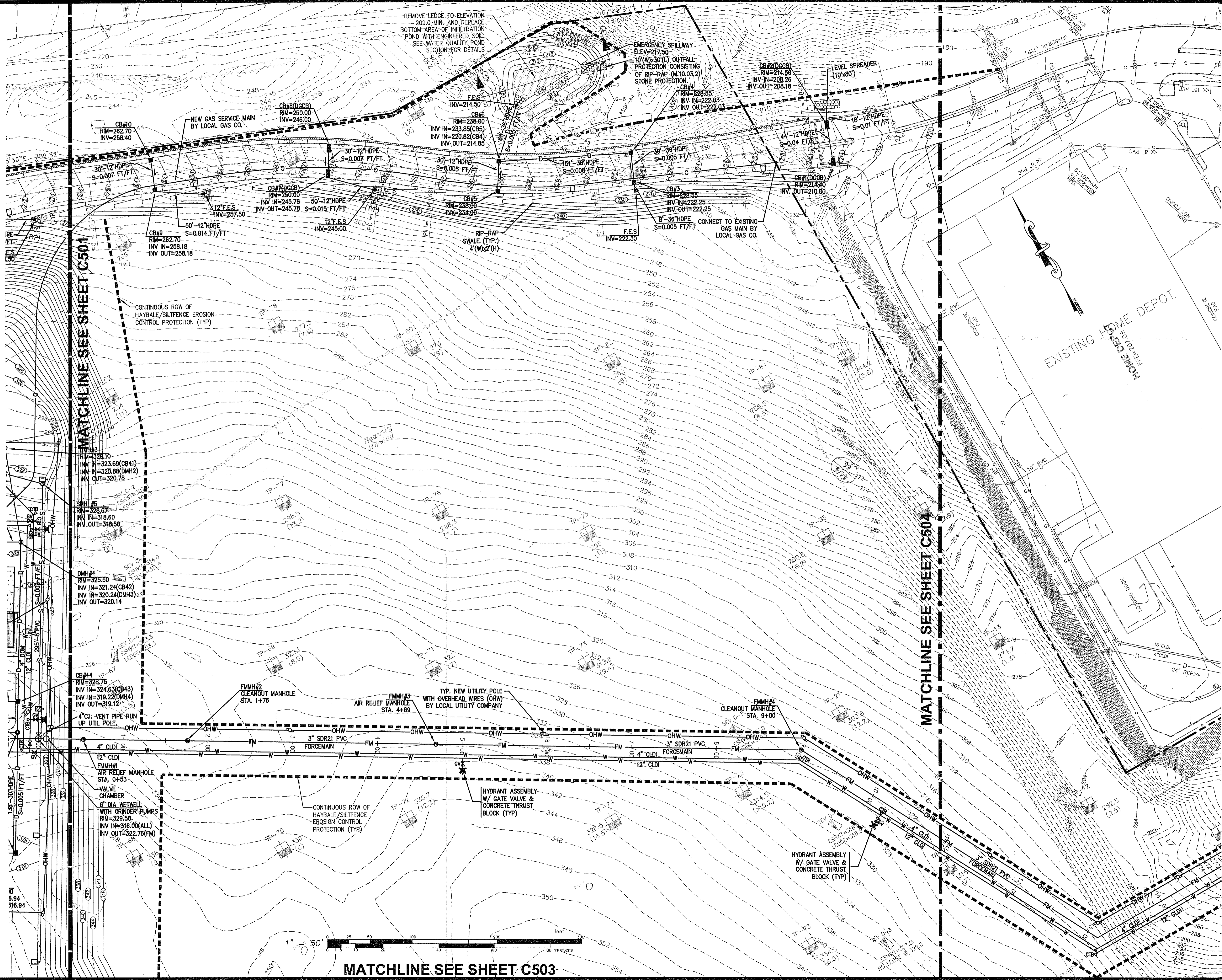
GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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TEL. 401-273-6000

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AND DATE OF THIS SHEET IS TO BE UP TO
THIS OWNER OR ONE OF ITS DIRECTORS.

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-G&U	CHECKED SBG
SCALE: AS SHOWN	APPROVED SBG
PARTNERSHIP ENVIRONMENTAL MANAGEMENT, INC. CIVIL ENGINEERS FRESH WATER WETLANDS MARKING 2008	
PREPARED IN THE LETTER OF APPROVAL SHEET 1 & 2009 FILE # 08-0099 CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED FOR THE MUNICIPALITY AT THE DISTRIBUTION SITE	
C501	
22 OF 39 SHEET	





SITE UTILITY PLAN 2
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009

STEVEN B. GAROFALO
Professional Engineer
No. 015
2/16/09

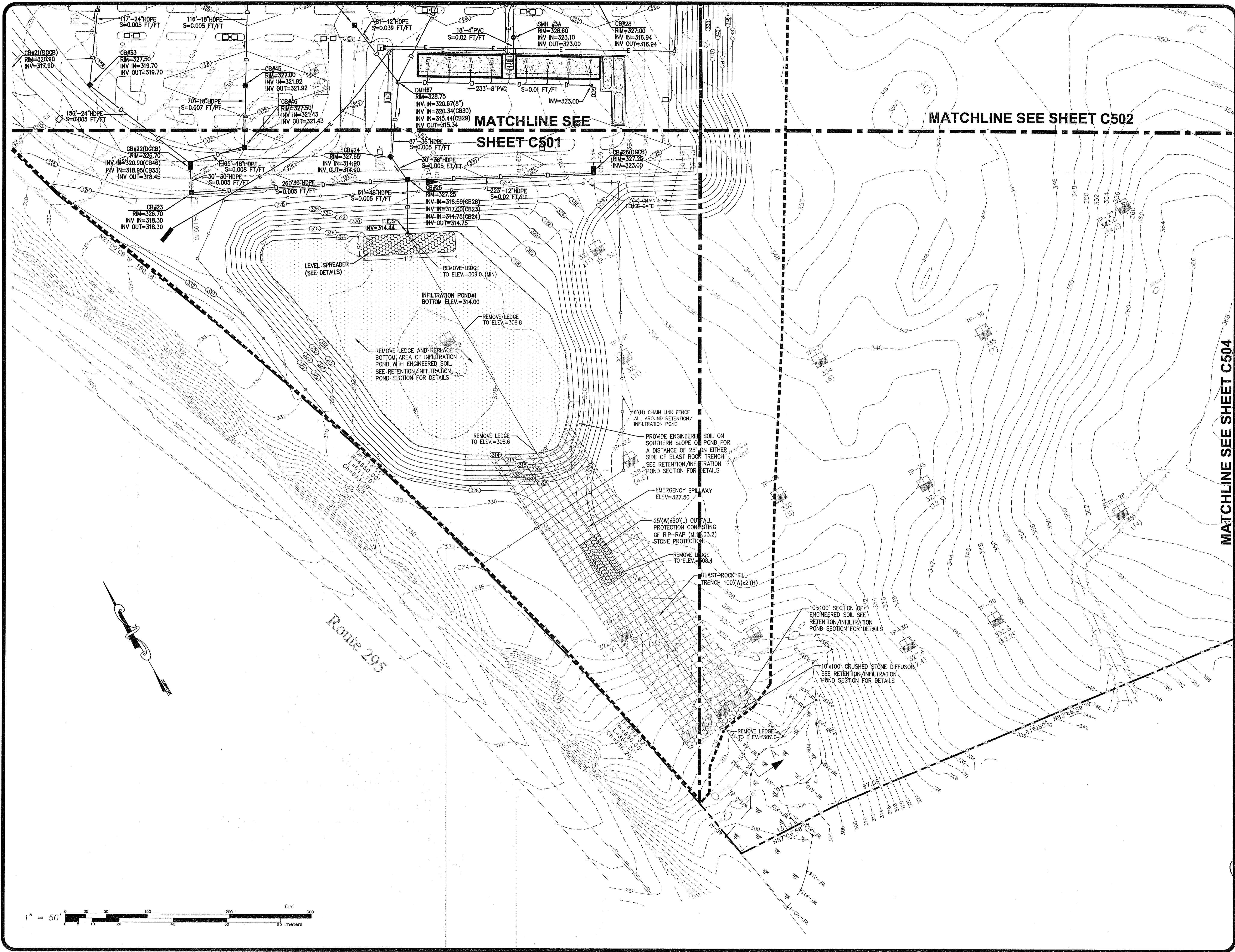
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GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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PROVIDENCE, R.I. 02940
TEL. 401-273-6000

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ASSOCIATES, INC.

JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-G&U	CHECKED SBG
SCALE: AS SHOWN	APPROVED SBG
ARTWELL ENVIRONMENTAL MANAGEMENT OF PROVIDENCE WATER UTILITIES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS 2/21/09	
SCHEDULED IN THE LETTER OF APPROVAL DATE 1/8/2009 FILE # 08-0097	
CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

C502



SITE UTILITY PLAN 3
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
 FEB 17 2009
 ENGINEERING DEPARTMENT
 PROVIDENCE, R.I.

STEVEN B. GAROFALO
 REGISTERED PROFESSIONAL ENGINEER
 No. 4155
 State of Rhode Island
 2-14-09

GAROFALO

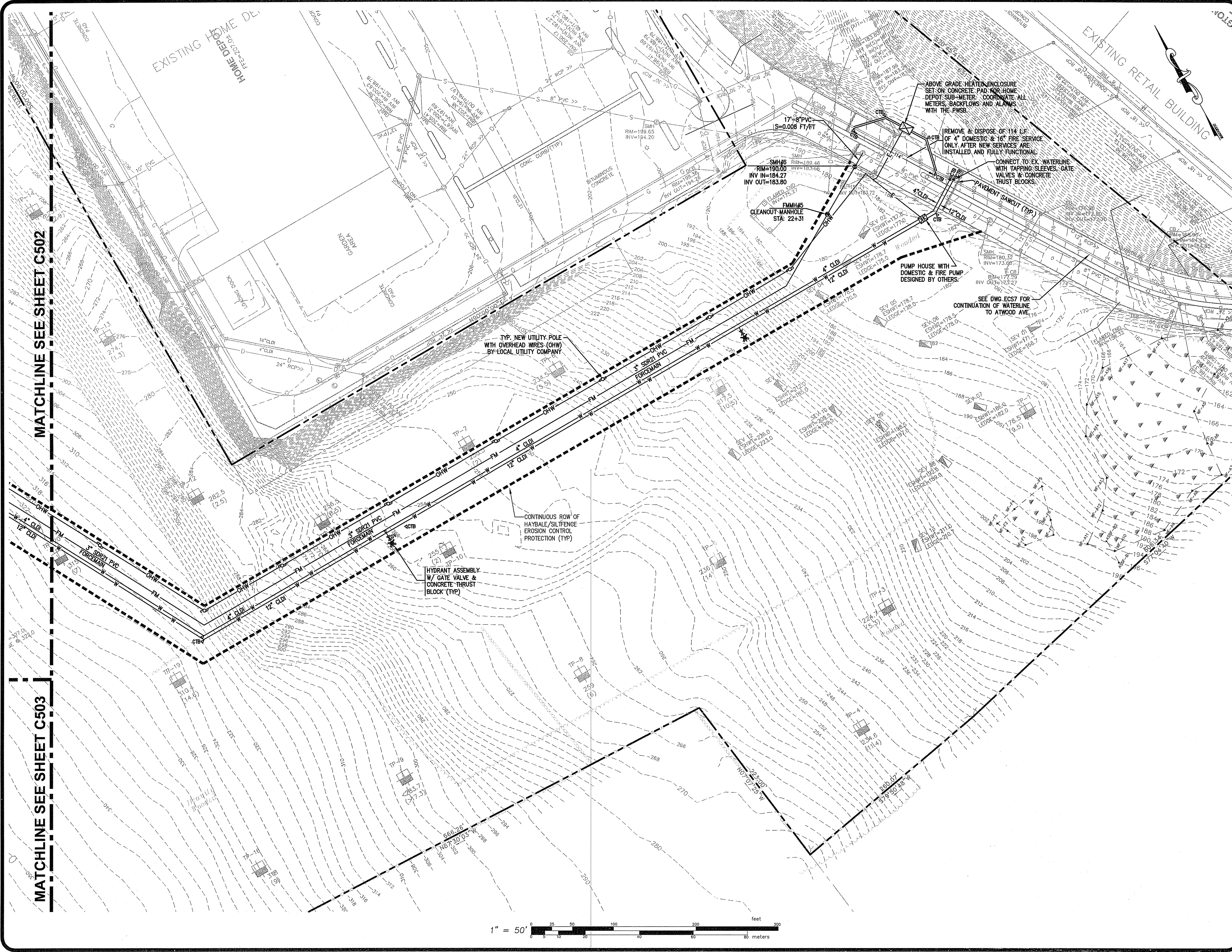
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-07-03	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DIVISION OF WATER RESOURCES FRESHWATER WETLANDS APPROVED FOR CONSTRUCTION DATE: MAR 18 2009 FILE # 08-0099 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

C503



MATCHLINE SEE SHEET C-502

MATCHLINE SEE SHEET C-503

SITE UTILITY PLAN 4
 FOR
STONEHILL MARKETPLACE
 SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
 FEB 19 2009
 PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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FEB 17 2009

STEVEN B. GAROFALO
 No. 4155
 REGISTERED PROFESSIONAL ENGINEER
 2/16/09

GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
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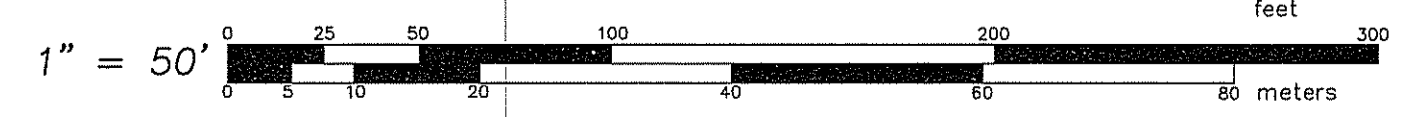
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DWG. NO. 5570-C-504	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG

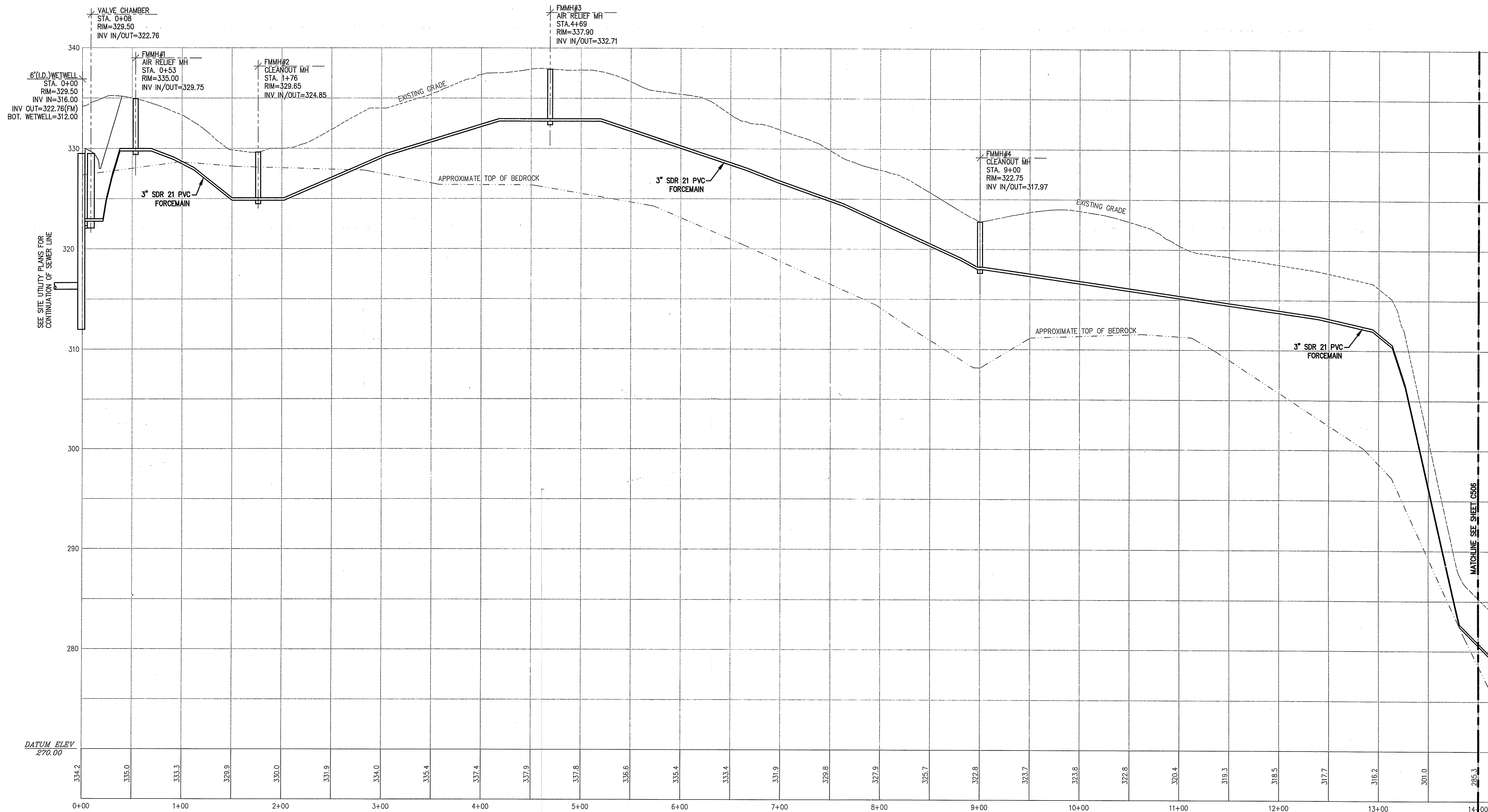
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS

AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEBRUARY 18 2009 FILE # 08-0097
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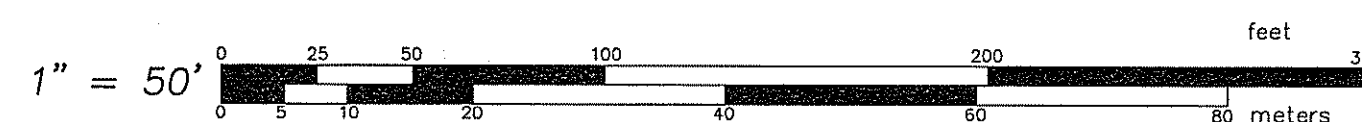
C504

25 OF 39 SHEET





PROFILE OF FORCEMAIN FROM STA. 0+00 TO 14+00



PROFILE OF FORCEMAIN PLAN 1
 FOR
 STONEHILL MARKETPLACE
 SITUATED ON
 ATWOOD AVENUE
 JOHNSTON, RHODE ISLAND
 PREPARED FOR
 195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/28/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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 CIVIL ENGINEERING DIVISION
 OFFICE OF THE REGISTERED PROFESSIONAL ENGINEERS

STEVEN B. GAROFALO
 No. 4153
 REGISTERED PROFESSIONAL ENGINEER
 2/16/09

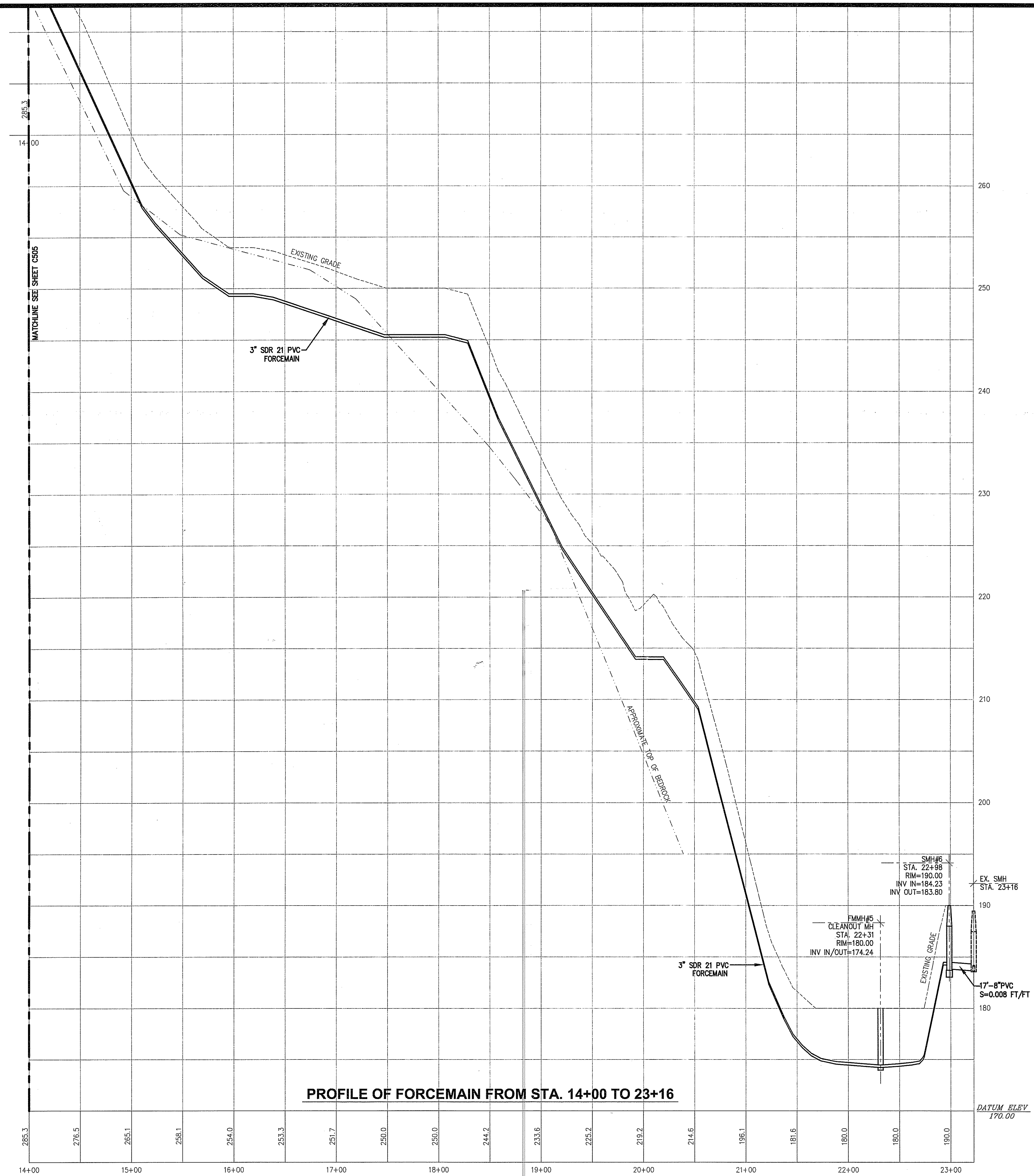
GAROFALO
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JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-C505	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG
DATE MARCH 24 2009	
AS SPECIFIED IN THE LETTER OF APPROVAL SHEET # 18 2009 FILE # 08-0079	
CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE	

C505



PROFILE OF FORCEMAIN FROM STA. 14+00 TO 23+16

PROFILE OF FORCEMAIN PLAN 2
 FOR
 STONEHILL MARKETPLACE
 SITUATED ON
 ATWOOD AVENUE
 JOHNSTON, RHODE ISLAND
 PREPARED FOR
 195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

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 FEB 17 2009
 PROFESSIONAL ENGINEER
 STEVEN B. GAROFALO
 4155
 2-11-09

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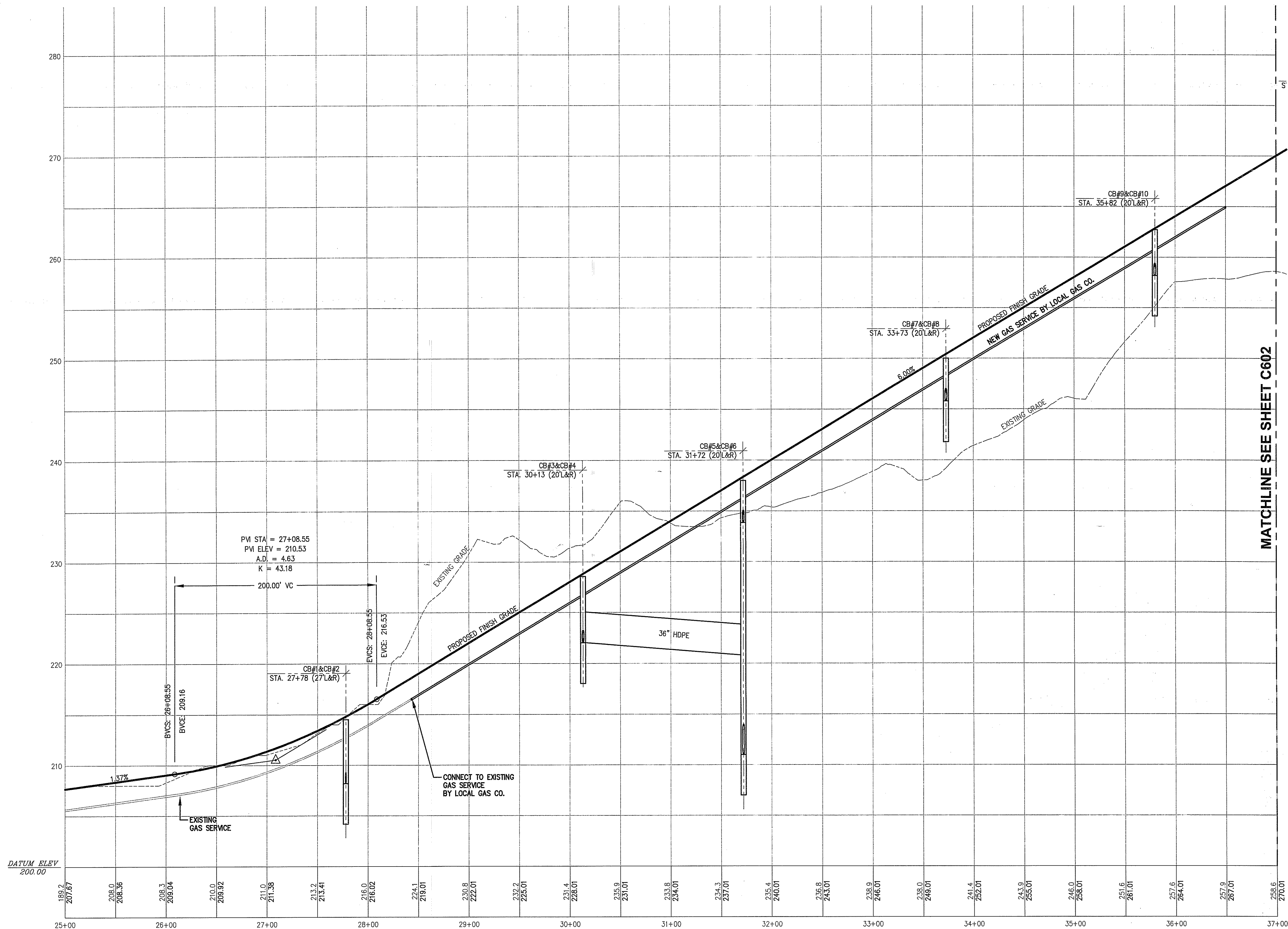
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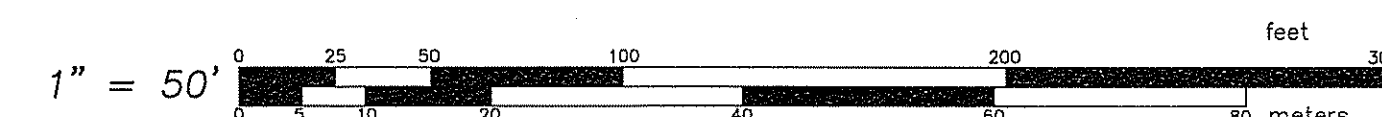
JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-07	CHECKED SBG
SCALE AS SHOWN	APPROVED SBG
DATE MAR 18 2009	DATE MAR 18 2009

AS SPECIFIED IN THE LETTER OF APPROVAL
 SHEET # 08-0099
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

C506



ACCESS DRIVE PROFILE STA. 25+00 TO 37+00



ACCESS DRIVE PROFILE 1
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
STEVEN B. GAROFALO
REG. NO. 4155
PROVIDENCE, R.I.
276-97

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CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
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PROVIDENCE, R.I. 02940
TEL. 401-273-6000

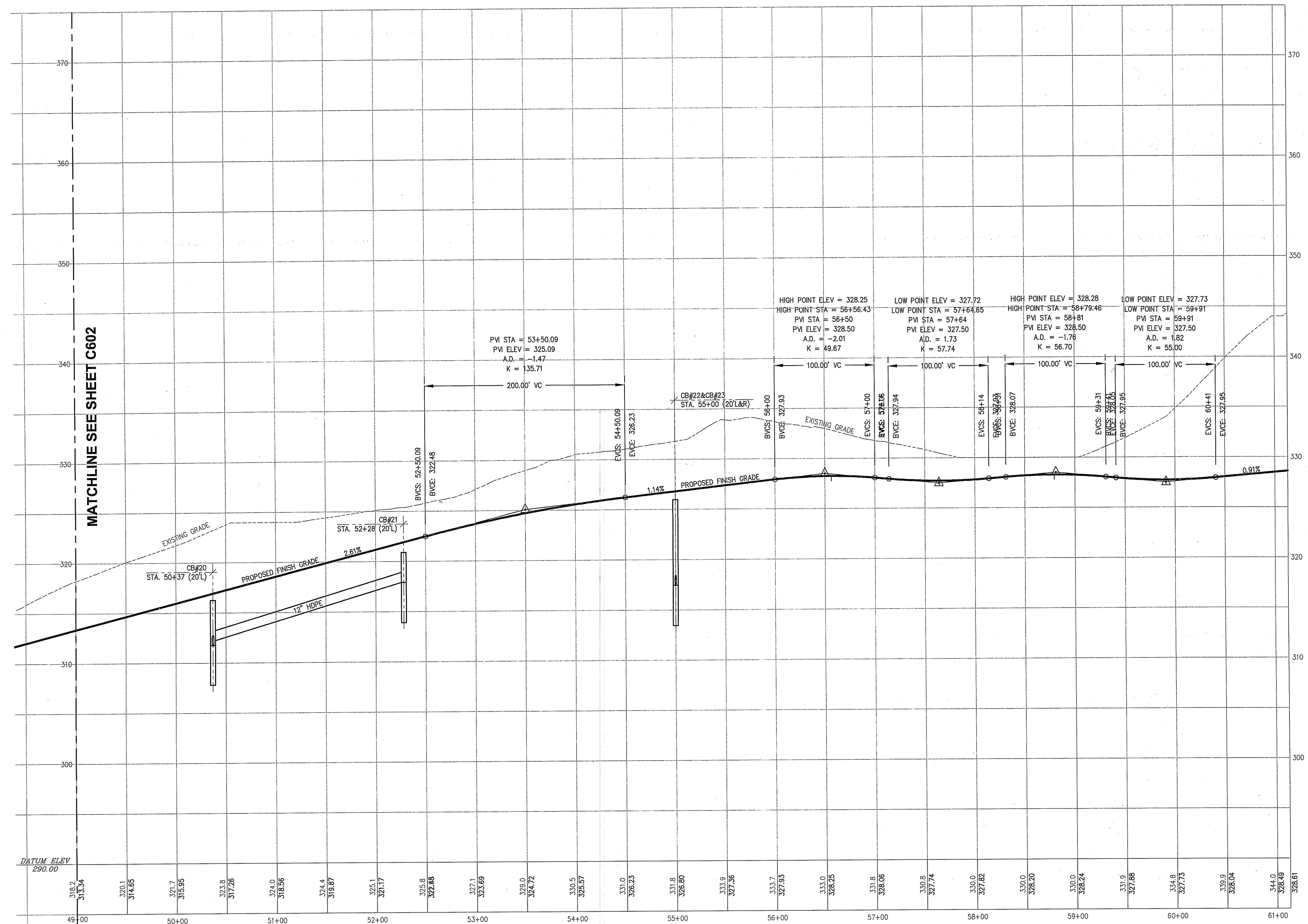
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JOB NO. 5570-07	DRAWN BY PJD
DWG. NO. 5570-G&S	CHECKED SBG
SCALE: 1" = 50'	APPROVED SBG
DATE: MAR 18 2009 FILE # 08-0099	

C601

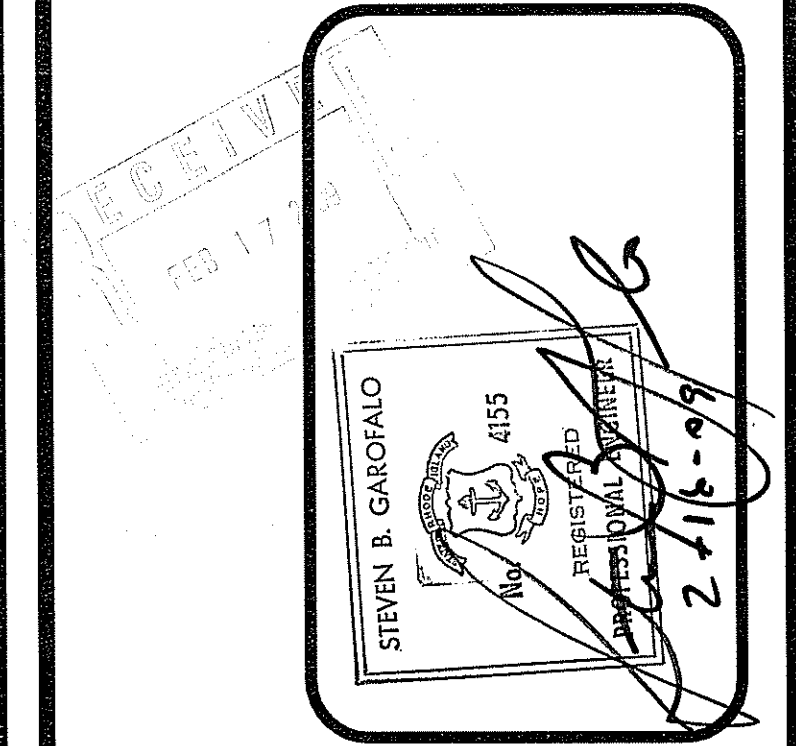
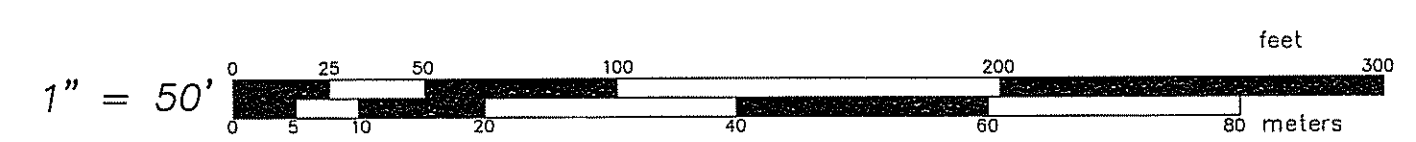
ACCESS DRIVE PROFILE 3
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09



MATCHLINE SEE SHEET C602

ACCESS DRIVE PROFILE STA. 49+00 TO 61+12



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JOB NO. 5570-07
DWG. NO. 5570-G&A

