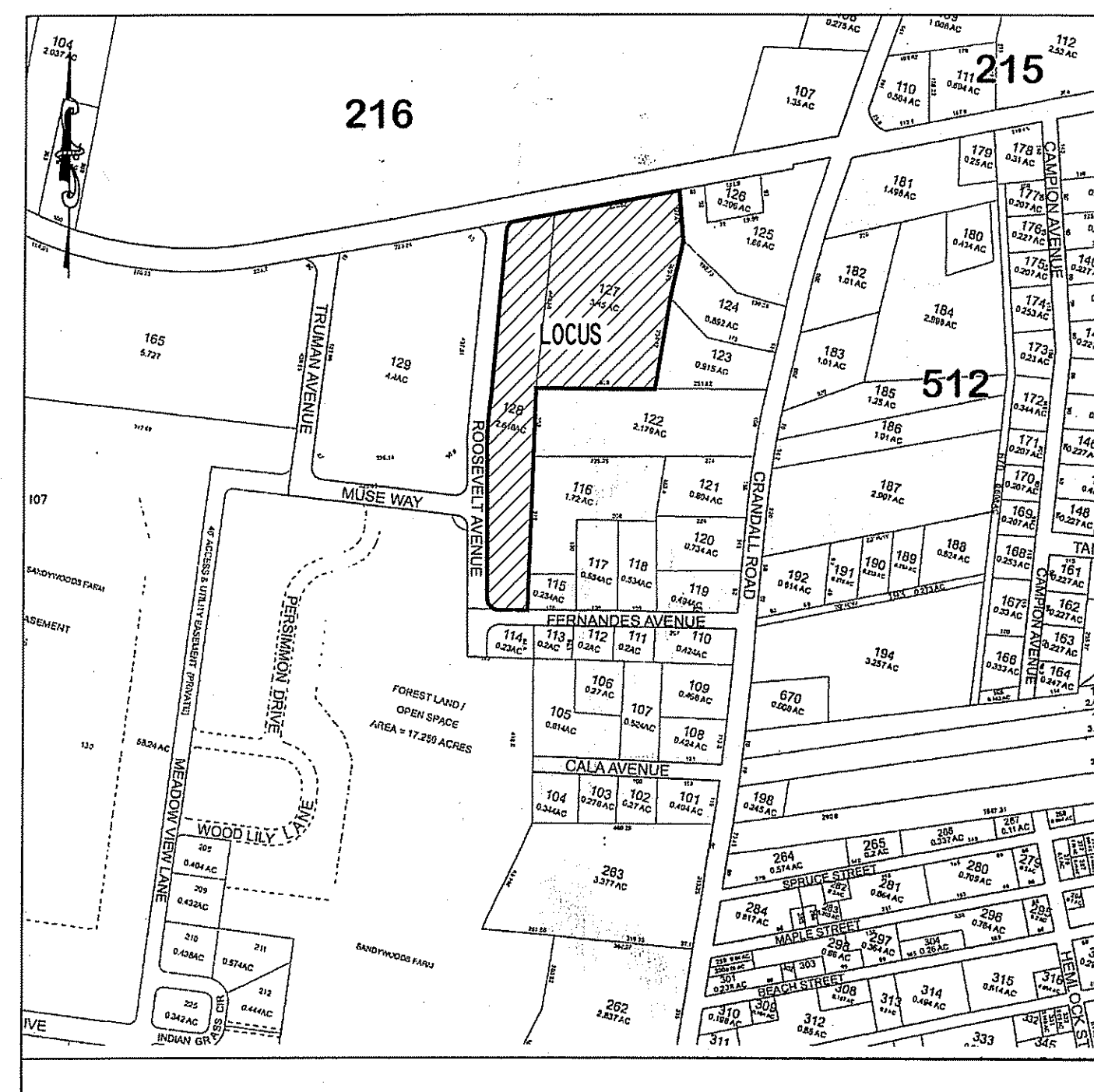


SITE/DESIGN PLAN REVIEW

NEW TIVERTON PUBLIC LIBRARY

PLAT 513 LOTS 127 & 128
 BULGARMARSH ROAD & ROOSEVELT AVENUE
 TIVERTON, RHODE ISLAND

JUL 5 2013



ASSESSORS PLAT 513
 NOT TO SCALE

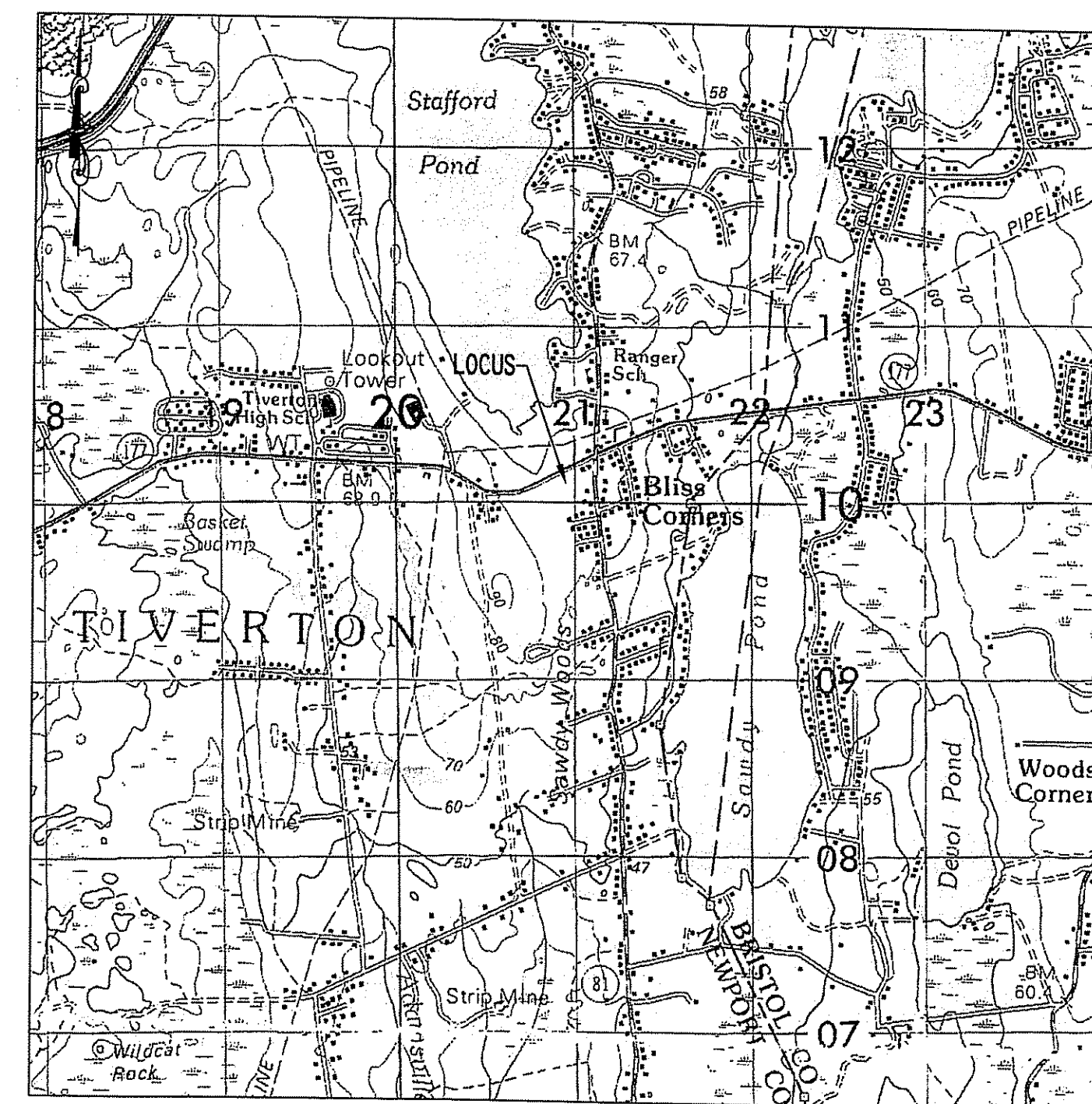
LIST OF ABUTTERS*

PLAT	LOT	OWNER	PLAT	LOT	OWNER
513	115	CONRAD N. & EILEEN R. BERUBE 46 FERNANDES AVE TIVERTON, RI 02878	513	122 129	TOWN OF TIVERTON 343 HIGHLAND ROAD TIVERTON, RI 02878
513	116	RAYMOND, JR. & CHERYL A PHENIX 65 GRANDALL ROAD TIVERTON, RI 02878	513	130	SANDYWOODS LAND TRUST LLC c/o CHURCH COMMUNITY HOUSING 50 WASHINGTON SQUARE NEWPORT, RI 02840
513	113 114	JEFFREY & JUDITH HENRIQUE c/o MARIBAH A WALKER-HENRIQUE LE 47 FERNANDES AVE TIVERTON, RI 02878	216	106	HARKINS STAFFORD POND, LLC 1907 EAST MAIN ROAD PORTSMOUTH, RI 02870
513	123 125	CITIZENS UNION SAVINGS BANK P.O. BOX 1311 FALL RIVER, MA 02722-1311			
513	124	JOSEPH E. & SUSAN P. FARIA 484 REED ROAD DARTMOUTH, MA. 02747			

* SOURCE: TIVERTON ON-LINE ASSESSORS DATABASE (CRC PROPERTIES) LAST UPDATED 12/31/2011

SHEET INDEX

- SHEET C-1 COVER SHEET
- SHEET C-2 SURVEY PLAN WITH EXISTING CONDITIONS
- SHEET C-3 PROPOSED SITE LAYOUT PLAN
- SHEET C-4 PROPOSED DRAINAGE, UTILITY & GRADING PLAN
- SHEET C-5 SITE DETAIL SHEET
- SHEET C-6 RI STANDARD DETAILS SHEET
- SHEET C-7 DRAINAGE, SOIL & EROSION CONTROL DETAIL SHEET
- SHEET C-8 STORMWATER POLLUTION PREVENTION PLAN - ACTIVE CONSTRUCTION SITE PLAN
- SHEET L 1.0 LANDSCAPE PLAN
- SHEET L 1.1 LANDSCAPE PLANTING DETAILS
- SHEET L 1.2 HARDSCAPE DETAILS
- SHEET SE 101 ELECTRICAL LEGEND, NOTES AND DETAILS
- SHEET SE 102 ELECTRICAL SITE PLAN

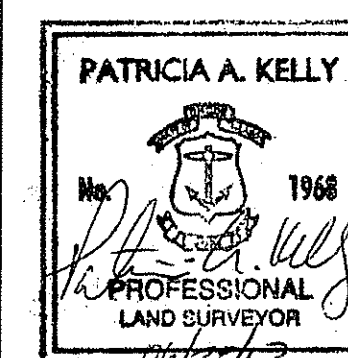
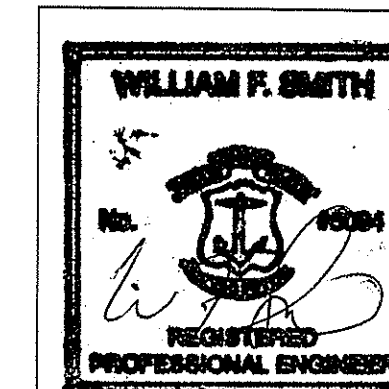


GEODETIC MAP
 1" = 4167'±

FOR PLANNING BOARD SUBMISSION ONLY.
 REFER TO COMPLETE ARCHITECTURE, STRUCTURAL,
 SITE, LANDSCAPE, ELECTRICAL, AND MECHANICAL
 PLANS FOR DETAILED BUILDING PERMIT/CONSTRUCTION INFORMATION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 19 2013 FILE # 13-0081
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OWNER/APPLICANT: TIVERTON LIBRARY REALTY, INC.
 238 HIGHLAND ROAD
 TIVERTON, RI 02878



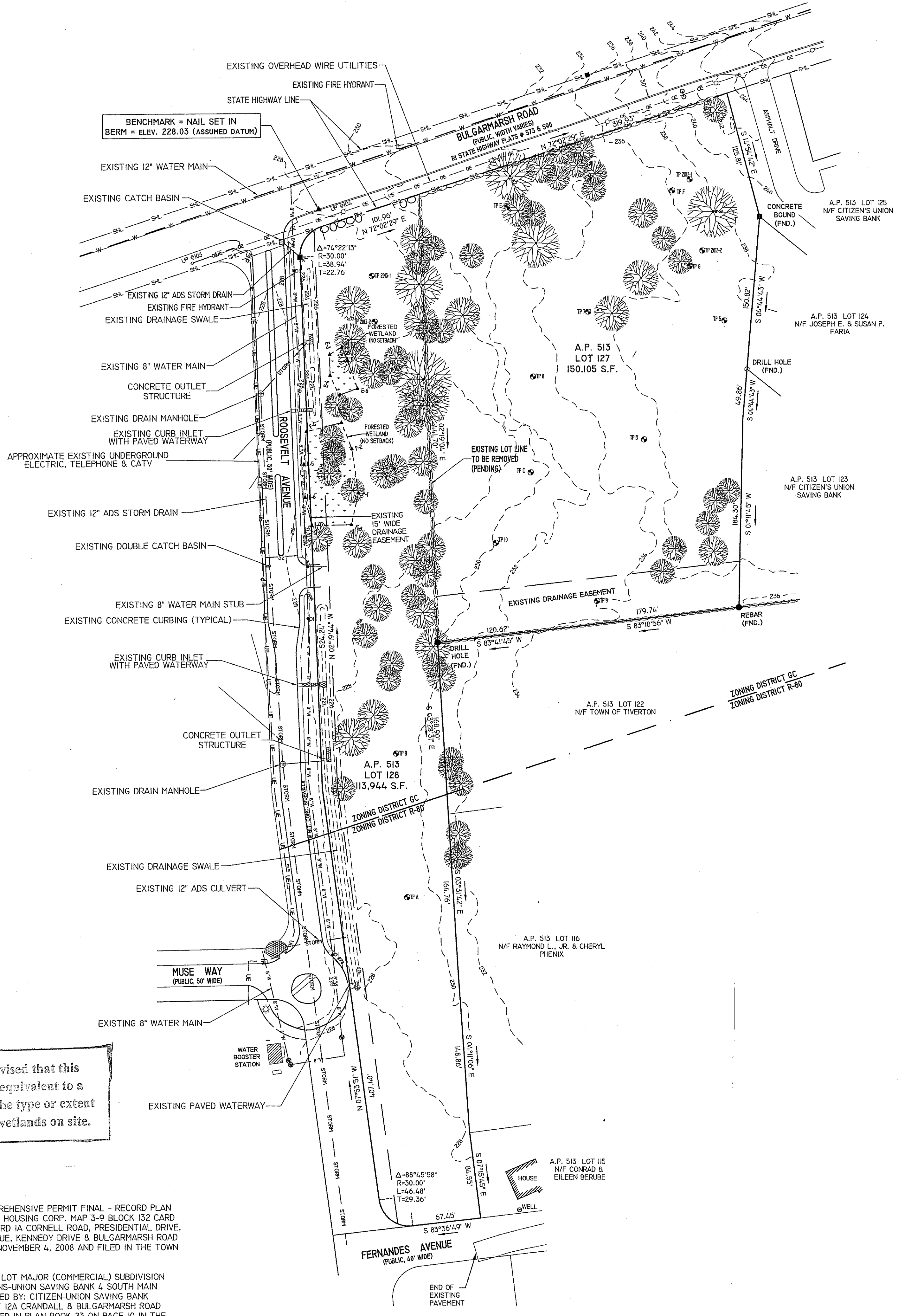
- #8: 6/27/13: PER REVIEW COMMENTS & 100% CD SUBMISSION
- #7: 5/01/13: ADD SHEET TO SET
- #6: 4/01/13: REVISE ABUTTERS, ADD LANDSCAPE SHEETS
- #5: 3/19/13: REVISE SHEET TITLE, ADD SHEET
- #4: 3/12/13: 95% CD SUBMISSION
- #3: 3/07/13: NO REVISIONS THIS SHEET
- #2: 2/25/13: NO REVISIONS THIS SHEET
- #1: 2/15/13: NO REVISIONS THIS SHEET

COVER SHEET
 PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
 ASSESSOR'S PLAT 513 LOTS 127 & 128
 BULGARMARSH ROAD & ROOSEVELT AVENUE
 TIVERTON, RHODE ISLAND

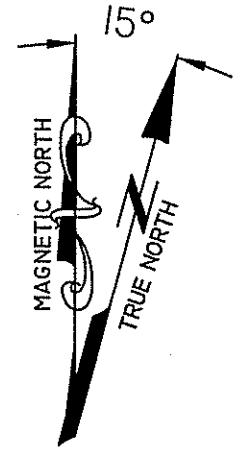
SCALE: AS NOTED DATE: FEBRUARY 13, 2013

Civil Engineering Concepts, Inc.
 36A MAIN STREET P.O. BOX 5323
 LITTLE COMPTON, RI 02837 NEW BEDFORD, MA 02742
 PH: (401) 592-0177 (508) 990-4900
 FAX: (401) 592-0178 EMAIL: wsmith@ceci.com

SHEET C-1 JOB#: 09-061



BENCHMARK = NAIL SET IN BERM = ELEV. 228.03 (ASSUMED DATUM)



JUL 5 2013

LEGEND

- 200 --- EXISTING CONTOUR
- --- STONE WALL
- ○ ○ ○ ○ UTILITY POLE
- ○ ○ ○ ○ FIRE HYDRANT
- --- DELINEATED WETLAND EDGE
- W --- EXISTING 12" WATER MAIN
- 8" W --- EXISTING 8" WATER MAIN
- --- EXISTING WATER CORPORATION STOP/VALVE
- STORM --- EXISTING 12" Dia. ADS STORM DRAIN
- --- EXISTING CATCH BASIN
- ○ ○ ○ ○ EXISTING DRAIN MANHOLE
- --- EXISTING OVERHEAD WIRES
- --- EXISTING UNDERGROUND ELECTRIC TELEPHONE & CATV
- ○ ○ ○ ○ EXISTING STREETLIGHT
- ○ ○ ○ ○ SOIL EVALUATION TEST PIT
- ○ ○ ○ ○ EXISTING TREE > 12" TRUNK (SYMBOL SIZE VARIES)
- ○ ○ ○ ○ BOULDERS
- --- EXISTING RIPRAP
- SHL --- STATE HIGHWAY LINE

NOTES

- 1) ZONE = GENERAL COMMERCIAL (LOT 127 & PORTION OF LOT 128) (PUBLIC, SEMI-PUBLIC & RECREATION USES)
 - MINIMUM LOT AREA = 12,000 SF
 - MINIMUM LOT WIDTH = 100 FT
 - MINIMUM FRONT YARD = 50 FT
 - MINIMUM SIDE YARD = 20 FT
 - MINIMUM REAR YARD = 20 FT
 - MAXIMUM BUILDING COVERAGE = 25%
 - MAXIMUM BUILDING HEIGHT = 40 FT
- ZONE = R-80 (PORTION OF LOT 128)
 - MINIMUM LOT AREA = 80,000 SF
 - MINIMUM LOT WIDTH = 200 FT
 - MINIMUM FRONT YARD = 50 FT
 - MINIMUM SIDE YARD = 35 FT
 - MINIMUM REAR YARD = 80 FT
 - MAXIMUM BUILDING COVERAGE = 10%
 - MAXIMUM BUILDING HEIGHT = 35 FT

2) THE SUBJECT PARCEL DOES NOT LIE WITHIN A FLOOD HAZARD AREA, AS DETERMINED BY FEMA FIRM COMMUNITY PANEL NUMBER 44005C107H, EFFECTIVE DATE 04/05/10.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 19 2013 FILE # 13-0081
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

REFERENCE

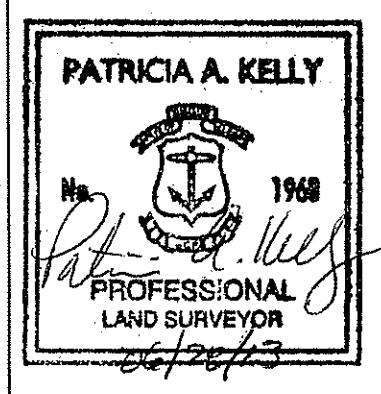
RECORDED PLANS ENTITLED: "COMPREHENSIVE PERMIT FINAL - RECORD PLAN PREPARED FOR CHURCH COMMUNITY HOUSING CORP. MAP 3-9 BLOCK 132 CARD 20 & MAPS 4-8 & 4-9 BLOCK 193 CARD 1A CORNELL ROAD, PRESIDENTIAL DRIVE, TRUMAN AVENUE, ROOSEVELT AVENUE, KENNEDY DRIVE & BULGARMARSH ROAD TIVERTON, RHODE ISLAND", DATED NOVEMBER 4, 2008 AND FILED IN THE TOWN OF TIVERTON.