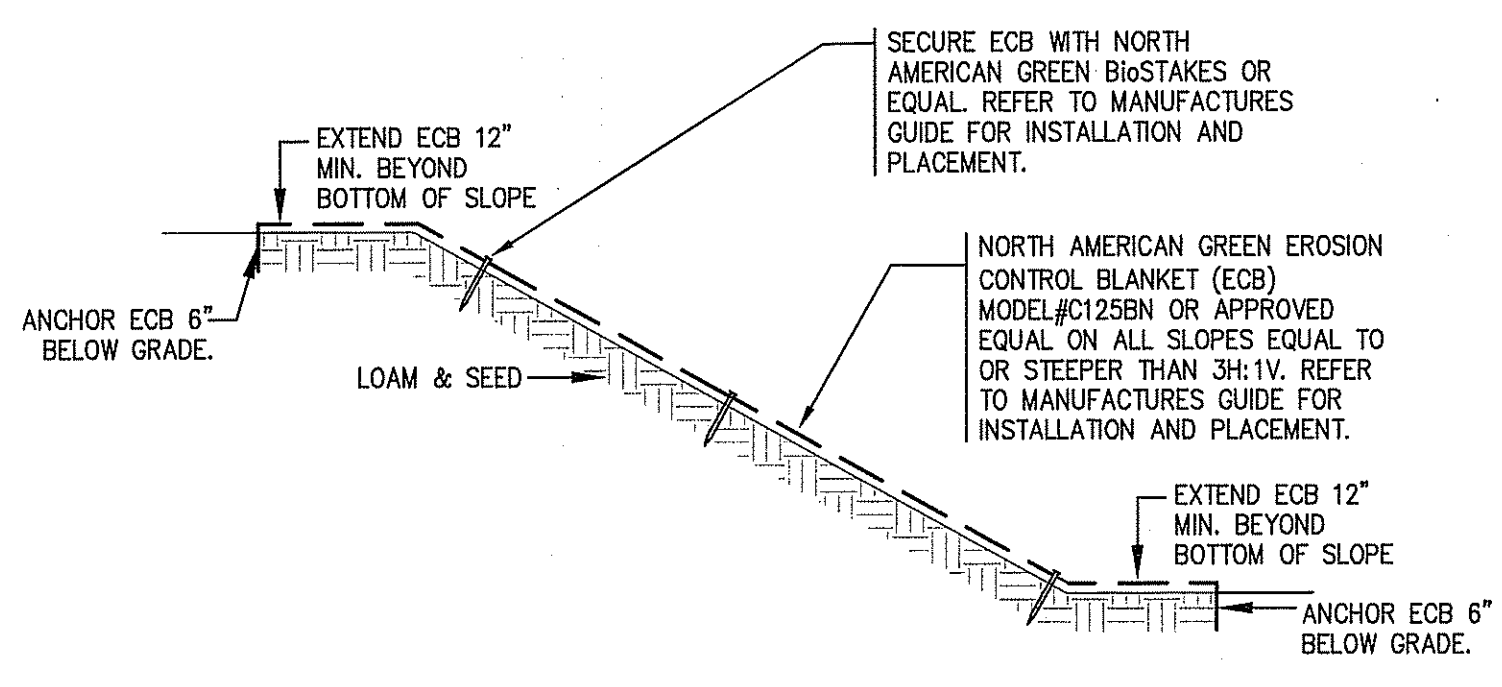
DRAWN BY PJD
CHECKED SBG
APPROVED SBG

SCALE: 1" = 50'

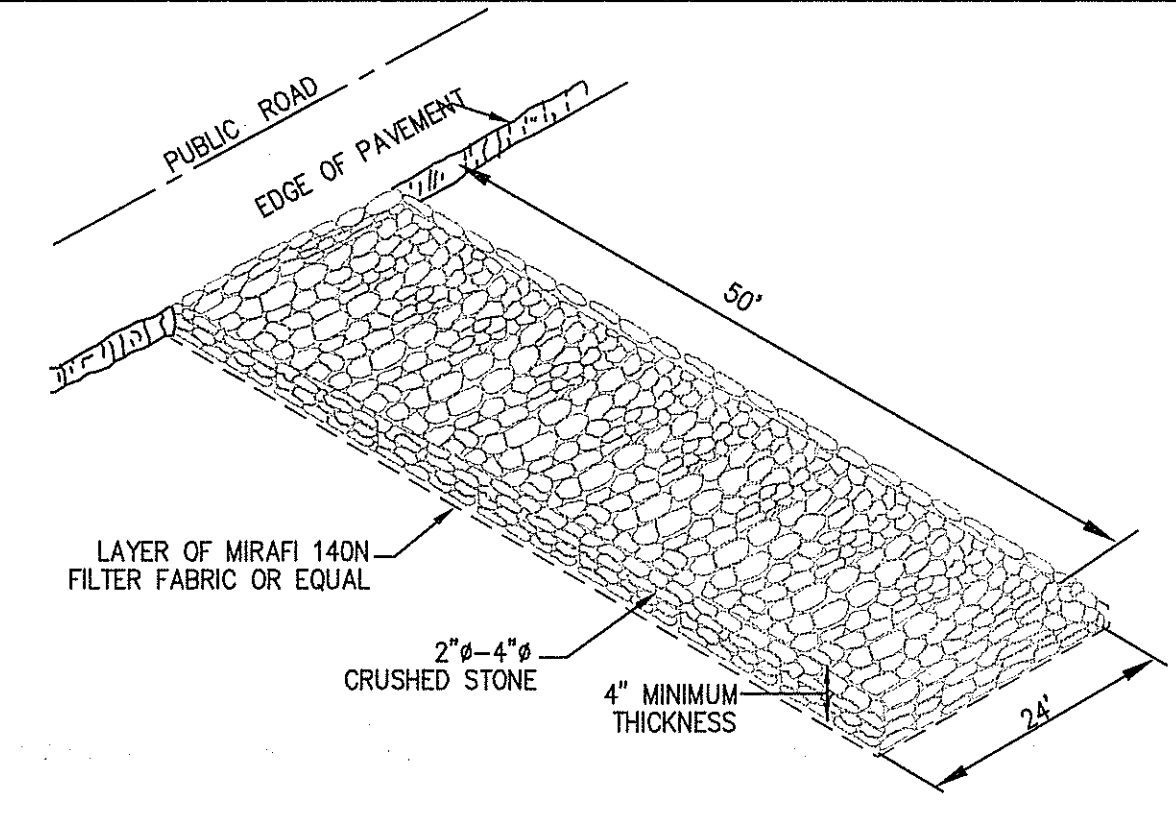
DATE: MAR 18 2009

C603

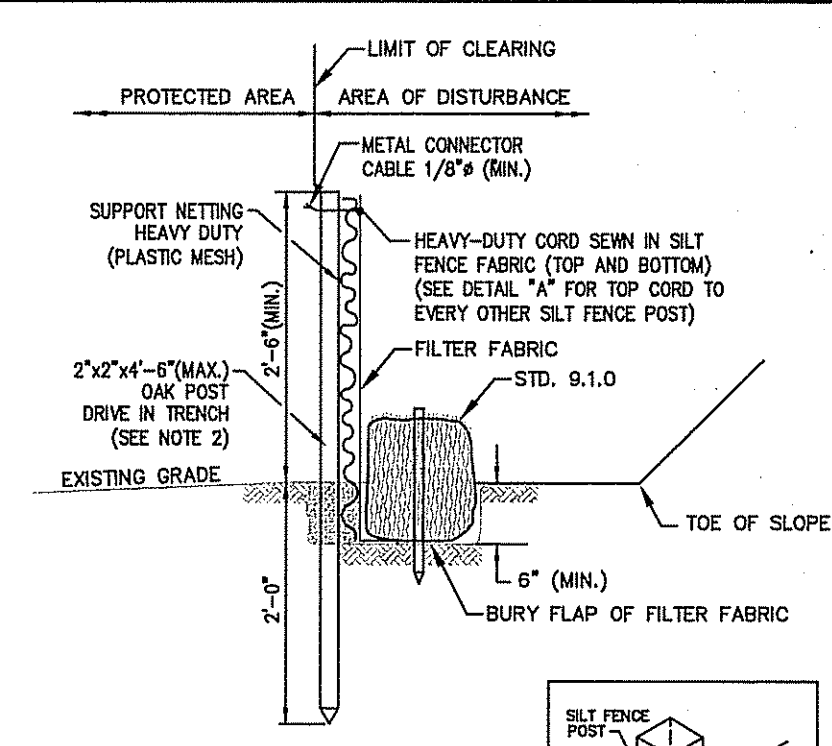
30 OF 39 SHEET



1 SLOPE PROTECTION TREATMENT DETAIL
C701 N.T.S.

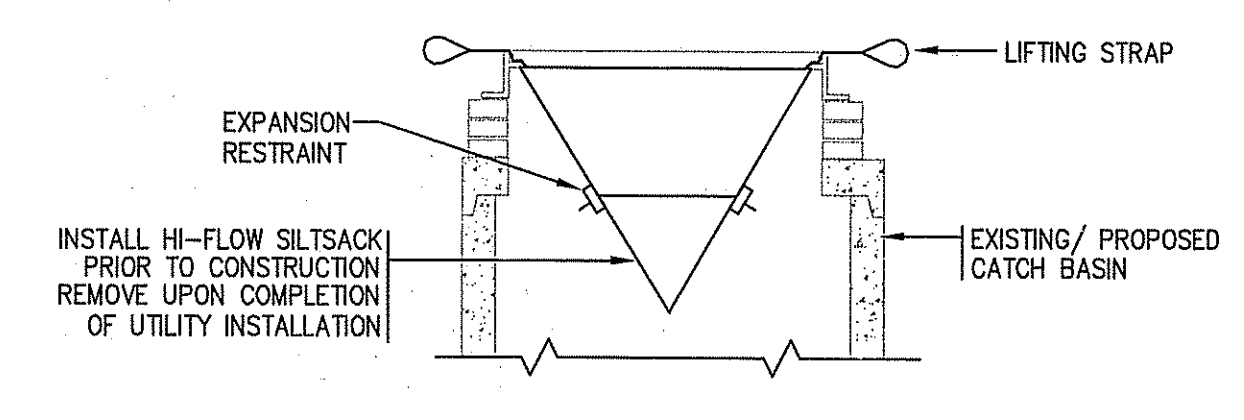


2 CONSTRUCTION EXIT DETAIL
C701 N.T.S.

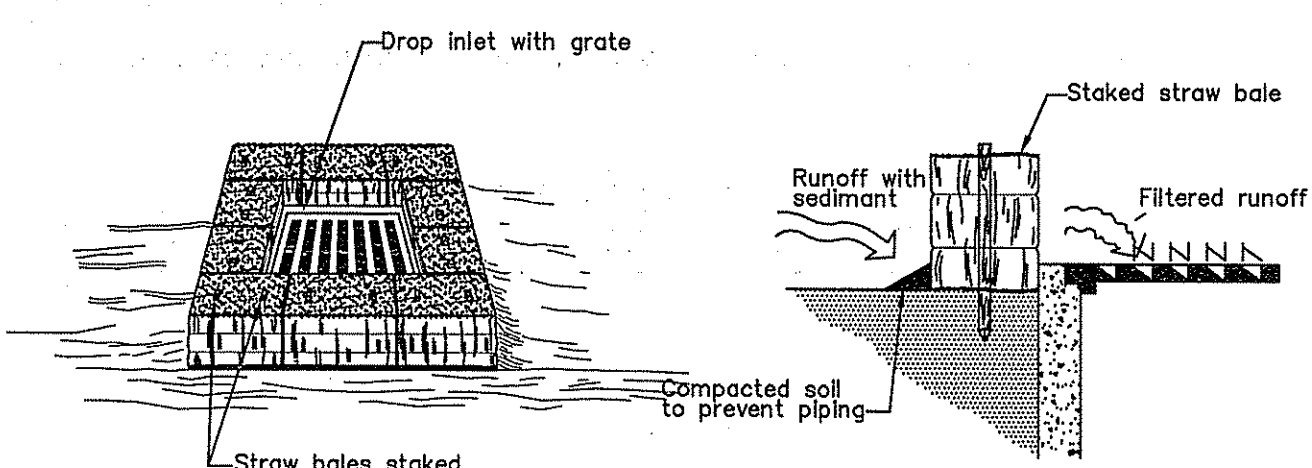


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE THROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE SHALL NOT BE SLIT.
3. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x4" (MAX.) O.C. IN WETLAND AREAS AND 4"-6" (MAX.) O.C. IN WETLAND BEING, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
4. 1"x4" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
5. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

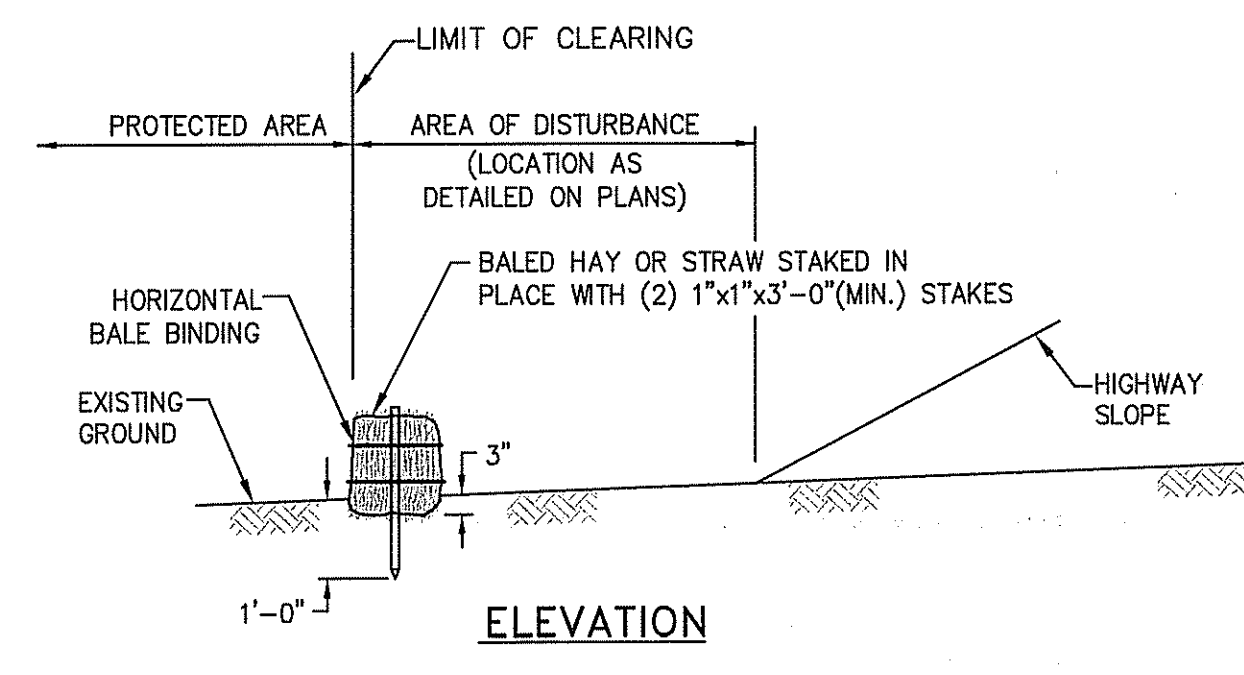
3 DETAIL OF HAYBALE & SILT BARRIER
C701 (R.I. STD 9.3.0) N.T.S.



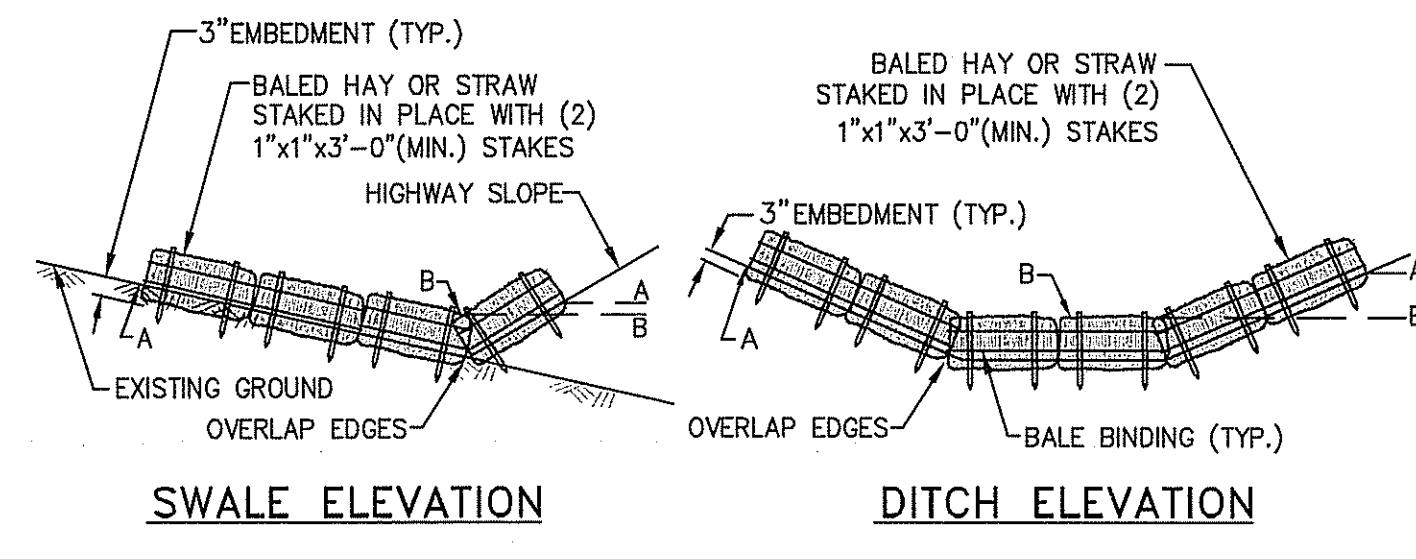
4 SILTSACK® AT CATCH BASIN DETAIL
C701 N.T.S.



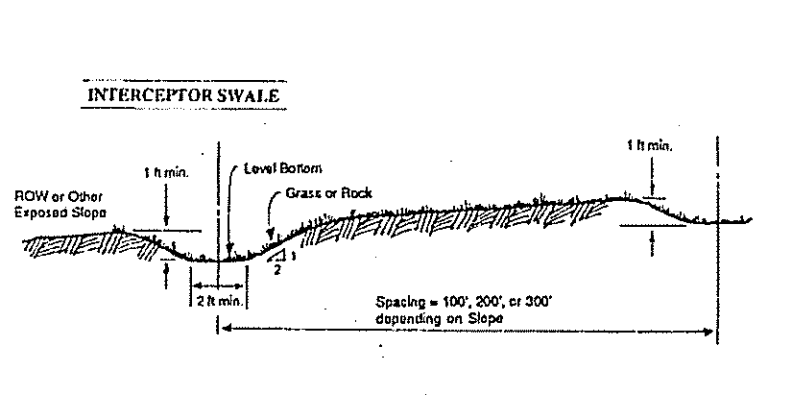
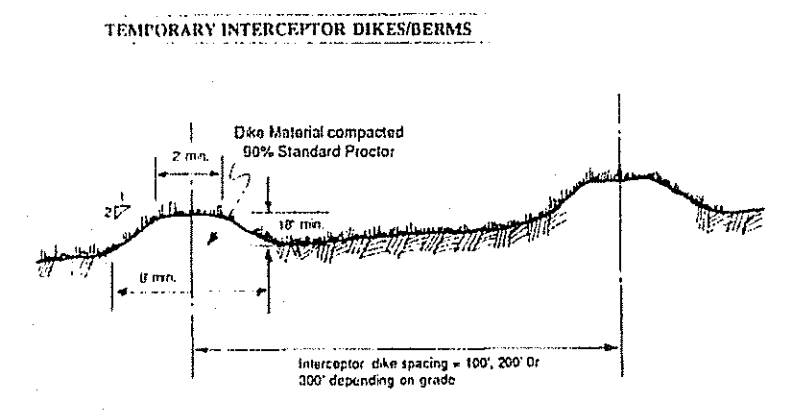
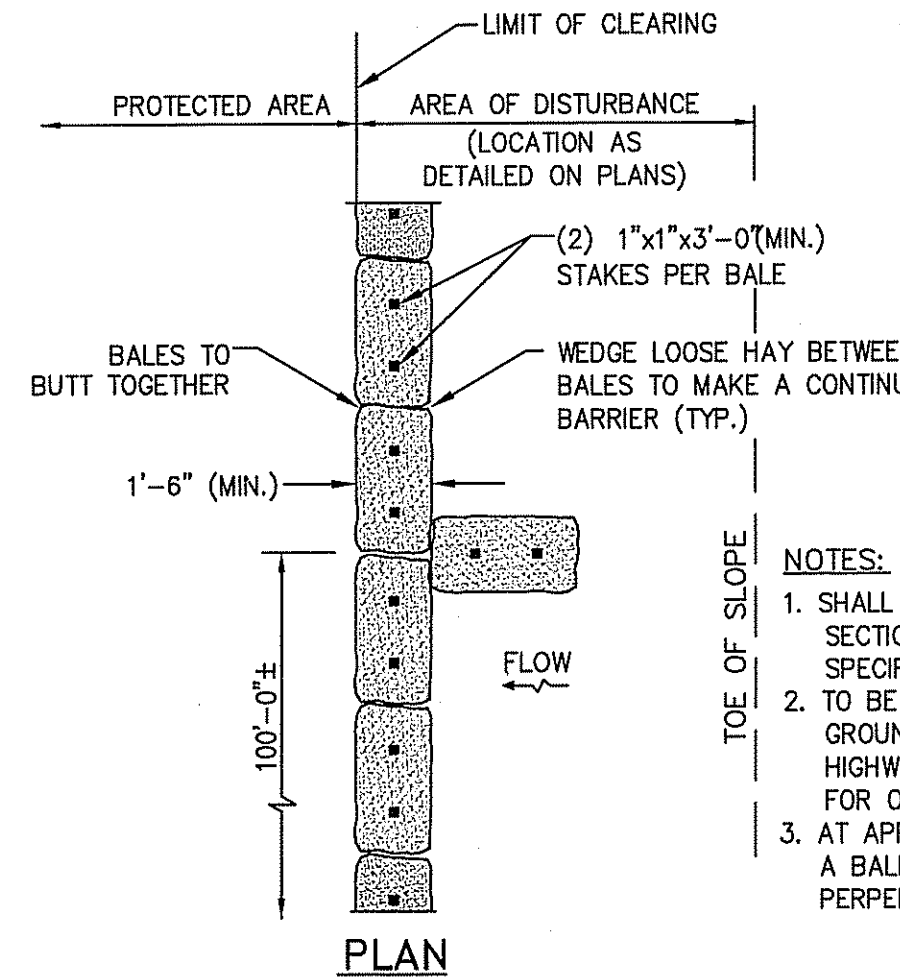
5 DROP INLET PROTECTION
C701 NOT TO SCALE



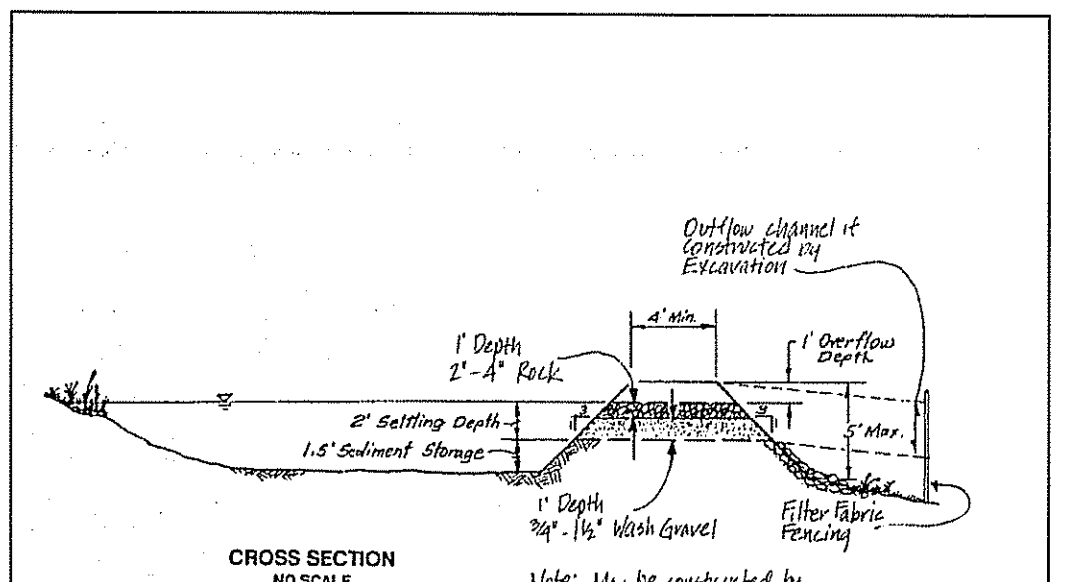
6 BALED HAY EROSION CHECK
C701 (R.I. STD 9.1.0) N.T.S.



7 BALED HAY DITCH AND SWALE EROSION CHECK
C701 (R.I. STD 9.4.0) N.T.S.



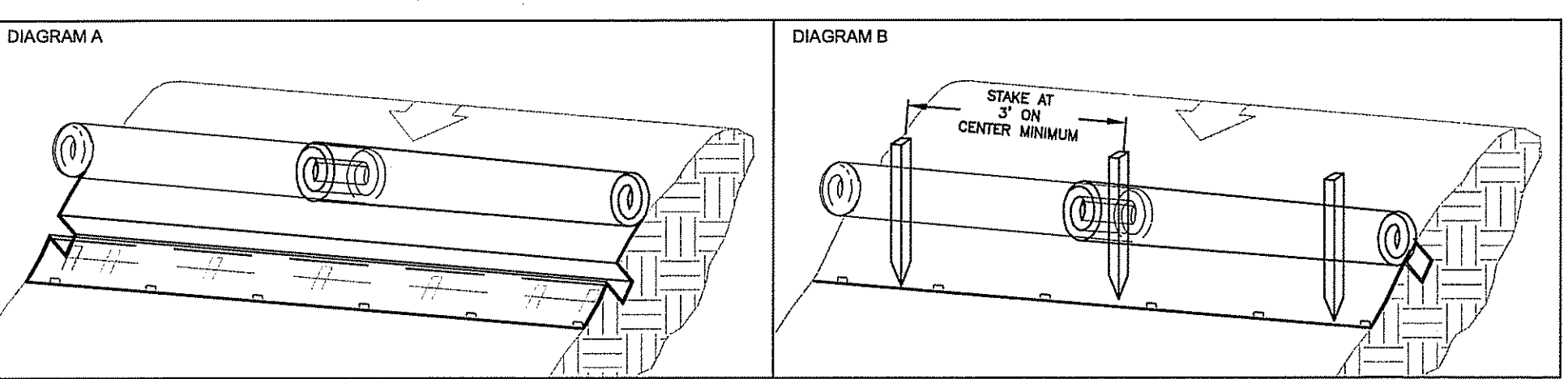
8 TEMPORARY DISTURBANCE RUNOFF DIVERSION DETAILS
C701 N.T.S.



9 SEDIMENT TRAP
C701 N.T.S.

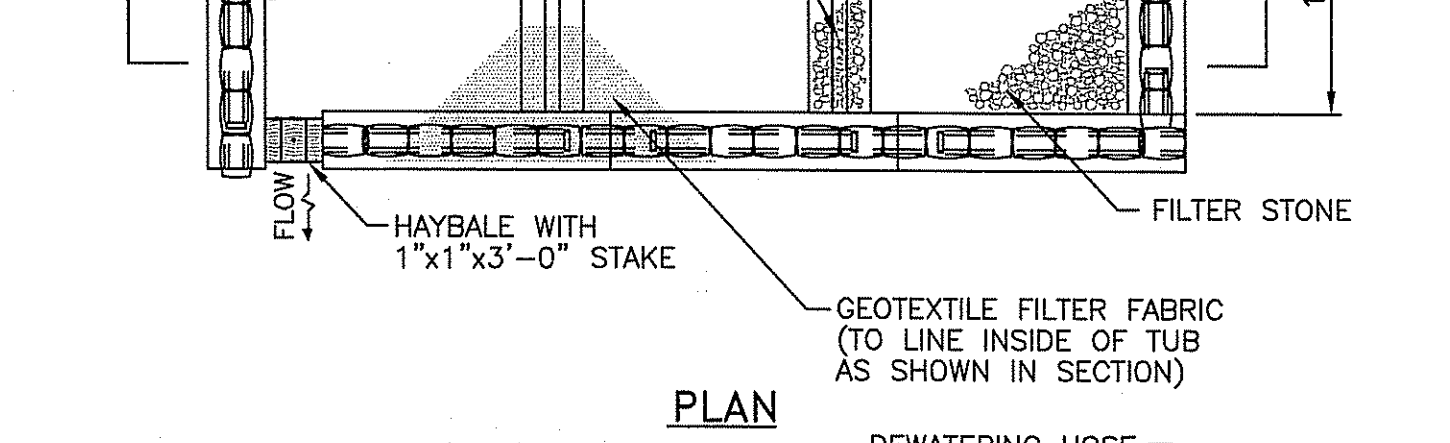
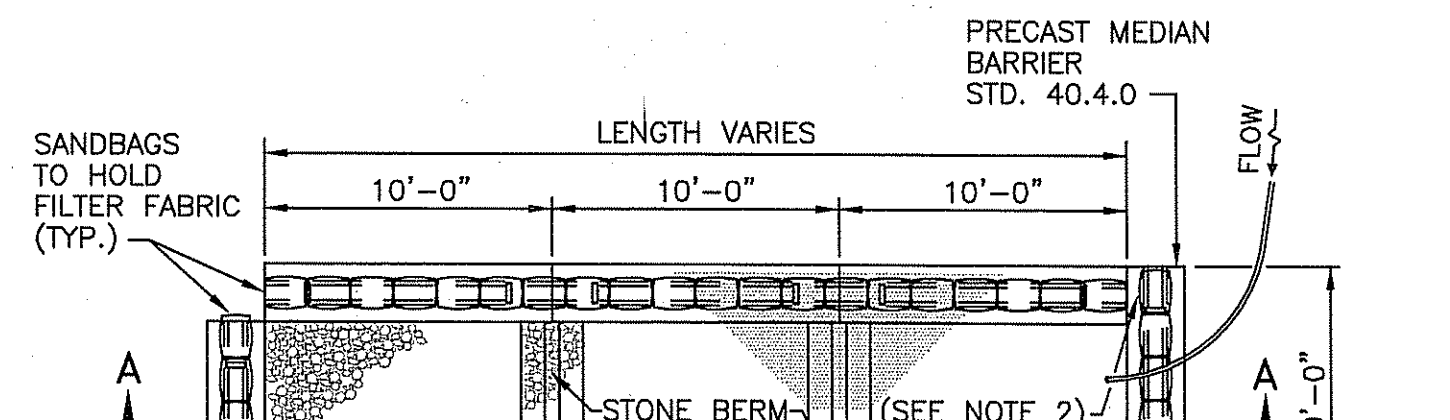
6 BALED HAY EROSION CHECK
C701 (R.I. STD 9.1.0) N.T.S.

7 BALED HAY DITCH AND SWALE EROSION CHECK
C701 (R.I. STD 9.4.0) N.T.S.



- BEGIN AT THE LOCATION WHERE THE SEDIMENTSTOP (Patent Pending) IS TO BE INSTALLED BY EXCAVATING A 3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
- UNROLL THE SEDIMENTSTOP SO THE SECTION WITH THE 2' WIDE TOP NETTING IS THE DOWN SLOPE END (SPASH APRON). THE SPLASH APRON OF THE SEDIMENTSTOP SHOULD COVER THE ANCHOR TRENCH ENSURING THAT APPROXIMATELY 12" IS EXTENDED BEYOND THE LOWER EDGE OF THE ANCHOR TRENCH. NOTE: SEEDING MUST BE CONDUCTED PRIOR TO INSTALLATION OF THE SEDIMENTSTOP.
- SECURE THE SEDIMENTSTOP IN THE ANCHOR TRENCH BY PLACING A ROW OF STAPLES/STAKES ON 12" CENTERS ACROSS THE ENTIRE LENGTH OF THE SEDIMENTSTOP. A SECOND ROW OF STAPLES/STAKES MUST BE PLACED ACROSS THE ENTIRE LOWER EDGE OF THE SEDIMENTSTOP SPLASH APRON ON APPROXIMATELY 12" CENTERS, STAGGERED WITH THE FIRST ROW OF STAPLES/STAKES.
- BEGIN ROLLING THE SEDIMENTSTOP FROM ITS UPPER EDGE (UP-SLOPE EDGE) INTO A CONSISTENT ROLL DIAMETER UNTIL THE ROLL IS LOCATED IN THE ANCHOR TRENCH. IF A LARGER DIAMETER STRUCTURE IS DESIRED, PLACE ADDITIONAL ORGANIC MATERIAL (I.E. STRAW, LEAVES, PINE NEEDLES OR LAWN CLIPPINGS) ACROSS THE ENTIRE WIDTH OF THE SEDIMENTSTOP PRIOR TO ROLLING. SEE DIAGRAM 4a FOR SEAMING OF ADJACENT SEDIMENTSTOP ROLLS.
- STOP ROLLING THE SEDIMENTSTOP WHEN THE ROLL IS LOCATED IN THE ANCHOR TRENCH.
- SECURE THE SEDIMENTSTOP STRUCTURE TO THE SLOPE SURFACE BY DRIVING APPROXIMATELY 18" - 24" STAKES THROUGH THE CENTER OF THE ROLL EVERY 3' ON CENTER. IF TWO SEDIMENTSTOP STRUCTURES ARE SEAMED TOGETHER ENSURE A STAKE IS DRIVEN THROUGH THE SEAM. THE FINAL STRUCTURE'S DIAMETER WILL DICTATE STAKE LENGTH. LEAVE A SUFFICIENT AMOUNT OF STAKE EXPOSED ABOVE THE SEDIMENTSTOP TO ENSURE THE STRUCTURE IS NOT COMPRESSED. BOTH LONGITUDINAL ENDS SHOULD BE ANGLED UP SLOPE.
- BACKFILL AND COMPACT SOIL INTO THE UP-SLOPE PORTION OF THE ANCHOR TRENCH. SMOOTH AND LEVEL ANY SOIL REMAINING ABOVE THE SEDIMENTSTOP NOT USED TO FILL THE ANCHOR TRENCH. PLACE SEED ALONG UP-SLOPE PORTION OF SEDIMENTSTOP IF REQUIRED.