RECORDED PLAN ENTITLED: "THREE LOT MAJOR (COMMERCIAL) SUBDIVISION FINAL PLAN PREPARED FOR: CITIZENS-UNION SAVING BANK 4 SOUTH MAIN STREET FALL RIVER, MA 02721 OWNED BY: CITIZEN-UNION SAVING BANK LOCATION: MAP 4-9, BLOCK 161, LOT 12A CRANDALL & BULGARMARSH ROAD TIVERTON, DATED 6/30/08 AND FILED IN PLAN BOOK 23 ON PAGE 10 IN THE TOWN OF TIVERTON.

CERTIFICATION

THIS PLAN AND SURVEY CONFORM TO THE FOLLOWING STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BOUNDARY CLASS I
 TOPOGRAPHIC CLASS III
 Patricia A. Kelly, PLS #1968



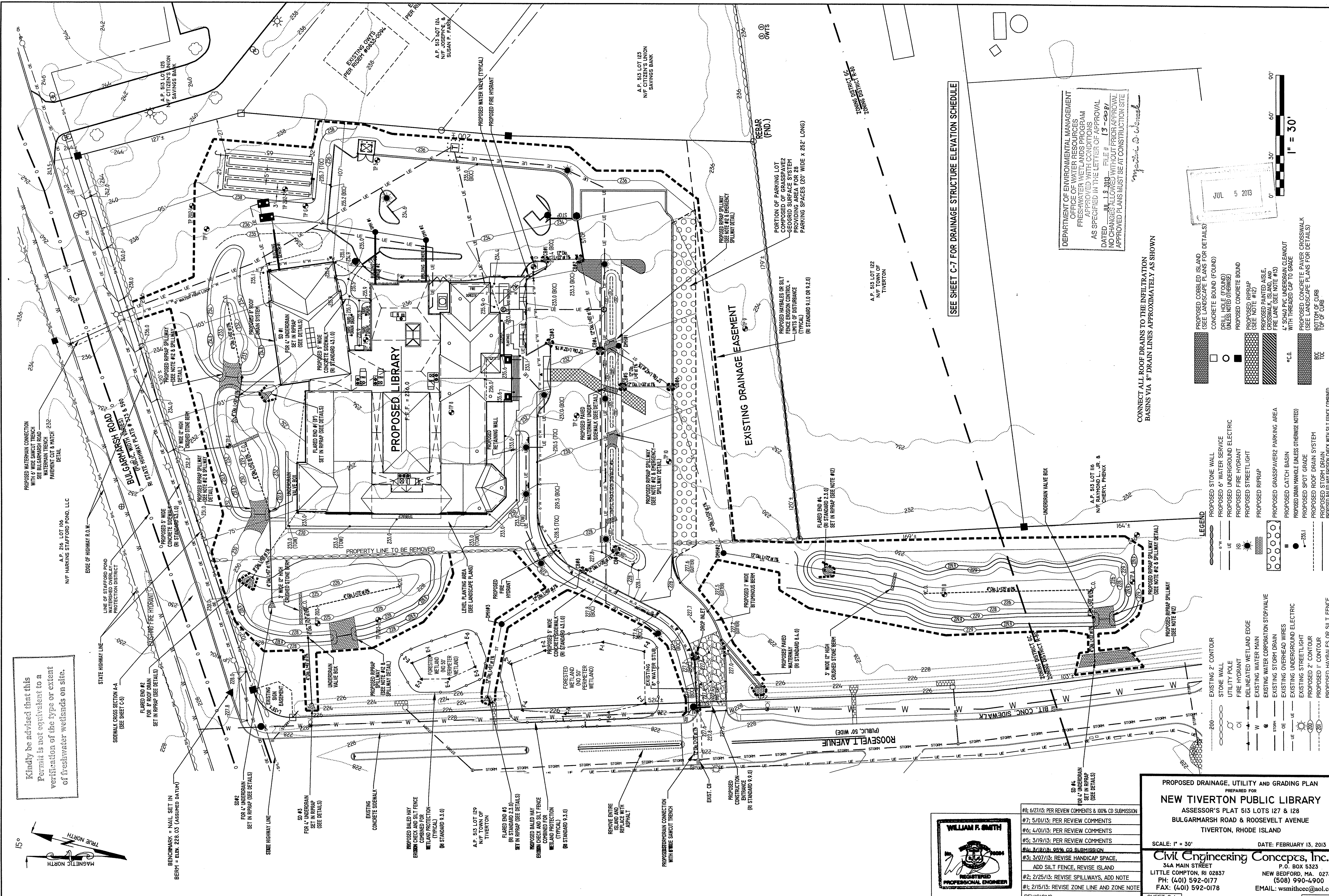
#8: 6/27/13: PER REVIEW COMMENTS & 100% CD SUBMISSION
#7: 5/01/13: PER REVIEW COMMENTS
#6: 4/01/13: ADD TREES, EXIST. UTILITY SIZES
#5: 3/19/13: PER REVIEW COMMENTS
#4: 3/12/13: 95% CD SUBMISSION
#3: 3/07/13: NO REVISIONS THIS SHEET
#2: 2/25/13: NO REVISIONS THIS SHEET
#1: 2/15/13: ADD ZONE LINE, REV. ZONE NOTE
REVISIONS:

EXISTING CONDITIONS PLAN
 PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
 ASSESSOR'S PLAT 513 LOTS 127 & 128
 BULGARMARSH ROAD & ROOSEVELT AVENUE
 TIVERTON, RHODE ISLAND

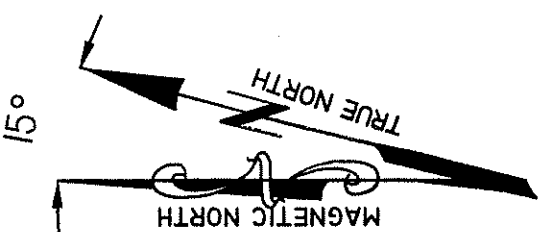
SCALE: 1" = 60' DATE: FEBRUARY 13, 2013

Civil Engineering Concepts, Inc.
 34A MAIN STREET P.O. BOX 5322
 LITTLE COMPTON, RI 02837 NEW BEDFORD, MA 02742
 PH: (401) 592-0177 PH: (508) 990-4900
 FAX: (401) 592-0178 EMAIL: wsmit@cec.com

SHEET C-2

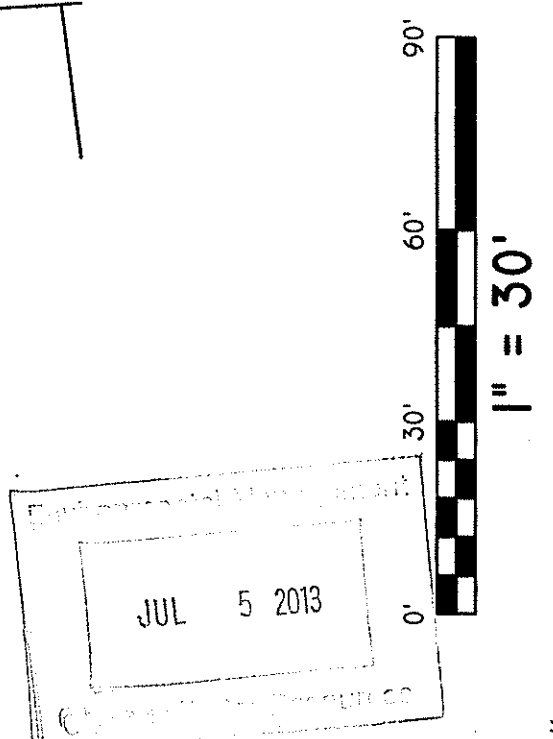


Kindly be advised that this permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



SEE SHEET C-7 FOR DRAINAGE STRUCTURE ELEVATION SCHEDULE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 9 2013 FILE # 13-0897
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



- LEGEND**
- PROPOSED STONE WALL
 - PROPOSED 6" WATER SERVICE
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED FIRE HYDRANT
 - PROPOSED STREETLIGHT
 - PROPOSED RIPRAP
 - PROPOSED GRASSPAVER2 PARKING AREA
 - PROPOSED CATCH BASIN
 - PROPOSED DRAIN MANHOLE (UNLESS OTHERWISE NOTED)
 - PROPOSED SPOT GRADE
 - PROPOSED ROOF DRAIN SYSTEM
 - PROPOSED STORM DRAIN (REG. WITH SILT FENCE COMBINED FOR WETLAND PROTECTION (R STANDARD 9.3.0))
 - PROPOSED COBBLED ISLAND (SEE LANDSCAPE PLANS FOR DETAILS)
 - CONCRETE BOUND (FOUND)
 - DRILLS HOLE (FOUND) (UNLESS NOTED OTHERWISE)
 - PROPOSED CONCRETE BOUND
 - PROPOSED RIPRAP (SEE NOTE #12)
 - PROPOSED PAINTED AISLE, CROSSWALK, ISLAND, AND FIRE LANE (SEE NOTE #15)
 - 7" SCH40 PIC UNDERDRAIN CLEANOUT WITH THROUGH CAP TO GRADE
 - PROPOSED CONCRETE PAVER CROSSWALK (SEE LANDSCAPE PLANS FOR DETAILS)
 - BOTTOM OF CURB
 - TOP OF CURB
 - STATE HIGHWAY LINE

CONNECT ALL ROOF DRAINS TO THE INFILTRATION BASINS VIA 8" DRAIN LINES APPROXIMATELY AS SHOWN

PROPOSED DRAINAGE, UTILITY AND GRADING PLAN
PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
ASSESSOR'S PLAT 513 LOTS 127 & 128
BULGARMARSH ROAD & ROOSEVELT AVENUE
TIVERTON, RHODE ISLAND

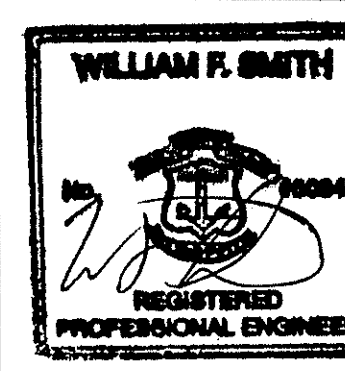
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DATE: FEBRUARY 13, 2013

Civil Engineering Concepts, Inc.
36A MAIN STREET
LITTLE COMPTON, RI 02857
PH: (401) 592-0177
FAX: (401) 592-0178
EMAIL: wsmithce@aol.com

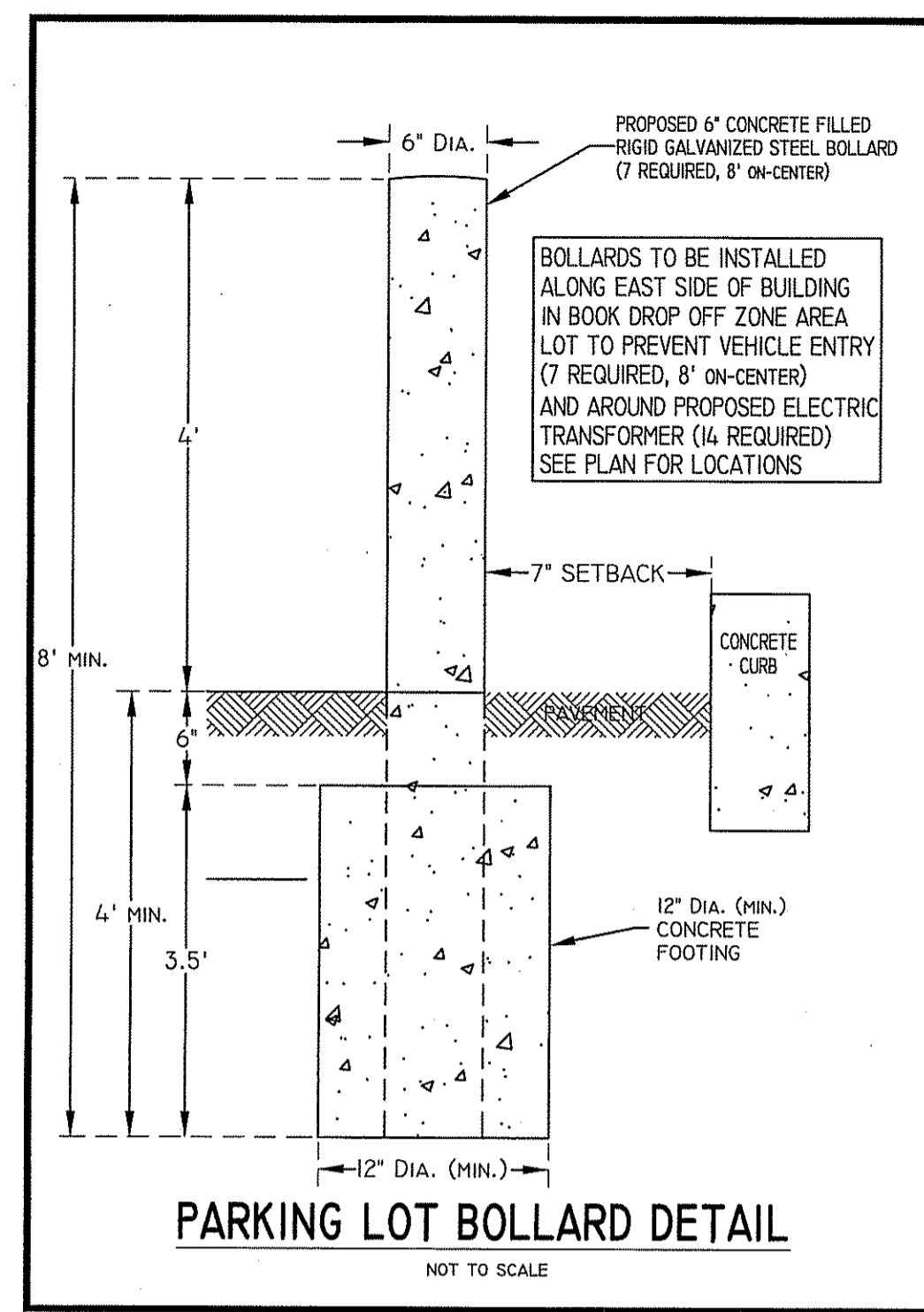
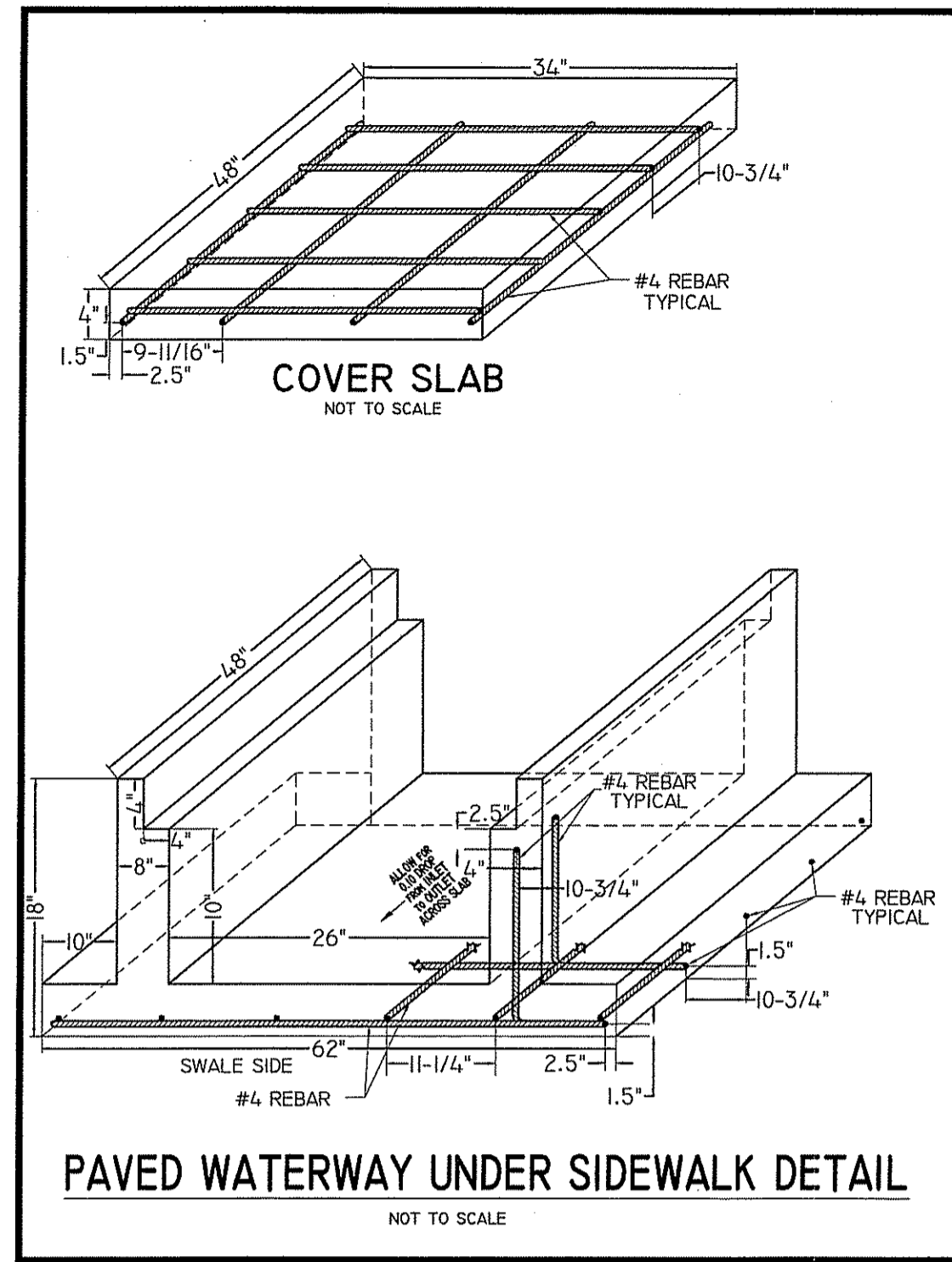
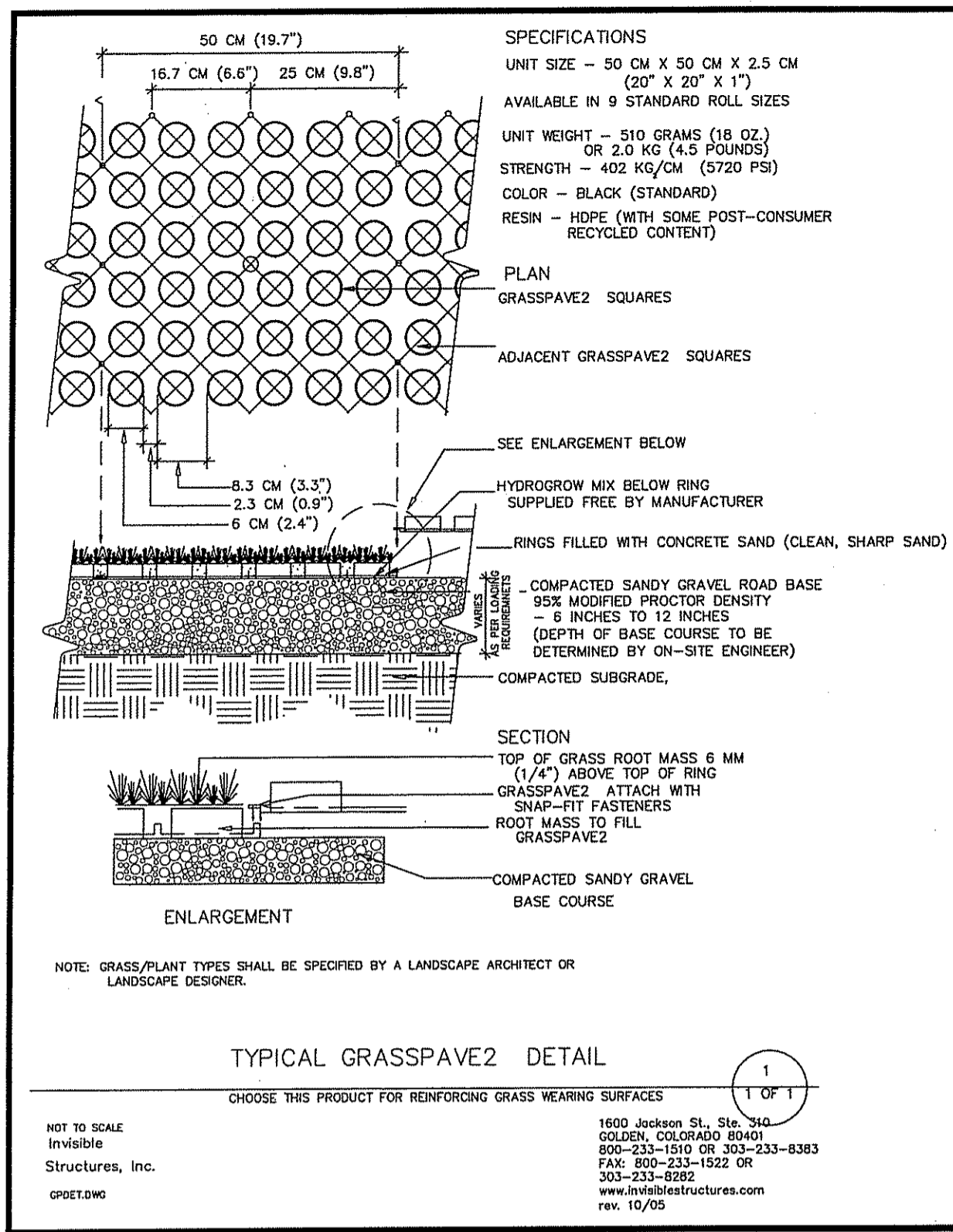
REVISIONS:

#8: 6/27/13: PER REVIEW COMMENTS & 100% CD SUBMISSION
#7: 5/01/13: PER REVIEW COMMENTS
#6: 4/01/13: PER REVIEW COMMENTS
#5: 3/19/13: PER REVIEW COMMENTS
#4: 3/17/13: 98% CD SUBMISSION
#3: 3/07/13: REVISE HANDICAP SPACE, ADD SILT FENCE, REVISE ISLAND
#2: 2/25/13: REVISE SPILLWAYS, ADD NOTE
#1: 2/15/13: REVISE ZONE LINE AND ZONE NOTE

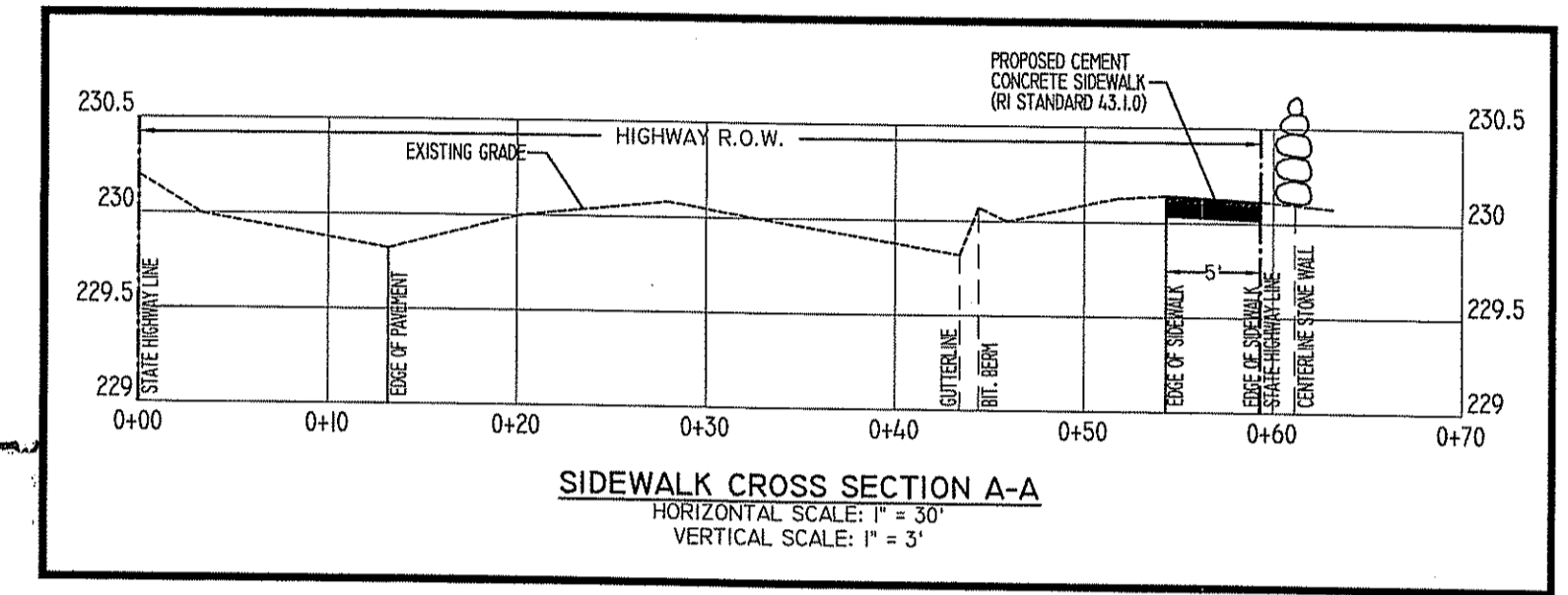
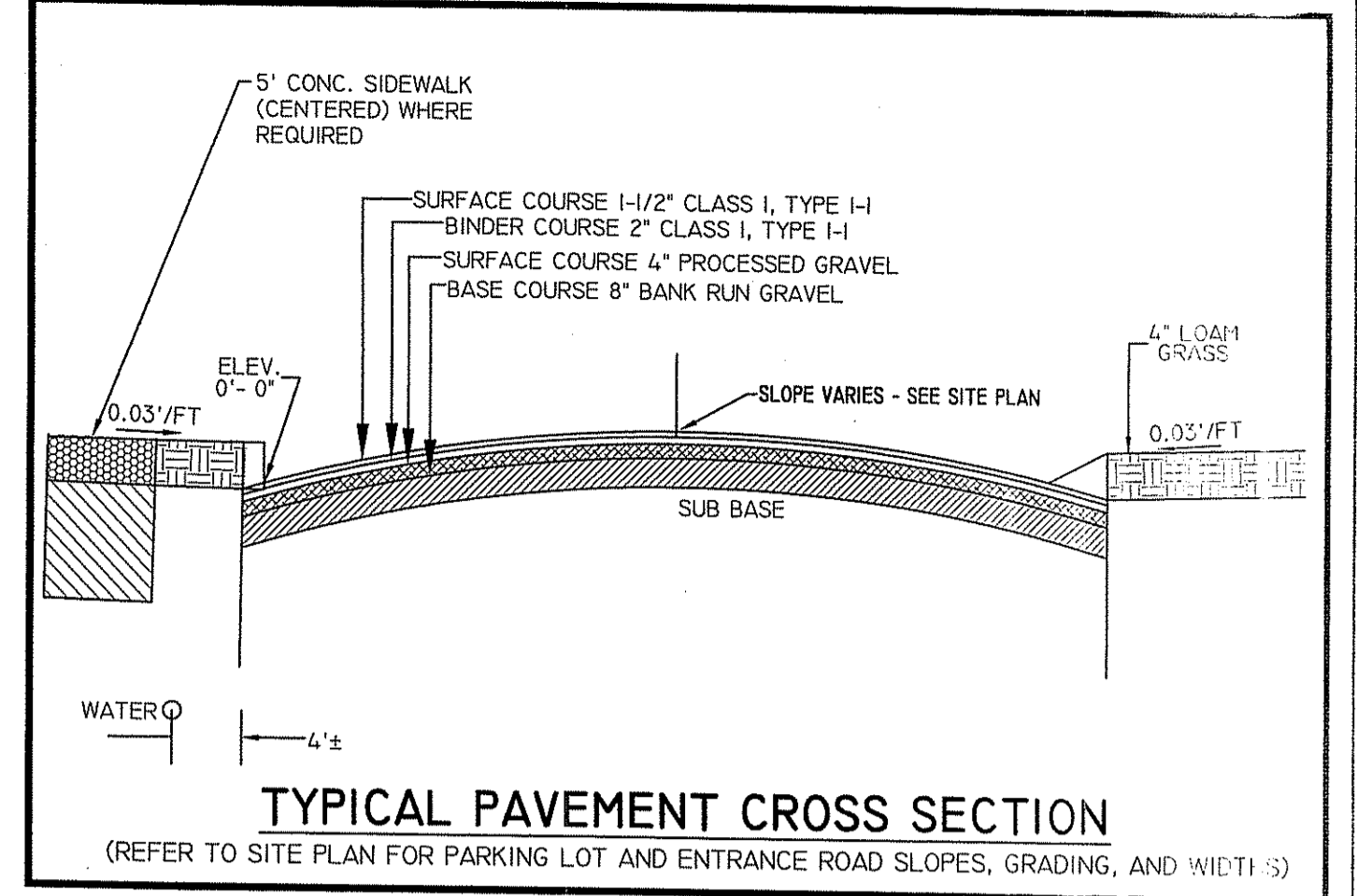
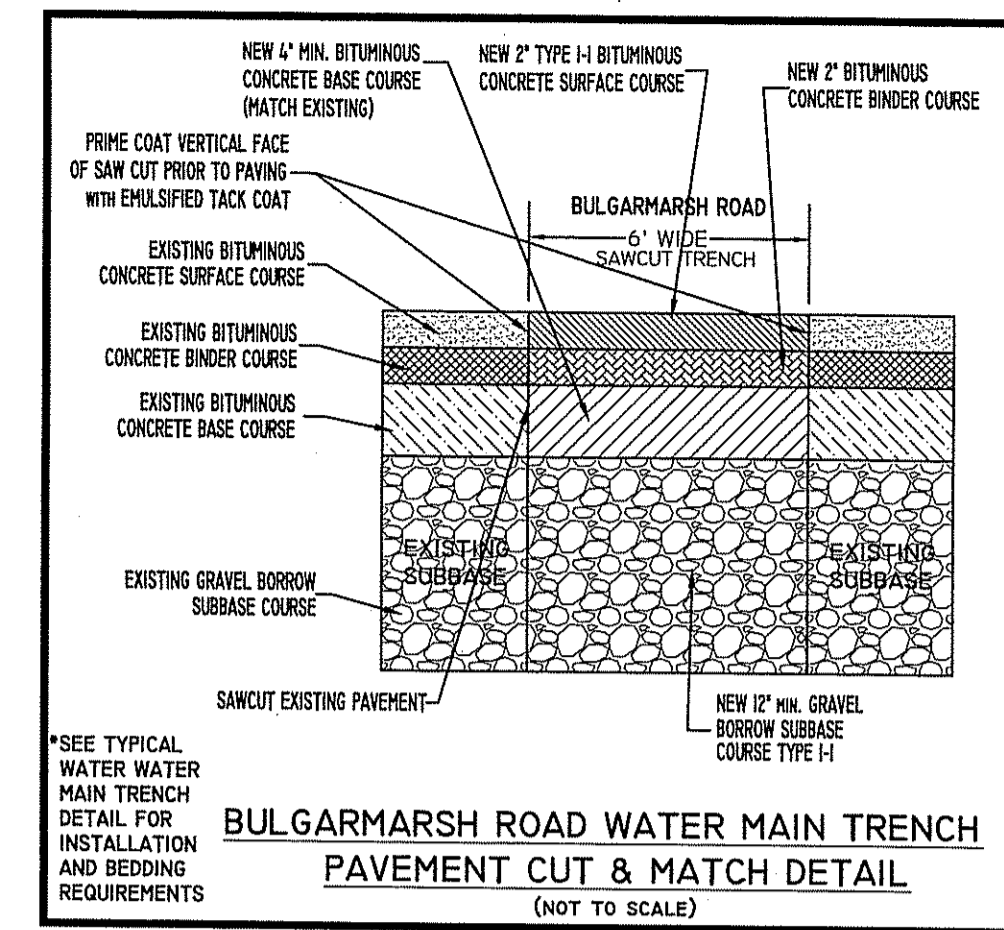
SHEET C-4