10 SEDIMENTSTOP INSTALLATION DETAIL
C701 N.T.S.



11 DEWATERING BASIN
C701 (R.I. STD 9.7.0) N.T.S.

11 DEWATERING BASIN
C701 (R.I. STD 9.7.0) N.T.S.

SITE DETAILS - PLAN 1
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

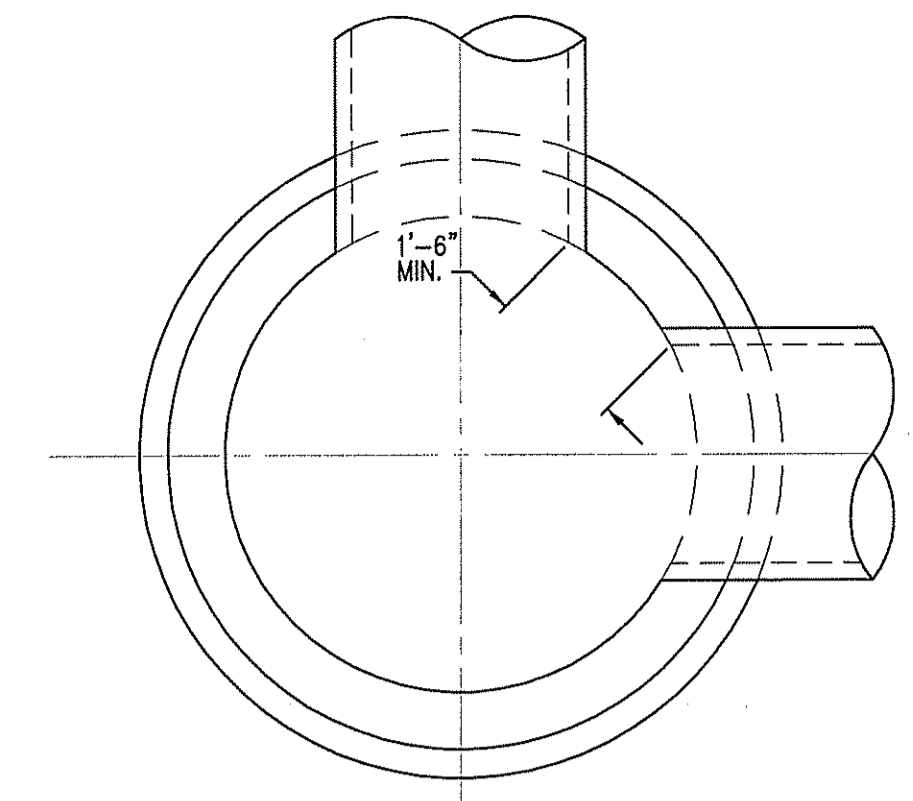
NO.	REVISION	BY	DATE
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2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
STEVEN B. GAROFALO
No. 4155
REGISTERED PROFESSIONAL ENGINEER
2/16/09

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GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
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85 CORLISS STREET
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JOB NO. 5570-07
DWG. NO. 5570-DETAILS/NOTES
SCALE: AS SHOWN
APPROVED: SBG
PARTNER IN ENVIRONMENTAL MANAGEMENT
AS SHOWN WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH COMMENTS
MAR 18 2009 FILE # 08-0099
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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C701
31 OF 39 SHEET



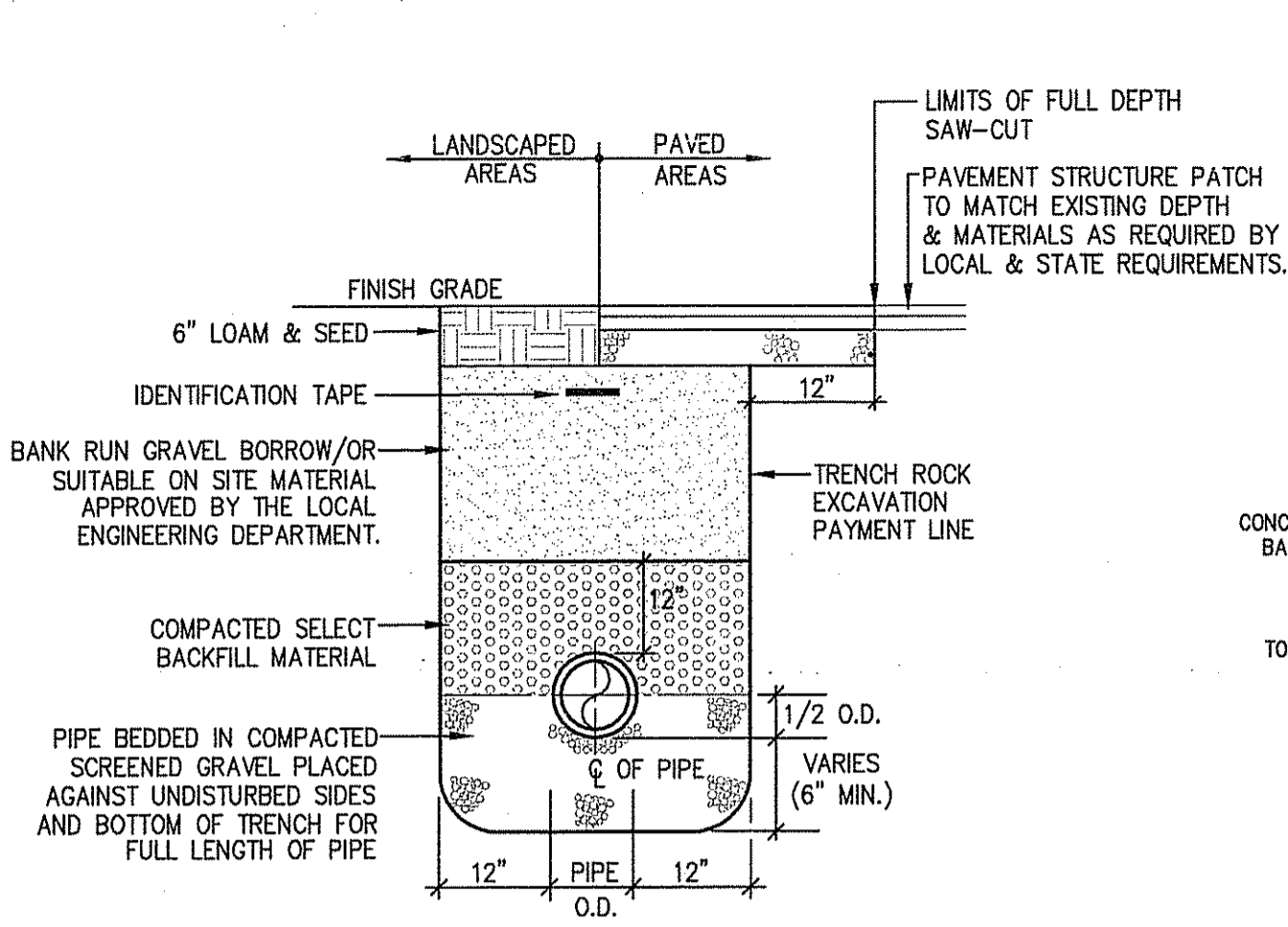
CROSS SECTION OF MANHOLE OR CATCH BASIN

	4 FT. MANHOLE OR CATCH BASIN	5 FT. MANHOLE OR CATCH BASIN	6 FT. MANHOLE OR CATCH BASIN
MAX. PIPE O.D. STRAIGHT THRU TO 45° DEFLECTION	33 1/2" O.D. 27" R.C. PIPE	44" O.D. 36" R.C. PIPE	51" O.D. 42" R.C. PIPE
MAX. PIPE O.D. 90° DEFLECTION	23" O.D. 18" R.C. PIPE	33 1/2" O.D. 27" R.C. PIPE	37" O.D. 30" R.C. PIPE

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND ENTRY ANGLE. (SEE TABLE ABOVE.)

**ROUND MANHOLES AND CATCH BASINS
 MAXIMUM PIPE SIZE STANDARD**

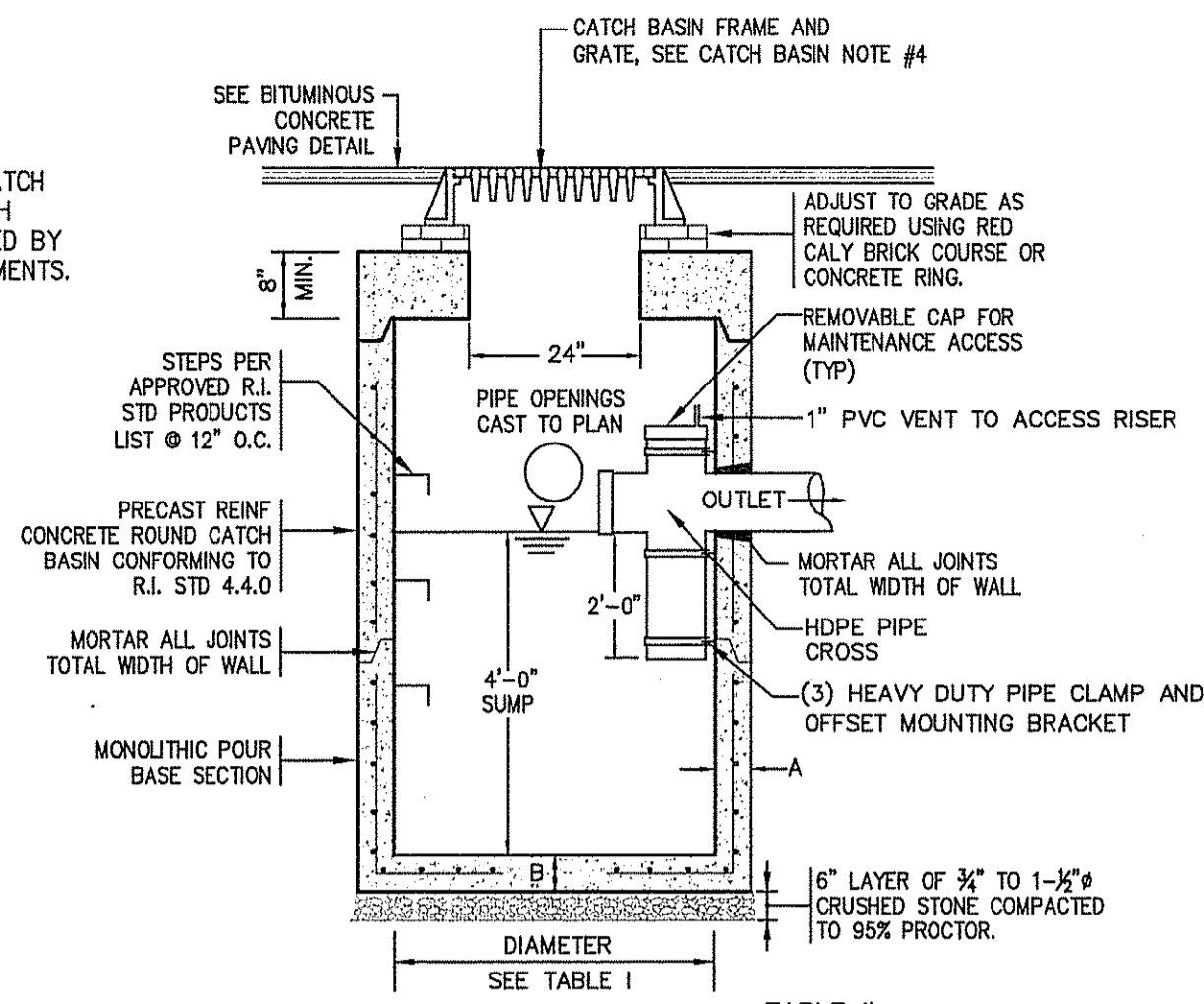
1
 C702 (R.I. STD 5.2.0) N.T.S.



NOTES:

- METALLIZED 2" WIDE DETECTABLE IDENTIFICATION TAPE SHALL BE INSTALLED OVER SEWER LINES 12" BELOW FINISH GRADE.
- EXISTING FOUNDATION SHALL BE REMOVED TO 2' MINIMUM BELOW PROPOSED UTILITIES AND BACKFILLED WITH SELECT BACKFILL TO 95% DENSITY.
- ELECTRIC/TELEPHONE/CABLE MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY STANDARDS AND ALL APPLICABLE CODES.

2
 TRENCH SECTION
 C702 N.T.S.



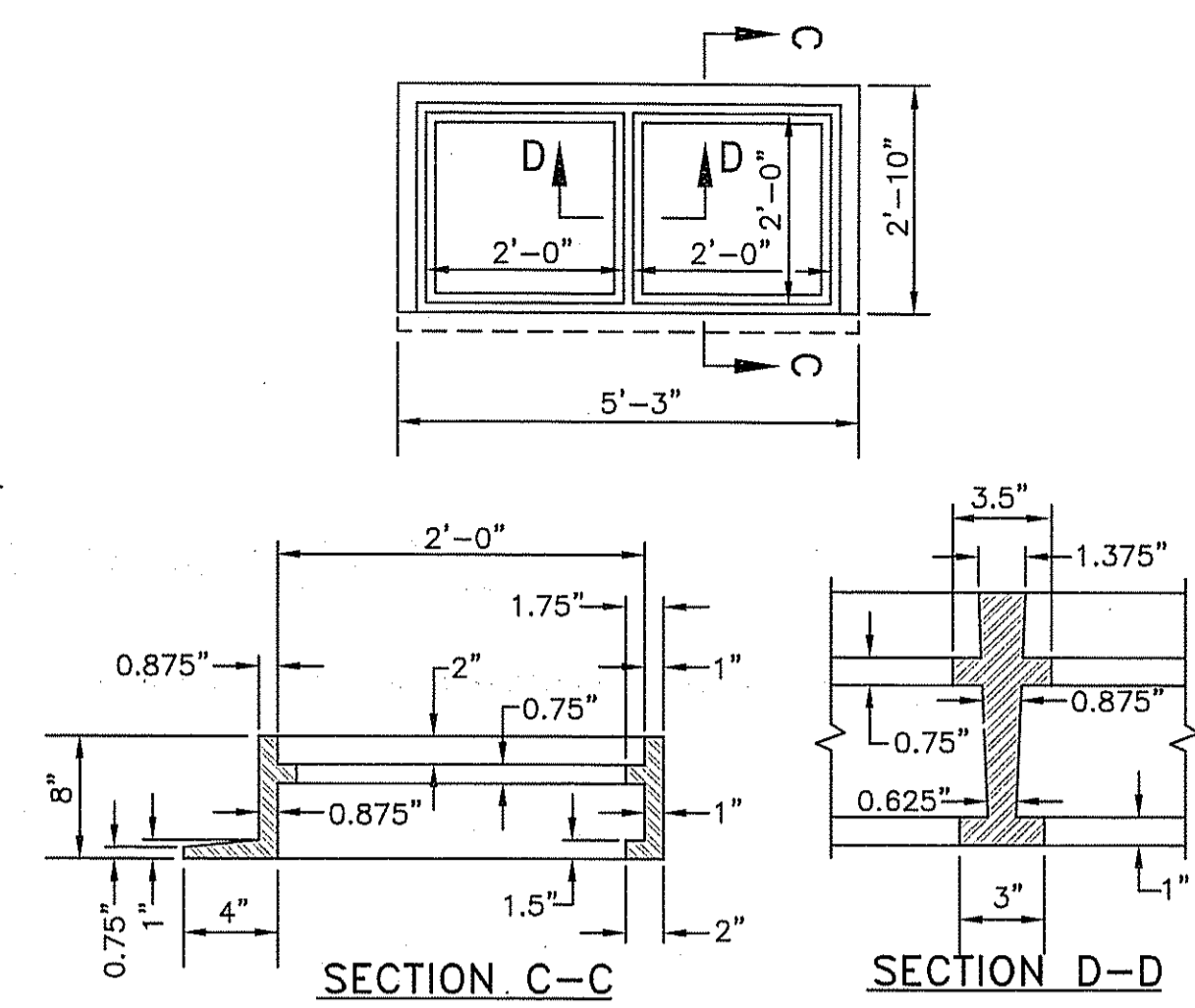
OUTLET PIPE DIAMETER	CATCH BASIN DIAMETER
12"-24"	6'-0"
30"-48"	8'-0"

CATCH BASIN DIAMETER	A	B
6'-0"	6"	7"
8'-0"	9"	10"

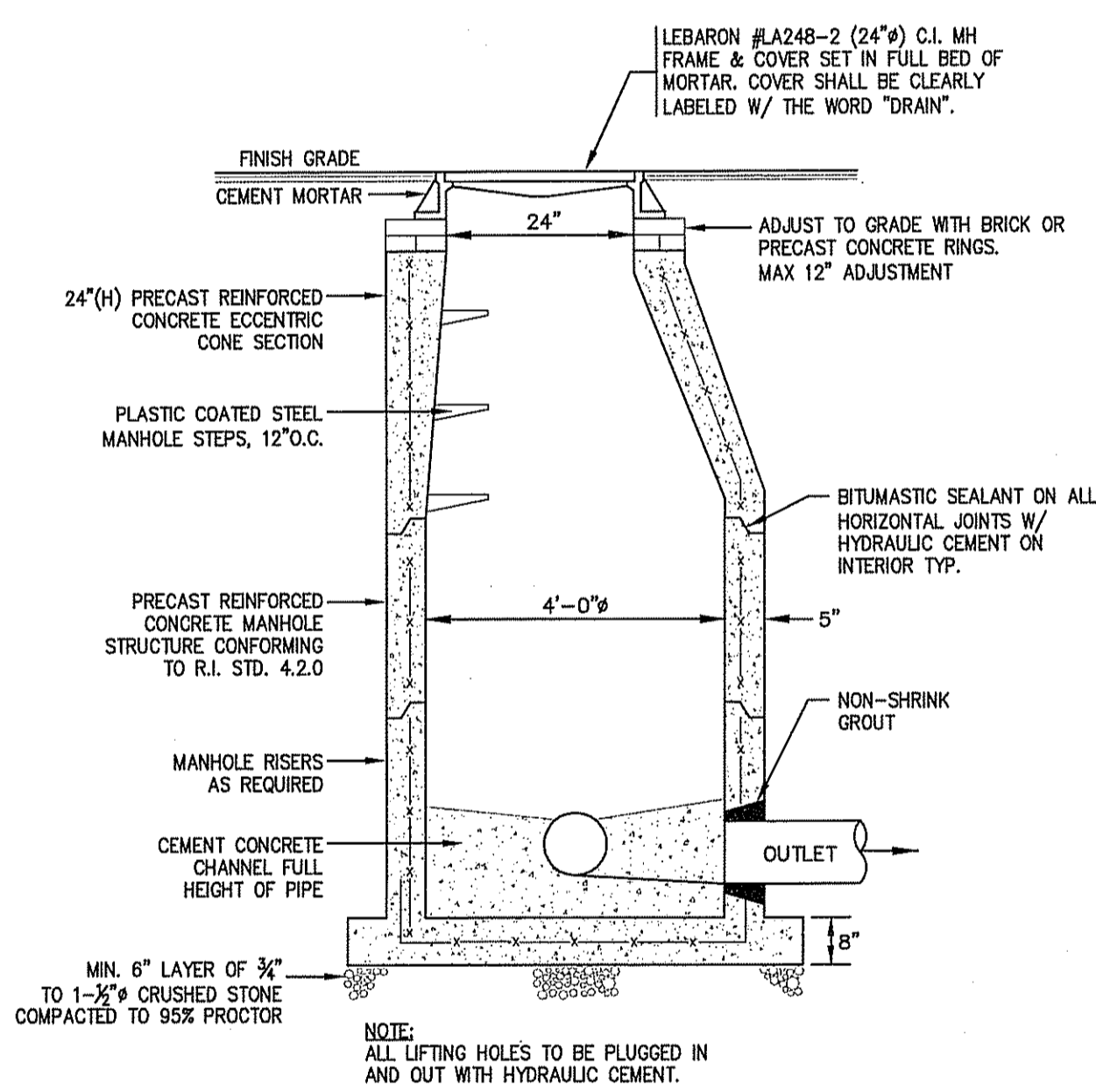
**PRECAST CONCRETE CATCH BASIN DETAIL
 WITH OIL & WATER SEPARATOR ELBOW**

3
 C702 N.T.S.

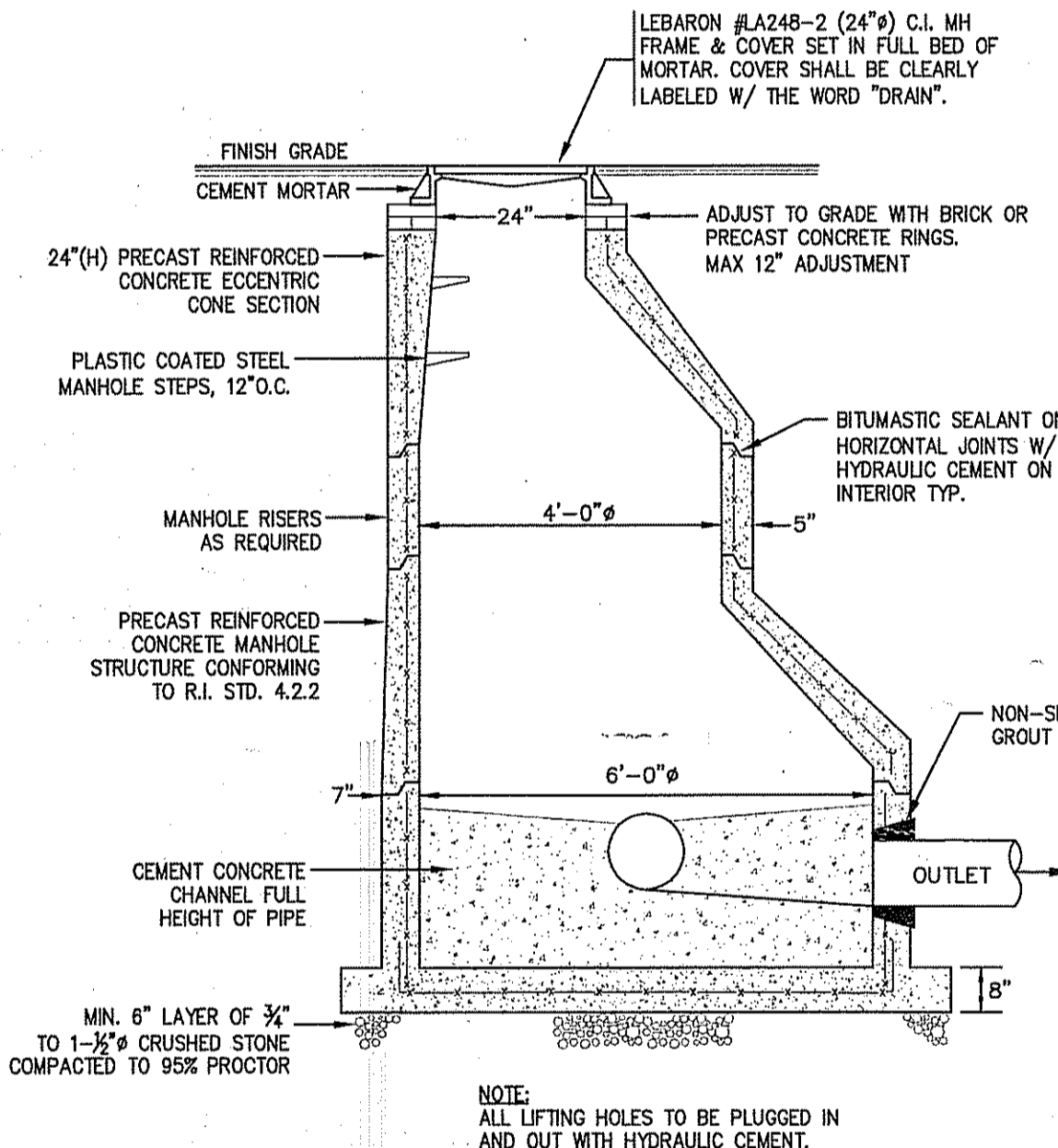
- CATCH BASIN NOTES:
- CATCH BASIN SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE I FOR STEEL REINFORCEMENT REQUIREMENTS.
 - DOUBLE GRATE CATCH BASIN (DCCB) SHALL BE CONSTRUCTED OF 6'-0" MIN. DIAMETER CATCH BASIN.
 - ALL ROADWAY CATCH BASINS SHALL FRAME & GRATES SHALL BE RIDOT STD. 6.3.4, "TYPE F". ALL CATCH BASIN FRAME & GRATES WITHIN PARKING AREAS SHALL BE RI DOT STD. 6.3.0.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LF (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORREL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" OF THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2)
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.



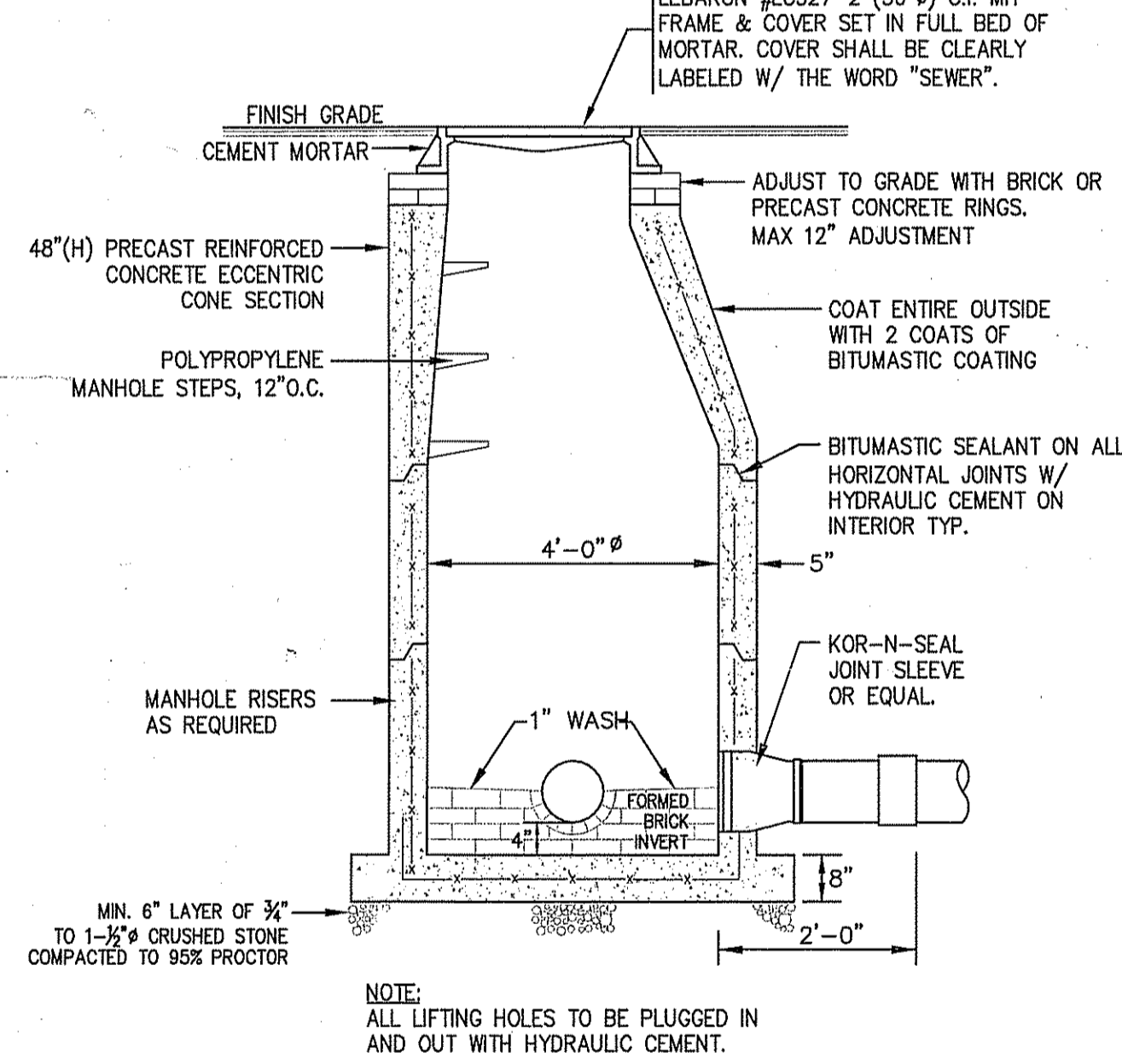
4
 C702 DOUBLE GRATE CB FRAME DETAILS
 N.T.S.



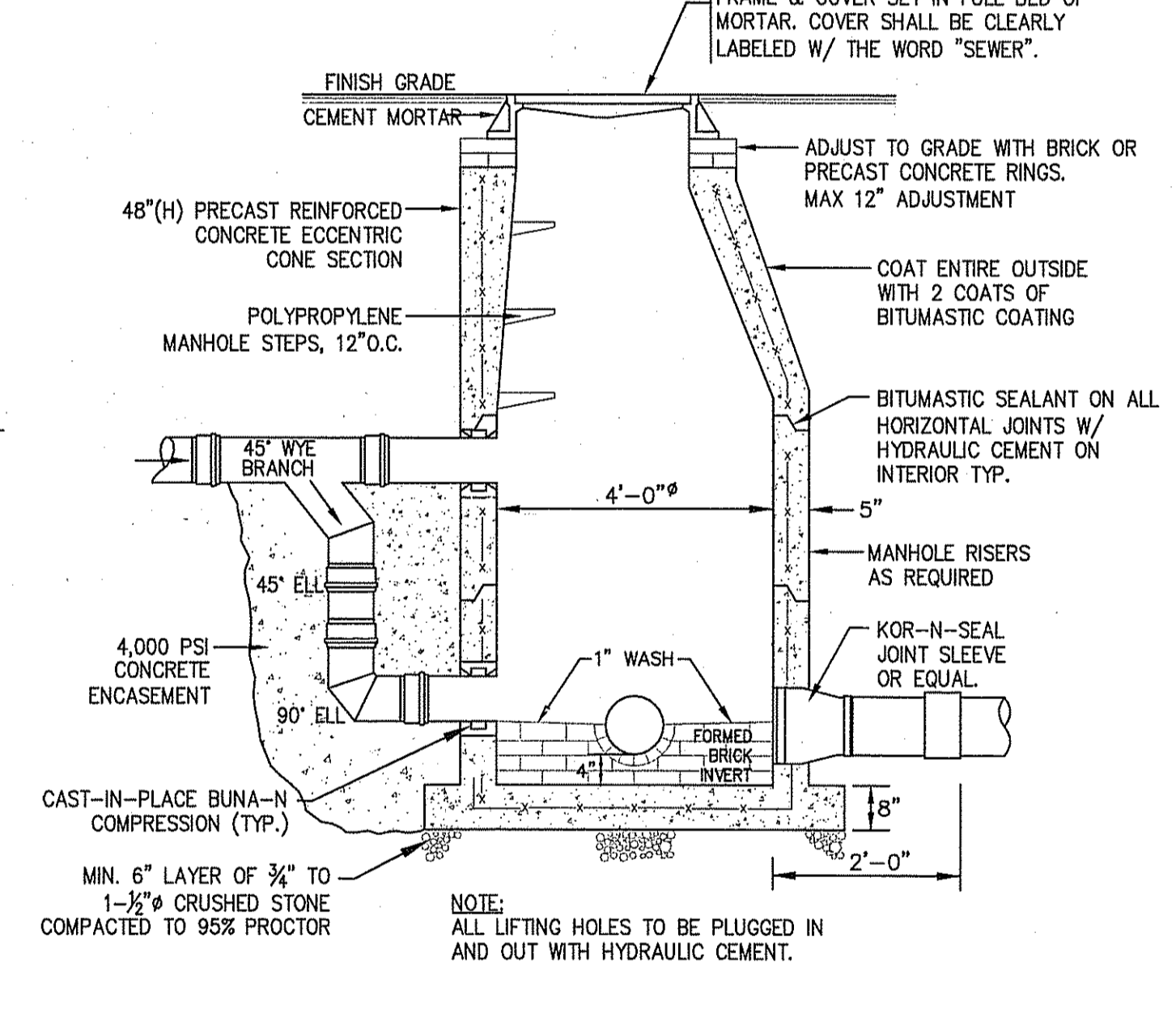
5
 C702 STANDARD DRAIN MANHOLE
 N.T.S. UP TO & INCLUDING 18" PIPE



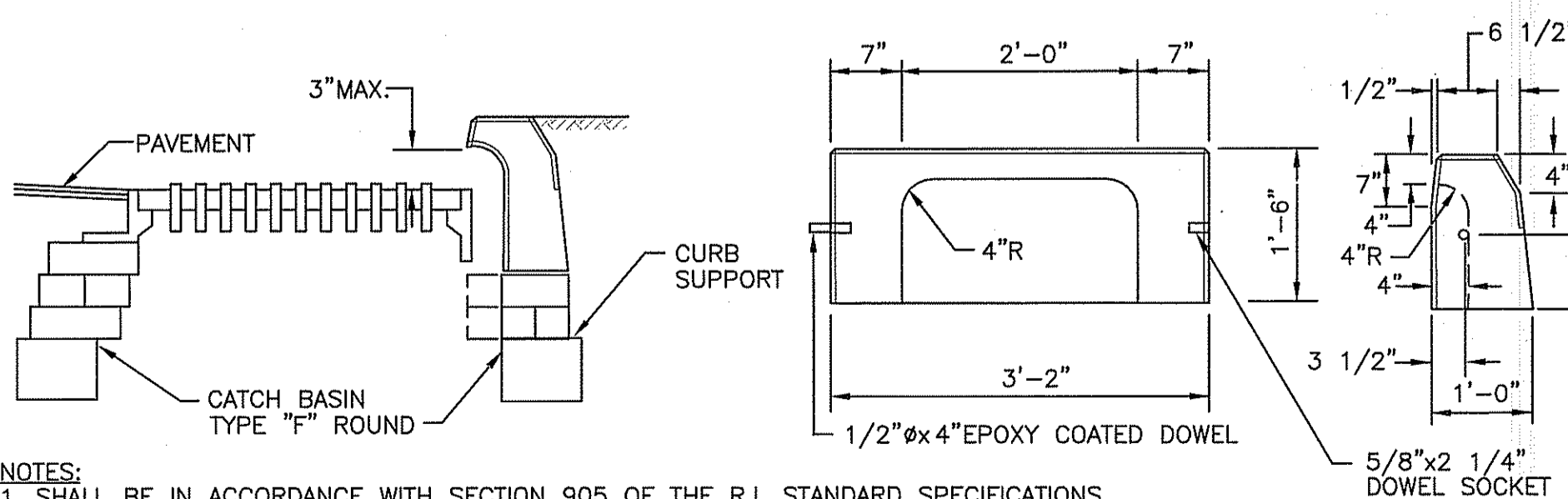
6
 C702 STANDARD 6" DRAIN MANHOLE
 N.T.S. 24" PIPE & LARGER



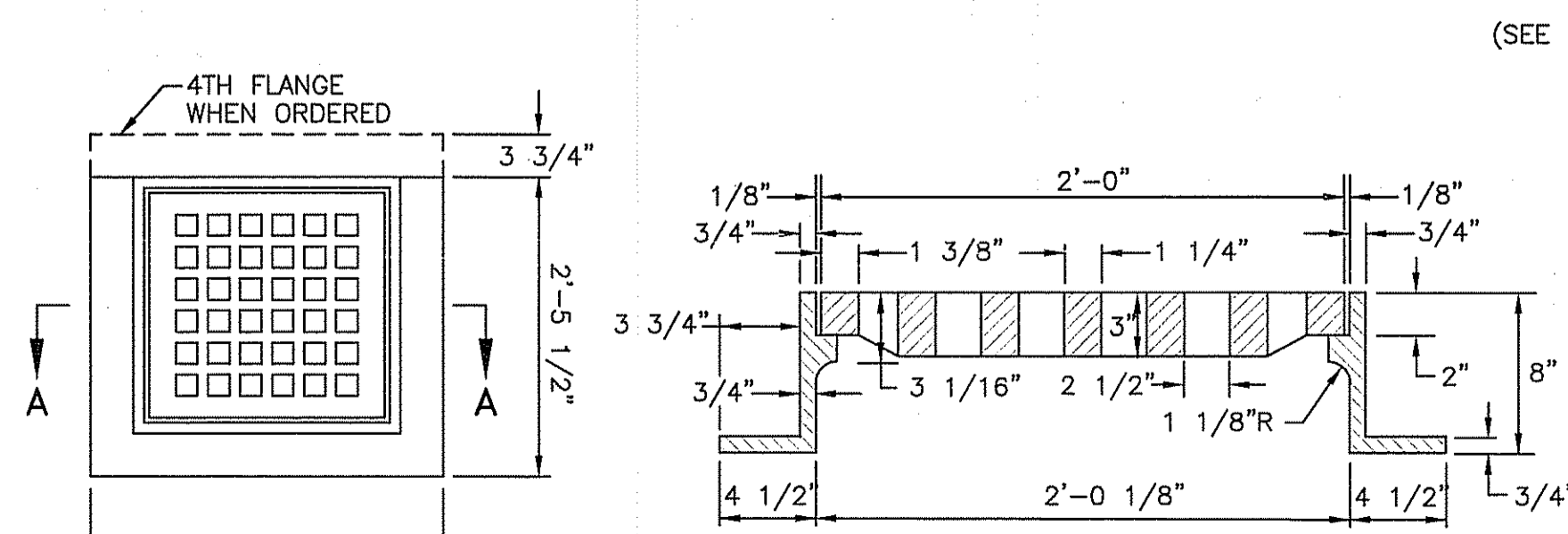
7
 C702 SANITARY SEWER MANHOLE
 N.T.S.