JOB#: 09-001

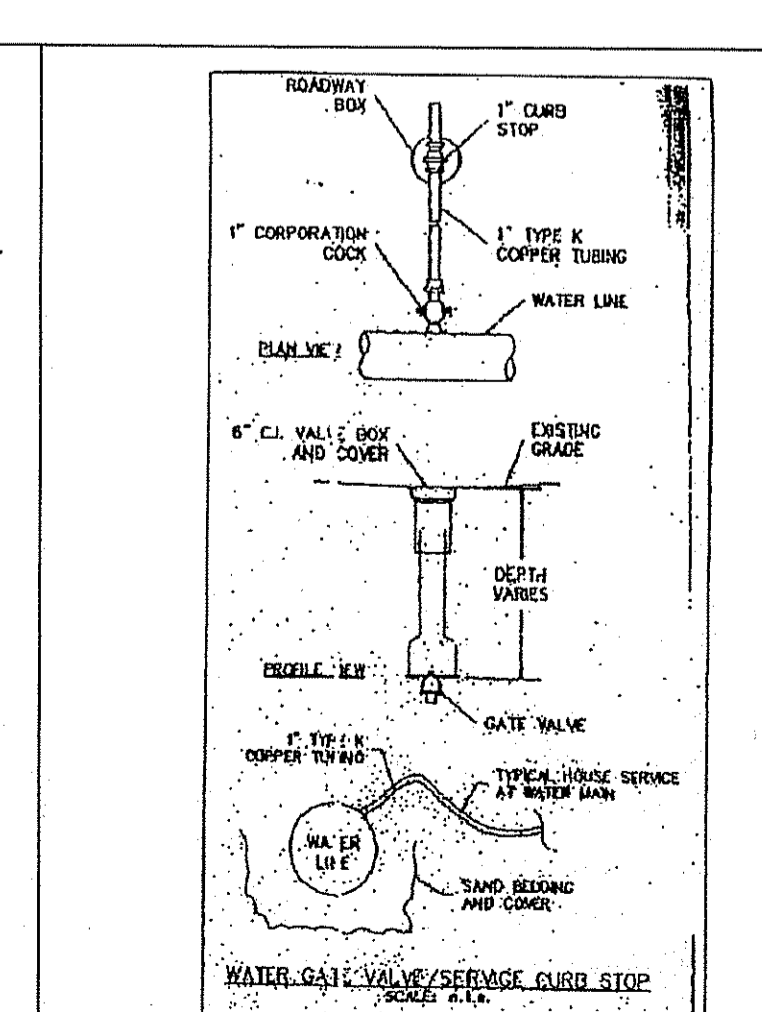
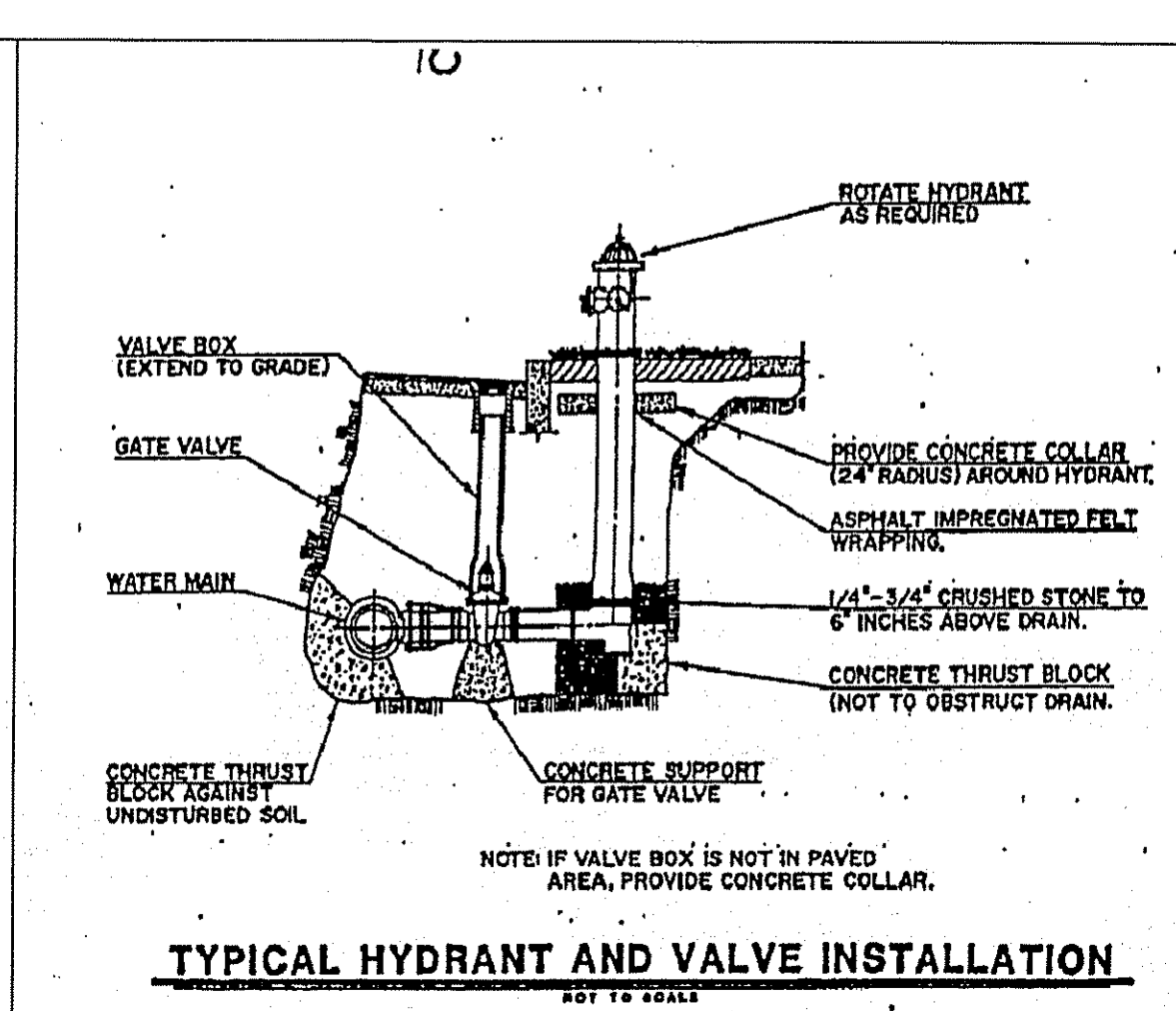
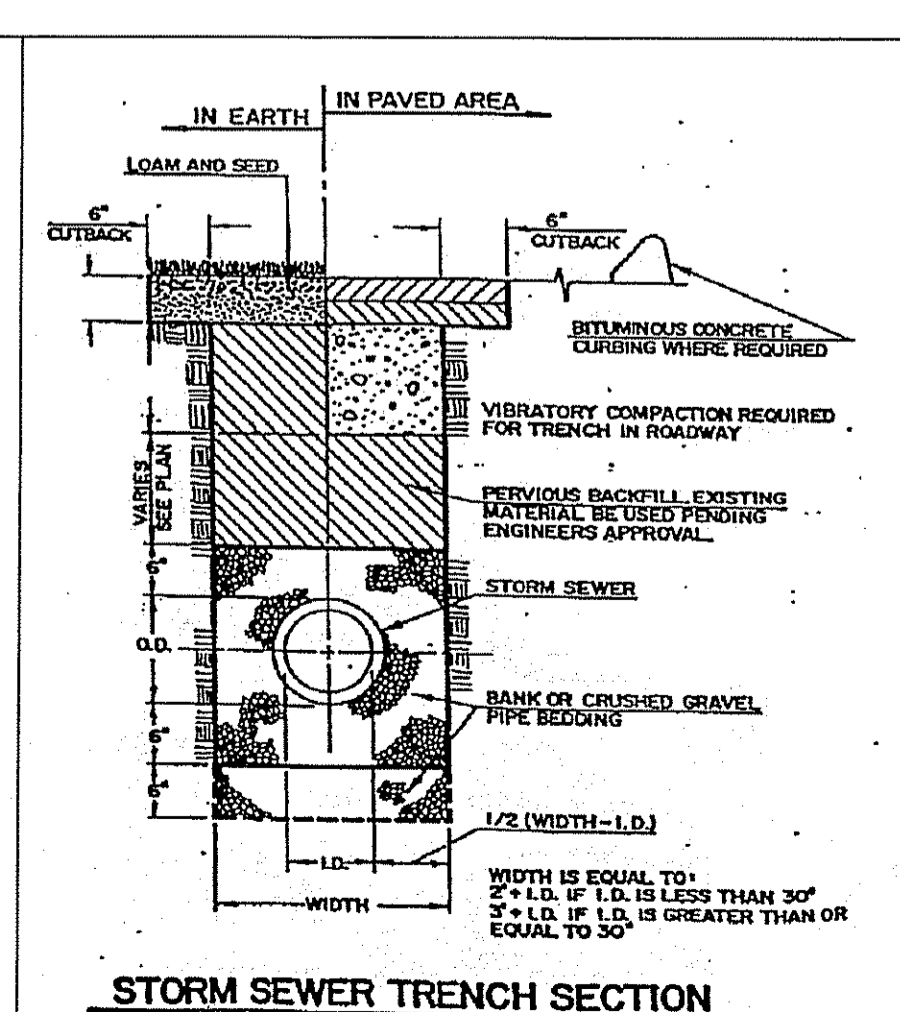
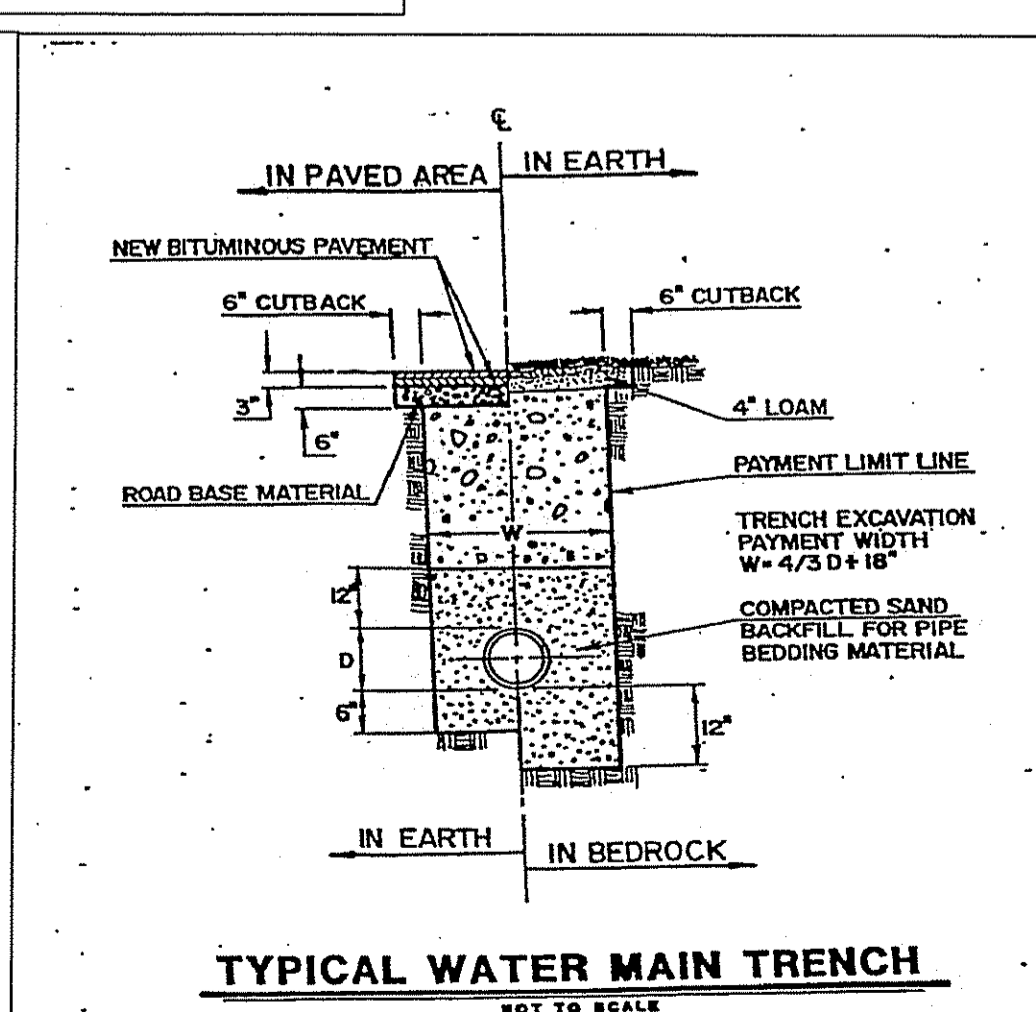
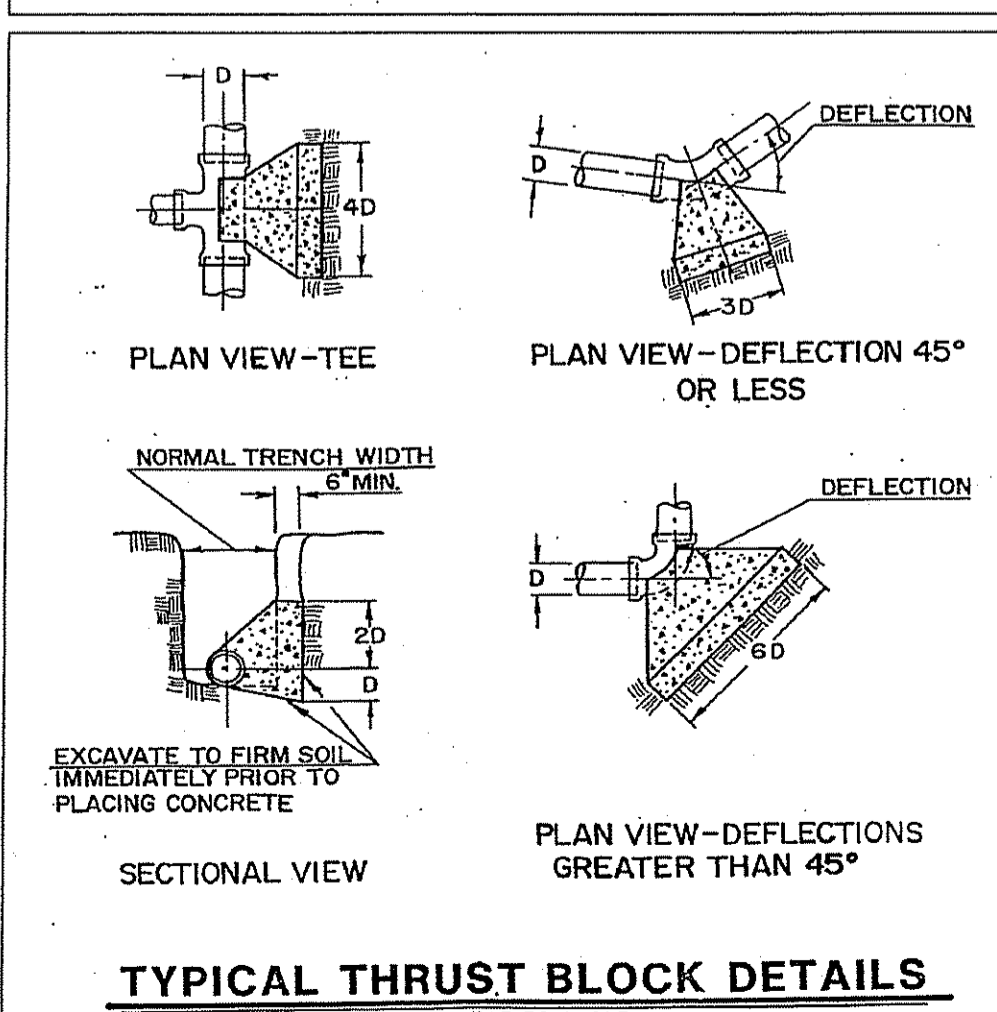
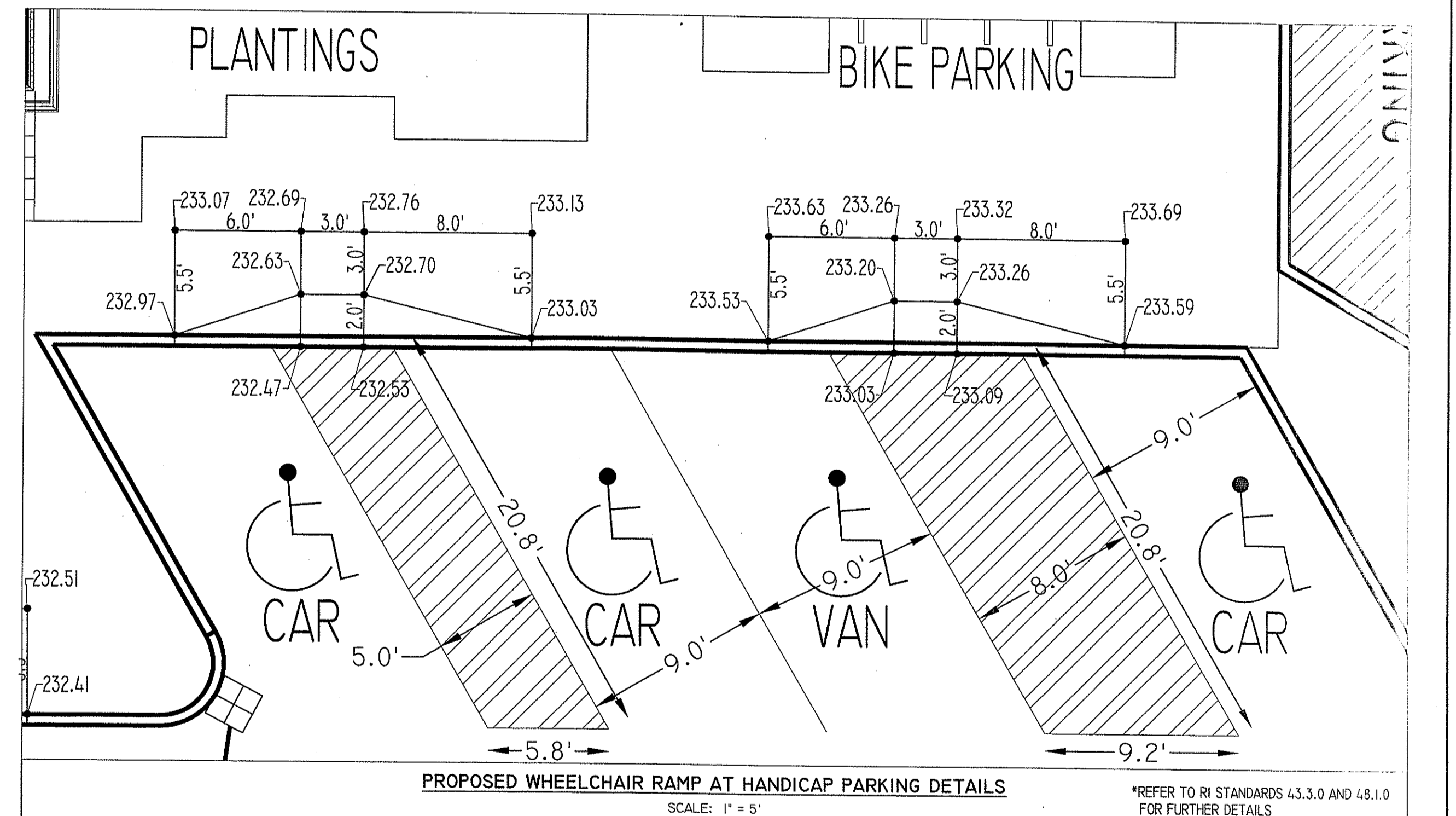
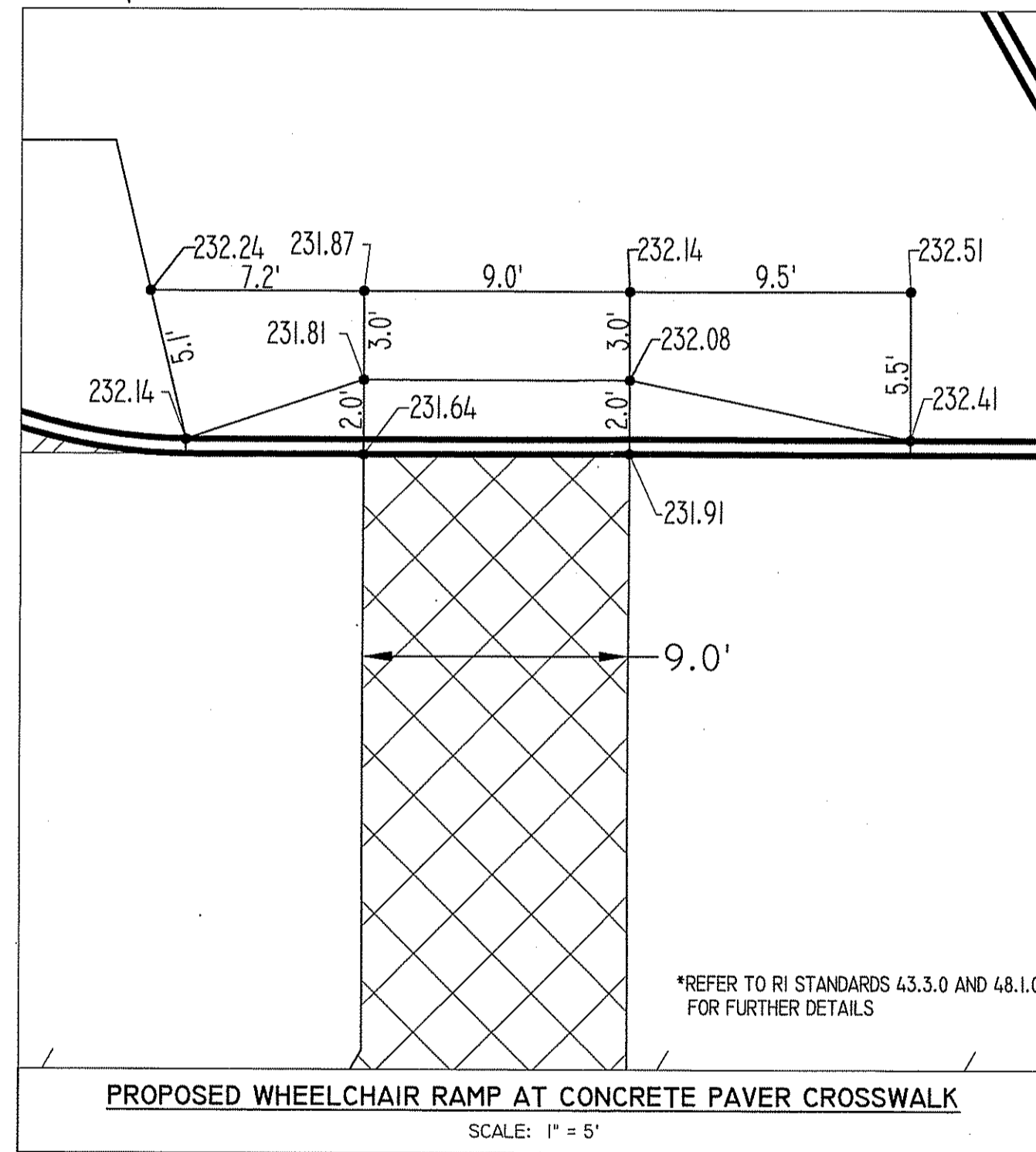
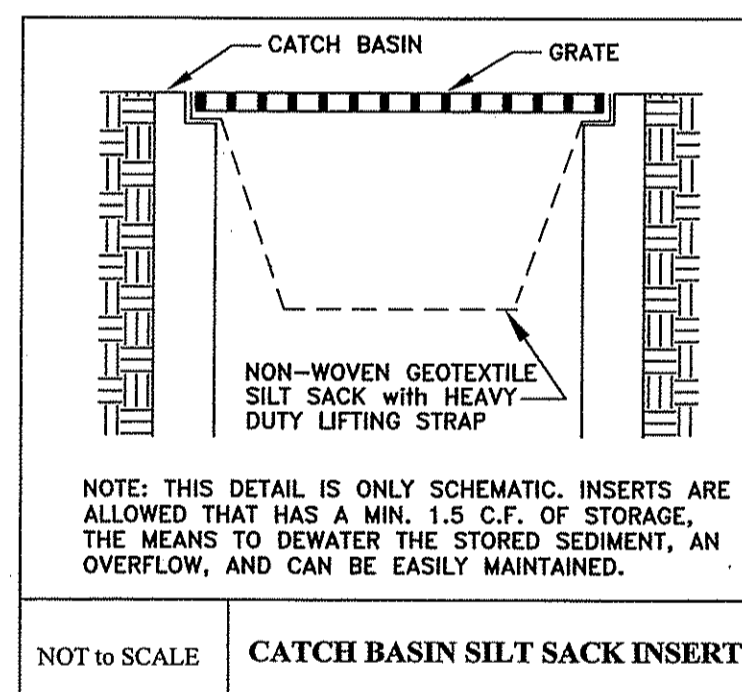
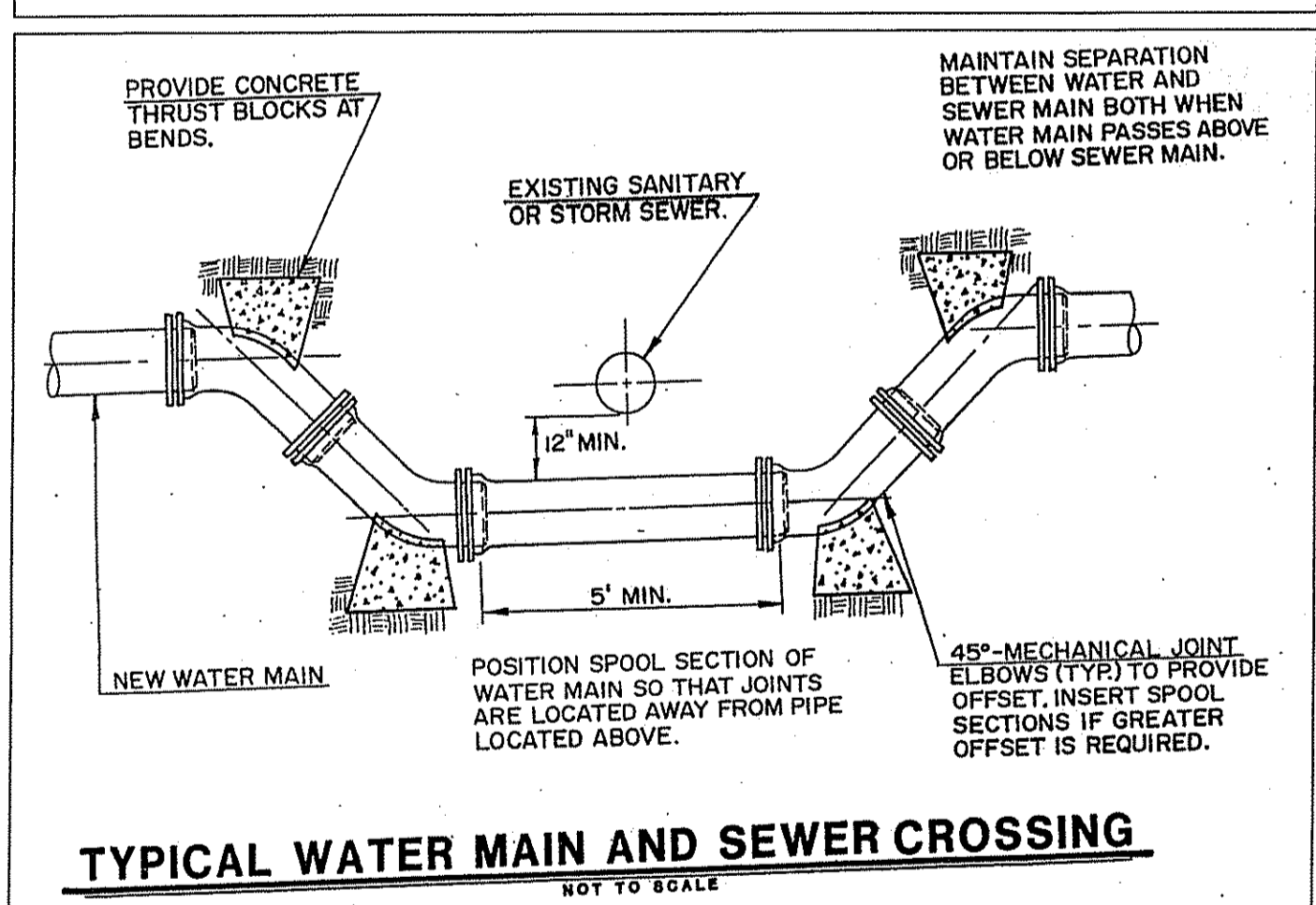


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 19 2013 FILE # 13-008
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



JUL 5 2013

ALL PROPOSED WATER MAINS TO BE 6" CLASS C, CEMENT LINED DUCTILE IRON. BUILDING SERVICE TO BE 2" DIA. AND FIRE SERVICE TO BE 4" DIA. COPPER TYPE K TUBING. ALL PROPOSED HYDRANTS TO BE KENNEDY K8IA OPEN LEFT. ALL WORK SHALL COMPLY WITH THE MATERIAL SPECIFICATIONS AND REQUIREMENTS FOR THE NORTH TIVERTON FIRE DISTRICT AS MOST RECENTLY AMENDED.



WILLIAM F. SMITH
 REGISTERED PROFESSIONAL ENGINEER
 No. 10004

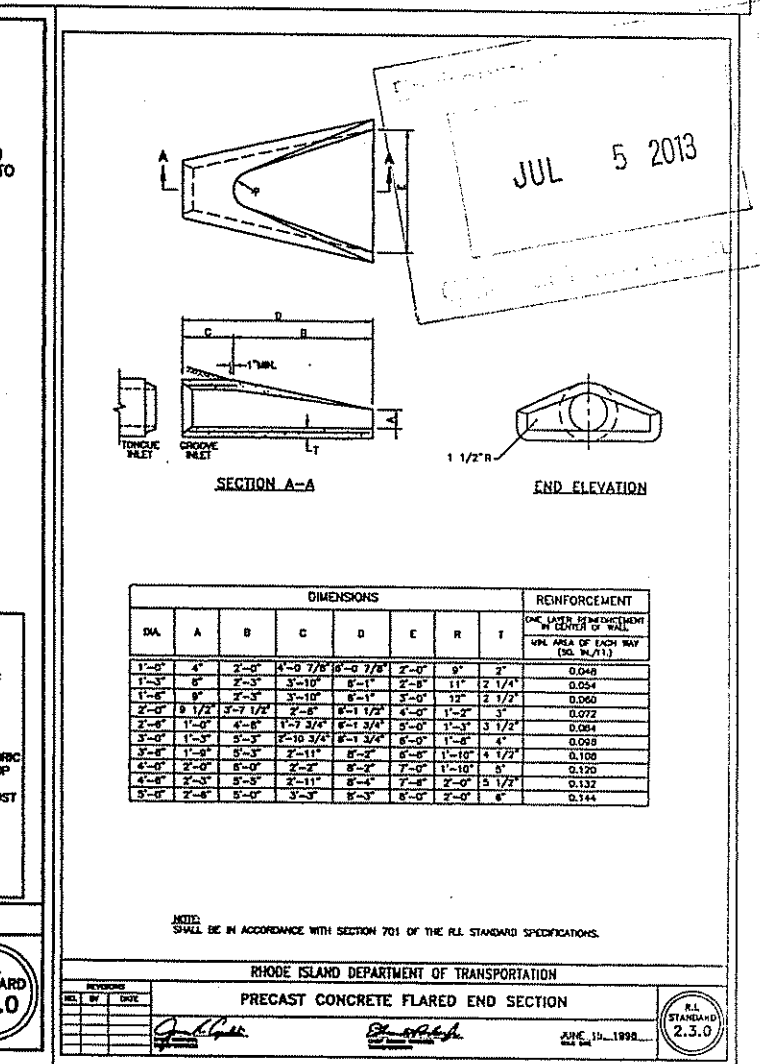
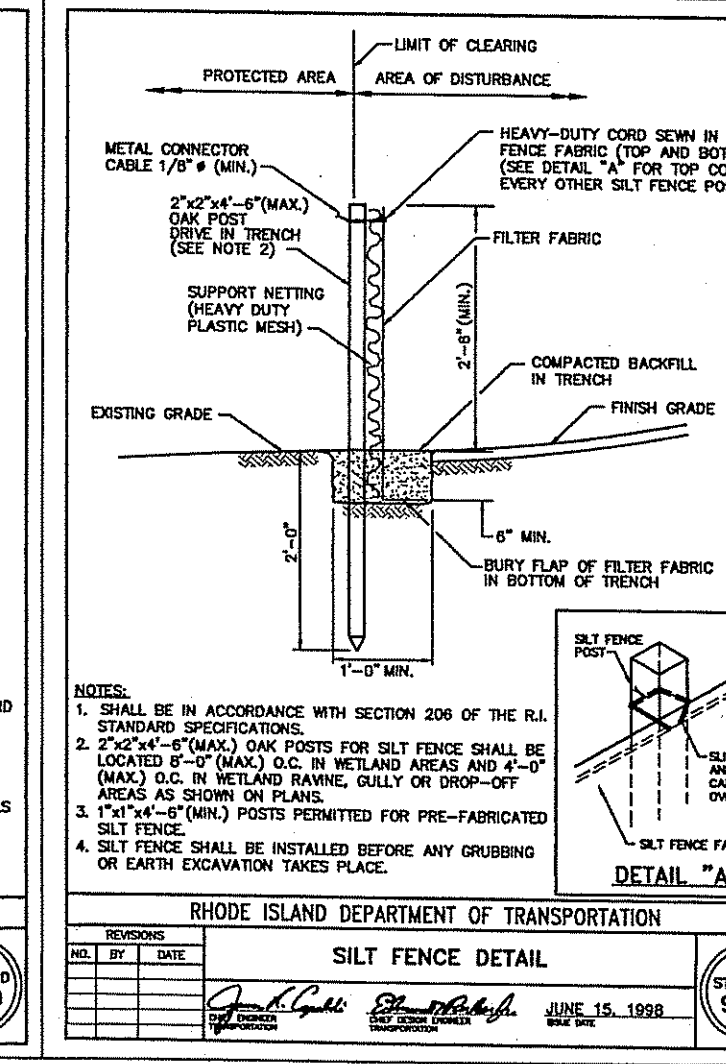
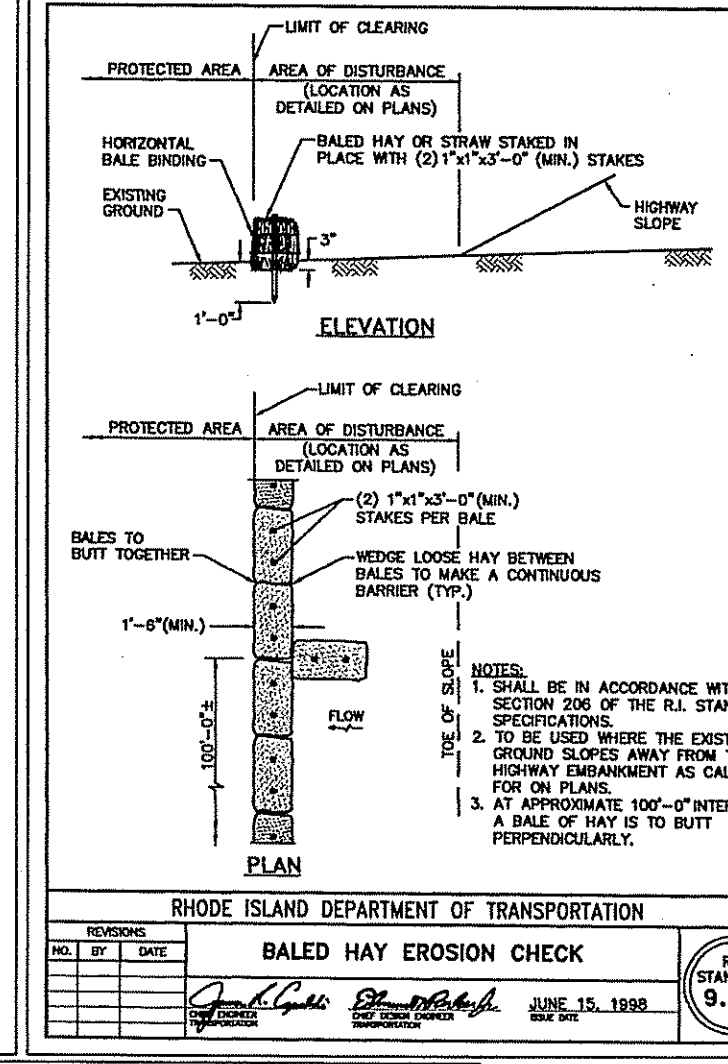
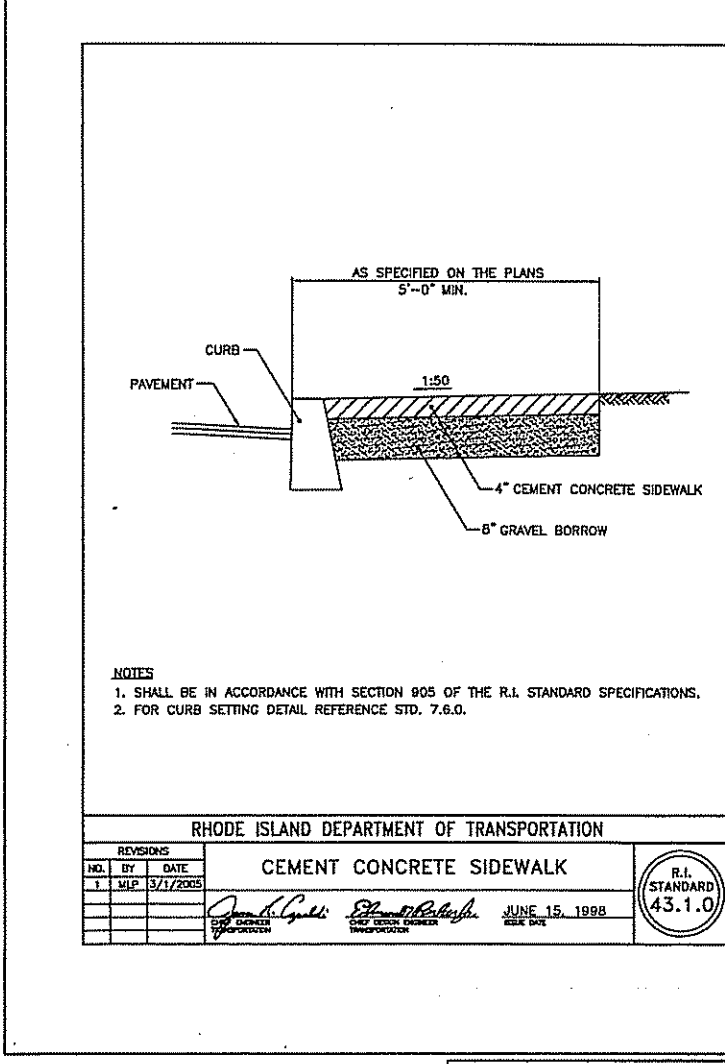
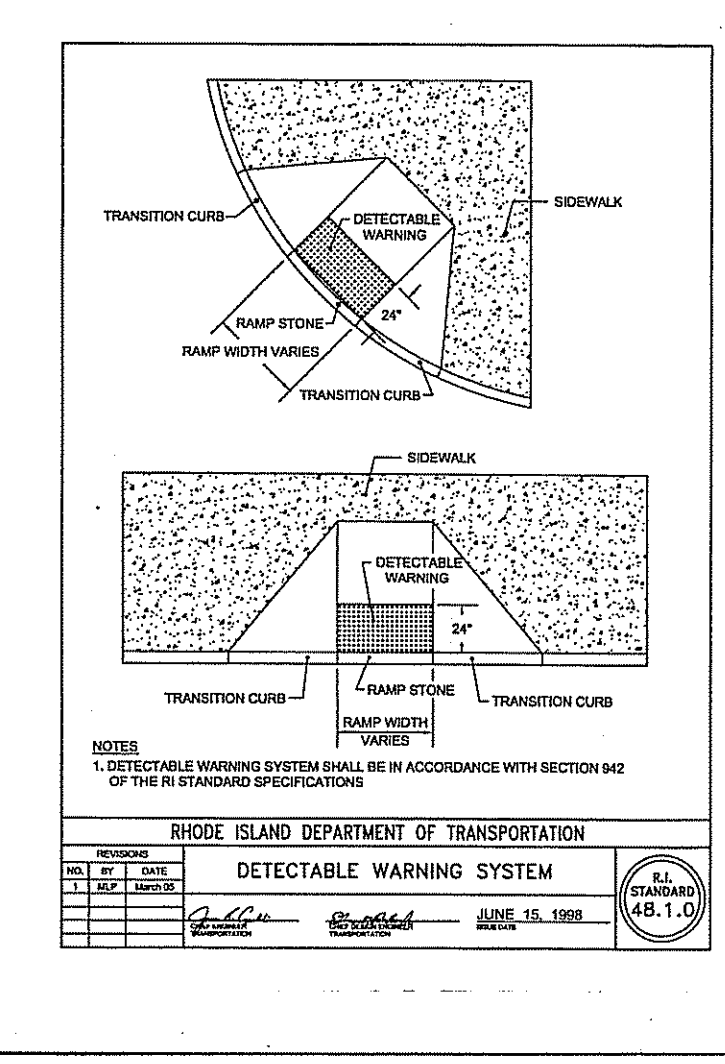
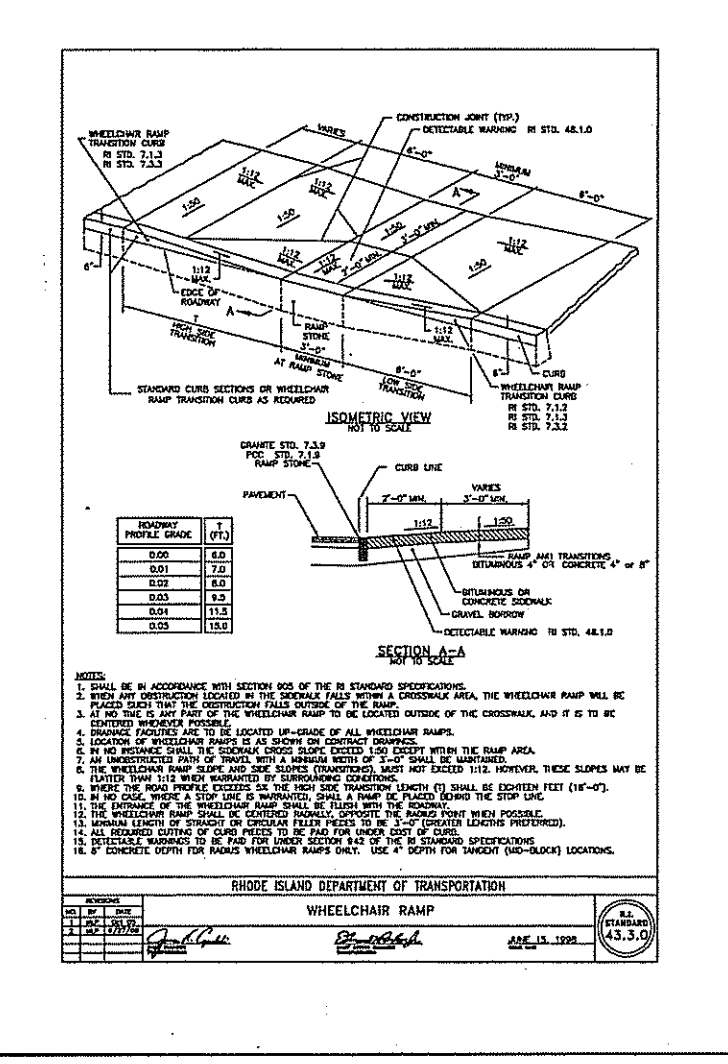
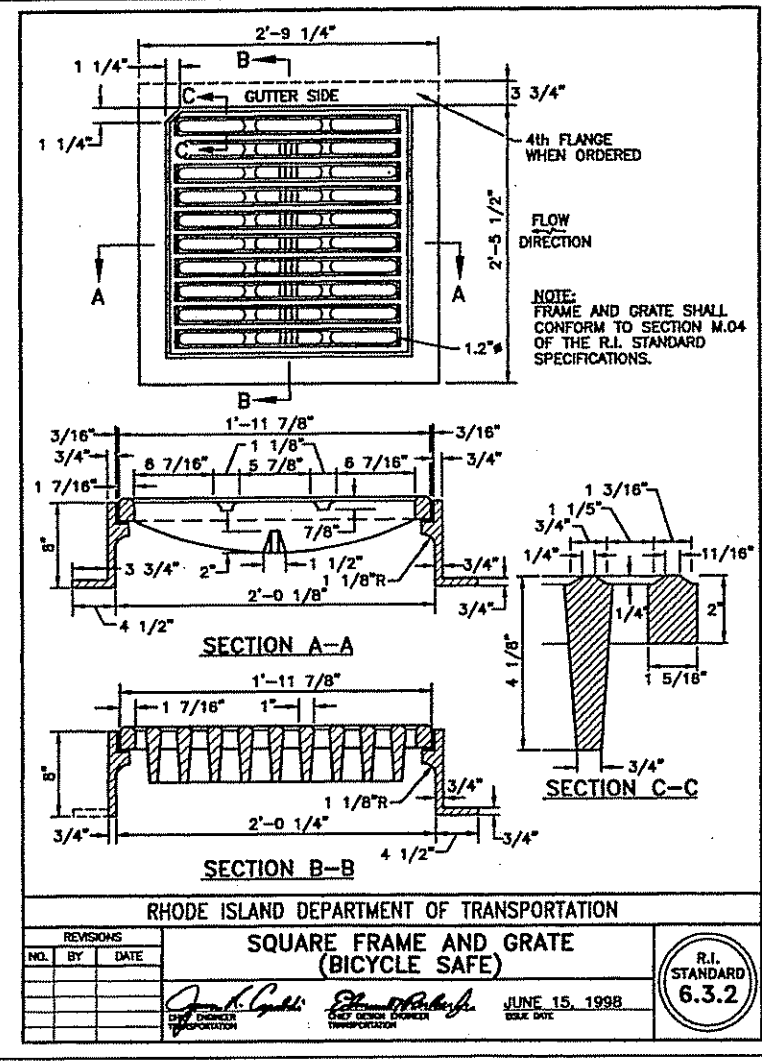
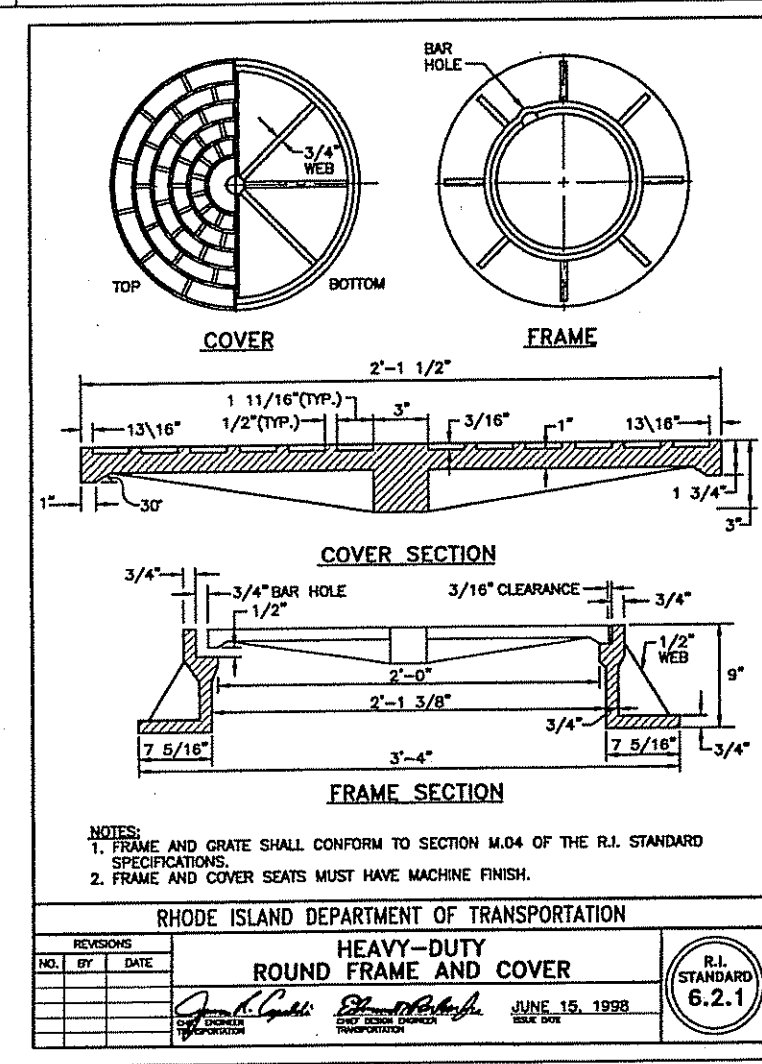
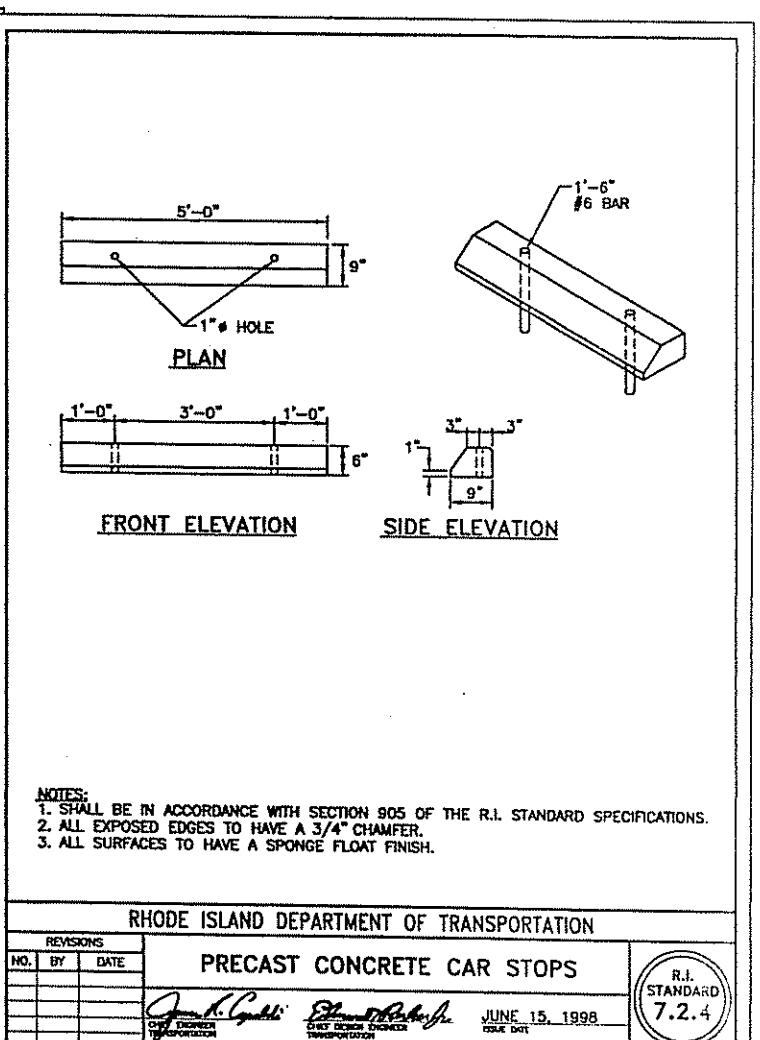
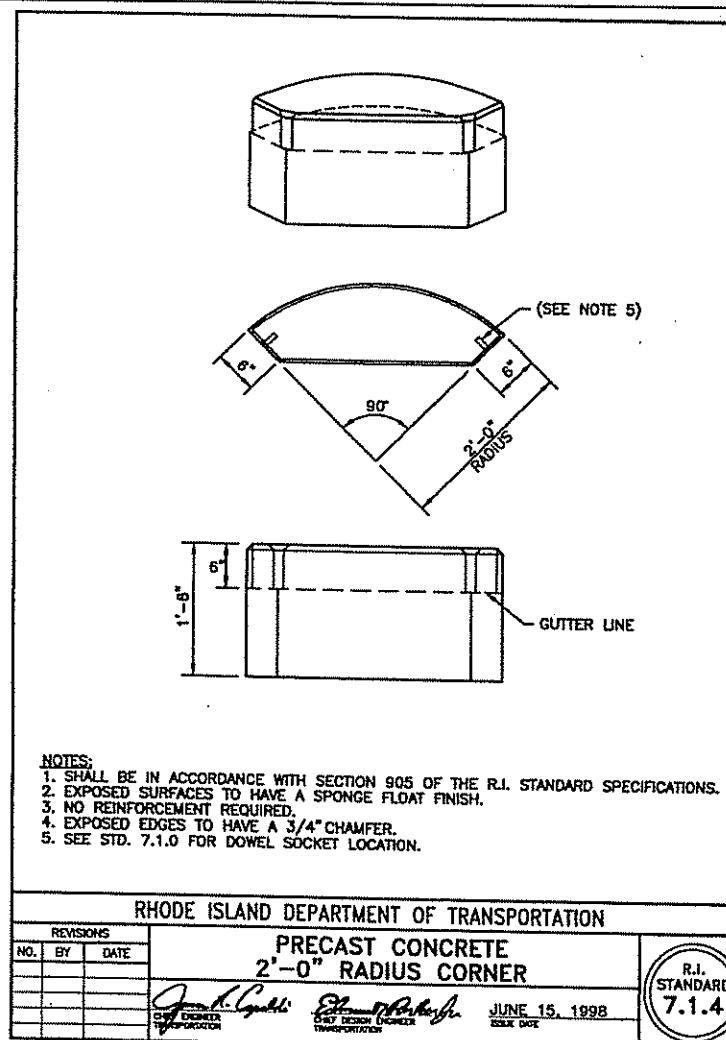