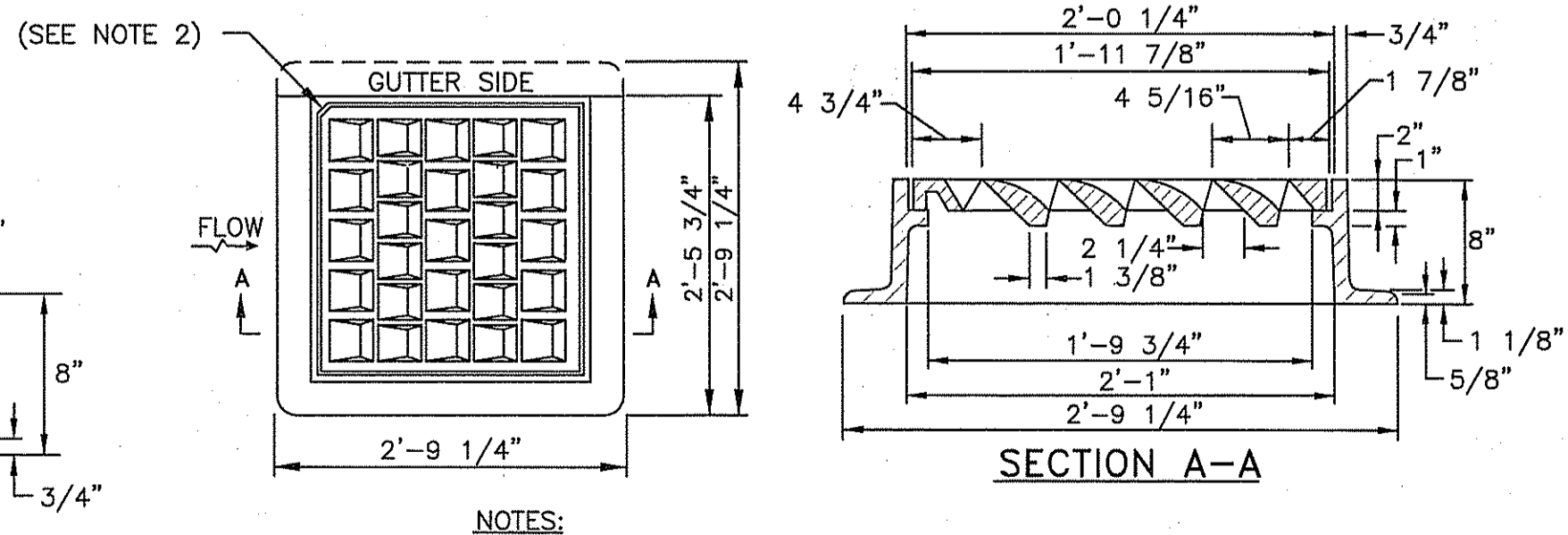
8
 C702 SANITARY SEWER EXTERIOR DROP MANHOLE DETAIL
 N.T.S.



9
 C702 PRECAST CONCRETE APRON STONE
 (FOR ROUND CATCH BASIN)
 (R.I. STD 7.1.8) N.T.S.



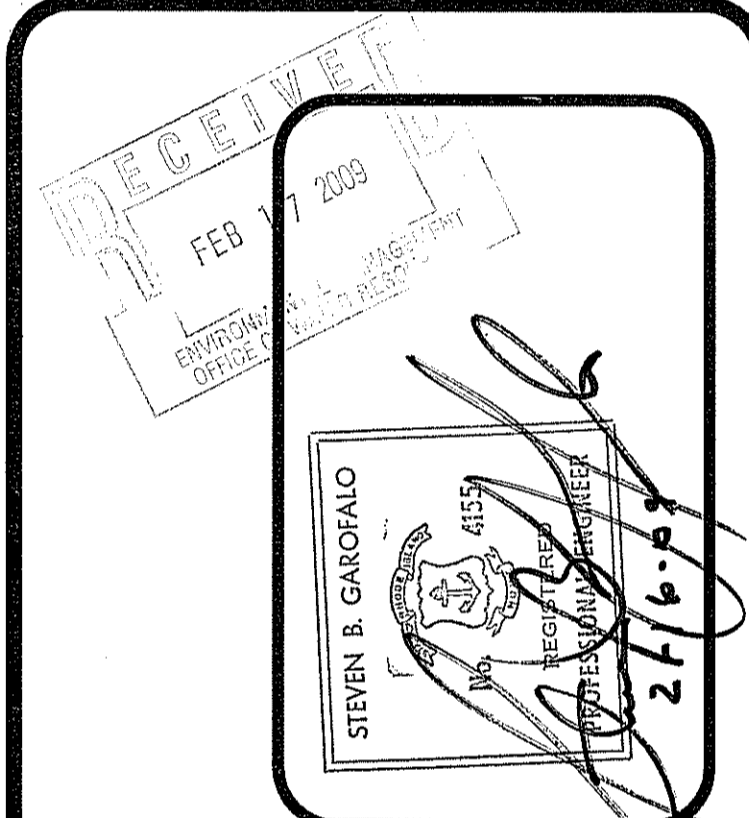
10
 C702 SQUARE FRAME AND GRATE
 (R.I. STD 6.3.0) N.T.S.



11
 C702 HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
 (R.I. STD 6.3.4) N.T.S.

SITE DETAILS - PLAN 2
 FOR
 STONEHILL MARKETPLACE
 SITUATED ON
 ATWOOD AVENUE
 JOHNSTON, RHODE ISLAND
 PREPARED FOR
 195 ASSOCIATES, LLC
 FEB 14 2009

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

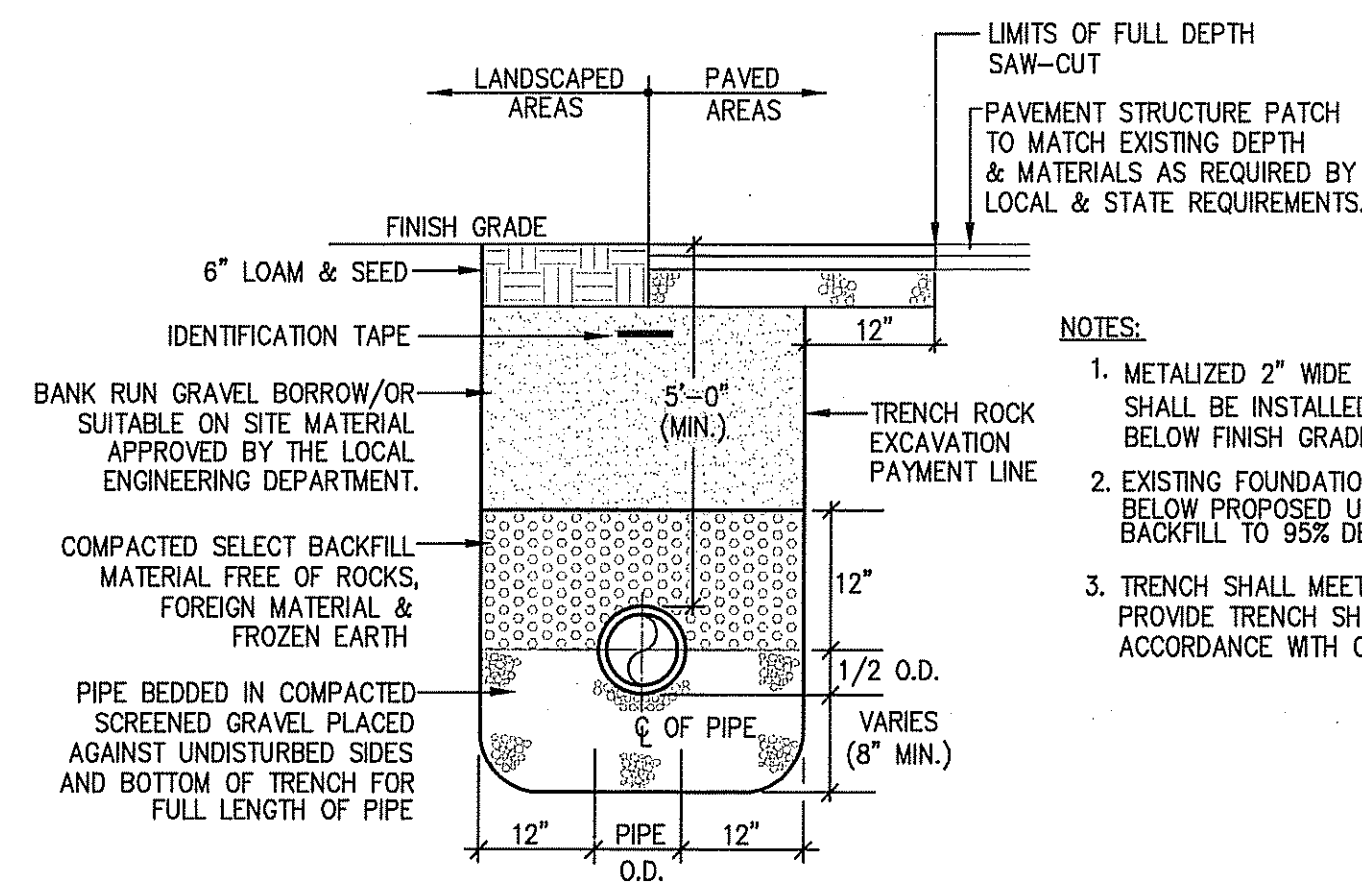


GAROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET
 P.O. BOX 6145
 PROVIDENCE, R.I. 02940
 TEL. 401-273-6000

JOB NO.	DWG. NO.	DRAWN BY
5570-07	5570-DETAILS NOTES	PJD
SCALE:	AS SHOWN	CHECKED
		SBG
		APPROVED
		SBG

APPROVED PLAN LISTED ON PERMIT SITE
 SHEET MAR 18 2009 FILE # 08-0099
 C702
 32 OF 39 SHEET



1 TRENCH SECTION WATER
C704 N.T.S.

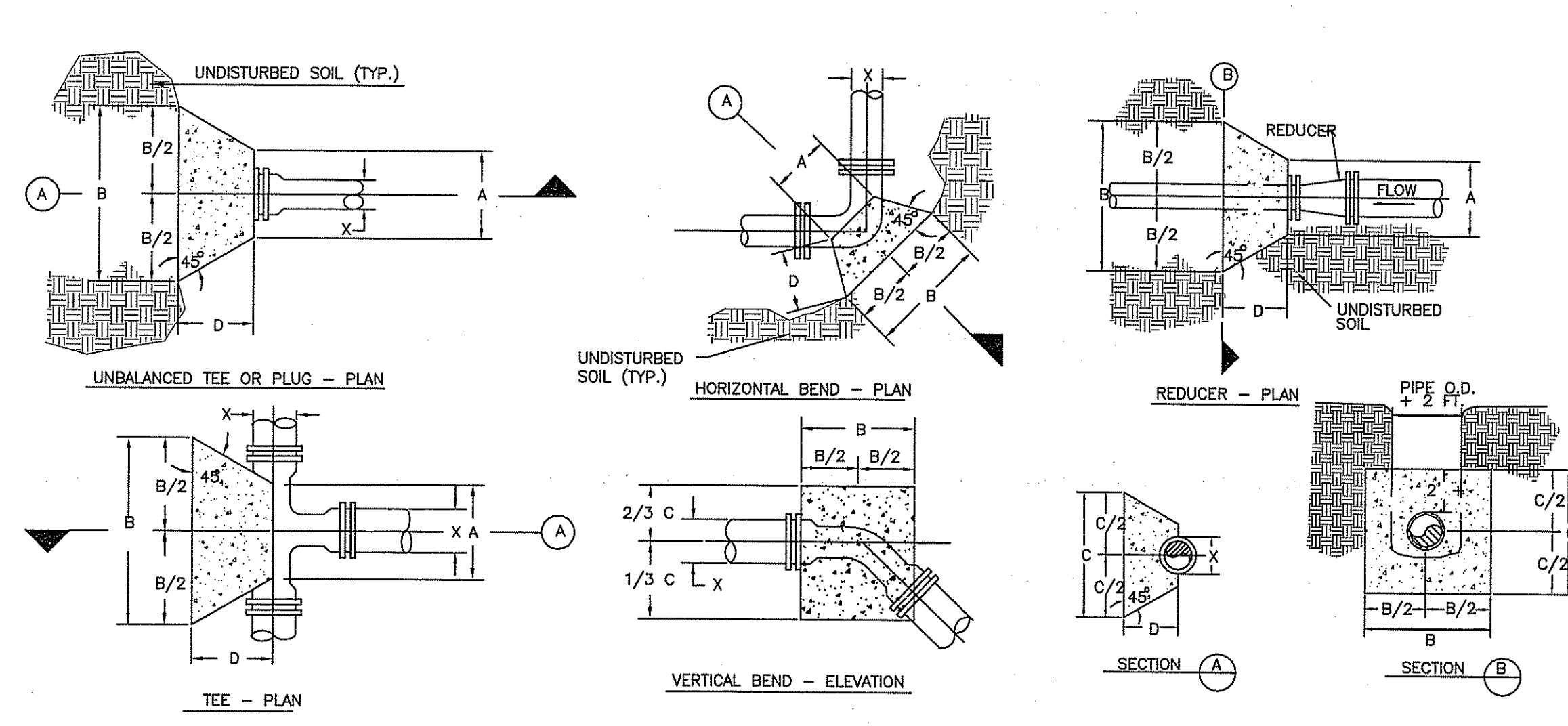
- NOTES:
- METALIZED 2" WIDE DETECTABLE IDENTIFICATION TAPE SHALL BE INSTALLED OVER WATER LINES 12" BELOW FINISH GRADE.
 - EXISTING FOUNDATION SHALL BE REMOVED TO 2' MINIMUM BELOW PROPOSED UTILITIES AND BACKFILLED WITH SELECT BACKFILL TO 95% DENSITY.
 - TRENCH SHALL MEET AWWA TYPICAL TRENCH REQUIREMENTS PROVIDE TRENCH SHEETING & BRACING AS REQUIRED IN ACCORDANCE WITH O.S.H.A. REQUIREMENTS.

Line Pressure = 150 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
90 DEGREE BEND				
4-6"	0'-11"	1'-9"	1'-9"	1'-6"
45 DEGREE BEND				
4-6"	0'-11"	1'-6"	1'-6"	1'-0"

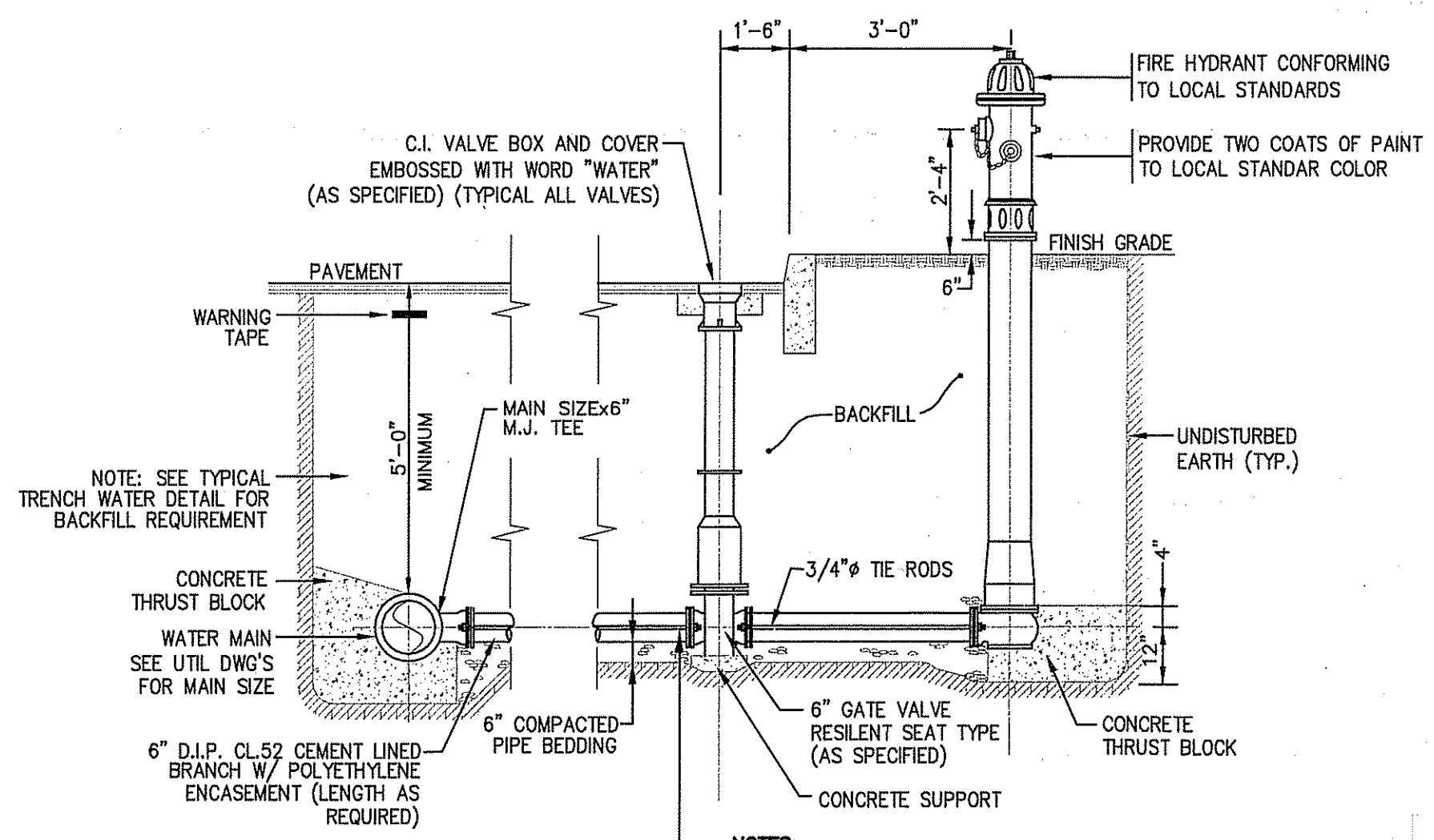
Line Pressure = 150 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
11 1/4 DEGREE BEND				
4-6"	0'-9"	1'-0"	1'-0"	1'-0"
22 1/2 DEGREE BEND				
4-6"	0'-9"	1'-3"	1'-3"	1'-0"

Line Pressure = 150 PSI Soil Pressure = 2000 PSF				
Pipe Size X	A	B	C	D
Unbalanced Tee & Plug				
4-6"	1'-2"	1'-6"	1'-6"	1'-0"
Tee				
4-6"	0'-11"	1'-6"	1'-6"	1'-3"

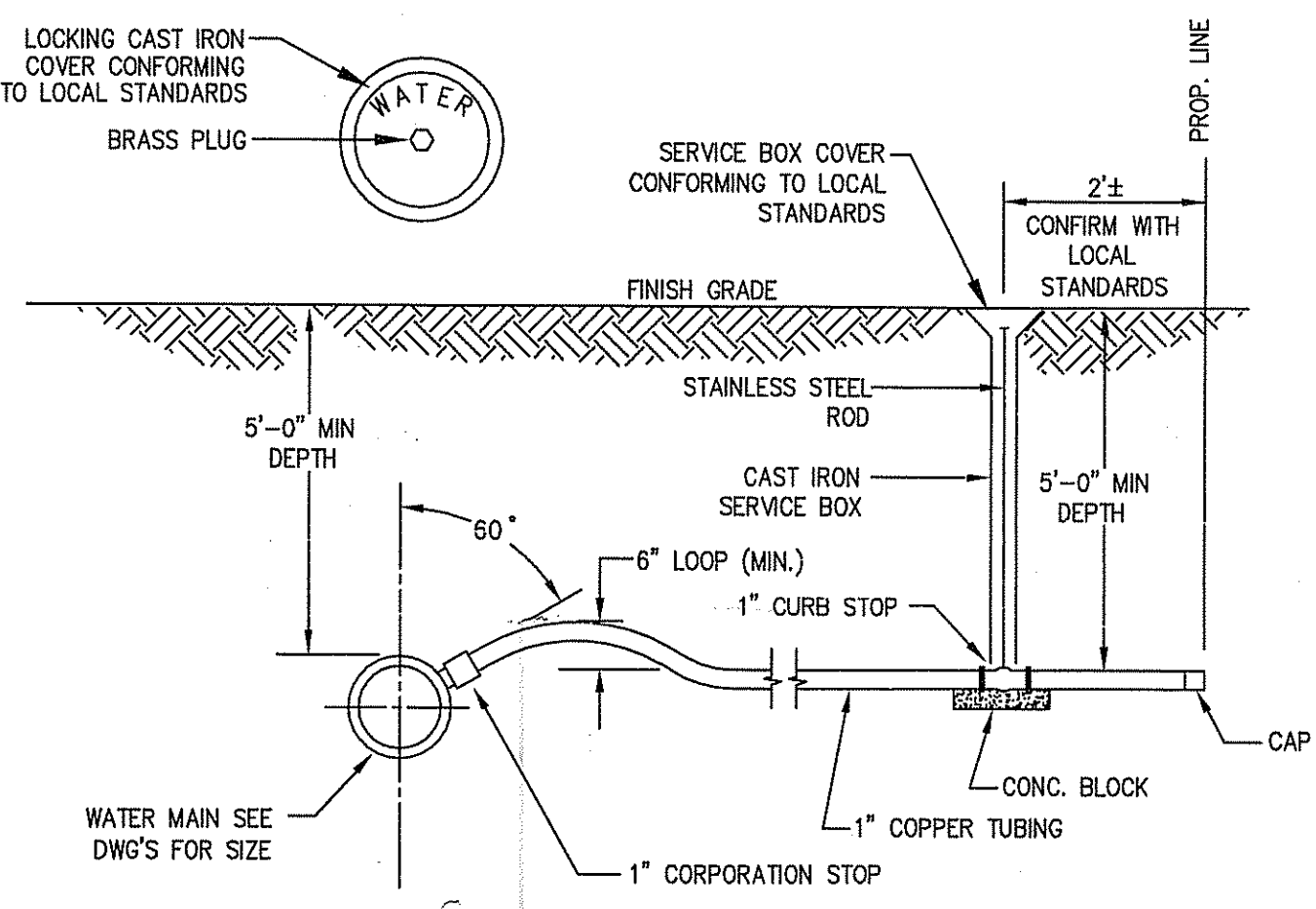
- NOTES:
- BLOCKING SHALL BE CLASS "C" CONCRETE; "SACKCRETE" WILL NOT BE ALLOWED.
 - THE WATER LINE MUST BE LOWERED IN ORDER TO HAVE FIVE FEET (5') OF COVER AT THE BEND, TEE, REDUCER OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.



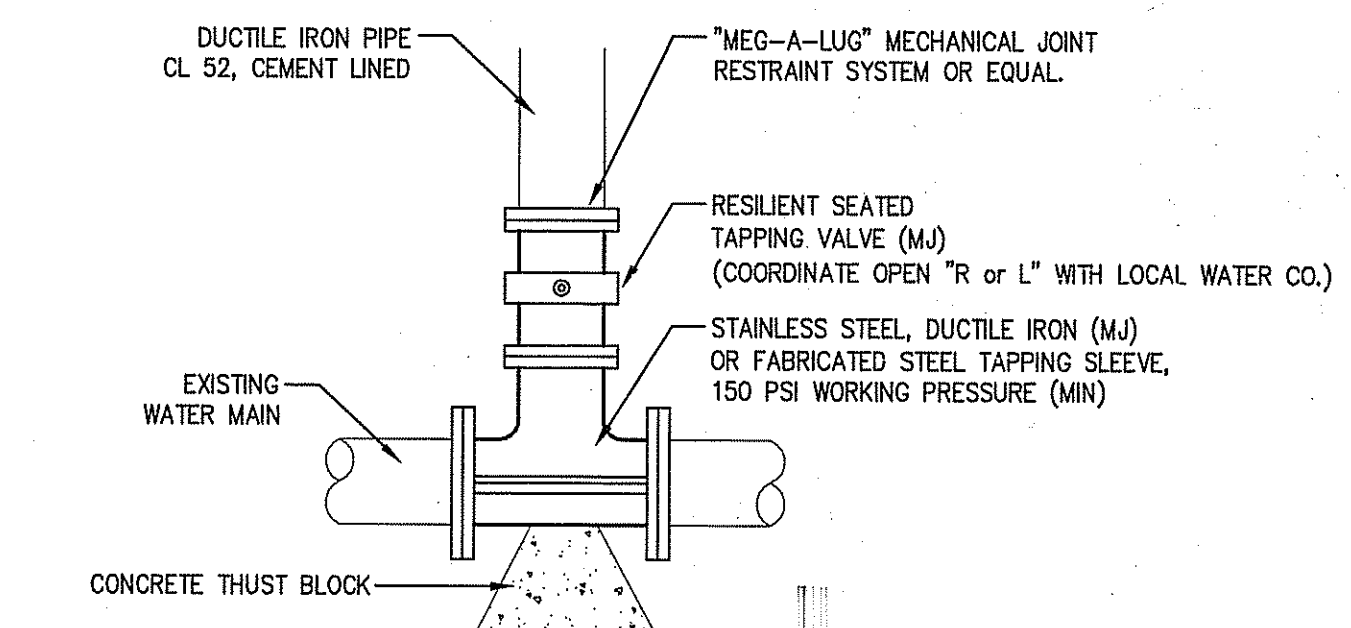
2 THRUST BLOCK DETAILS
C704 N.T.S.



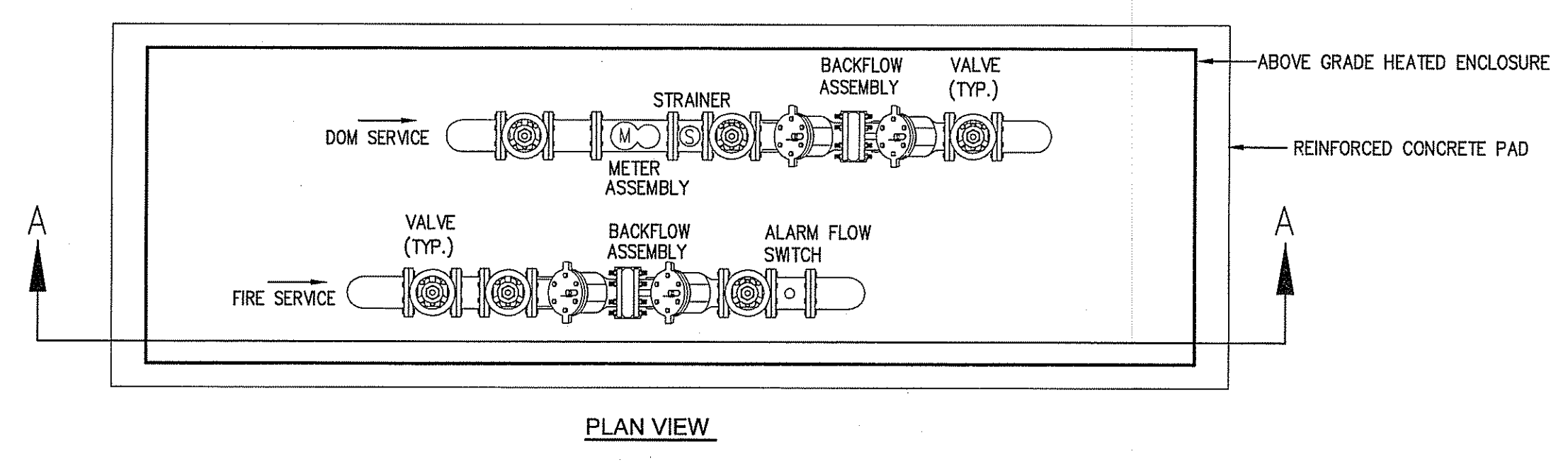
3 HYDRANT ASSEMBLY DETAIL
C704 N.T.S.



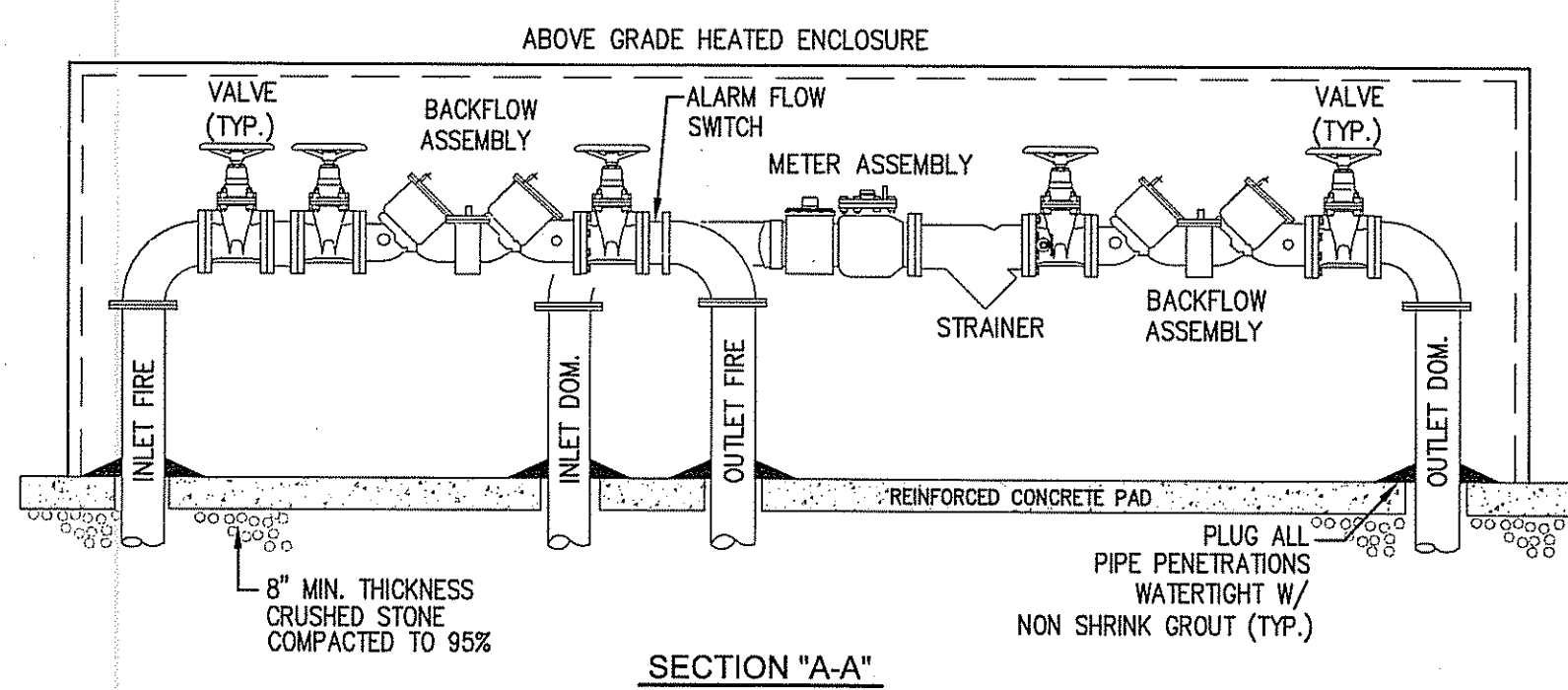
4 WATER SERVICE DETAIL
C704 N.T.S.



5 TYPICAL TAPPING SLEEVE & VALVE DETAIL
C704 N.T.S.



PLAN VIEW



SECTION "A-A"

6 TYPICAL ABOVE GRADE HEATED ENCLOSURE DETAIL FOR COMMERCIAL APPLICATIONS
C704 N.T.S.

SERVICE INSTALLATION NOTES:

- PLUMBING & FIRE PROTECTION ENGINEER SHALL SIZE ALL FITTINGS, METERS, BACKFLOW PREVENTORS, PIPES AND APPURTENANCES IN ACCORDANCE WITH THE PROVIDENCE WATER SUPPLY BOARD (PWSB) REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ALL FITTINGS, METERS, BACKFLOW PREVENTORS, PIPES AND APPURTENANCES IN ACCORDANCE WITH THE PWSB REQUIREMENTS, AND THAT AGENCY SHALL BE NOTIFIED (401-521-6300) PRIOR TO ORDERING FOR CONFIRMATION SUITABILITY OF ALL EQUIPMENT MANUFACTURERS/ MODELS UTILIZED.
- ENCLOSURE STRUCTURE SHALL BE HEATED AND CAPABLE OF MAINTAINING A MINIMUM TEMPERATURE OF 40 DEGREES AT ALL TIMES. STRUCTURE SHALL BE PREFABRICATED INSULATED ALUMINUM STRUCTURE AS MANUFACTURED BY "HOT-BOX", OR APPROVED EQUAL, INSTALLED ON A CONCRETE PAD IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALTERNATE STRUCTURE MAY BE SUBSTITUTED BY OWNER WITH APPROVAL OF LOCAL WATER DEPARTMENT. FACILITY SHALL BE PADLOCKED AND TWO (2) KEY COPIES SHALL BE PROVIDED TO THE LOCAL WATER DEPARTMENT.
- STEEL PIPE SUPPORTS SHALL BE PROVIDED AS WARRANTED BY FINAL PIPING ARRANGEMENT SUPPORTS SHALL BE 2" O.D. STEEL PIPE WITH A SADDLE TO SUPPORT THE PIPE AND A FLOOR FLANGE FOR MOUNTING. PIPE SUPPORTS SHALL BE PAINTED WITH ONE PRIME COAT BENJAMIN MOORE IRON CLAD (RETARDO RUST INHIBITIVE PAINT AND TWO FINISH COATS OF BENJAMIN MOORE IRON CLAD RETARDO RUST INHIBITIVE PAINT. COLOR SHALL BE BLACK OR AS DIRECTED BY THE LOCAL WATER DEPARTMENT.
- CONTRACTOR SHALL SUBMIT COMPLETE SHOP AND FABRICATION DRAWINGS (INCLUDING EQUIPMENT AND ENCLOSURE) TO INSURE ALL REQUIRED ACCESSORIES CAN FIT IN ENCLOSURE WITH ADEQUATE ROOM FOR ACCESS AND MAINTENANCE.

SITE DETAILS - PLAN 4
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

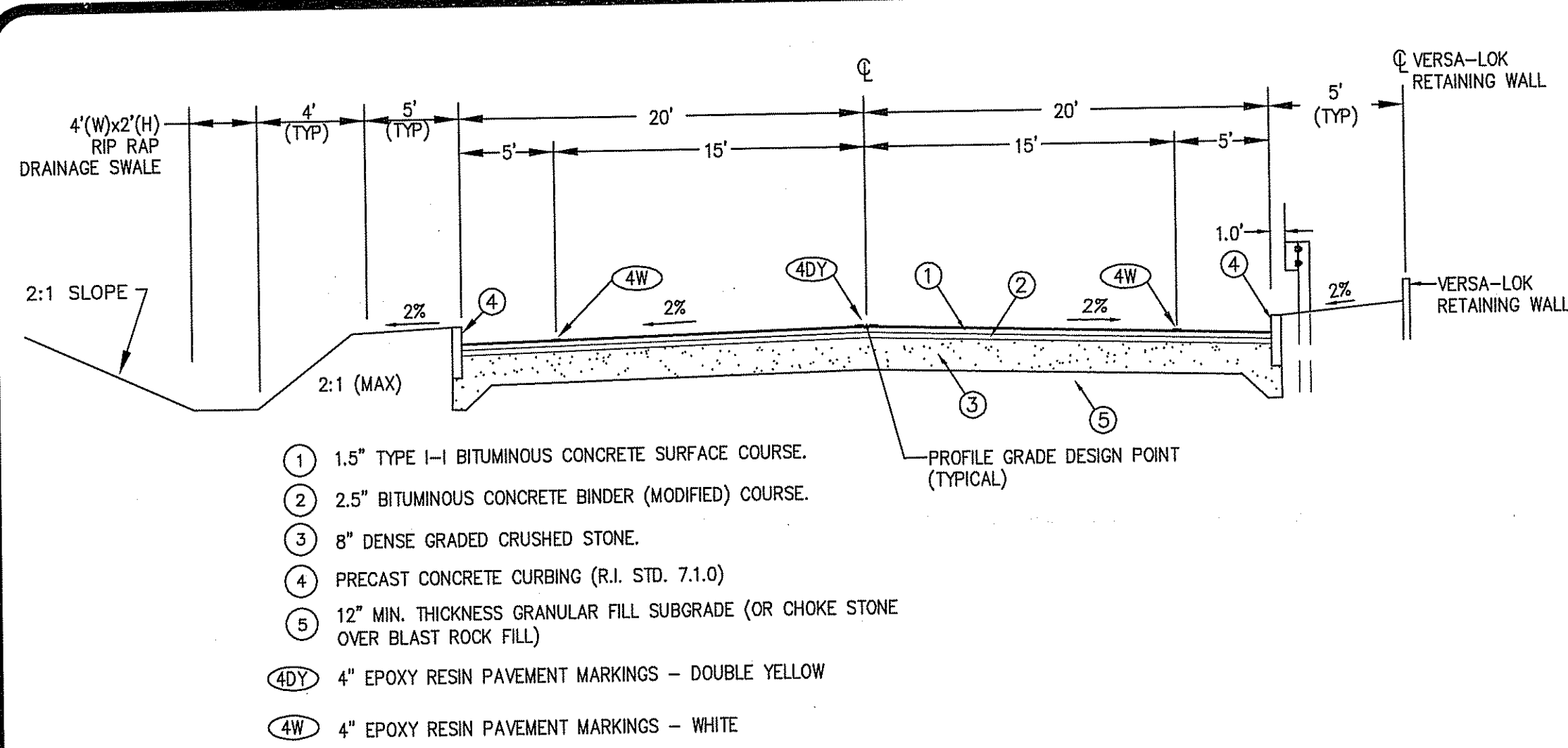
RECEIVED
FEB 17 2009
STEVEN B. GAROFALO
REGISTERED PROFESSIONAL ENGINEER
2-1-09

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GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

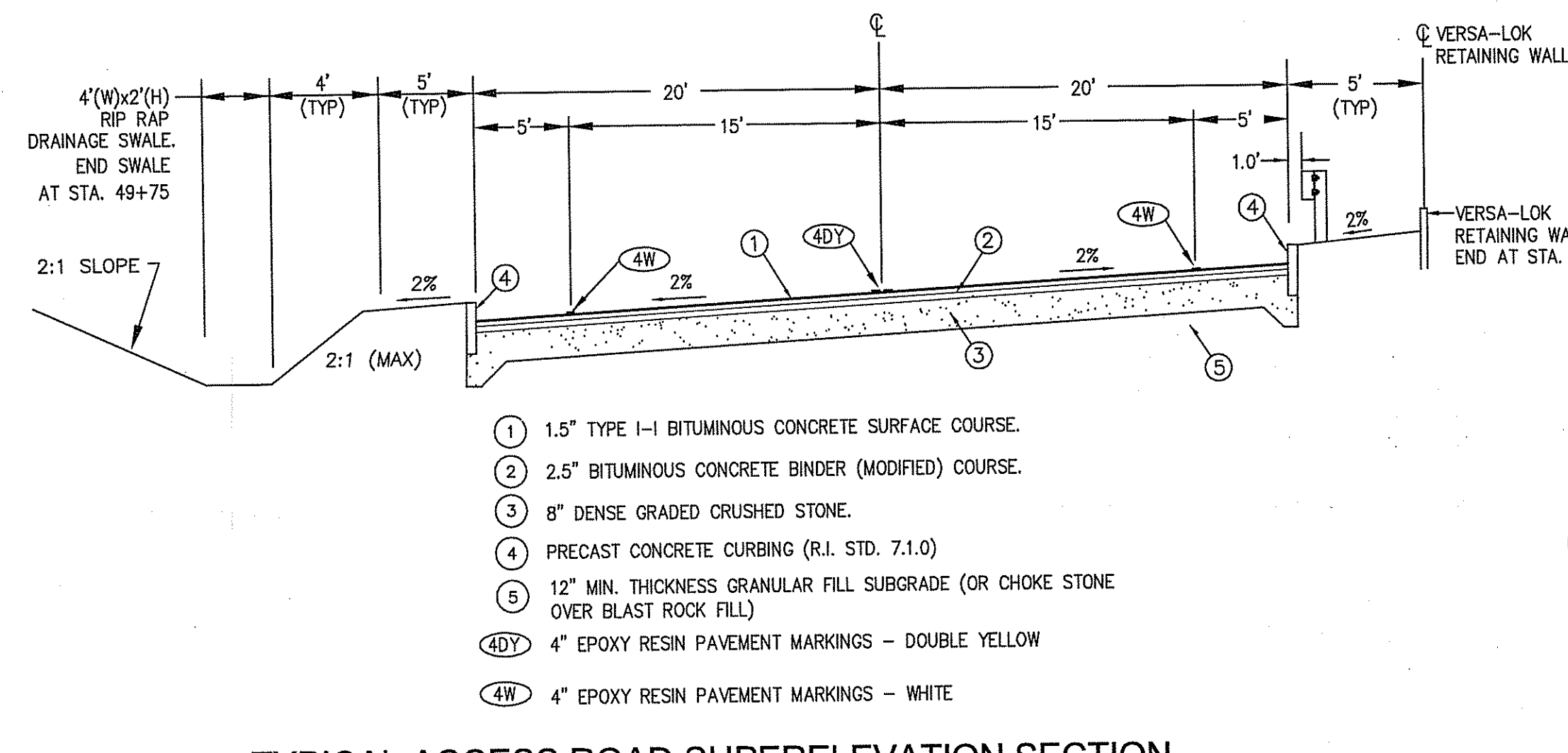
88 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07
DWG. NO. 5570-DETAILS/NOTES
DRAWN BY PJD
CHECKED SBG
APPROVED SBG
DATE SHEET 18 2009 FILE # 08-0099
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

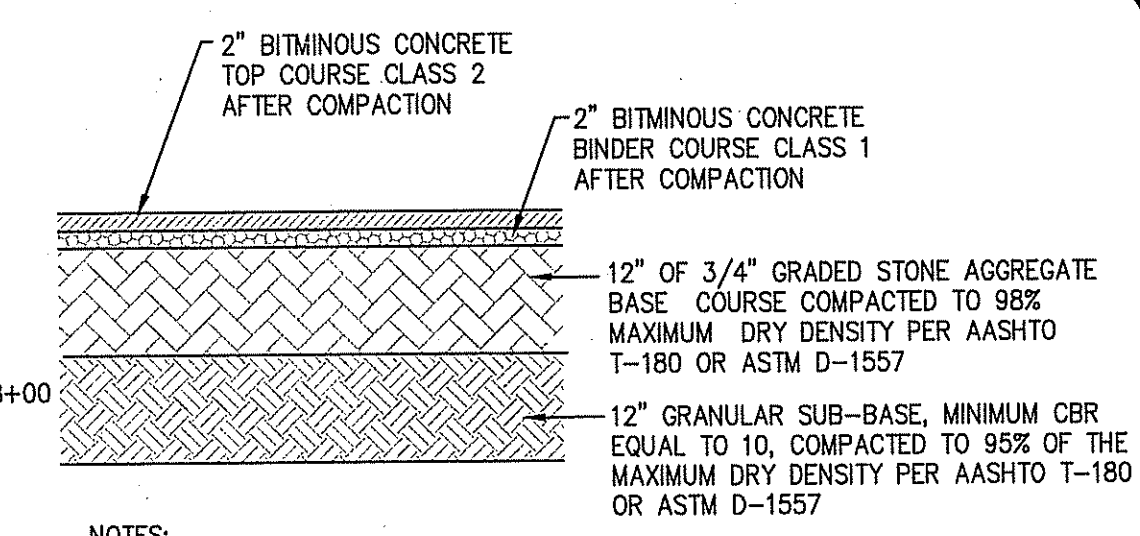
C704



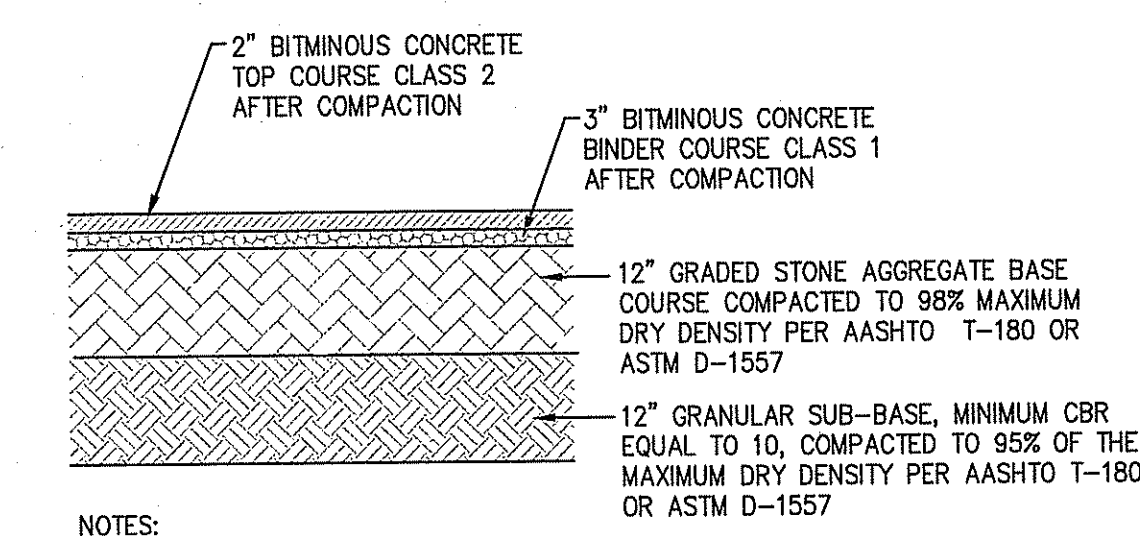
1 TYPICAL ACCESS ROAD SECTION
(STA. 29+00 TO 44+00, 54+00 TO 57+00)
C705 N.T.S.



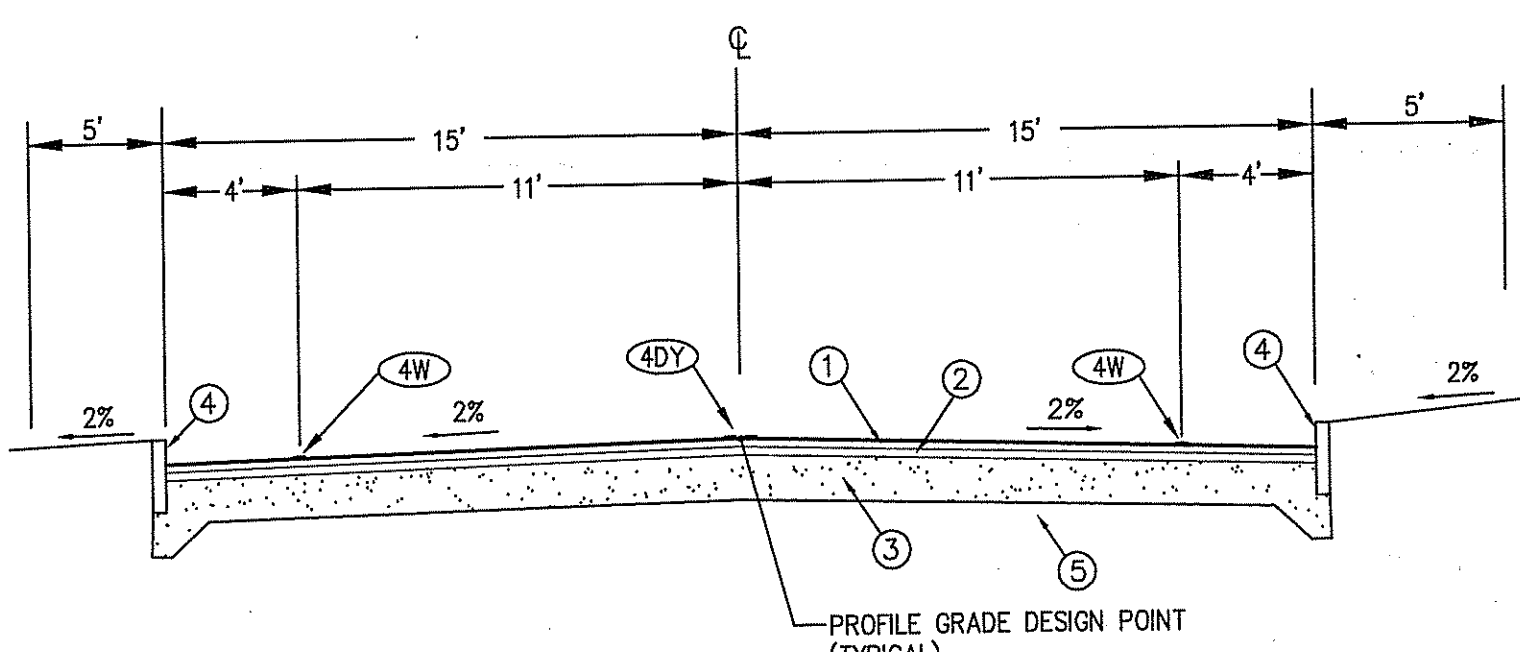
2 TYPICAL ACCESS ROAD SUPERELEVATION SECTION
(STA. 44+00 TO 54+00)
C705 N.T.S.



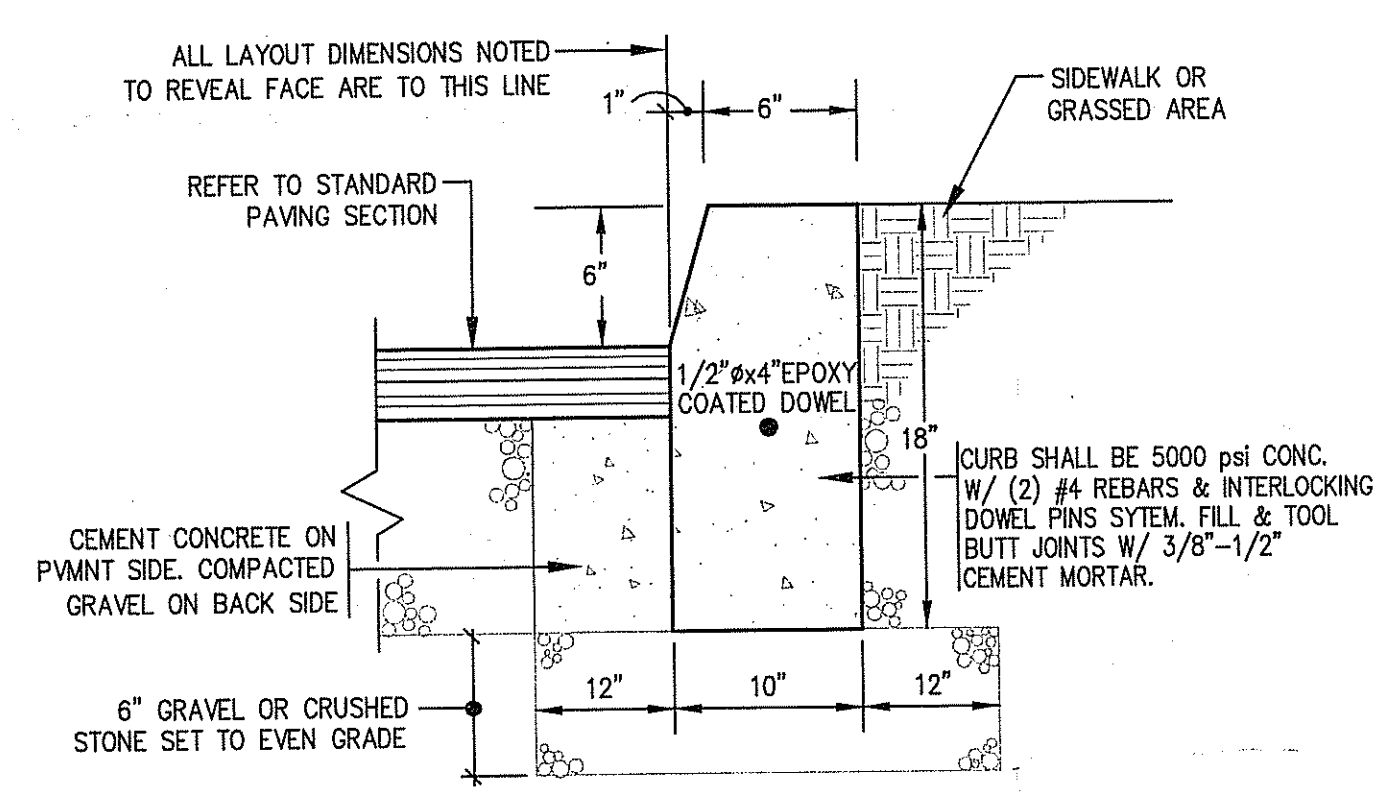
3 STANDARD PAVEMENT DETAIL
C705 N.T.S.



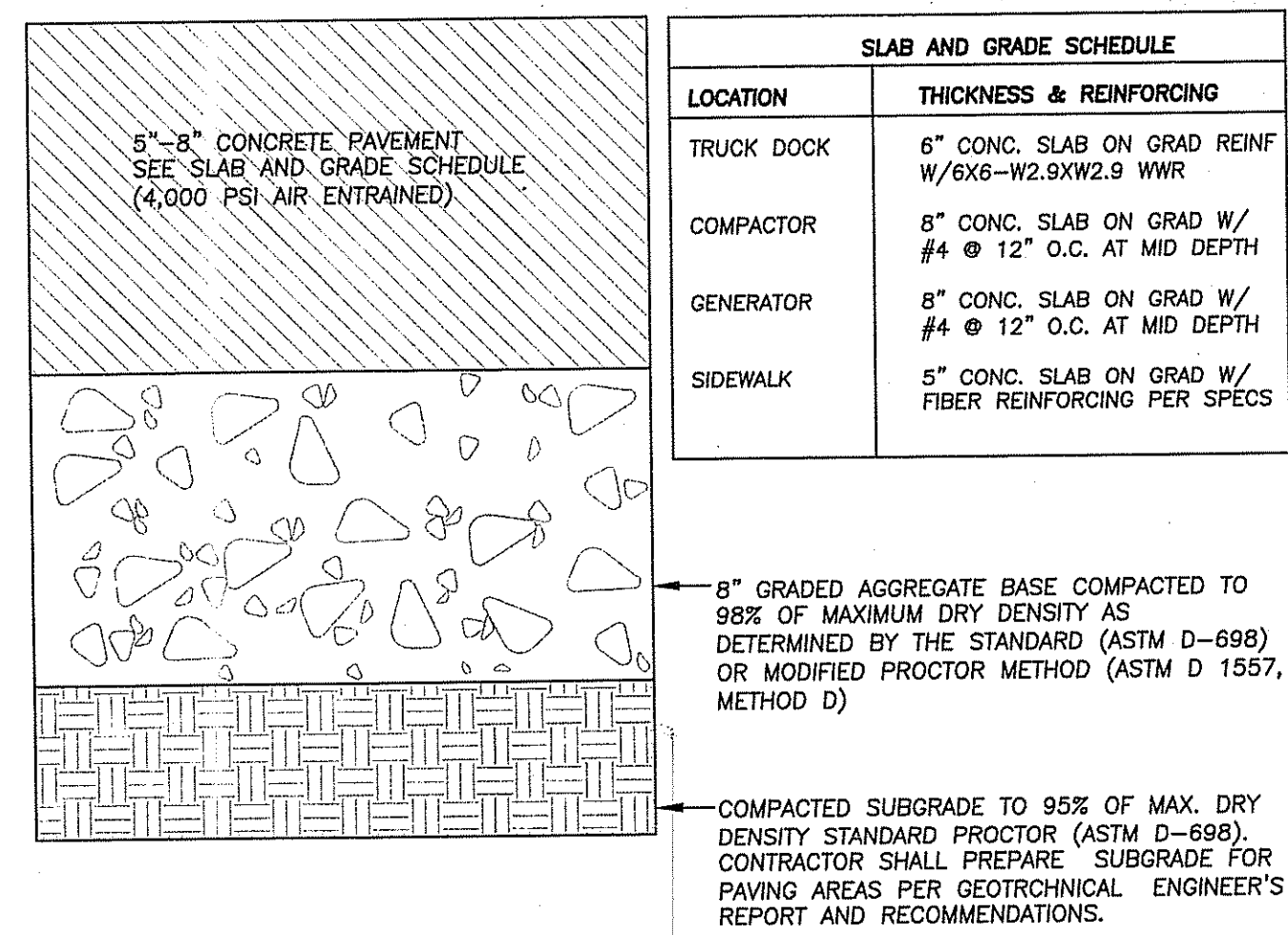
7 HEAVY DUTY PAVEMENT DETAIL
C705 N.T.S.



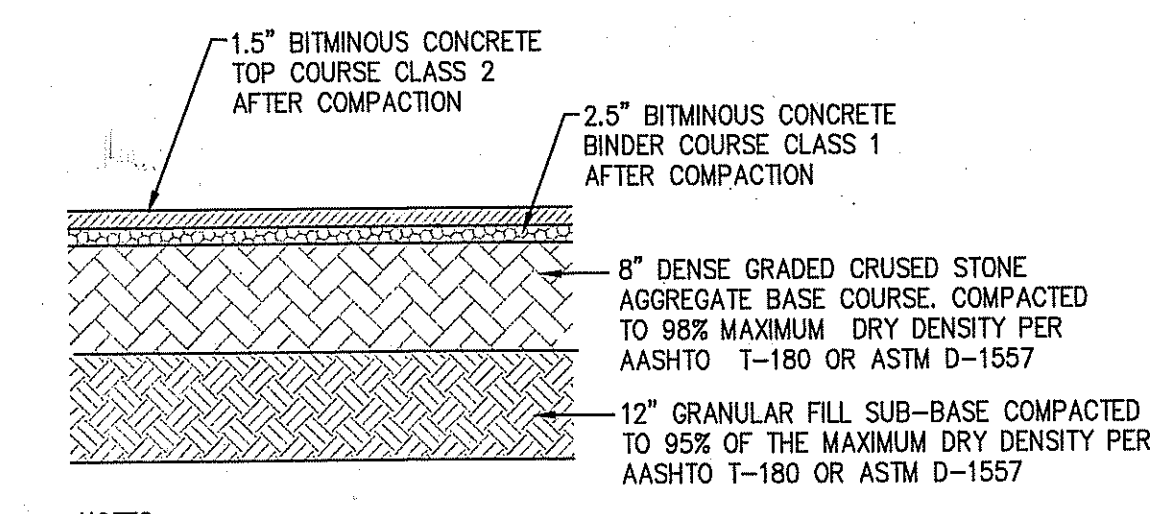
4 TYPICAL ACCESS ROAD SECTION
(STA. 57+00 TO 61+12)
C705 N.T.S.



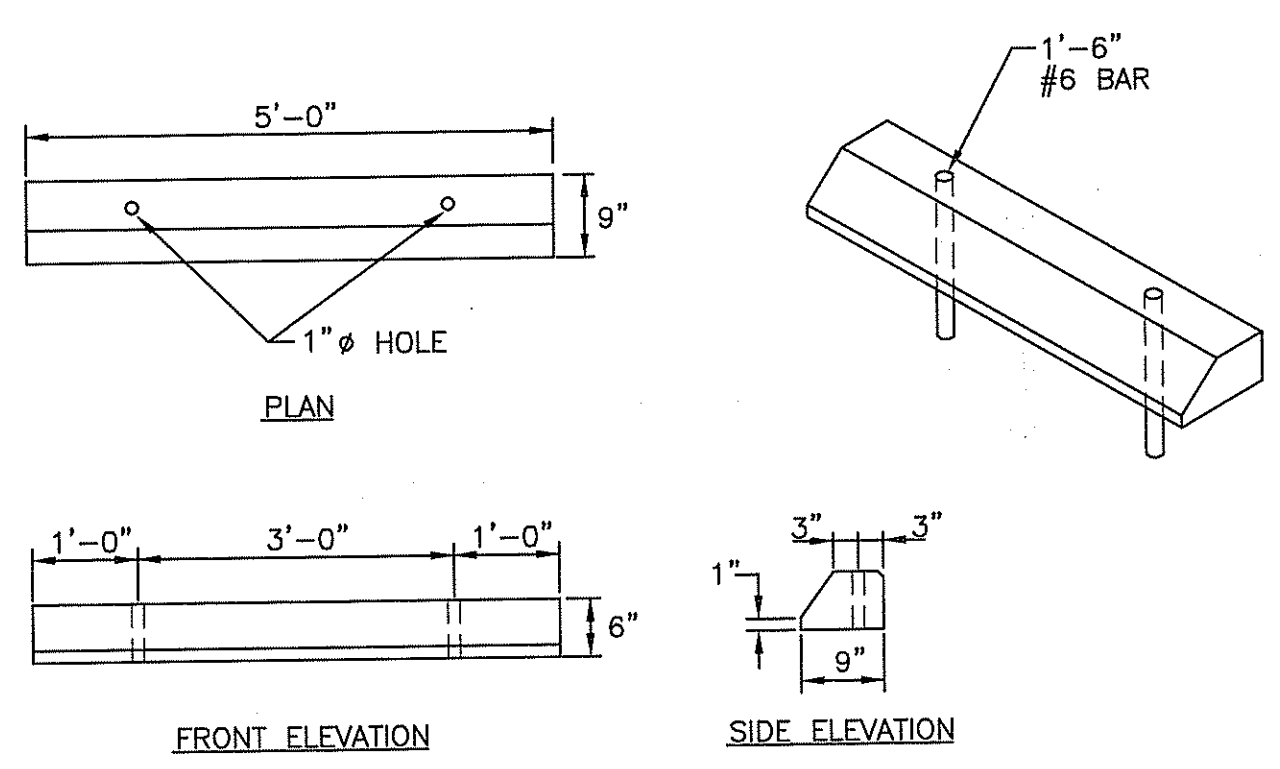
5 DETAIL OF PRECAST CONCRETE CURB
C705 N.T.S.



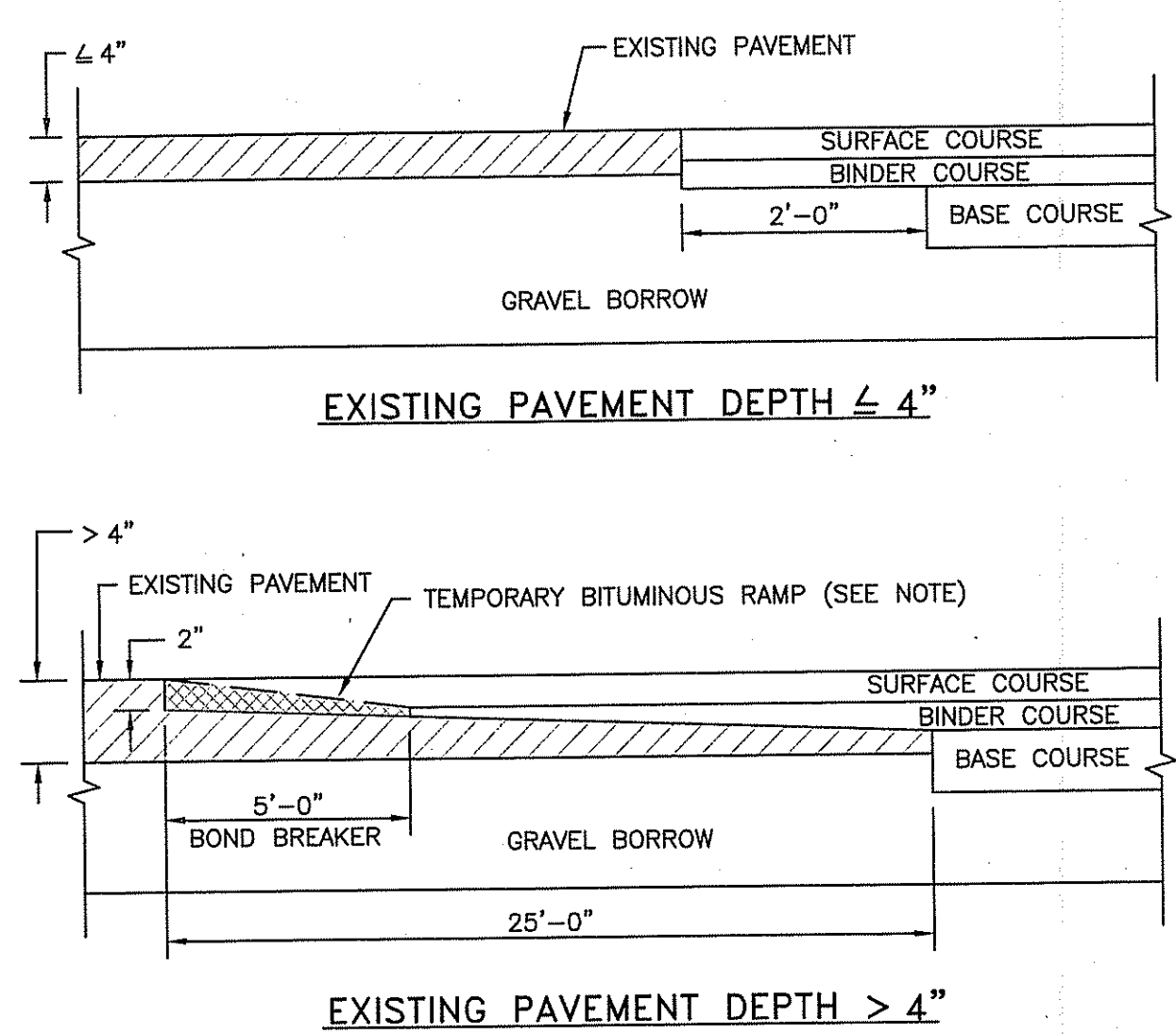
6 CONCRETE PAVEMENT SECTION
C705 N.T.S.



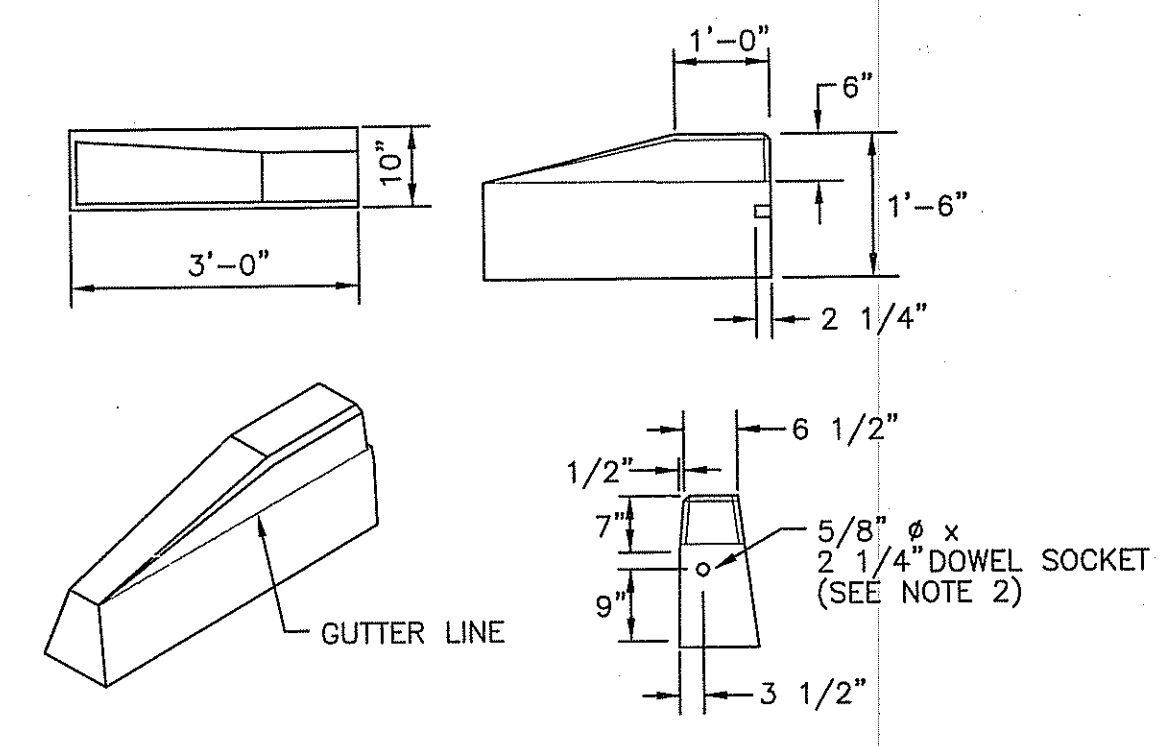
8 ACCESS DRIVE PAVEMENT DETAIL
C705 N.T.S.