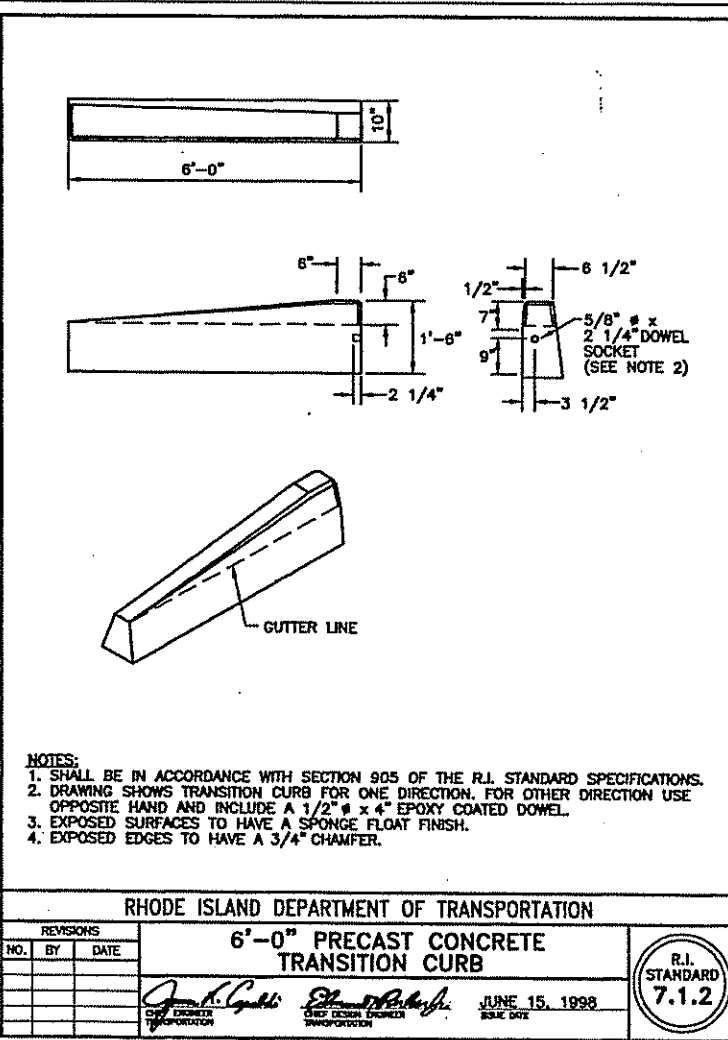
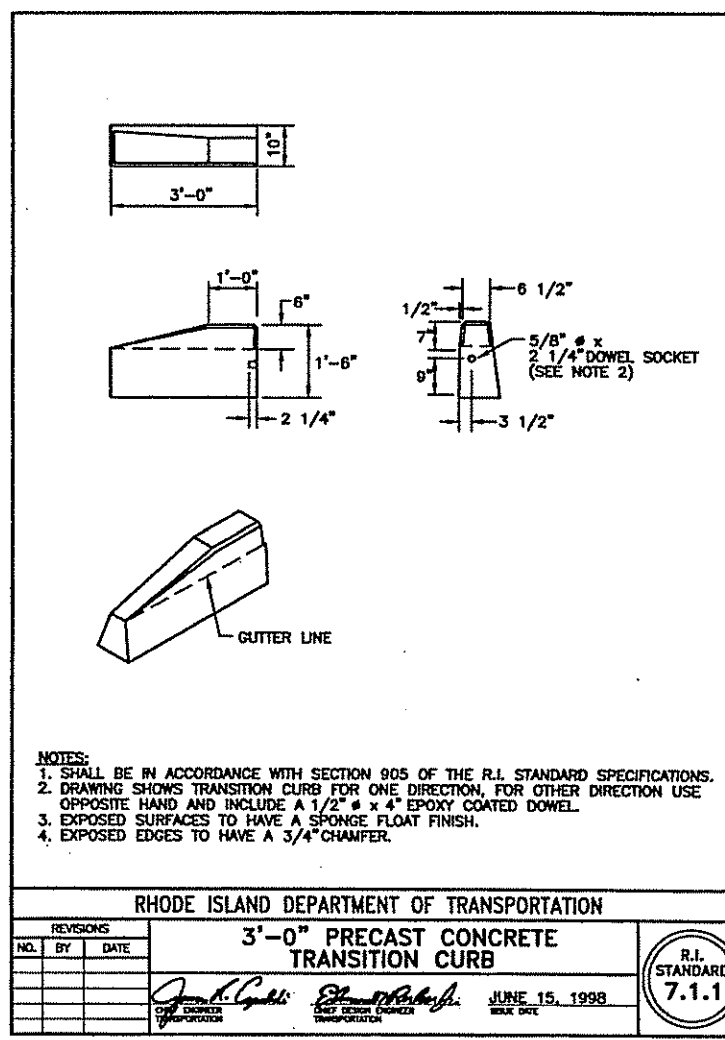
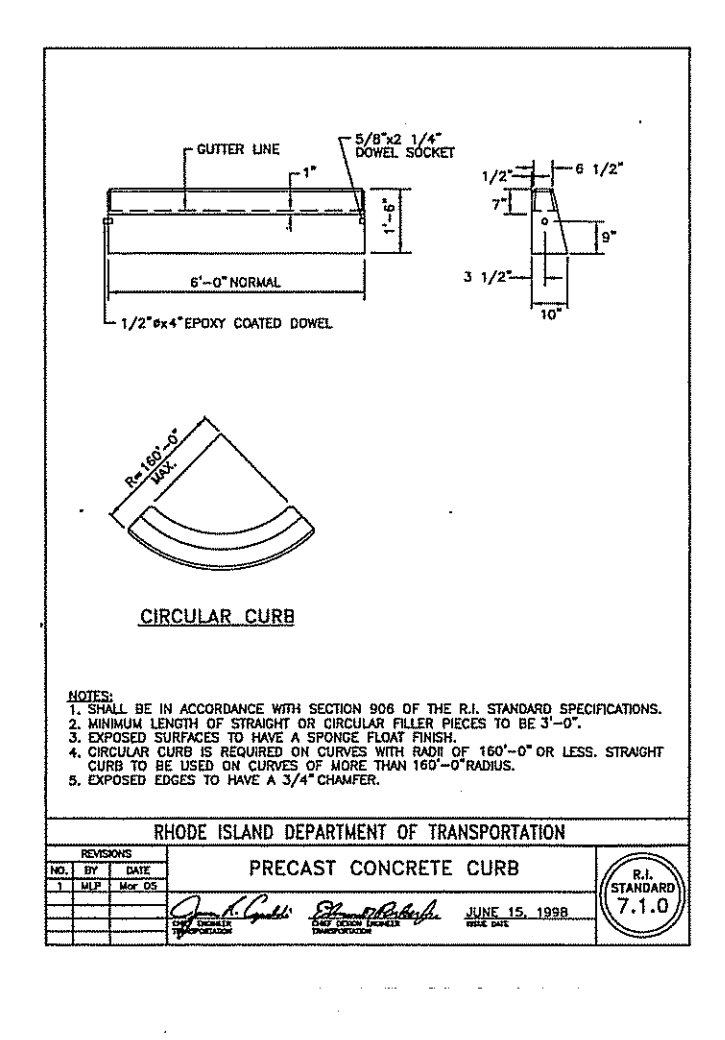
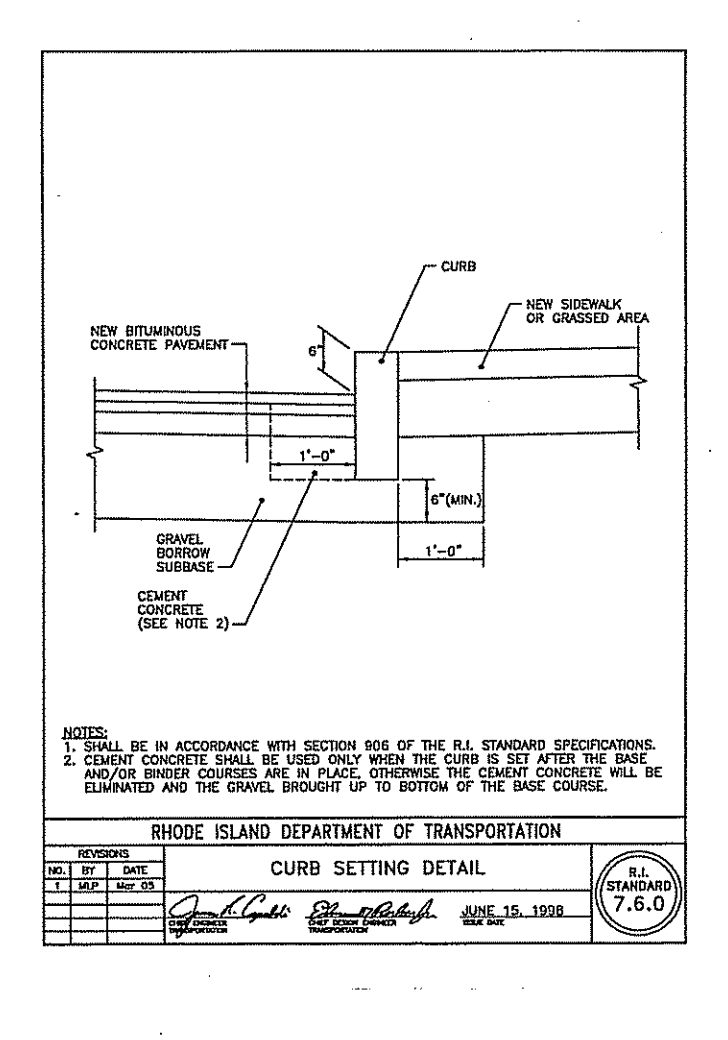
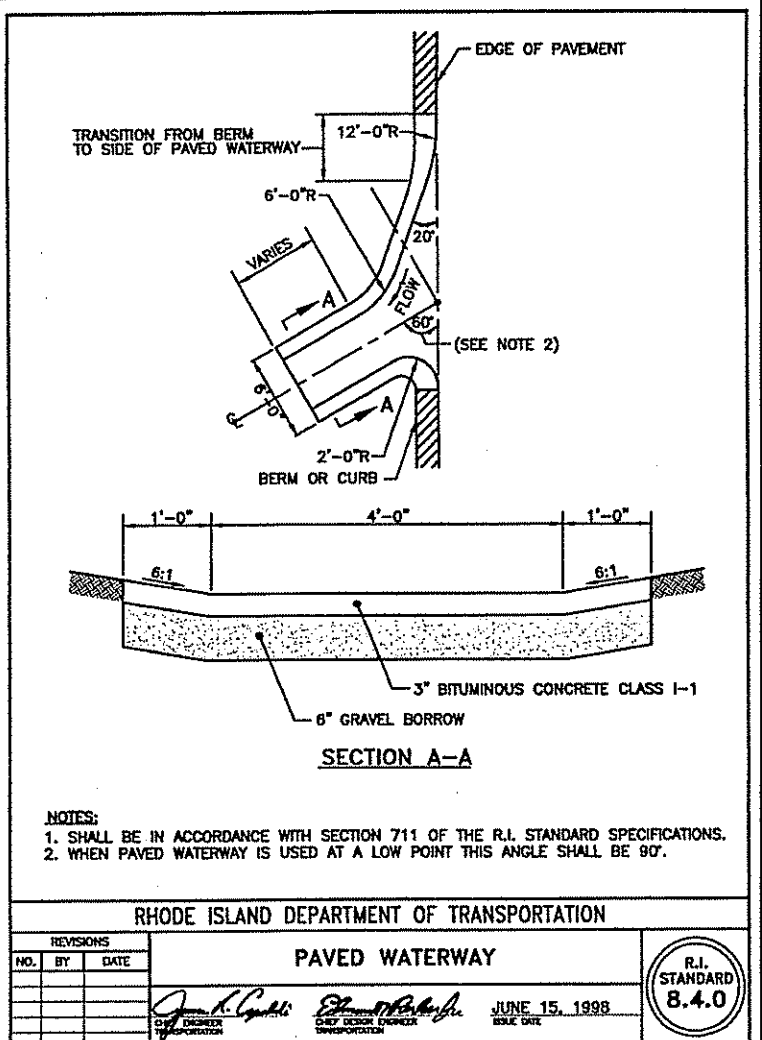
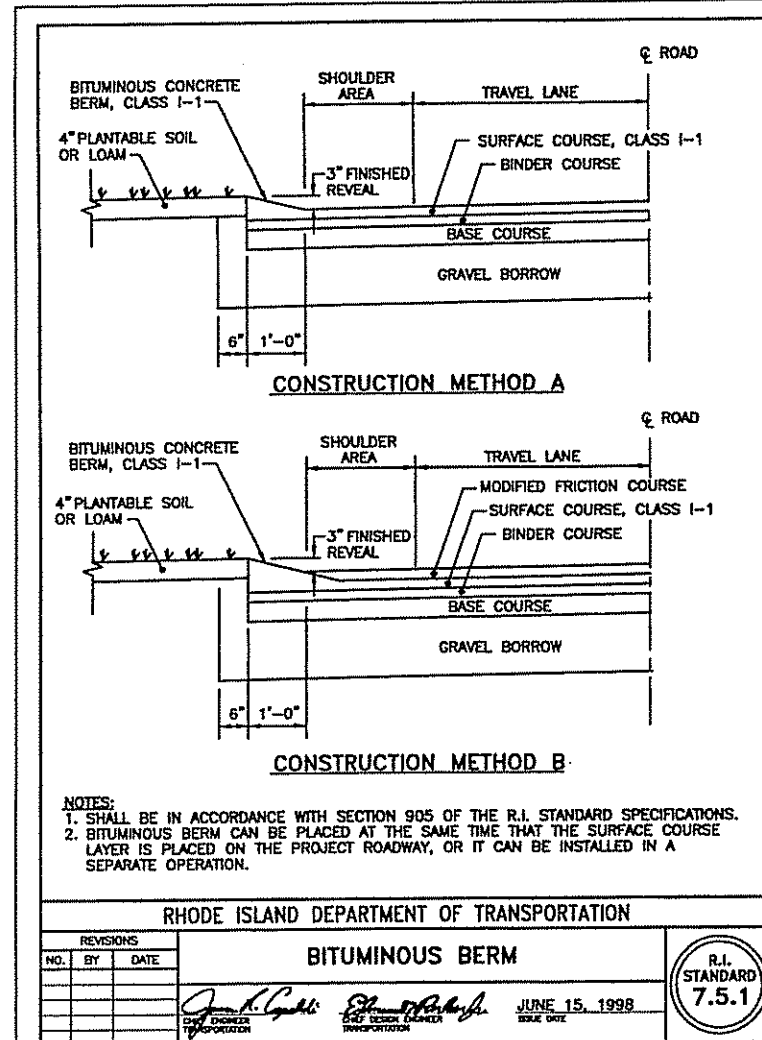
SITE DETAIL SHEET
 PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
 ASSESSOR'S PLAT 513 LOTS 127 & 128
 BULGARMARSH ROAD & ROOSEVELT AVENUE
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: FEBRUARY 13, 2013