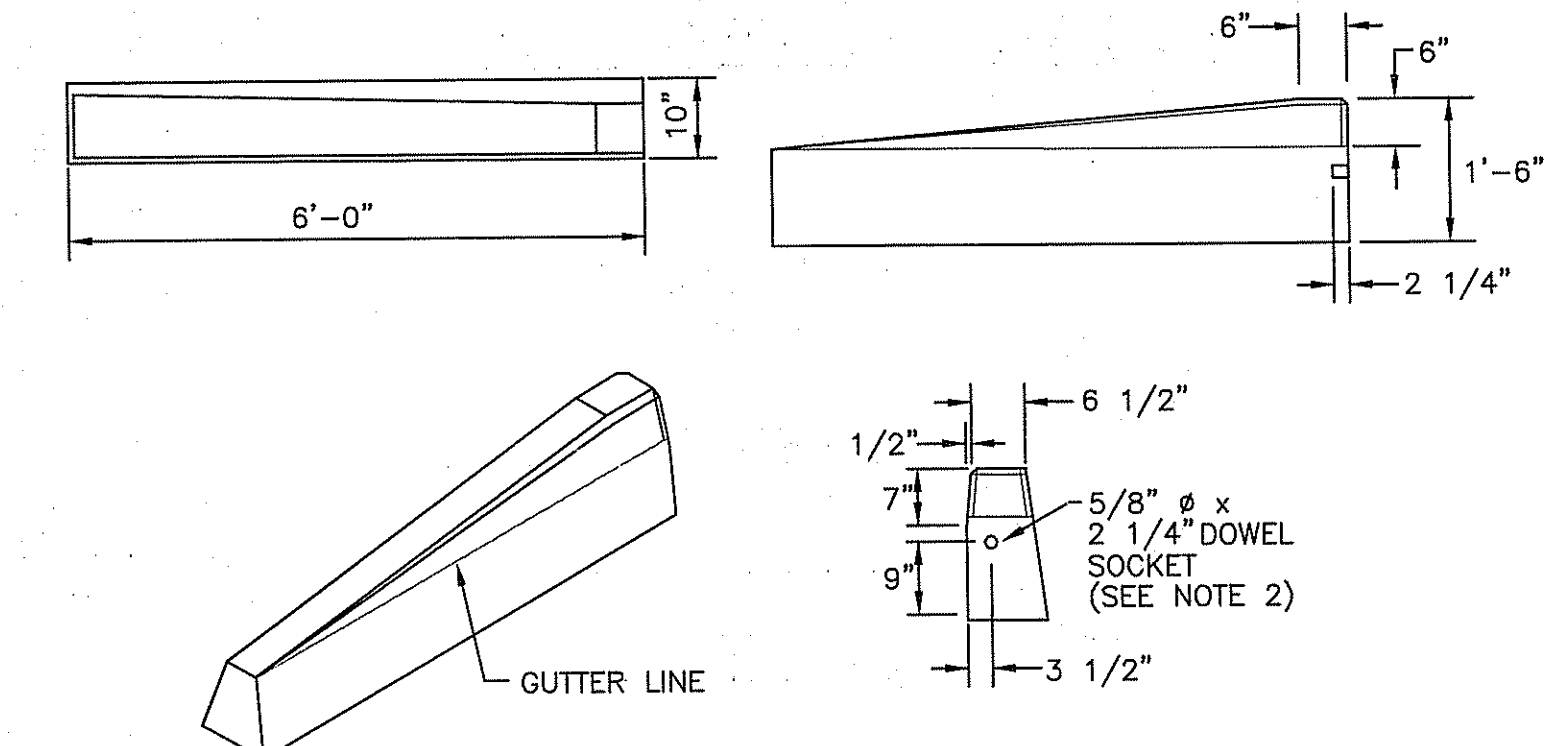
9 PRECAST CONCRETE CAR STOPS
(R.I. STD 7.2.4) N.T.S.
C705



10 TRANSVERSE PAVEMENT CUT AND MATCH
(R.I. STD 47.1.1) N.T.S.
C705



11 3'-0" PRECAST CONCRETE TRANSITION CURB
(R.I. STD 7.1.1) N.T.S.
C705



12 6'-0" PRECAST CONCRETE TRANSITION CURB
(R.I. STD 7.1.2) N.T.S.
C705

SITE DETAILS - PLAN 5
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

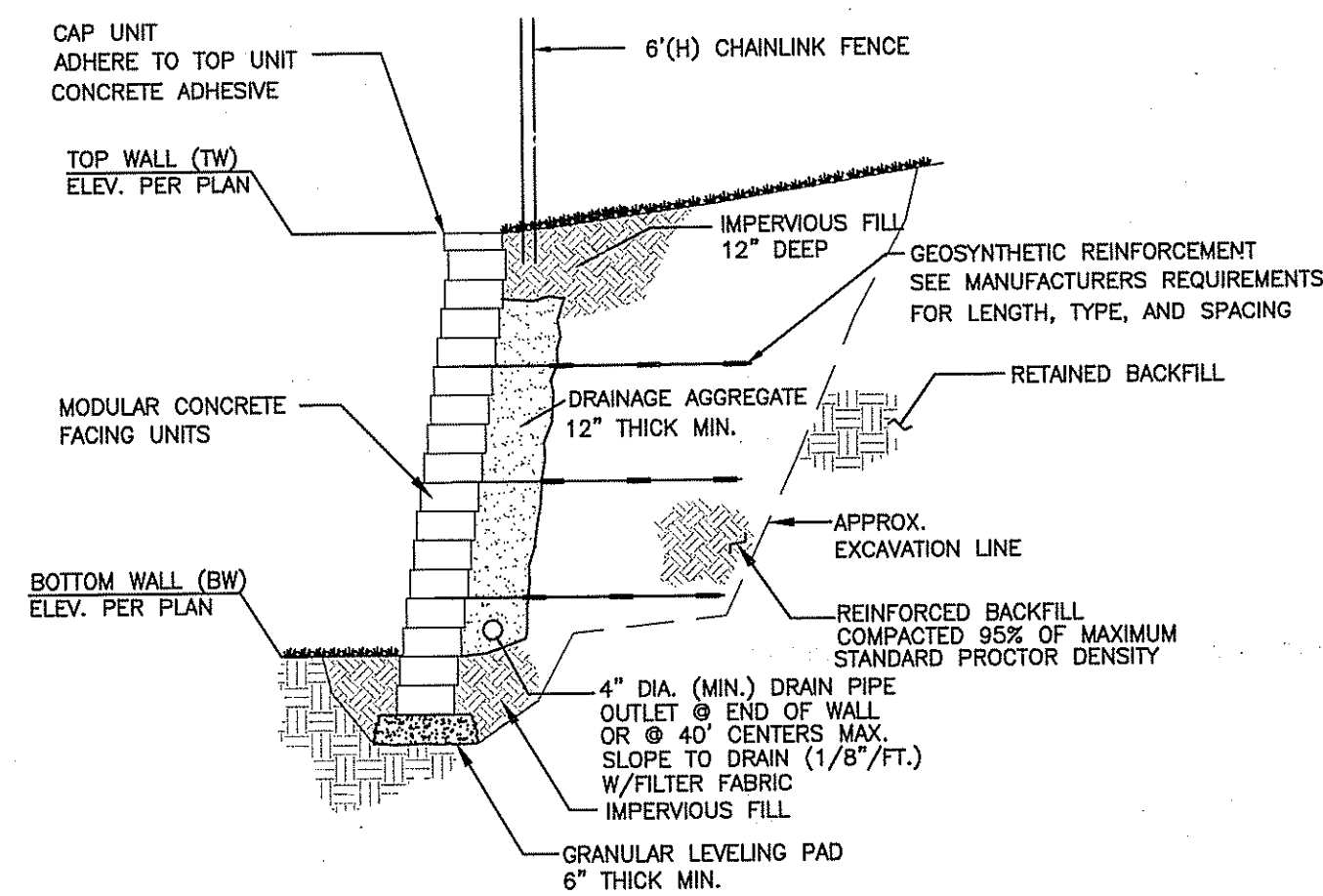
NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
STEVEN B. GAROFALO
PROFESSIONAL ENGINEER
No. 4155
2-16-09

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CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

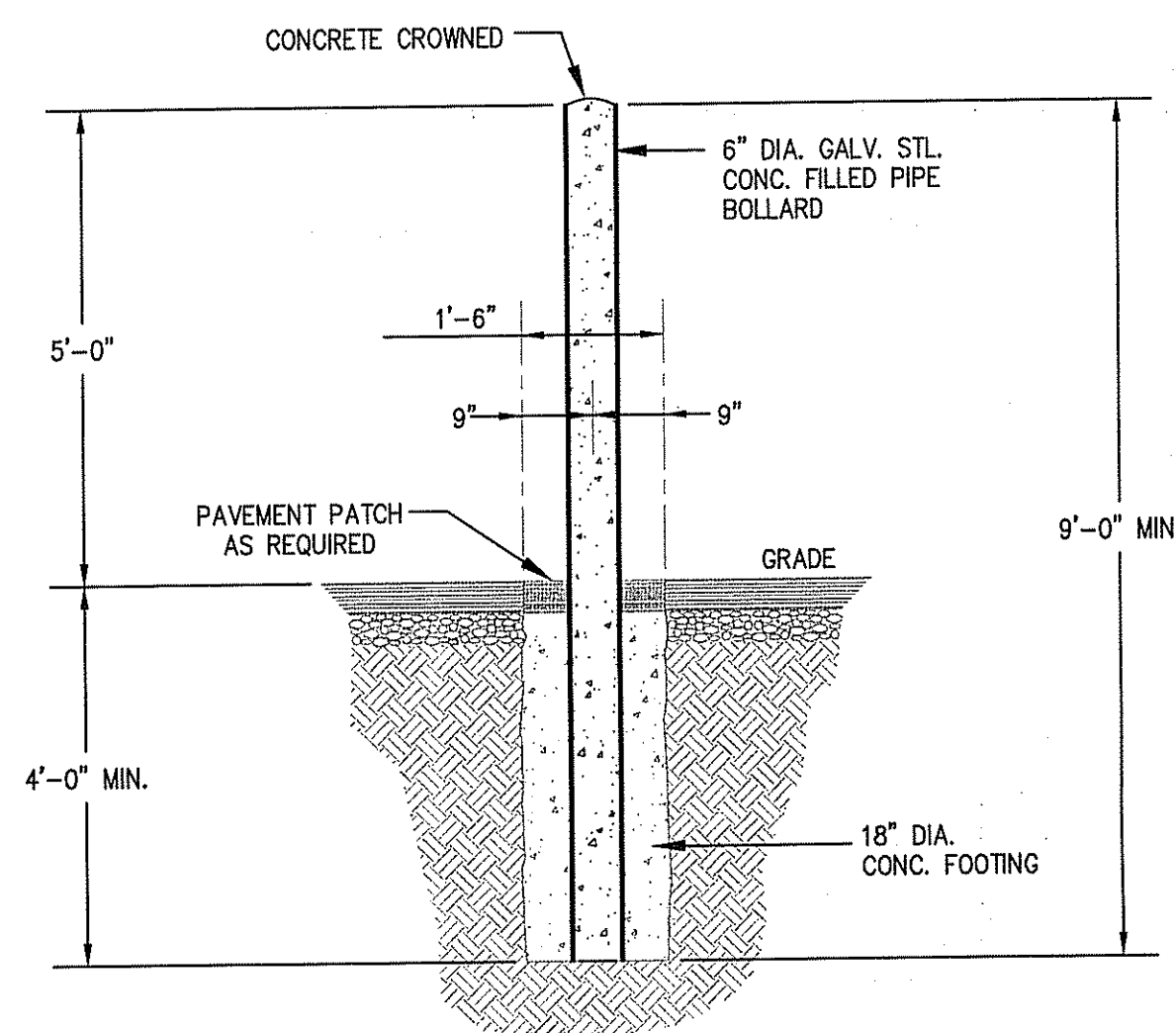
JOB NO. 5570-07
DWG. NO. 5570-DETAILS NOTES
SCALE: AS SHOWN
PARTIAL PLAN OF ENVIRONMENTAL MANAGEMENT PROJECT OF WATER RESOURCES AT FRESHWATER WETLAND MARCH 22/MARCH 2008
AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAR 18 2009 FILE # 08-0097
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLAN FOR THE PROJECT ON SITE

C705
35 OF 39 SHEET

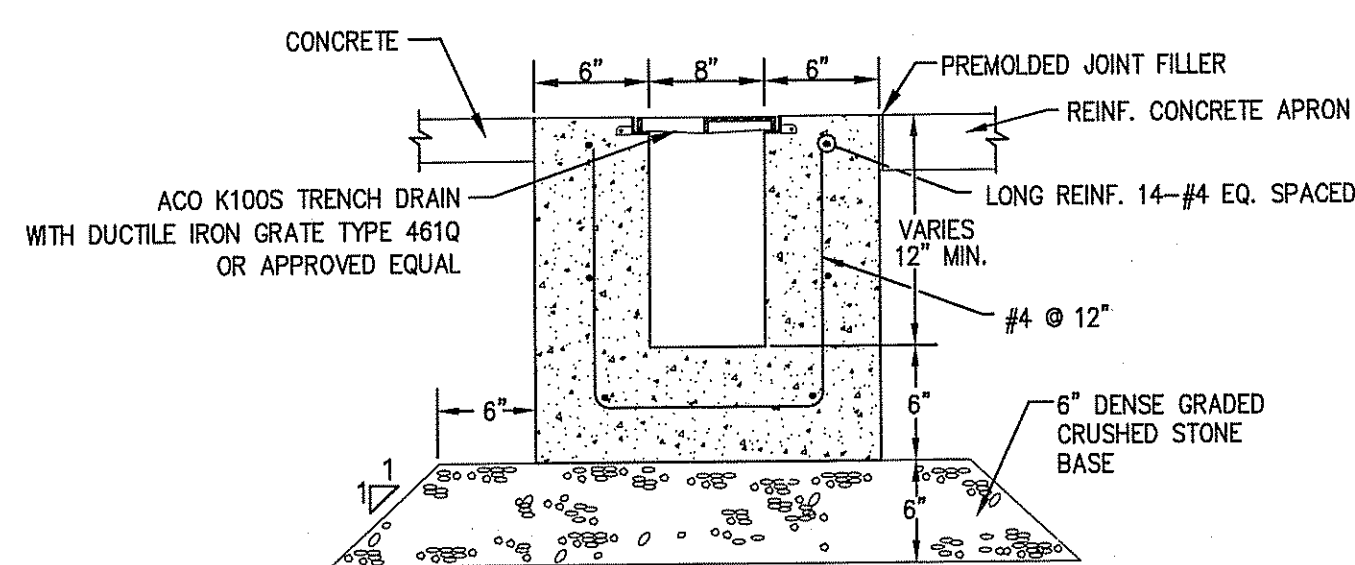


NOTE:
DETAILS INDICATED ARE FOR TYPICAL MODULAR BLOCK WALL INSTALLATIONS (VERSA-LOK, KEYSTONE, OR APPROVED EQUAL). CONTRACTOR SHALL SUBMIT DETAILED STAMPED SHOP DRAWINGS FOR WALL CONSTRUCTION.

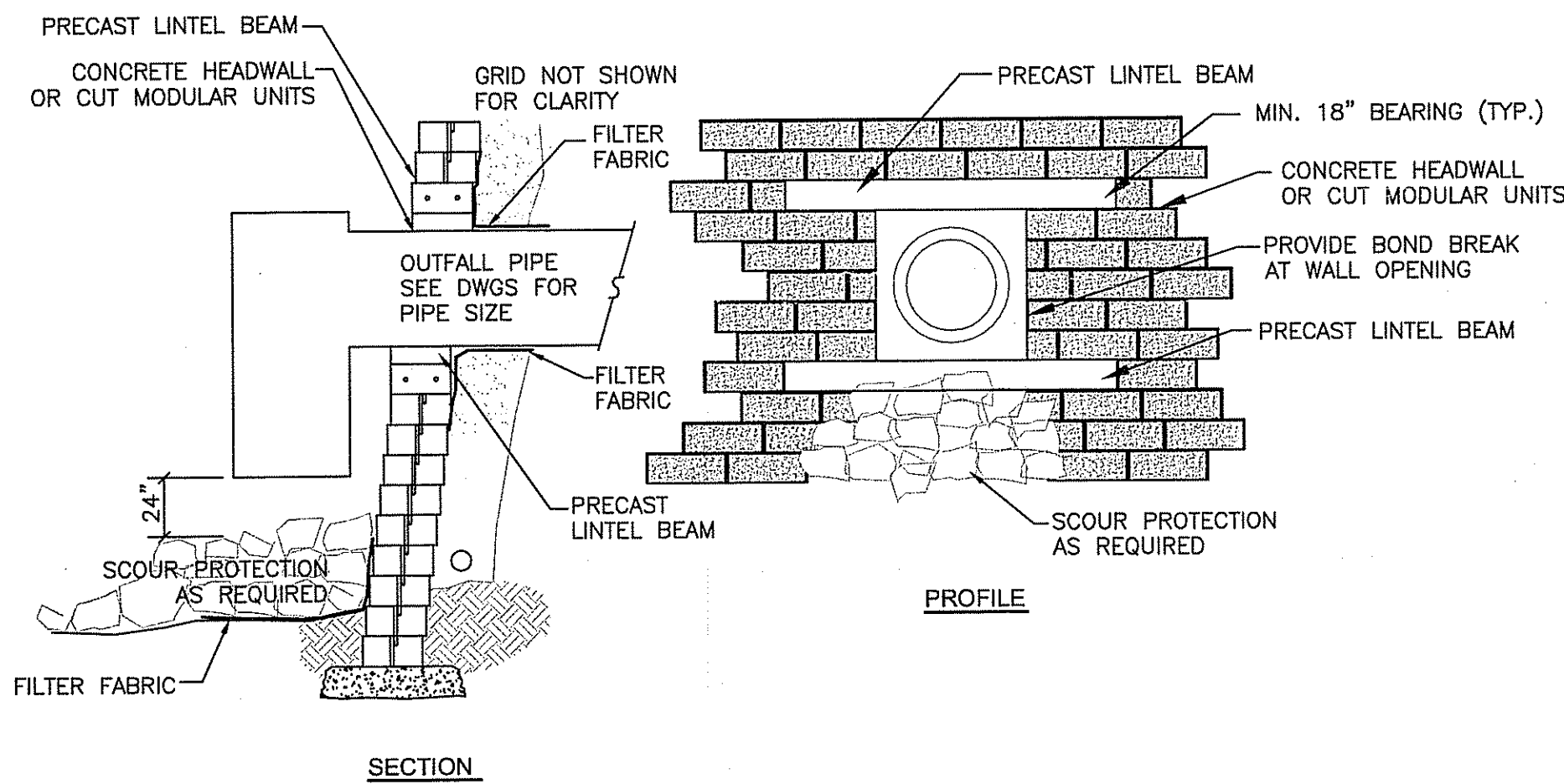
1 RETAINING WALL DETAIL
C706 N.T.S.



4 TYPICAL NATIONAL GRID BOLLARD DETAIL
C706 N.T.S.

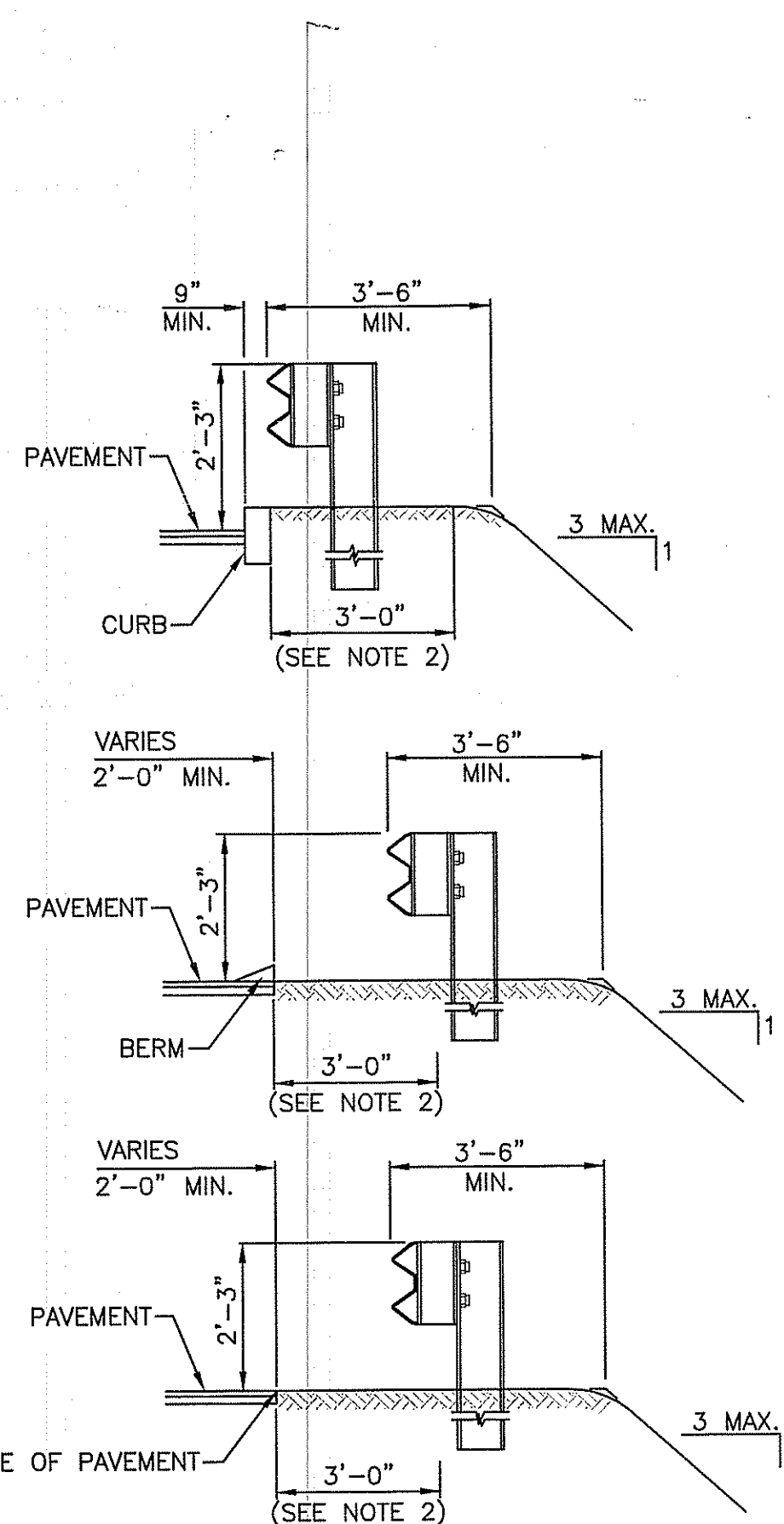


5 TRENCH DRAIN DETAIL
C706 N.T.S.



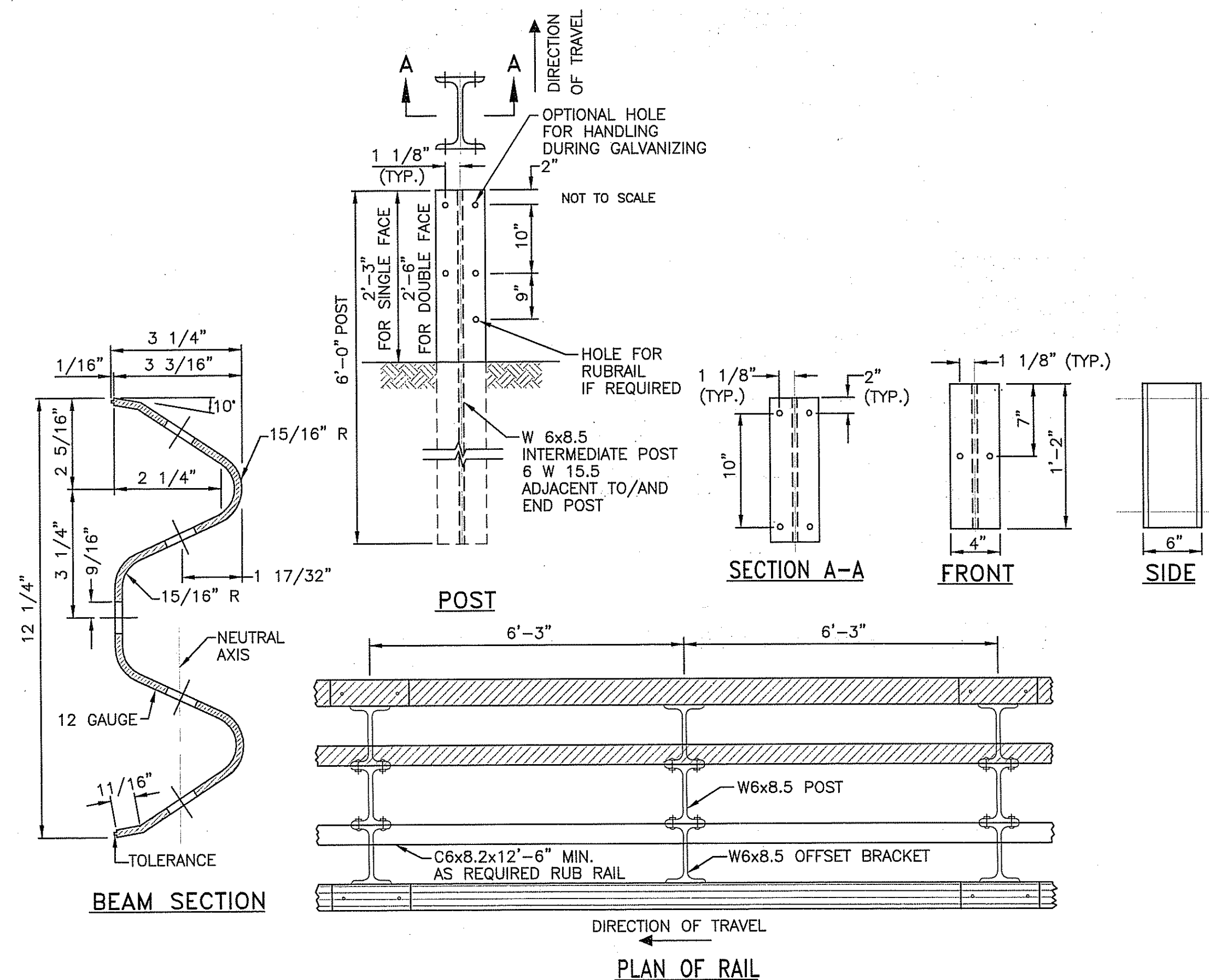
LINTEL NOTES:
• FINAL BEAM SIZE, REINFORCEMENT, AND CONFIGURATION TO BE DESIGNED BY WALL DESIGN ENGINEER
• LINTEL BEAMS SHALL BE PRECAST WITH MINIMUM 7 DAYS CURE
• HEIGHT OF BEAM SHALL CORRESPOND TO HEIGHT OF MODULAR UNITS
• PLACEMENT OF LINTEL BEAMS SHALL BE CONSISTENT WITH THE PLACEMENT OF OUTFALL PIPE
• INSTALL OUTFALL PIPE PRIOR TO CONSTRUCTION OF WALL ABOVE
• OUTFALL PIPE SHALL EXTEND BEYOND BASE COURSE OF WALL NO LESS THAN 6"
• GEOTEXTILE FABRIC SHALL BE INSTALLED AROUND PIPE OPENING
• LINTEL TO EXTEND MINIMUM 18" EITHER SIDE OF PIPE

2 TYPICAL VERSA-LOK WALL W/ PIPE PENETRATION
C706 N.T.S.



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
2. TREAT THIS AREA WITH HERBICIDE AFTER THE GUARD RAIL INSTALLATION AS REQUIRED.

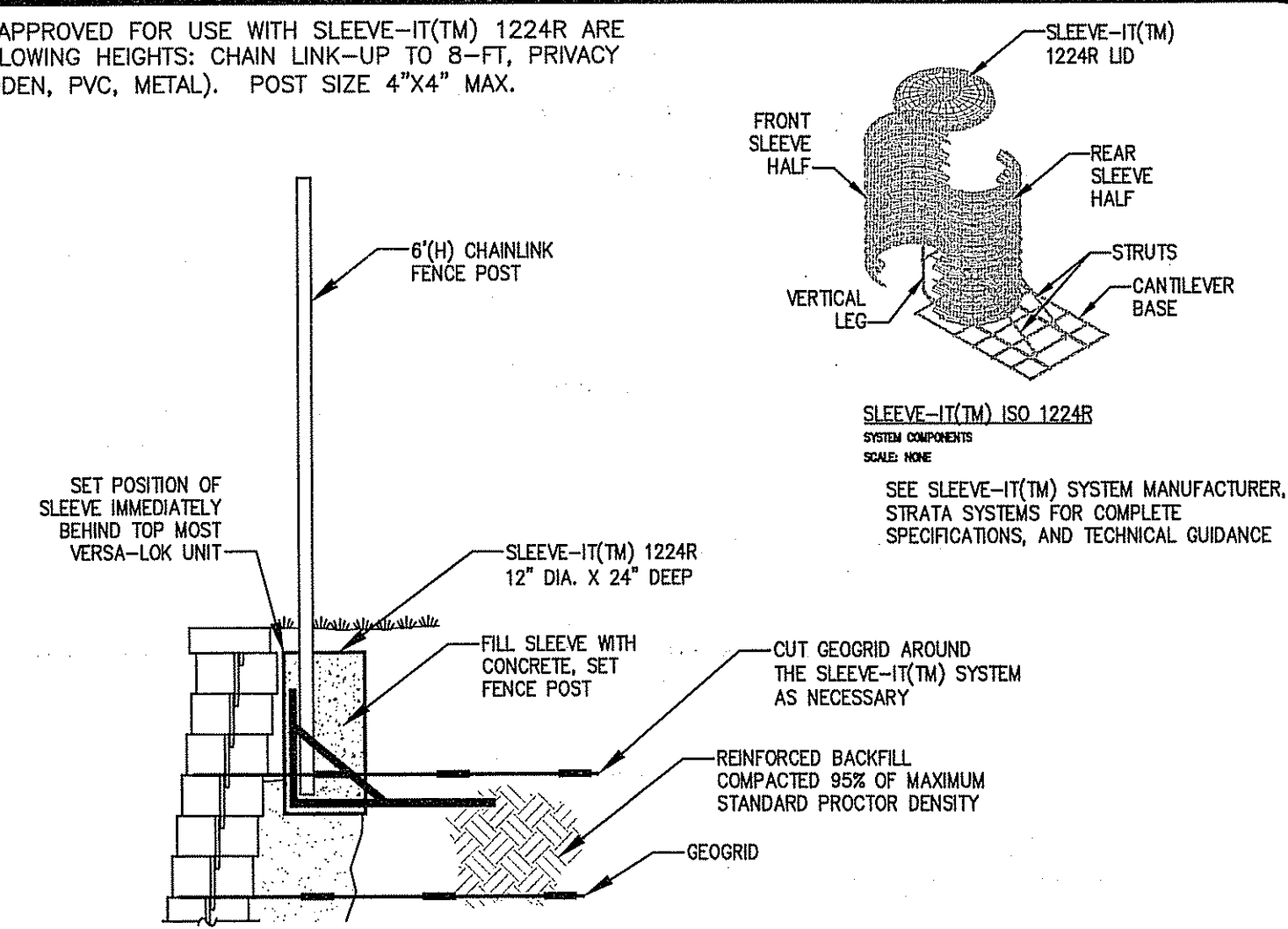
6 TYPICAL GUARDRAIL INSTALLATION
C706 (R.I. STD 34.1.0) N.T.S.



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
1. POST AND OFFSET BRACKET TO BE FABRICATED FROM 6"x4" 8 1/2 LBS/FT. STEEL "H" SECTIONS.
2. POST AND BRACKET BOLT HOLES TO BE OVAL UNLESS OTHERWISE SPECIFIED.
4. ALL HOLES IN OFFSET BRACKETS SHALL BE 13/16"

7 STEEL BEAM GUARDRAIL
C706 (R.I. STD 34.2.0) N.T.S.

*FENCING SYSTEMS APPROVED FOR USE WITH SLEEVE-IT(TM) 1224R ARE LIMITED TO THE FOLLOWING HEIGHTS: CHAIN LINK-UP TO 8-FT, PRIVACY-UP TO 6-FT (WOODEN, PVC, METAL). POST SIZE 4"x4" MAX.



3 TYPICAL FENCE POST DETAIL W/ SLEEVE-IT(TM)1224R
C706 N.T.S.

SITE DETAILS - PLAN 6
FOR
STONEHILL MARKETPLACE
SITUATED ON
1600 ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
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85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

RECEIVED
FEB 17 2009

STEVEN B. GAROFALO
REGISTERED PROFESSIONAL ENGINEER
NO. 0155
EXPIRES 12/31/2010
2-11-09

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GAROFALO & ASSOCIATES, INC. AND HAVE BEEN
PREPARED FOR THE OWNER FOR THIS
PROJECT AT THIS SITE AND IS NOT TO BE
REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, WITHOUT WRITTEN CONSENT OF
THE OWNER OR ONE OF ITS DIRECTORS.

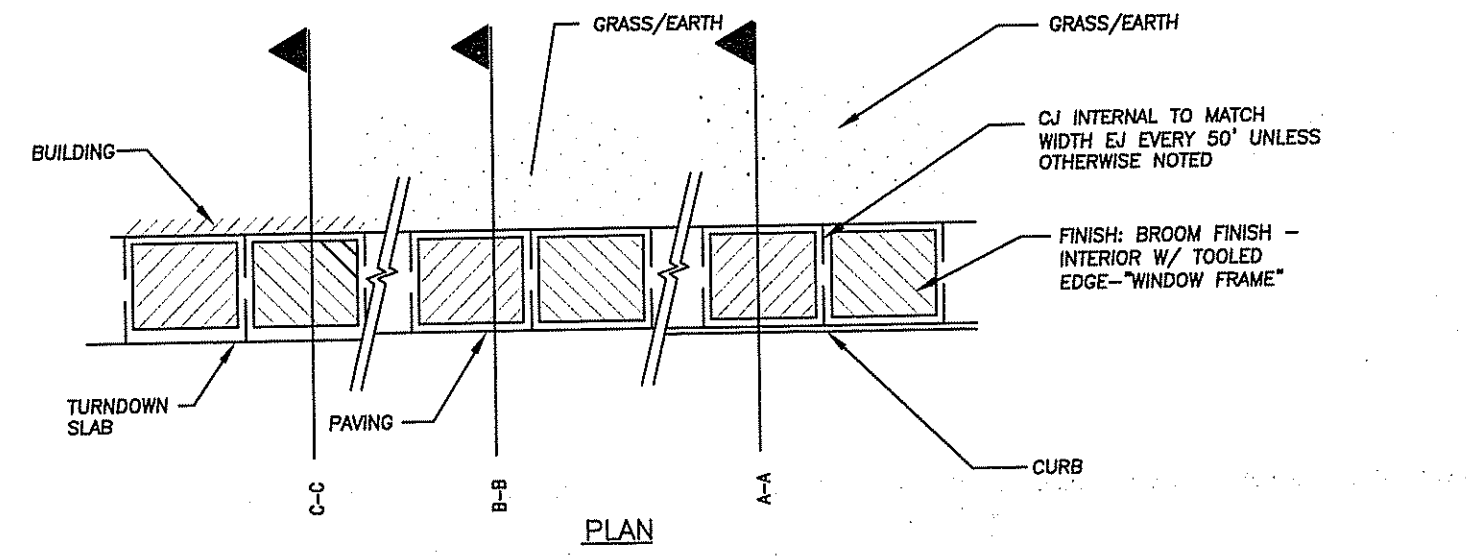
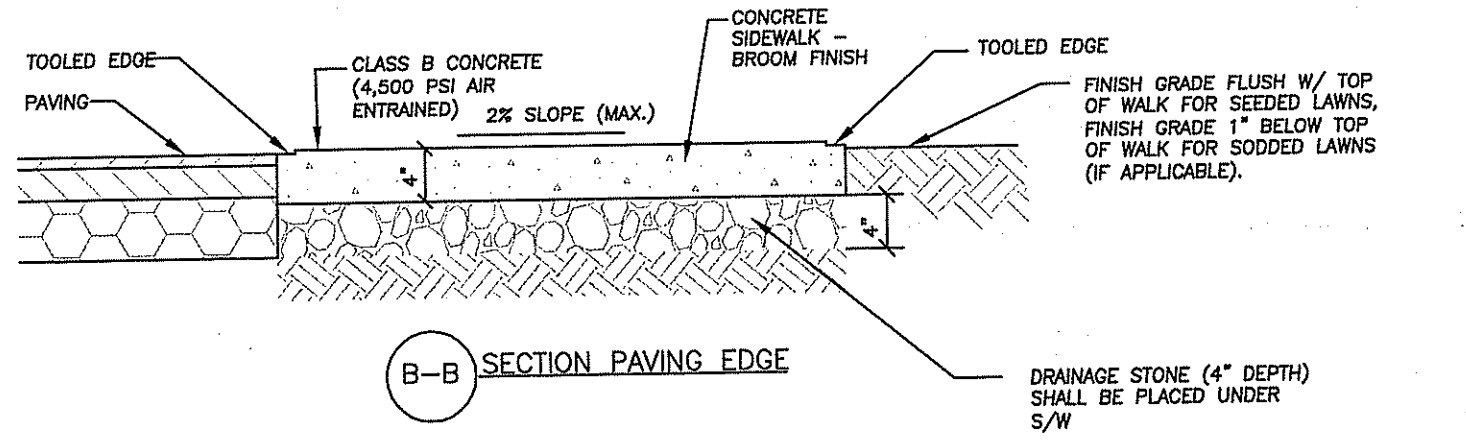
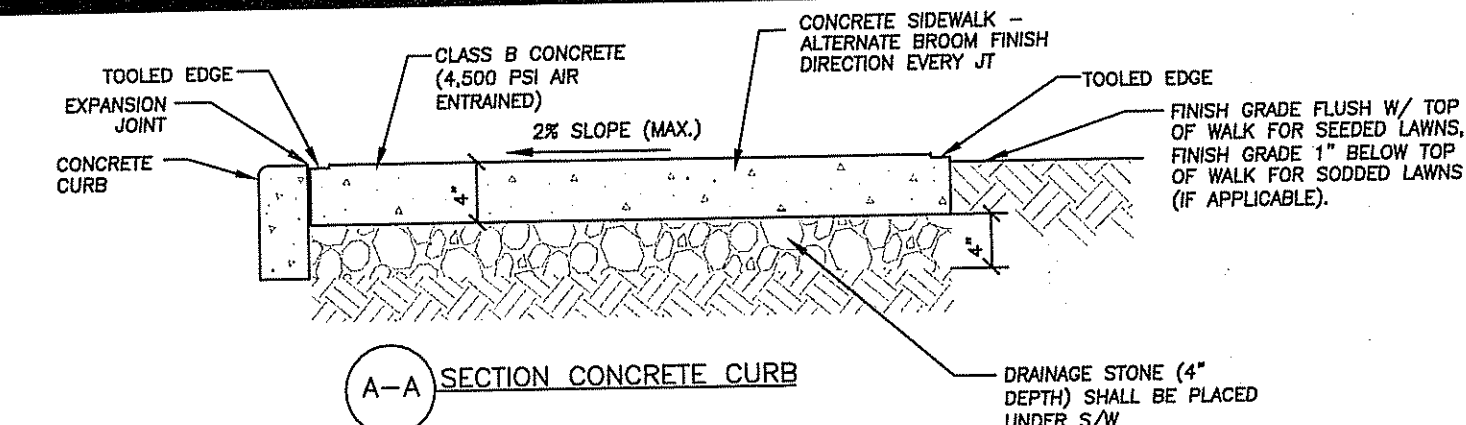
JOB NO. 5570-07
DWG. NO. 5570-DETAILS/NOTES
SCALE: 1/4" = 1'-0"
DATE: MAR 18 2009
FILE # 08-0097

DRAWN BY PJD
CHECKED SBG
APPROVED SBG

AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 18 2009
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PROJECT CONSTRUCTION ON SITE

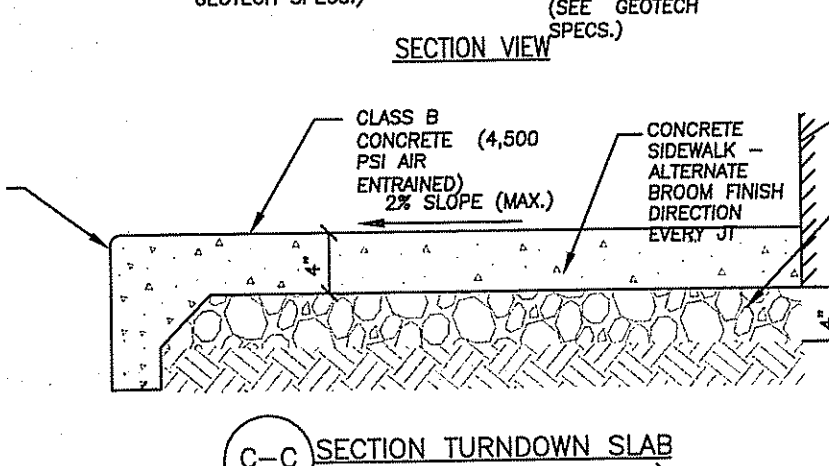
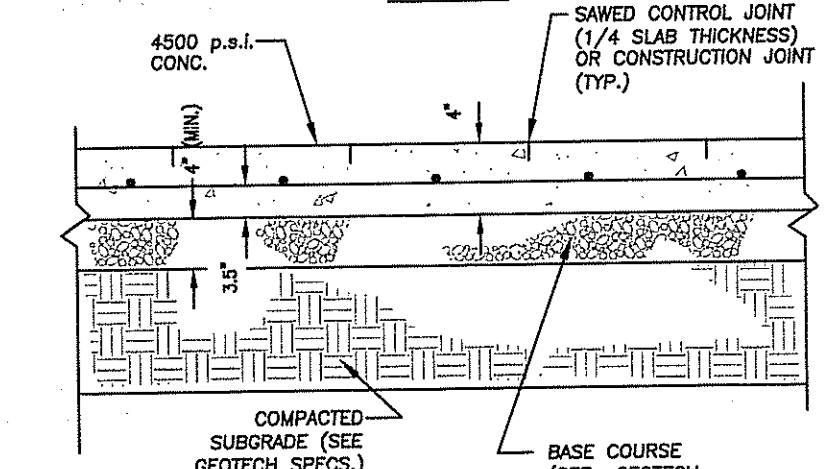
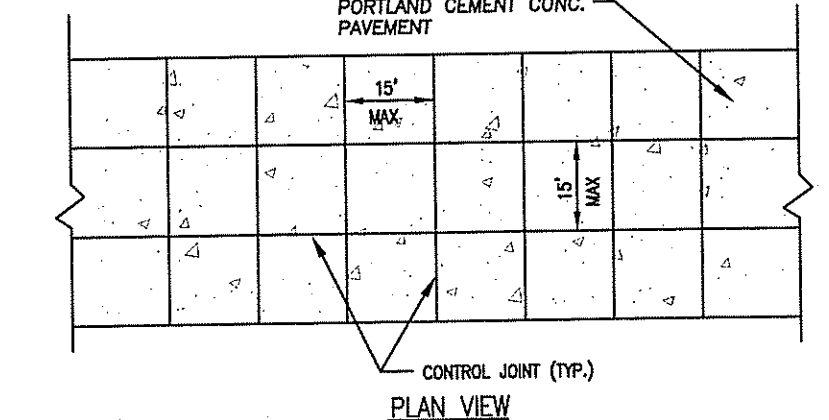
C706

36 OF 39 SHEET

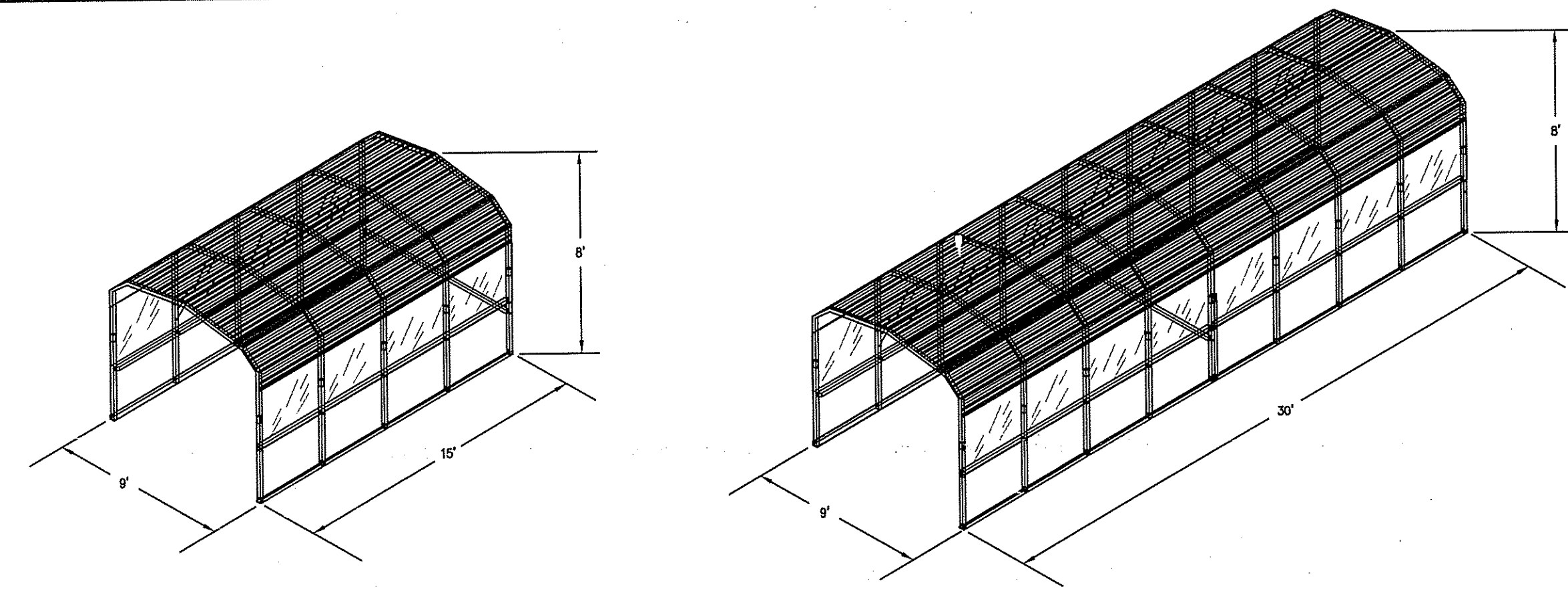


1 REINFORCED CONCRETE SIDEWALK DETAIL
C707 N.T.S.

- NOTES:
- CAST-IN-PLACE CONCRETE FOR ALL SIDEWALKS SHALL BE 4,500 P.S.I.
 - REINFORCING STEEL FOR CONCRETE SHALL BE W1.4 X W1.4 W.W.F. (WELDED WIRE FABRIC)

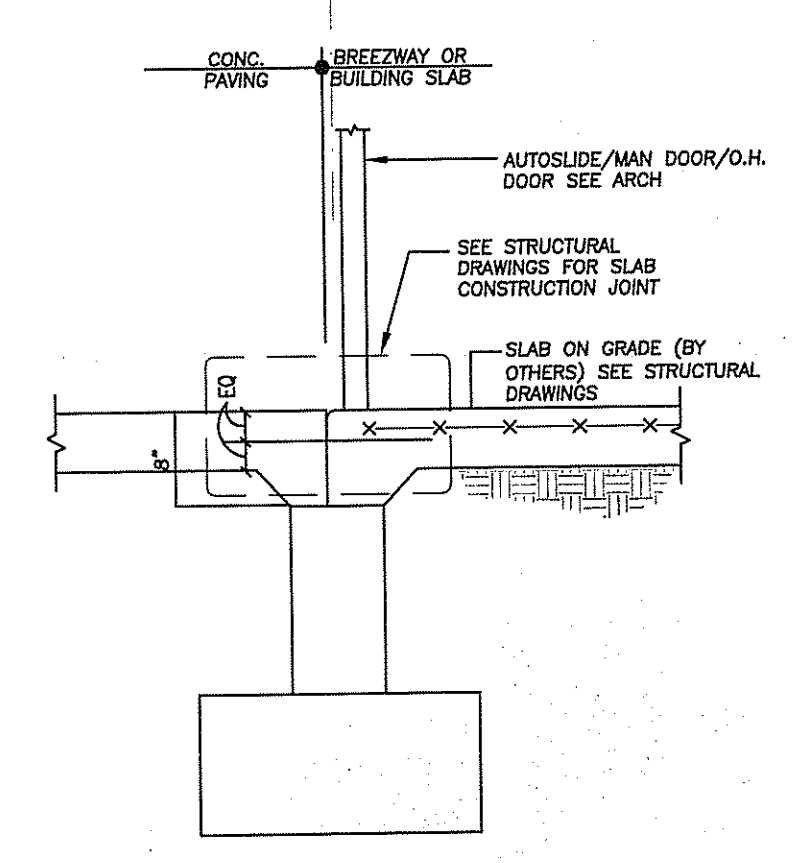


- NOTES:
- LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE SAWS AS INDICATED.
 - THE JOINT SEAL MANUFACTURER'S SPECIFICATIONS SHALL BE COMPATIBLE WITH THE JOINT CONFIGURATION.
 - FOR ALL JOINTS THE BACKER ROD MATERIAL SHALL BE COMPATIBLE WITH THE COLD Poured SEALANT AND SLIGHTLY OVERSIZED TO PREVENT MOVEMENT DURING THE JOINT SEALANT OPERATION.
 - THE WIDTH OF ALL JOINTS SHALL BE CORRECTED FOR 68 DEGREES F.
 - EXPANSION JOINTS SHALL BE USED AT ALL LOCATIONS WHERE PAVEMENT ABUTS A PERMANENT STRUCTURE OR AS DIRECTED BY THE ENGINEER. 6" DOWELS AND THE BARS FOR CONSTRUCTION JOINTS SHALL BE CAST IN PLACE.

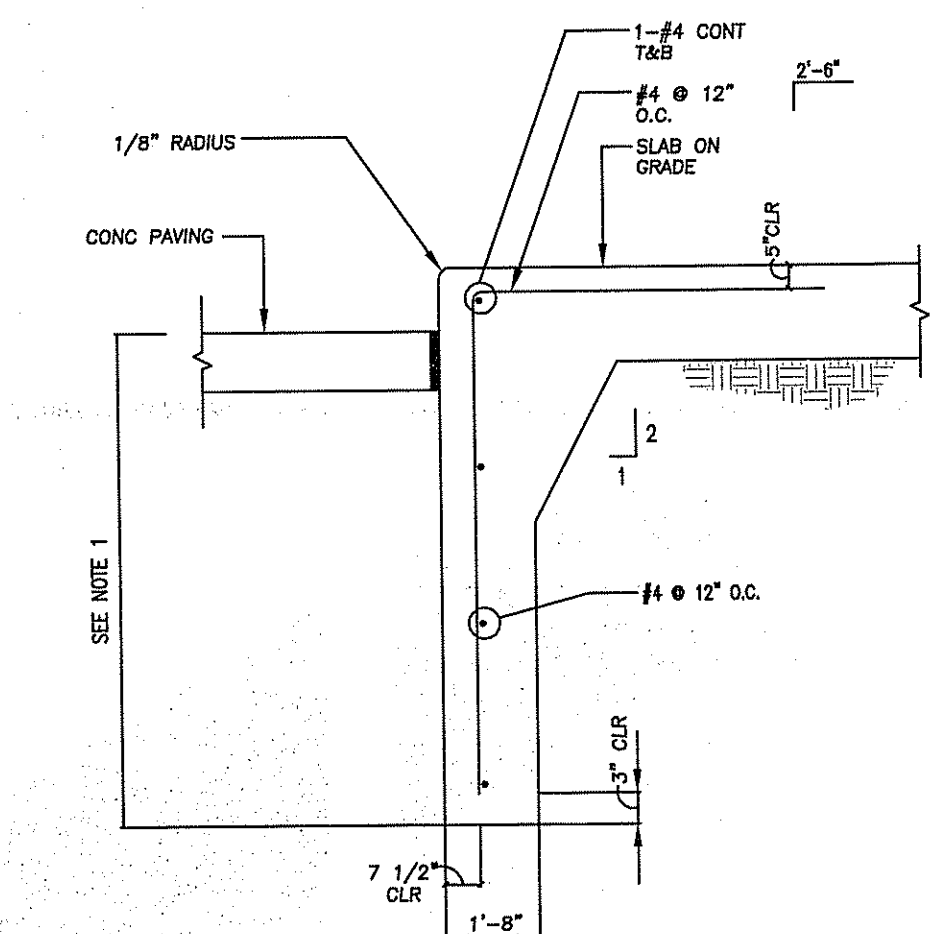


2 SINGLE CART CORRAL
C707 N.T.S.

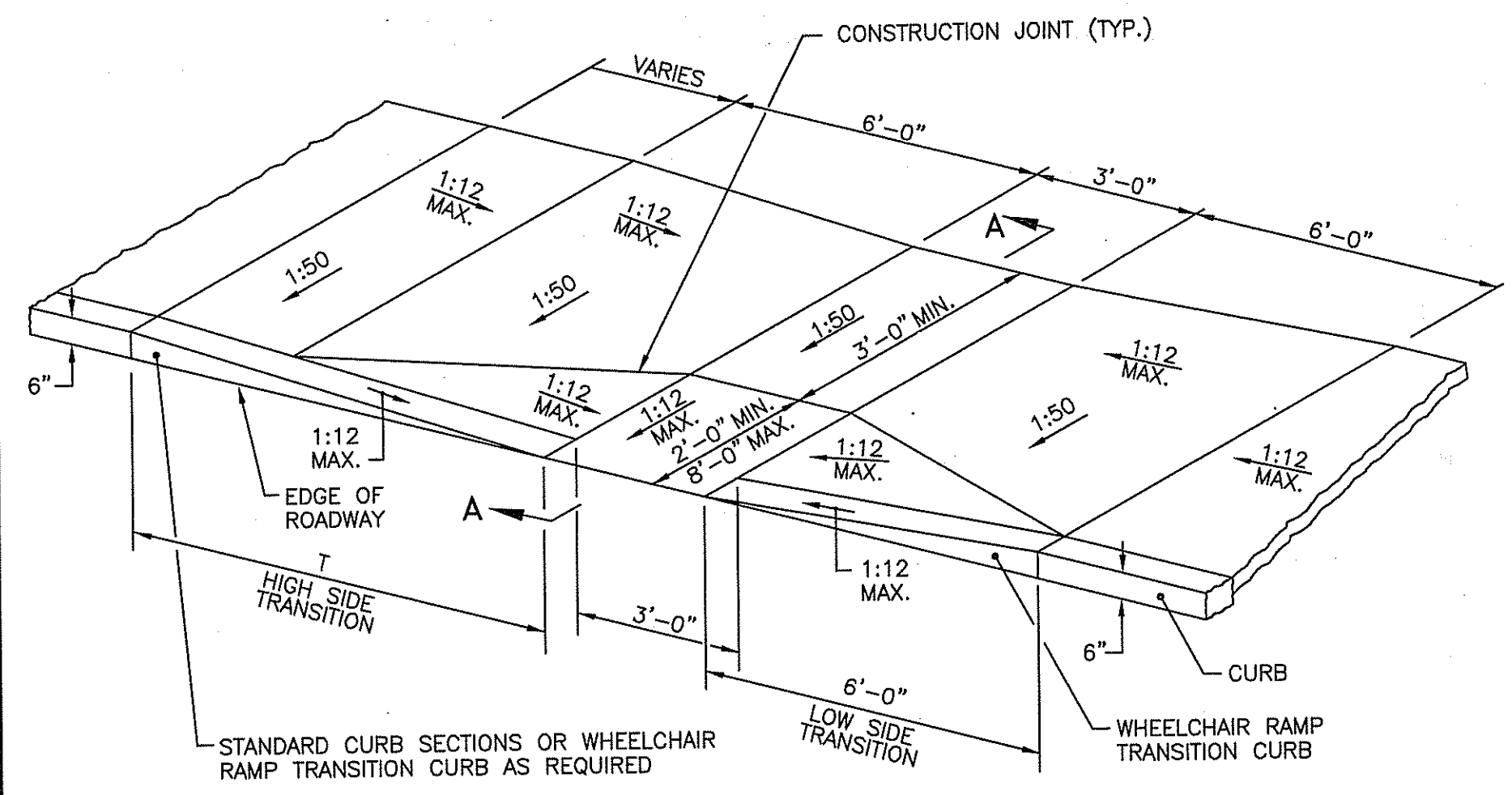
3 DOUBLE CART CORRAL
C707 N.T.S.



7 SECTION @ BREEZWAY & GRADE DOORS
C707 N.T.S.

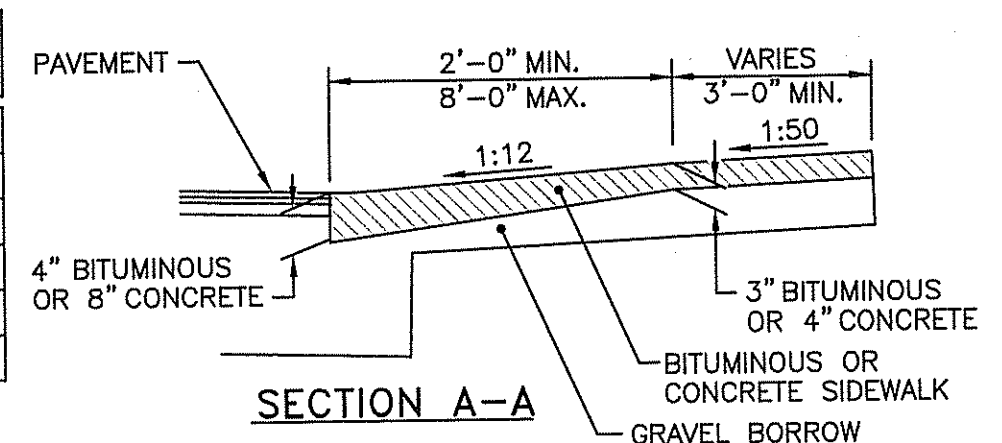


8 TURN DOWN SLAB SECTION
C707 N.T.S.



ISOMETRIC VIEW
NOT TO SCALE

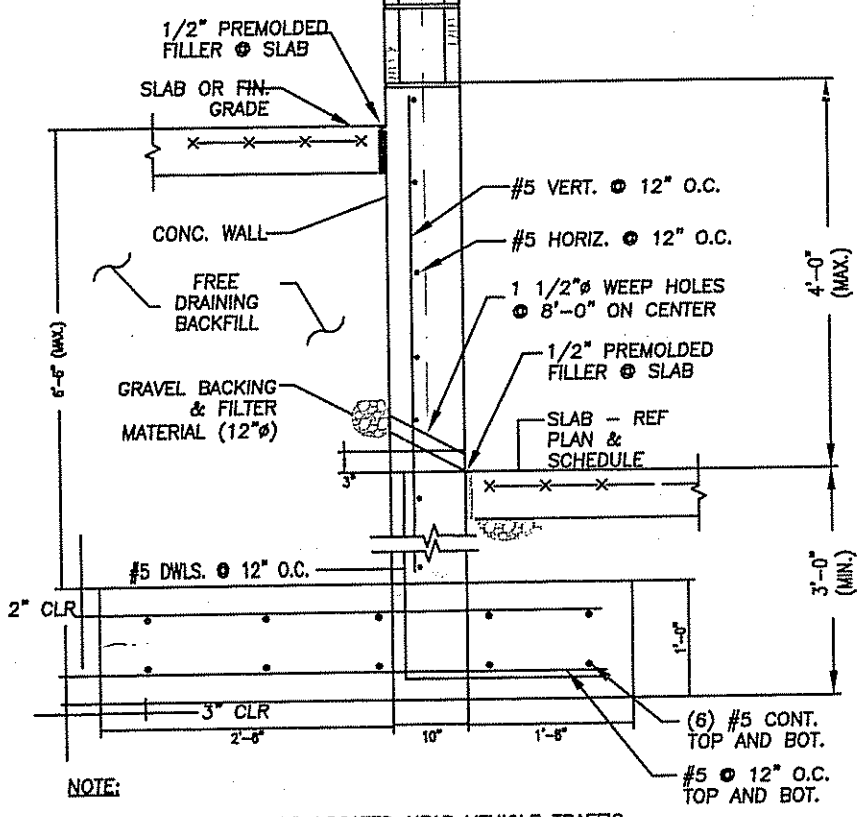
ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0



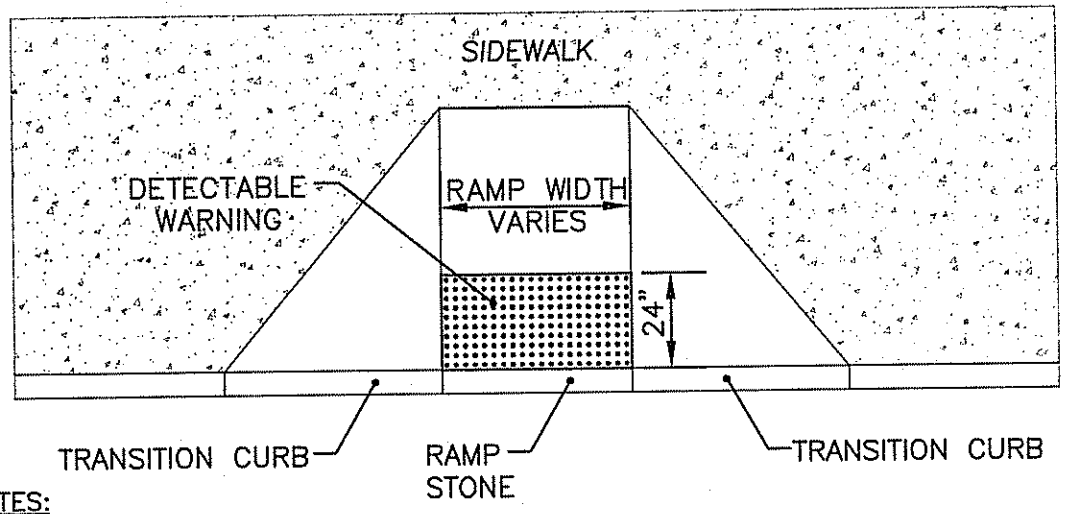
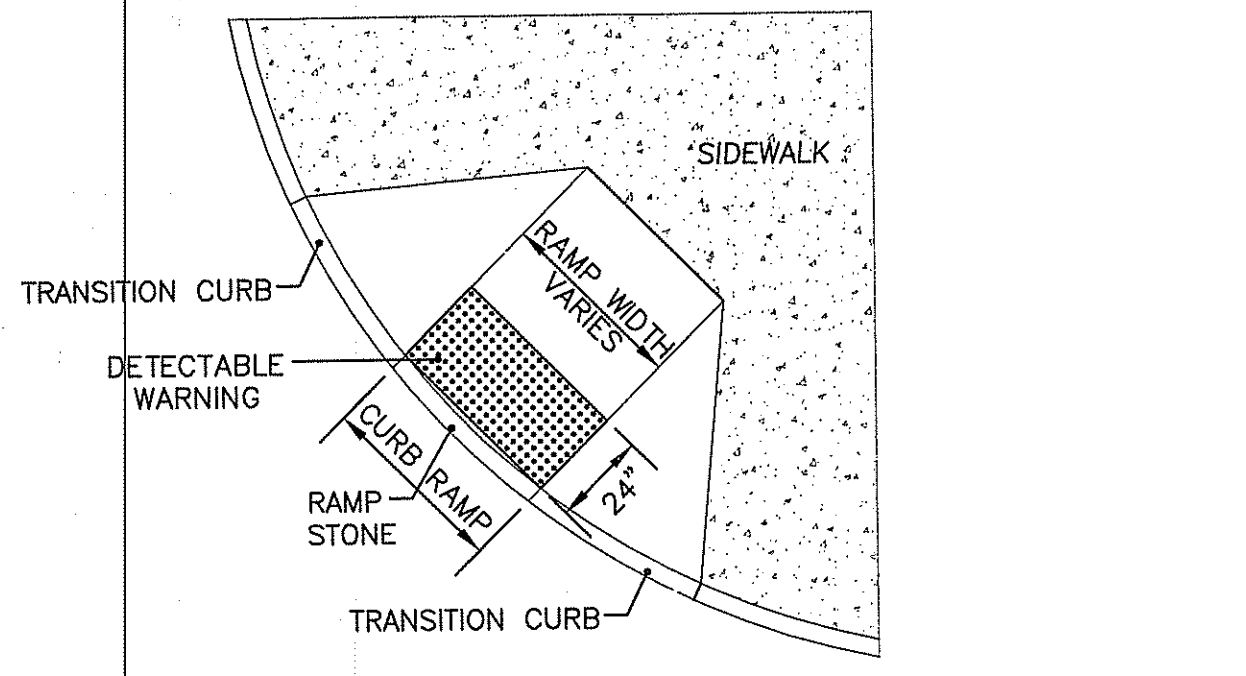
SECTION A-A

- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 - WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
 - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
 - DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
 - LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
 - IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
 - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
 - THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
 - WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
 - IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
 - THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
 - THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
 - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
 - ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.

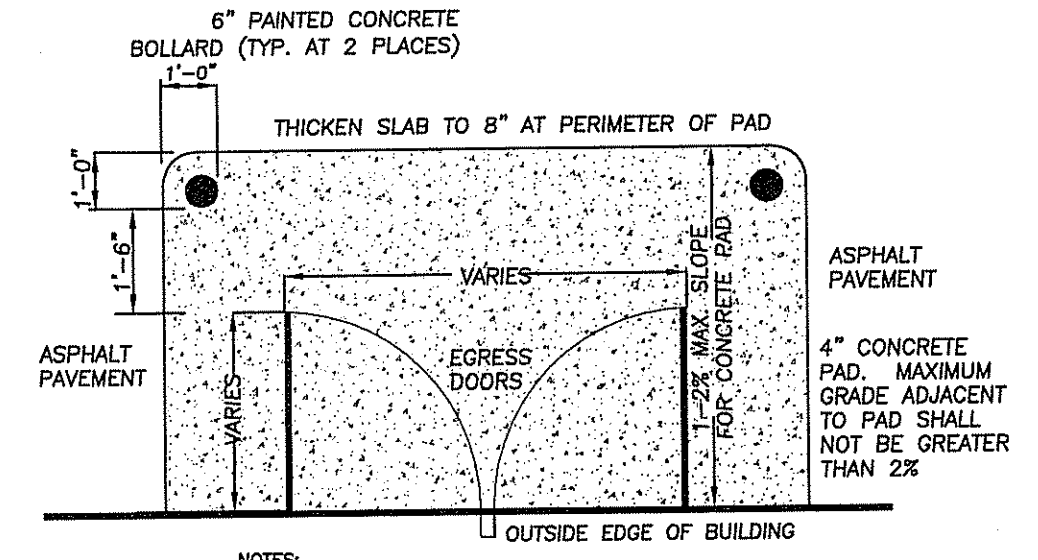
4 WHEELCHAIR RAMP
C707 (R.I. STD 43.3.0) N.T.S.



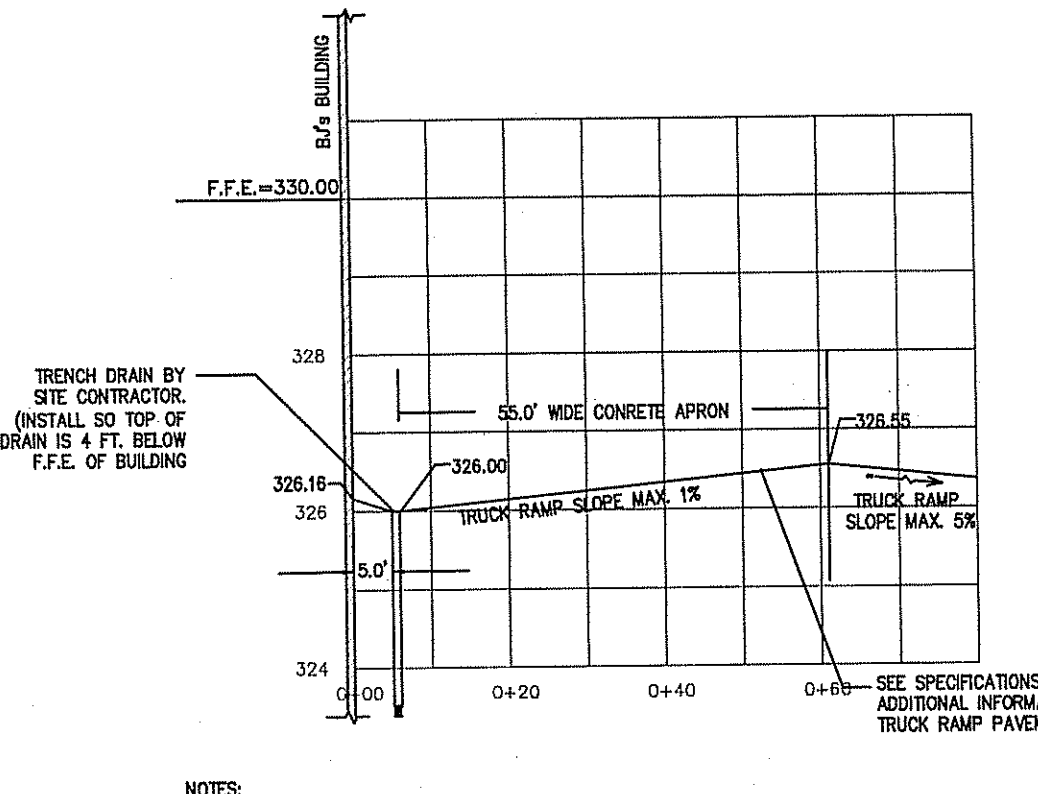
5 SECTION AT RETAINING WALL
C707 N.T.S.