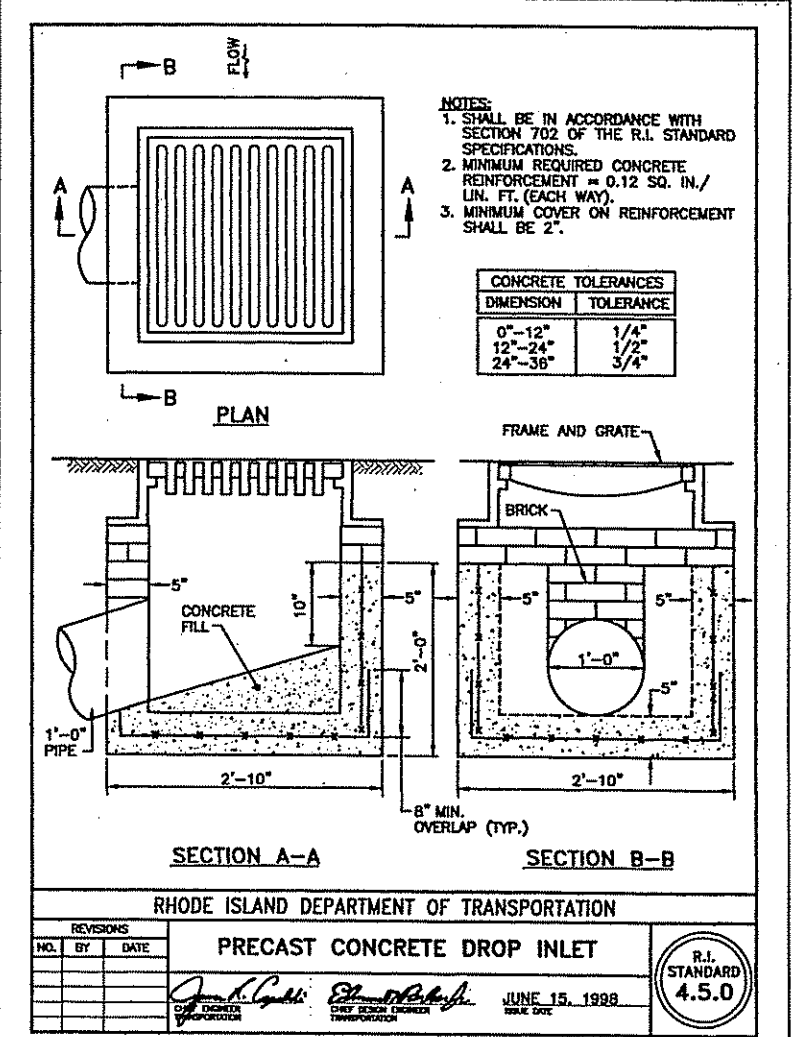
Civil Engineering Concepts, Inc.
 34A MAIN STREET
 LITTLE COMPTON, RI 02837
 PH: (401) 592-0177
 FAX: (401) 592-0178
 P.O. BOX 5323
 NEW BEDFORD, MA 01904
 (508) 990-4900
 EMAIL: wsmthcecc@aol.com

REVISIONS:
 #8: 6/27/13: ADD SIDEWALK X-SECTION, 100% CD'S (ISSUE)
 #7: 5/01/13: ADD DETAILS
 #6: 4/01/13: PER REVIEW COMMENTS
 #5: 3/19/13: REVISE SHEET TITLE, DE'AIL
 #4: 3/12/13: 95% CD SUBMISSION
 #3: 3/07/13: REVISE WHEELCHAIR RAMP DETAIL
 #2: 2/25/13: REVISE TYPICAL ROAD & PARKING LOT DE'AIL
 #1: 2/15/13: NO REVISIONS THIS SHEET

SHEET C-5 JOB#: 13-061

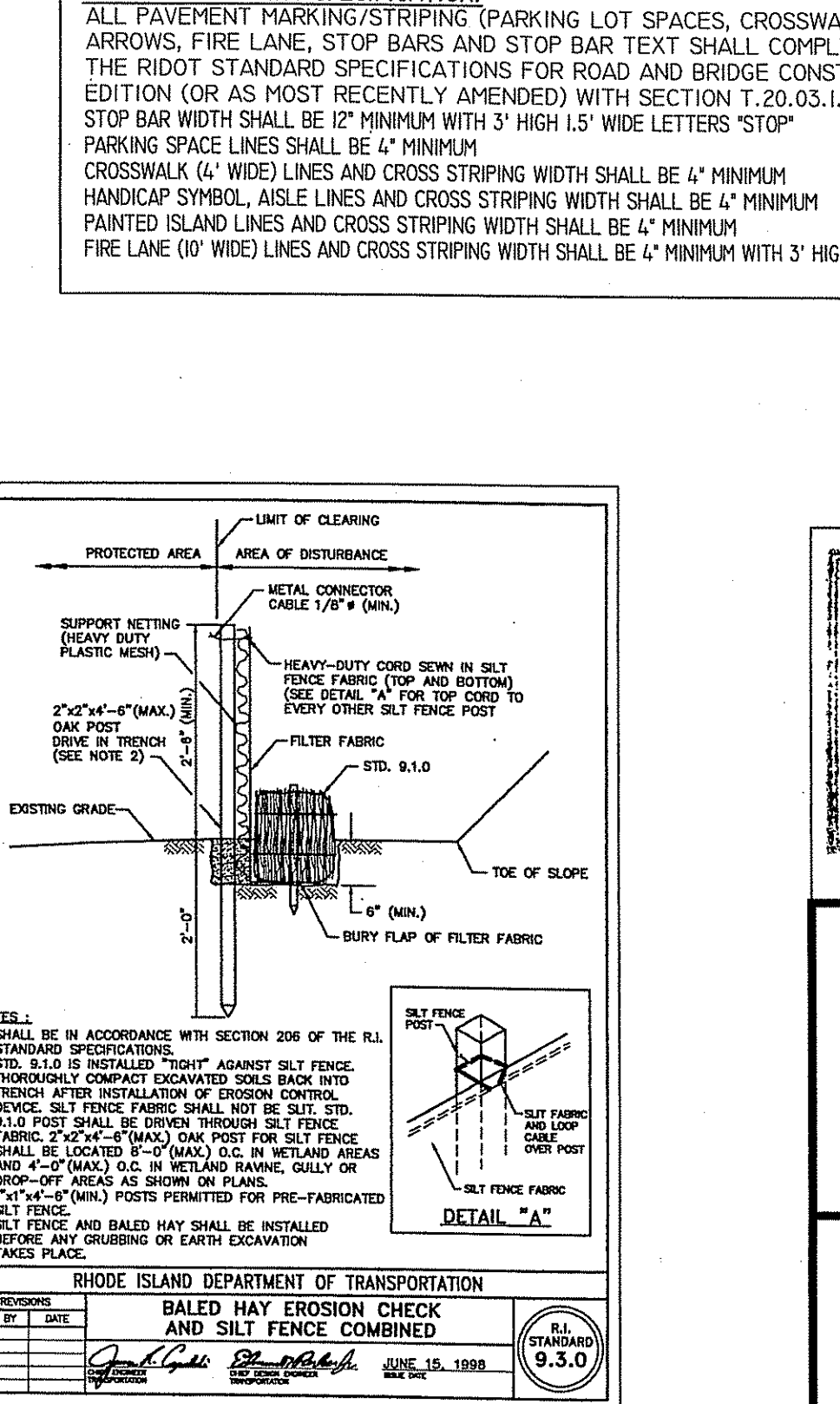


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 19 2013 FILE # 13-008
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RIPRAP SPECIFICATION:
 ALL RIPRAP CONSTRUCTION SHALL CONFORM TO SECTION 920 OF THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION (OR AS MOST RECENTLY AMENDED) WITH 6" OF SIZE FS-2 RIPRAP BEDDING AND SIZE R-4 GRADED RIPRAP STONE. FILTER FABRIC SHALL BE PLACED BETWEEN RIPRAP AND BEDDING STONE.

PAVEMENT MARKING SPECIFICATION:
 ALL PAVEMENT MARKING/STRIPING (PARKING LOT SPACES, CROSSWALKS, TRAFFIC DIRECTION ARROWS, FIRE LANE, STOP BARS AND STOP BAR TEXT SHALL COMPLY WITH SECTION 2.10.03.3 OF THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION (OR AS MOST RECENTLY AMENDED) WITH SECTION 2.10.03.1. STOP BAR WIDTH SHALL BE 12" MINIMUM WITH 3" HIGH 1.5" WIDE LETTERS "STOP". PARKING SPACE LINES SHALL BE 4" MINIMUM. CROSSWALK (4" WIDE) LINES AND CROSS STRIPING WIDTH SHALL BE 4" MINIMUM. HANDICAP SYMBOL, AISLE LINES AND CROSS STRIPING WIDTH SHALL BE 4" MINIMUM. PAINTED ISLAND LINES AND CROSS STRIPING WIDTH SHALL BE 4" MINIMUM WITH 3" HIGH 1.5" WIDE LETTERS "FIRE LANE ONLY NO PARKING FIRE LANE ONLY" AS DEPICTED.



WILLIAM F. SMITH
 REGISTERED PROFESSIONAL ENGINEER

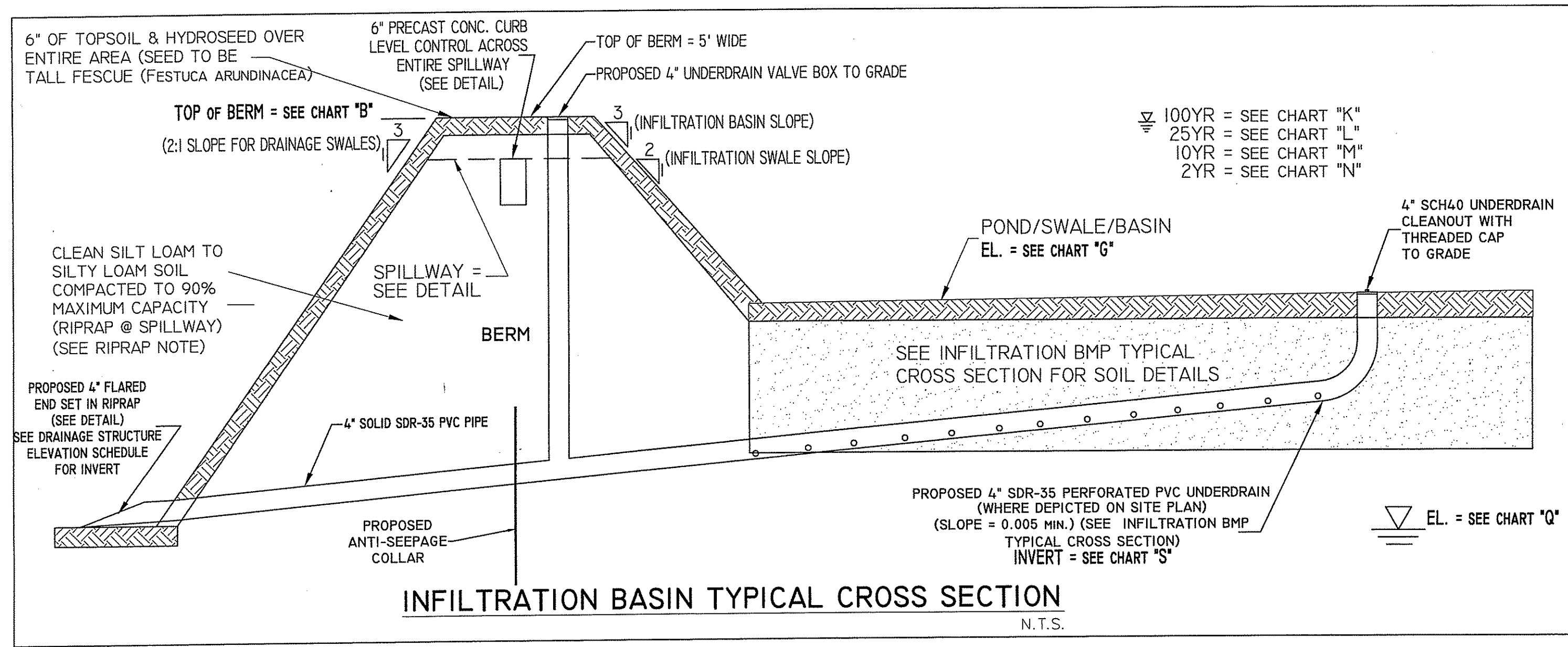
RI STANDARD DETAILS SHEET
 PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
 ASSESSOR'S PLAT 515 LOTS 127 & 128
 BULGARMARSH ROAD & ROOSEVELT AVENUE
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED DATE: FEBRUARY 13, 2013

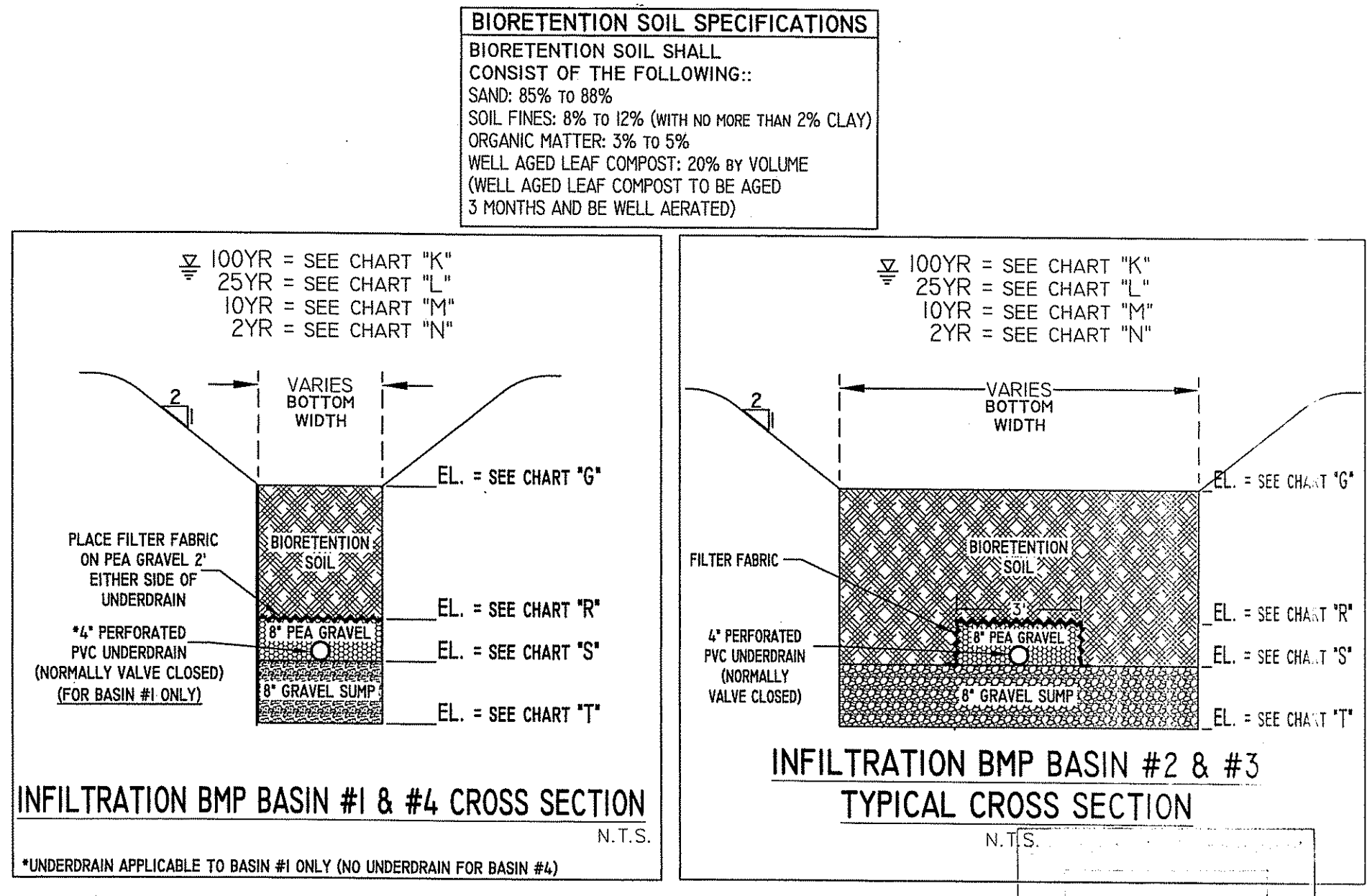
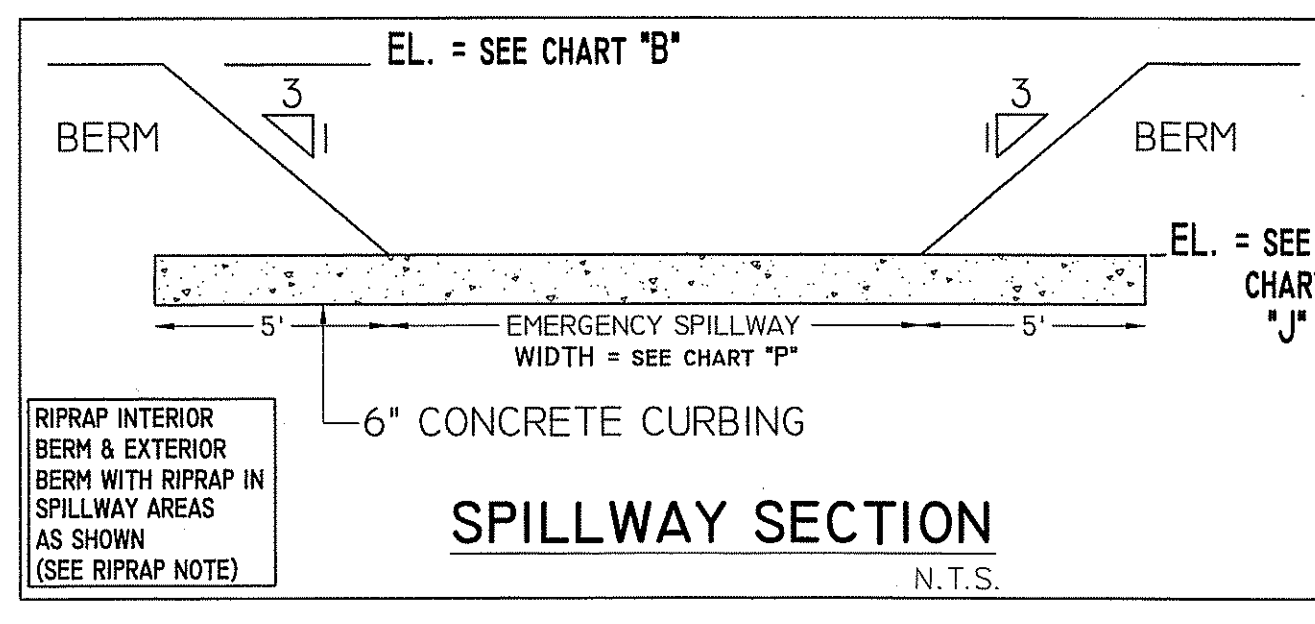
Civil Engineering Concepts, Inc.
 34A MAIN STREET P.O. BOX 5323
 LITTLE COMPTON, RI 02887 NEW BEDFORD, MA 0 742
 PH: (401) 592-0177 (508) 990-4900
 FAX: (401) 592-0178 EMAIL: wsmithce@aol.com

#8: 6/27/13: ADD DETAIL, 100% CD SUBMISSION
 #7: 5/01/13: RENUMBER SHEET
 #6: 4/01/13: ADD DETAILS
 #5: 3/19/13: ADD DETAILS, REVISI
 SHEET TITLE
 #4: 3/12/13: 95% CD SUBMISSION
 #3: 3/07/13: NO REVISIONS THIS SHEET
 #2: 2/25/13: NO REVISIONS THIS SHEET
 #1: 2/15/13: NO REVISIONS THIS SHEET

SHEET C-6 [JOB#: 19-061



RIPRAP NOTE:
ALL RIPRAP CONSTRUCTION SHALL CONFORM TO SECTION 920 OF THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION (OR AS MOST RECENTLY AMENDED) WITH 6" OF SIZE FS-2 RIPRAP BEDDING AND SIZE R-4 GRADED RIPRAP STONE. FILTER FABRIC SHALL BE PLACED BETWEEN RIPRAP AND BEDDING STONE.