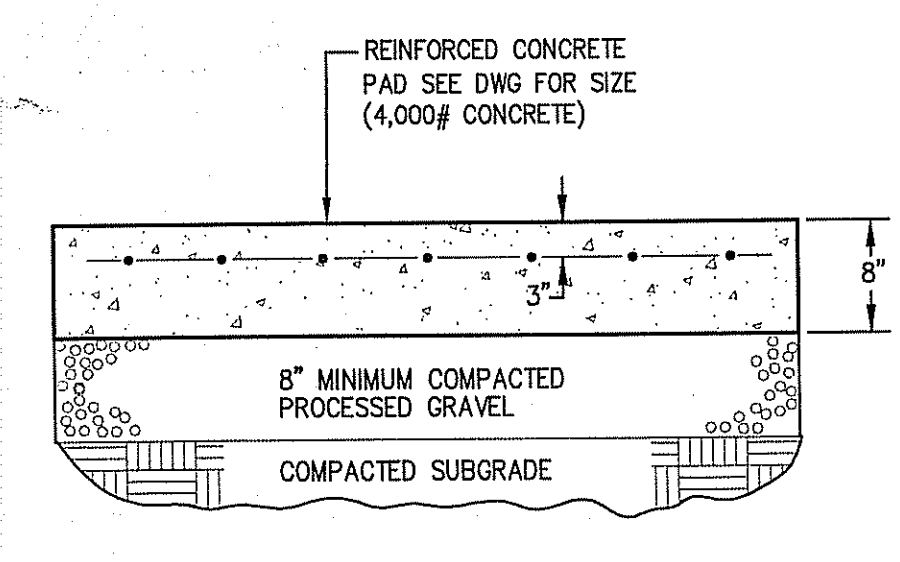
6 DETECTABLE WARNING SYSTEM
C707 (R.I. STD 48.1.0) N.T.S.



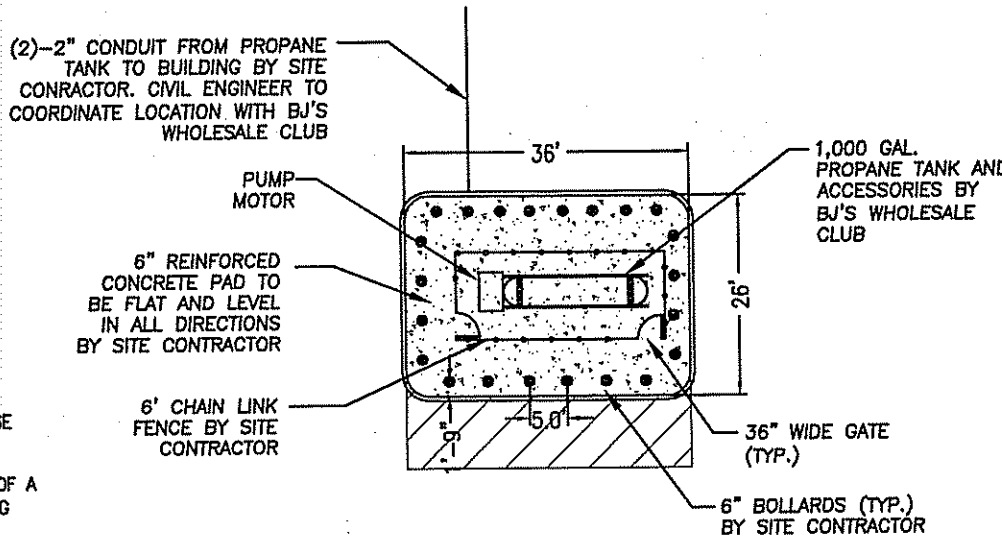
9 CONCRETE STOOP DETAIL
C707 N.T.S.



11 TRUCK RAMP DETAIL
C707 N.T.S.



10 GENERATOR PAD DETAIL
C707 N.T.S.



12 PROPANE TANK DETAIL
C707 N.T.S.

SITE DETAILS - PLAN 7
FOR
STONEHILL MARKETPLACE
SITUATED ON
ATWOOD AVENUE
JOHNSTON, RHODE ISLAND
PREPARED FOR
195 ASSOCIATES, LLC

NO.	REVISION	BY	DATE
1	R.I. DEM COMMENTS	PJD	11/26/08
2	PWSB SUBMITTAL	PJD	01/30/09
3	R.I. DEM COMMENTS	PJD	02/12/09

RECEIVED
FEB 17 2009
PROVIDENCE, R.I.

STEVEN B. GAROFALO
REGISTERED PROFESSIONAL ENGINEER
NO. 4153
STATE OF RHODE ISLAND

2-11-09

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 COLLIS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

JOB NO. 5570-07
DWG. NO. 5570-DETAILS-NOTES

DRAWN BY PJD
CHECKED SBG

SCALE: AS SHOWN
APPROVED SBG
ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLAND PROGRAM
MAR 18 2009 FILE # DR-0099

SIGN DESIGNATION CHART

SIGN NUMBER	R1-1	R1-2	R2-1	R2-4a	R2-5c
LEGEND					
COLOR	BACKGROUND: RED COPY: WHITE	BACKGROUND: WHITE COPY: RED	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK
SIGN DIMENSION	WIDTH: 30" HEIGHT: 30"	WIDTH: 36" HEIGHT: 36"	WIDTH: 24" HEIGHT: 30"	WIDTH: 24" HEIGHT: 48"	WIDTH: 24" HEIGHT: 30"

SIGN NUMBER	R3-1	R3-2	R3-3	R3-4	R3-5
LEGEND					
COLOR	BACKGROUND: WHITE COPY: RED (BLACK ARROW)	BACKGROUND: WHITE COPY: RED (BLACK ARROW)	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: RED (BLACK ARROW)	BACKGROUND: YELLOW COPY: BLACK
SIGN DIMENSION	WIDTH: 24" HEIGHT: 24"	WIDTH: 24" HEIGHT: 24"	WIDTH: 24" HEIGHT: 24"	WIDTH: 24" HEIGHT: 24"	WIDTH: 30" HEIGHT: 36"

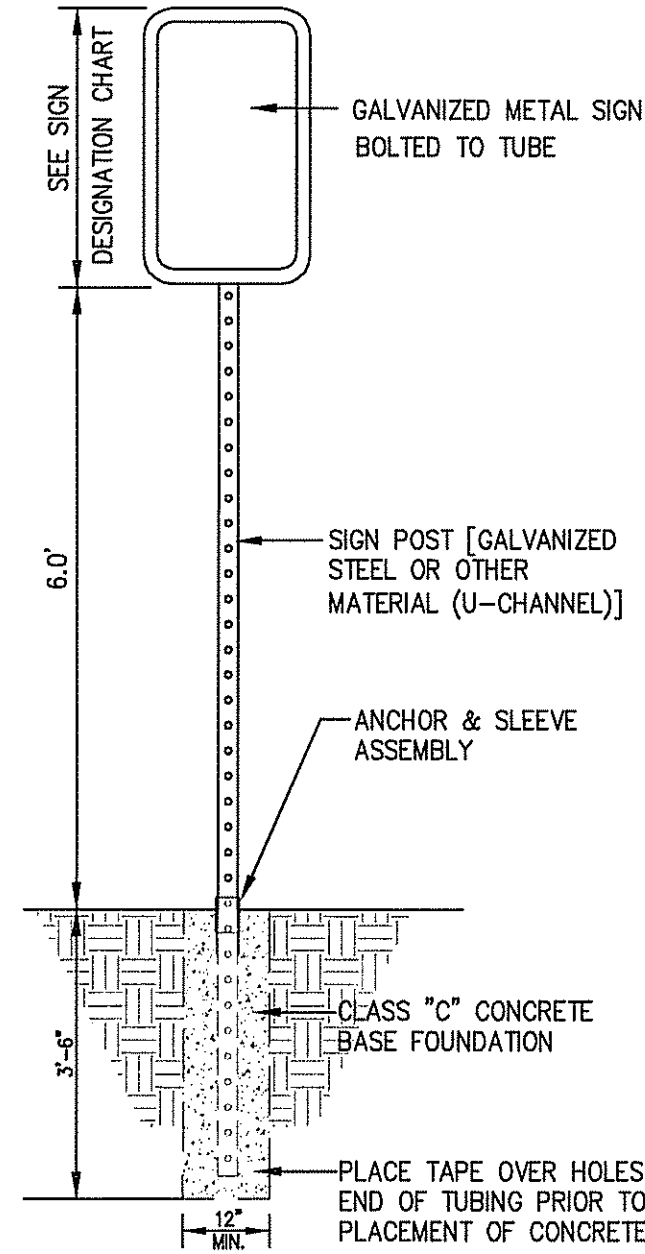
SIGN NUMBER	R3-6	R3-7 (R OR L)	R4-1	R4-2	R4-3
LEGEND					
COLOR	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK
SIGN DIMENSION	WIDTH: 30" HEIGHT: 36"	WIDTH: 30" HEIGHT: 30"	WIDTH: 18" HEIGHT: 24"	WIDTH: 18" HEIGHT: 24"	WIDTH: 24" HEIGHT: 30"

SIGN NUMBER	R4-5	R4-6	R4-7	R4-7a	R4-7b
LEGEND					
COLOR	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: BLACK
SIGN DIMENSION	WIDTH: 24" HEIGHT: 30"	WIDTH: 24" HEIGHT: 30"	WIDTH: 24" HEIGHT: 30"	WIDTH: 18" HEIGHT: 24"	WIDTH: 18" HEIGHT: 24"

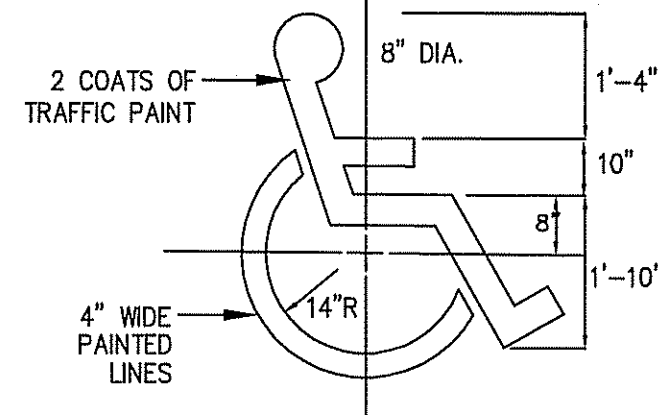
SIGN NUMBER	R5-1	R6-1 (R OR L)	R6-2 (R OR L)	R7-1	R7-6
LEGEND					
COLOR	BACKGROUND: RED COPY: WHITE	BACKGROUND: BLACK-ARROW COPY: WHITE	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: WHITE COPY: RED	BACKGROUND: WHITE COPY: RED
SIGN DIMENSION	WIDTH: 30" HEIGHT: 30"	WIDTH: 36" HEIGHT: 12"	WIDTH: 18" HEIGHT: 24"	WIDTH: 12" HEIGHT: 18"	WIDTH: 12" HEIGHT: 18"

SIGN NUMBER	R7-8	R7-8b	R8-31	TIRE CENTER PARKING ONLY	RESERVED FOR MEMBERS WITH INFANTS
LEGEND					
COLOR	BACKGROUND: WHITE COPY: BLUE	BACKGROUND: WHITE COPY: BLUE	BACKGROUND: WHITE COPY: RED	BACKGROUND: WHITE COPY: BLACK	BACKGROUND: RED COPY: WHITE
SIGN DIMENSION	WIDTH: 12" HEIGHT: 18"	WIDTH: 12" HEIGHT: 3"	WIDTH: 12" HEIGHT: 18"	WIDTH: 10" HEIGHT: 15"	WIDTH: 15" DIAMETER HEIGHT: 15" DIAMETER

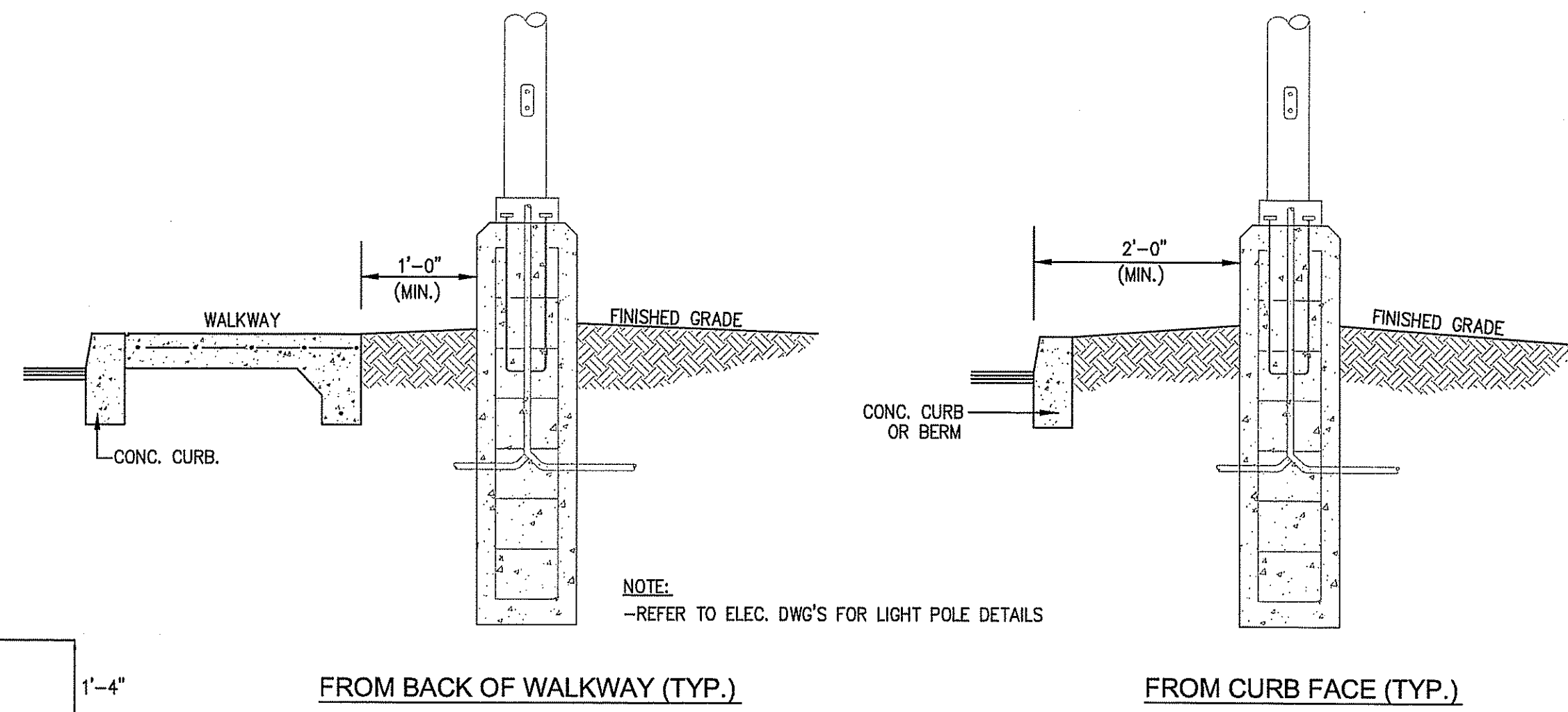
*SIGN DESIGNATIONS TAKEN FROM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)



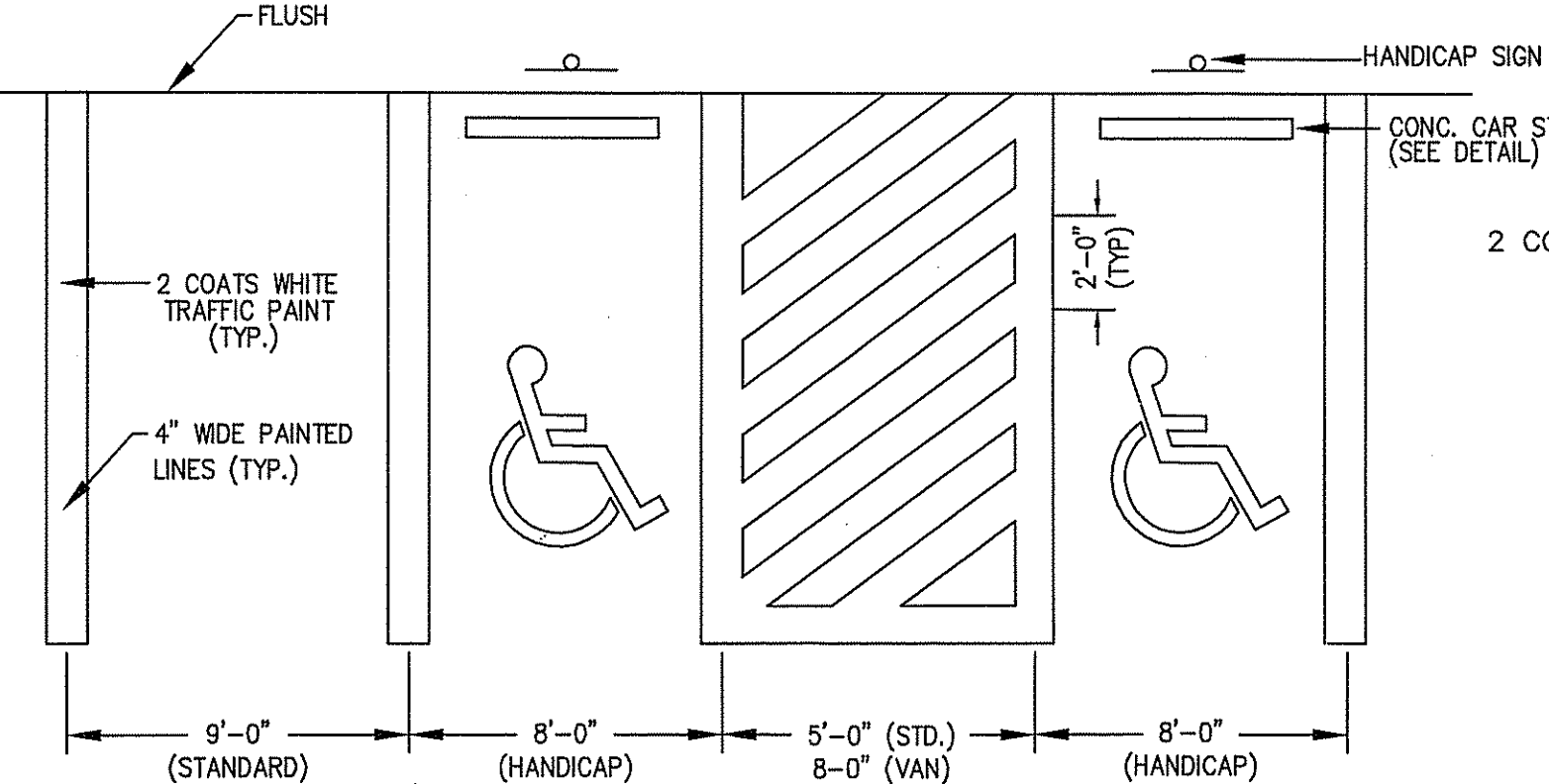
1 SIGNAGE DETAIL
C709 N.T.S.



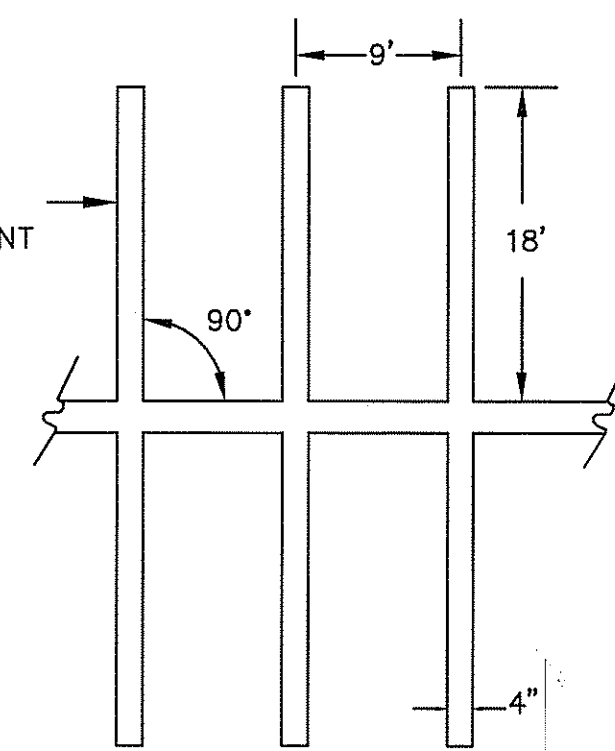
2 HANDICAP SYMBOL
C709 N.T.S.



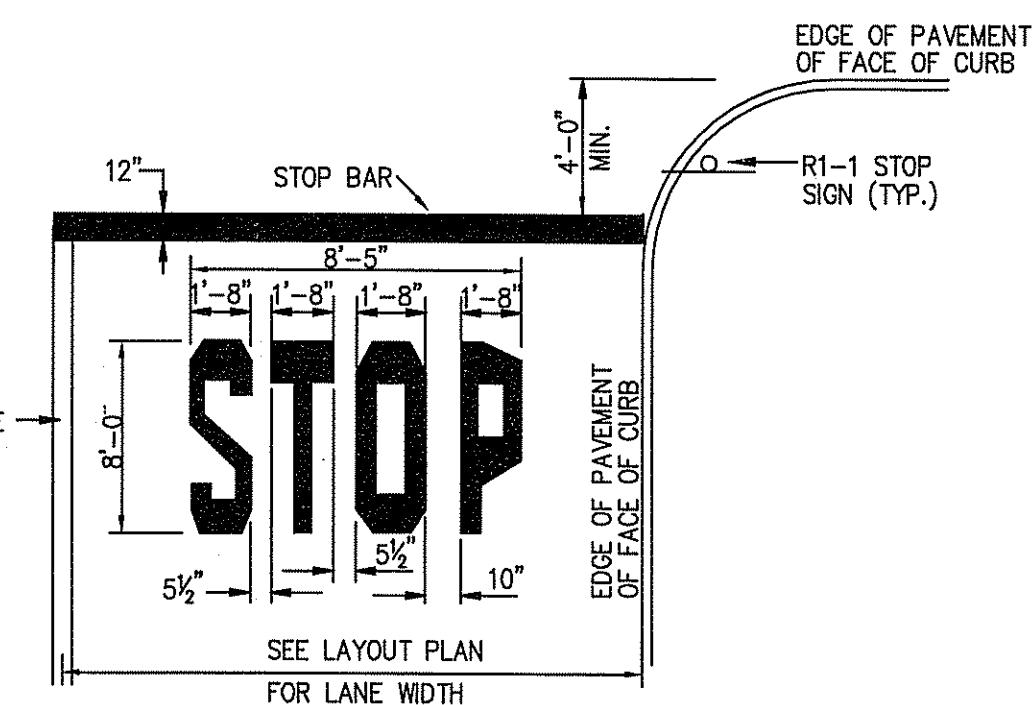
3 SITE LIGHT POLE BASE LAYOUT
C709 N.T.S.



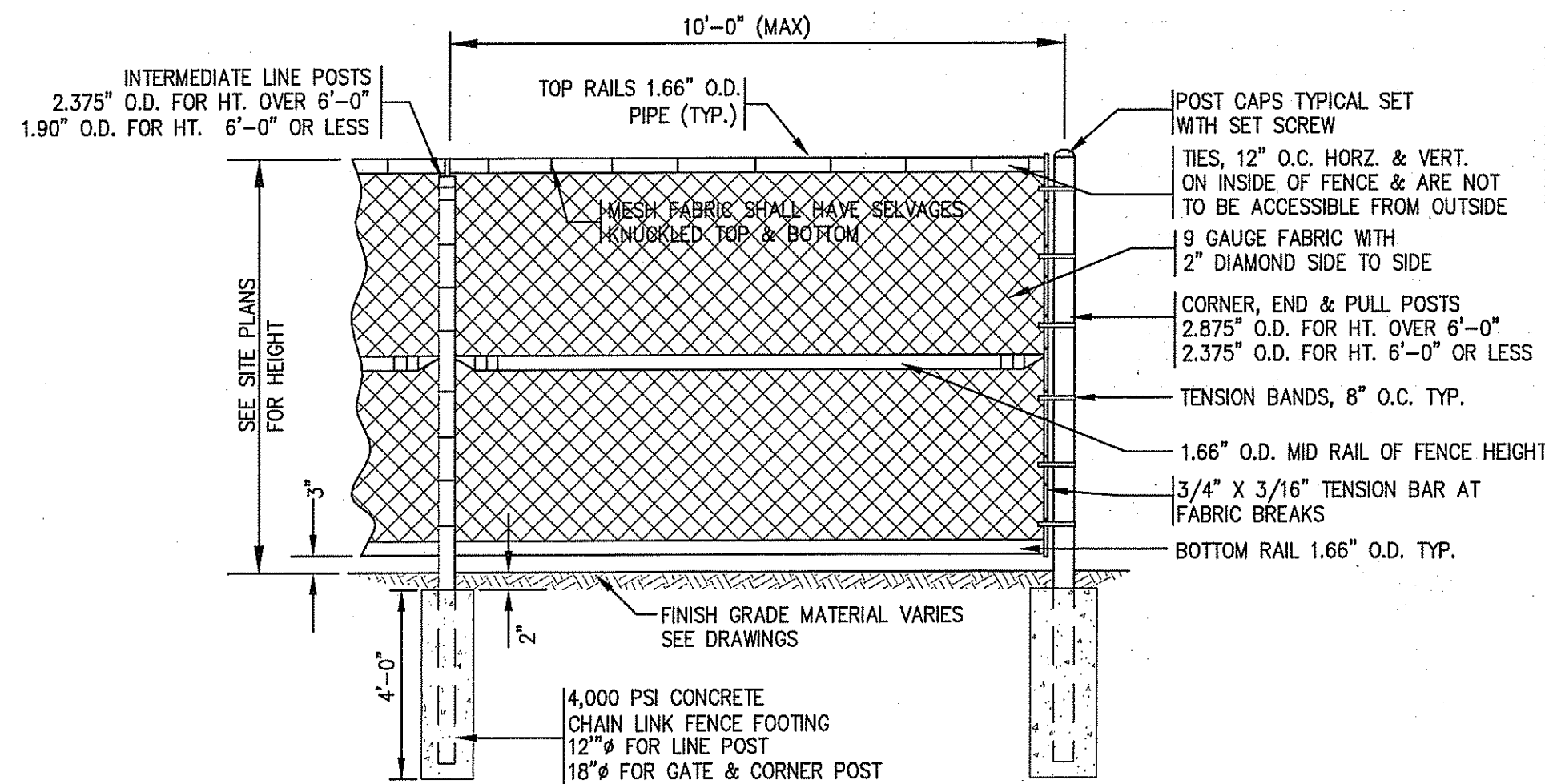
4 ACCESSIBLE PAVEMENT STRIPING DETAIL
C709 N.T.S.



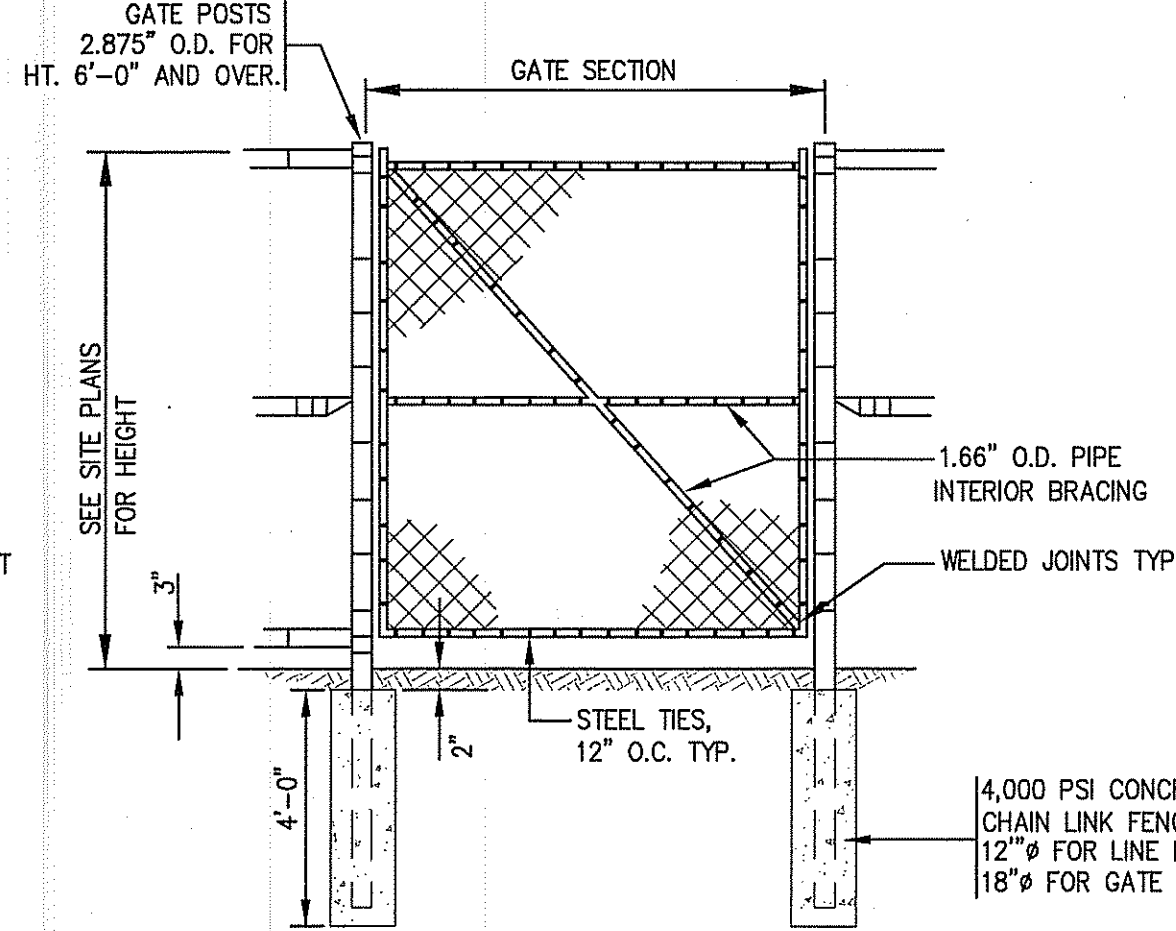
5 PAVEMENT STRIPING DETAIL
C709 N.T.S.



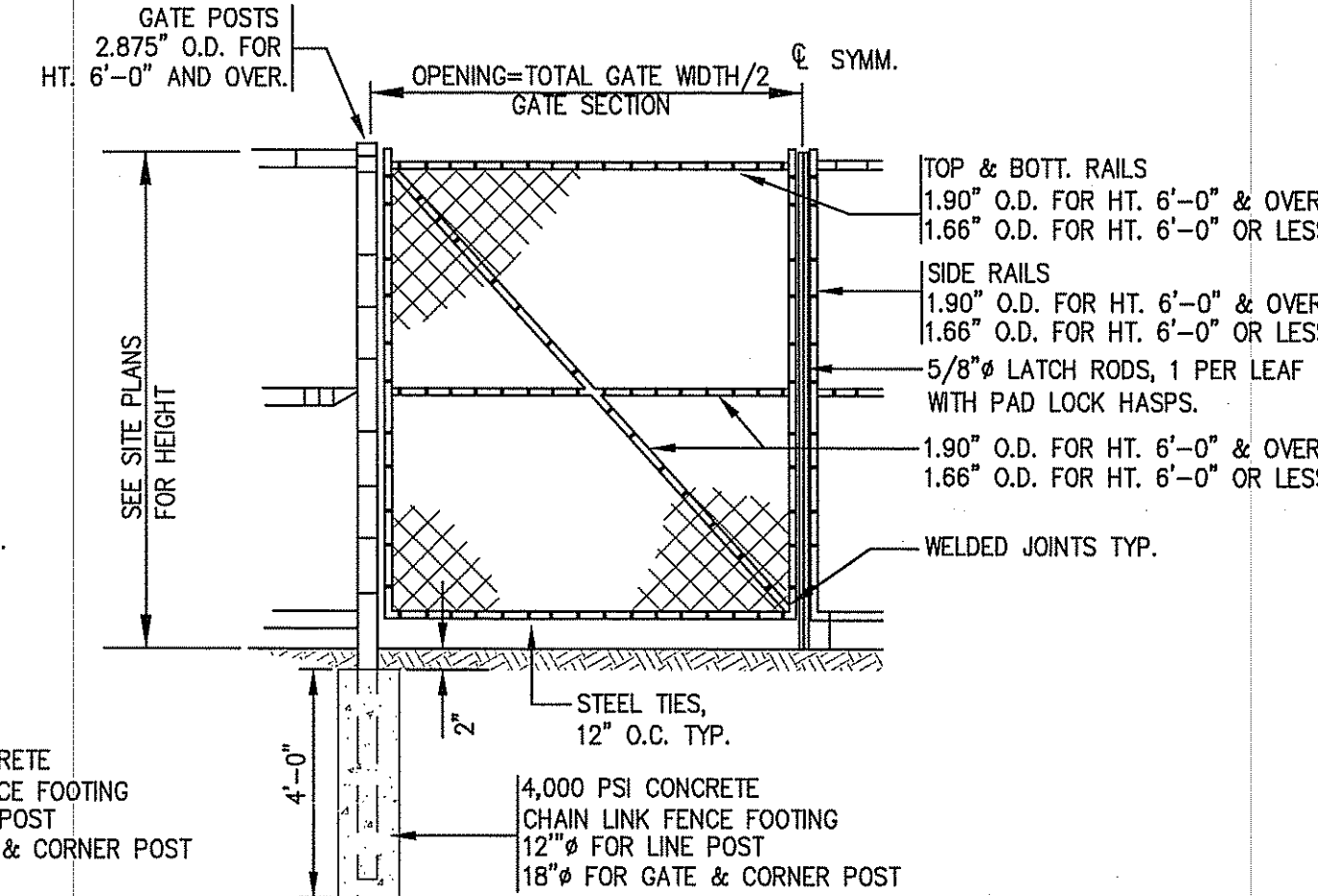
6 STOP BAR DETAIL
C709 N.T.S.



7 CHAIN LINK FENCE & GATE DETAIL
C709 N.T.S.



MANWAY GATE DETAIL
N.T.S.



DUAL GATE DETAIL
N.T.S.

GATE LEAF SHALL HAVE VERTICAL INTERIOR BRACING AT MAXIMUM INTERVALS OF 8 FT. AND SHALL HAVE A HORIZONTAL INTERIOR MEMBER IF HEIGHT IS 8 FT. OR MORE.

SITE DETAILS - PLAN 9
FOR
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SITUATED ON
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1	R.I. DEM COMMENTS	PJD	11/28/08
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JOB NO. 5570-07
DWG. NO. 5570-DETAILS/NOTES
SCALE: AS SHOWN
APPROVED: SBG
DATE: MAR 21, 2008
SHEET: 18 OF 21
FILE # 08-0079

C709