BIORETENTION SOIL SPECIFICATIONS
BIORETENTION SOIL SHALL CONSIST OF THE FOLLOWING:
SAND: 85% TO 88%
SOIL FINES: 8% TO 12% (WITH NO MORE THAN 2% CLAY)
ORGANIC MATTER: 3% TO 5%
WELL AGED LEAF COMPOST: 20% BY VOLUME
(WELL AGED LEAF COMPOST TO BE AGED 3 MONTHS AND BE WELL AERATED)

GROUND WATER TABLE TEST RESULTS

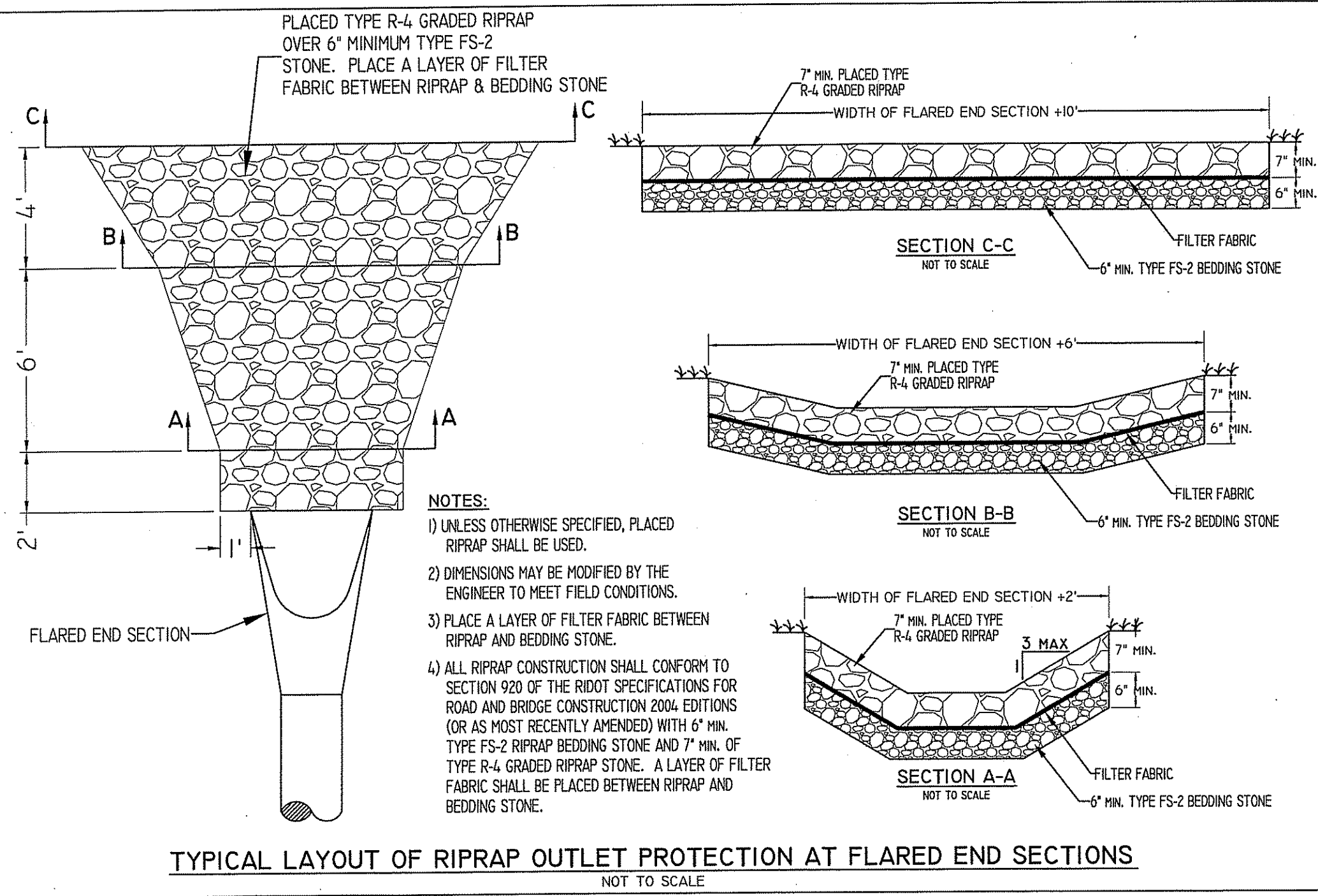
*TP #5	8'
*TP #7	8'
*TP #8	8'
*TP #9	8'
*TP #10	6'
TP #A	6'
TP #B	6'
TP #C	6'
TP #E	6'
TP #F	6'
TP #G	6'
TP #2012-1	6'
TP #2012-2	6'
TP #2013-1	6'
TP #2013-2	6'

*TEST HOLES BY OTHERS

STRUCTURE #	OS #	DRAINS TO	TOP BERM	LEVEL SPREADER ELEV	INVERT AT LEVEL SPREADER	OUTLET STRUCTURE INVERT	OUTLET STRUCTURE RIM	POND/SWALE BOTTOM	6" WQ PIPE INVERT	WQ ORIFICE DIA.	EMERG. SPILLWAY ELEV	100 YR	25 YR	10 YR	2 YR	LEVEL SPREADER LENGTH	SPILLWAY WIDTH	TEST PIT # & GWT DEPTH	BOTTOM BIORETENTION SOIL	INVERT 4" PVC SUBDRAIN	BOTTOM GRAVEL SLUMP
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
BASIN #1 UPPER	N/A	BASIN #1 LOWER	234.80	N/A	N/A	N/A	N/A	232.00	N/A	N/A	233.50	233.79	233.69	233.64	233.51	N/A	10'	228.0	229.7	229.0	228.3
BASIN #1 LOWER	N/A	BASIN #2	232.80	N/A	N/A	N/A	N/A	229.00	N/A	N/A	231.50	231.72	231.53	231.03	229.26	N/A	10'	226.0	226.7	226.0	225.3
BASIN #2	N/A	N. SWALE ON ROOSEVELT	228.90	N/A	N/A	N/A	N/A	225.00	N/A	N/A	227.50	227.89	227.62	227.52	226.54	N/A	10'	222.0	224.7	224.0	223.3
BASIN #3	N/A	S. SWALE ON ROOSEVELT	229.90	N/A	N/A	N/A	N/A	226.00	N/A	N/A	228.50	228.83	228.69	228.57	227.74	N/A	15'	223.0	224.7	224.0	223.3
BASIN #4 UPPER	N/A	BASIN #4 MIDDLE	232.00	N/A	N/A	N/A	N/A	231.00	N/A	N/A	231.50	231.80	231.73	231.69	231.63	N/A	5'	228.0	229.0	N/A	N/A
BASIN #4 MIDDLE	N/A	SAIN #4 LOWER	230.00	N/A	N/A	N/A	N/A	229.00	N/A	N/A	229.50	229.80	229.73	229.69	229.63	N/A	5'	226.0	227.0	N/A	N/A
BASIN #4 LOWER	N/A	N. SWALE ON ROOSEVELT	227.60	N/A	N/A	225.55 (12")	N/A	225.55	N/A	N/A	228.00	227.45	227.21	227.12	227.04	N/A	8'	222.0	223.0	N/A	N/A

ABBREVIATION KEY

WQ	WATER QUALITY OUTLET
OS	OUTLET STRUCTURE
INV.	INVERT
LS	LEVEL SPREADER
BTM	BOTTOM
DIA.	DIAMETER
DS	DRAINAGE SWALE
ELEV	ELEVATION
SD	UNDERDRAIN



EROSION AND SEDIMENT CONTROL:

- Review the Stormwater Pollution Prevention Plan for additional details. Elements of the Erosion and Sediment Control Plan are as follows:
- A haybale checkdam or silt fence will be installed along the limits of disturbance and as designated on the site plan. Haybale checkdam will be inspected daily with repairs made as needed. A minimum of 20 extra haybales shall be kept on site for repairs.
 - Vegetation removal shall be limited to the areas designated on the site plans. Encroachment beyond the approved limits of disturbance is not allowed. Any encroachment will require stabilizing the site, tilling the soil to uncompact the soil and replanting.
 - A stone construction entrance will be installed at the entrance to the site to minimize transport of sediment by vehicles at the site.
 - Drainage Swales, Infiltration Basins, catch basins, level spreaders and drainage piping will be installed prior to any pavement being placed. Haybales or silt fence enclosures will be installed around all catch basins until pavement is placed and vegetation established.
 - Immediately following the construction of each catch basin, a silt sack shall be installed between the catch basin frame and grate. The silt sack shall be regularly maintained by removal and cleaning as required to prevent silt from entering the drainage system. The silt sack shall remain in place until the top course of pavement has been placed and after road shoulder vegetation is established.

CONSTRUCTION ACTIVITIES

- General Sequence of Events
- Limits of disturbance shall be staked by a professional Land Surveyor.
 - Tree removal shall take place
 - Erosion control shall be placed along limits of disturbance and construction entrance shall be installed at intersection with Roosevelt Avenue, prior to any excavation, grubbing or stockpiling of soil.
 - A construction fence is encouraged in addition to the Haybales to ensure that encroachment beyond limits of disturbance does not occur
 - Portable, self contained toilet(s) shall be placed at the site
 - Designated staging, stockpiling and washout areas shall be established
 - Drainage, drainage swales and infiltration basins shall be installed, loamed, hydroseeded and watered to establish a stand of grass.
 - Building excavation and construction will commence.
 - Road shall be excavated, subbase brought up to grade, and utilities installed.
 - Stockpile/staging areas shall be cleaned, re-graded and hydroseeded upon completion of construction activities.
- Erosion control shall be inspected daily and maintained as necessary to provide intended protection. Litter will be policed on a daily basis. Drainage systems and overland flow paths shall be inspected monthly and after rainfall events of 1" or greater.

ROAD & STORMWATER SYSTEM MAINTENANCE PLAN

Maintenance Schedule and Tasks: The contractor shall review the Stormwater Pollution Prevention Plan for detailed information on construction activities. Routine maintenance will be the responsibility of the Tiverton Library. Routine maintenance of the stormwater management system shall occur as follows:

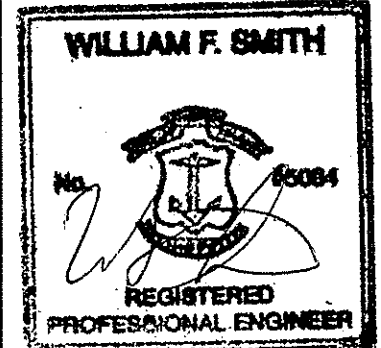
- The paved driveway and parking surfaces shall be swept with a motorized street sweeper at least twice per year (in the spring and late fall). The Tiverton Library/ will be responsible for this after construction is completed
- The catch basins shall be inspected for sediment accumulation and physical condition at least annually with removal/ cleaning by the Library as needed.
- Whenever two inches of silt has accumulated in the swales, the sediments shall be removed by mechanical or vacuum equipment. All sediments shall be removed from the site and disposed of at an approved disposal facility. This work will be accomplished within 1 year after installation by the Tiverton Library and at least every 2 years thereafter.
- The vegetated condition downstream of surface runoff shall be inspected annually. Any erosion of channels or banks, any excessive seepage or any loss of vegetative cover shall be promptly repaired using standard landscaping practices. Mowing of side slopes of the swales and basins shall be performed at least once during growing season (after August 15th) to ensure that woody growth does not take root. All trash and debris will be removed from the swales monthly.
- The spillway infiltration basins will be inspected monthly by the Tiverton Library for the first 6 months to insure proper operation and at least semi-annually thereafter. Inspection will be conducted with 5 days of any storm event in excess of 1".
- The grass geogrid system will be maintained in accordance with the manufacturers recommendations. Irrigate as needed during dry periods. Do not overwater. Fertilize once per year with NPK slow release fertilizer containing trace elements. Raise plow or attached skids on plows to prevent damage to geogrid.

The Tiverton library will be responsible for all maintenance required of the basins, drainage piping, swales, outlet structure, spillways and discharge. The maintenance requirements will be recorded in the land evidence records.

LID Compliance
The following Low Impact Development Standards are proposed for this project:

- Reduced driveway widths from 24' to 20' where possible.
- Protected Buffer to remain vegetated in current condition
- Pervious Grass geogrid parking area will be utilized.
- Infiltration systems used to collect, treat, recharge stormwater.

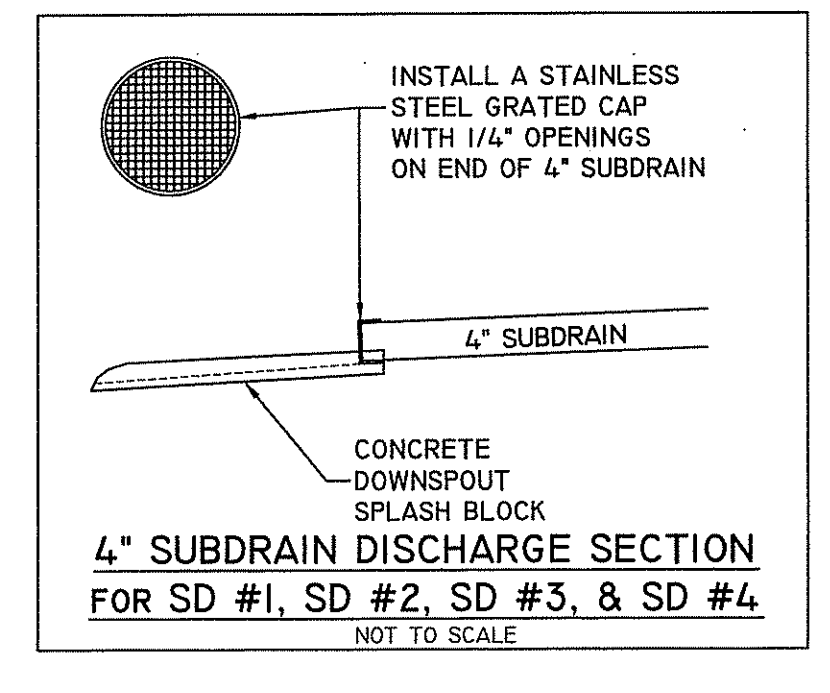
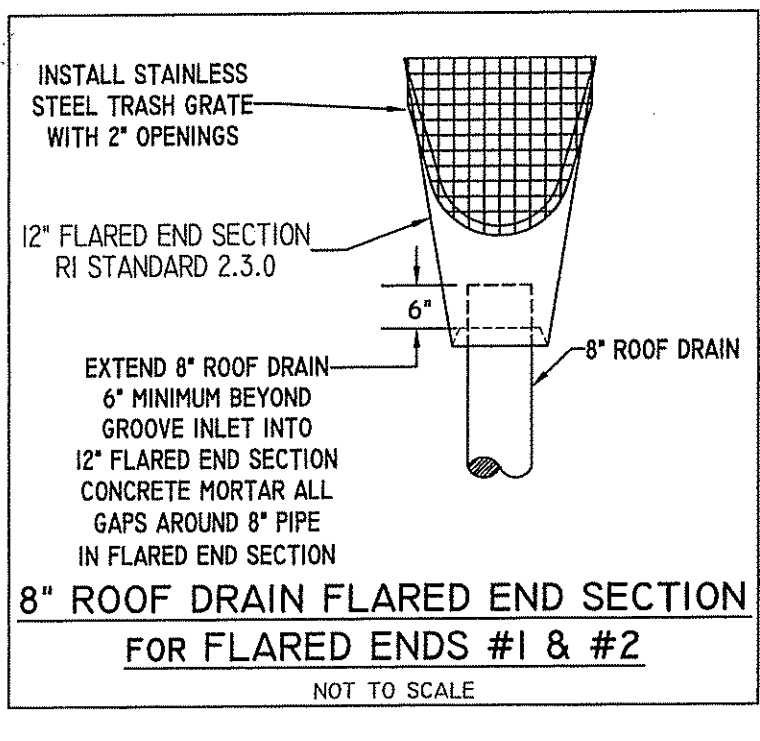
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED JUL 19 2013 FILE # 13-0081
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



DRAINAGE STRUCTURE SCHEDULE

DRAINAGE STRUCTURE	RIM	INVERT IN	INVERT OUT	BOTTOM SUMP
CB#1	233.70	N/A	12" = 229.83	225.75
CB#2	233.60	12" = 229.61	12" = 229.51	225.35
CB#3	232.18	N/A	12" = 229.18	225.10
CB#4	231.80	2 AT 12" = 228.86	12" = 228.76	224.70
CB#5	231.00	N/A	12" = 228.46	224.45
CB#6	230.50	2 AT 12" = 228.16	15" = 228.06	224.10
CB#7	227.00	N/A	12" = 225.17	221.55
CB#8	227.60	12" = 225.02	12" = 224.85	221.25
DMH#1	231.50	12" = 228.68	12" = 228.58	N/A
DMH#2	229.00	15" = 226.82	15" = 226.72	N/A
DMH#3	227.00	12" = 224.53	12" = 224.51	N/A
DROP INLET	227.20	N/A	12" = 224.62	N/A
EXIST. DMH (ROOSEVELT AVE.)	227.79	NEW 12" = 223.86 EXIST. 12" = 222.05	12" = 222.05 (EXIST.)	N/A
FLARED END #1	N/A	N/A	8" INV. = 233.00	N/A
FLARED END #2	N/A	N/A	8" INV = 228.00	N/A
N. ROOSEVELT FLARED END #3	N/A	N/A	12" INV. = 224.00	N/A
BASIN #3 FLARED END #4	N/A	N/A	15" INV. = 226.00	N/A
SD #1	N/A	N/A	4" INV. = 229.00	N/A
SD #2	N/A	N/A	4" INV. = 225.30	N/A
SD #3	N/A	N/A	4" INV. = 224.00	N/A
SD #4	N/A	N/A	4" INV. = 224.00	N/A

ALL PIPING TO BE ADS (OR APPROVED EQUAL) UNLESS NOTED OTHERWISE. ALL SD (UNDERDRAIN PIPING) TO BE 4" SDR-35 (PERFORATED OR SOLID AS REQUIRED) OR APPROVED EQUAL. ROOF DRAIN COLLECTION SYSTEM TO BE 8" SDR-35 OR APPROVED EQUAL.



#8: 6/27/13: REVISE ELEV. SCHEDULE & 100% CD SUBMISSION
#7: 5/01/13: PER REVIEW COMMENTS
#6: 4/01/13: PER REVIEW COMMENTS
#5: 3/19/13: REVISE ELEV. SCHEDULE
#4: 3/12/13: 95% CD SUBMISSION
#3: 3/07/13: REVISE DRAINAGE STRUCTURE SCHEDULE
#2: 2/25/13: REVISE CHART INFORMATION, ADD NOTES
#1: 2/15/13: NO REVISIONS THIS SHEET

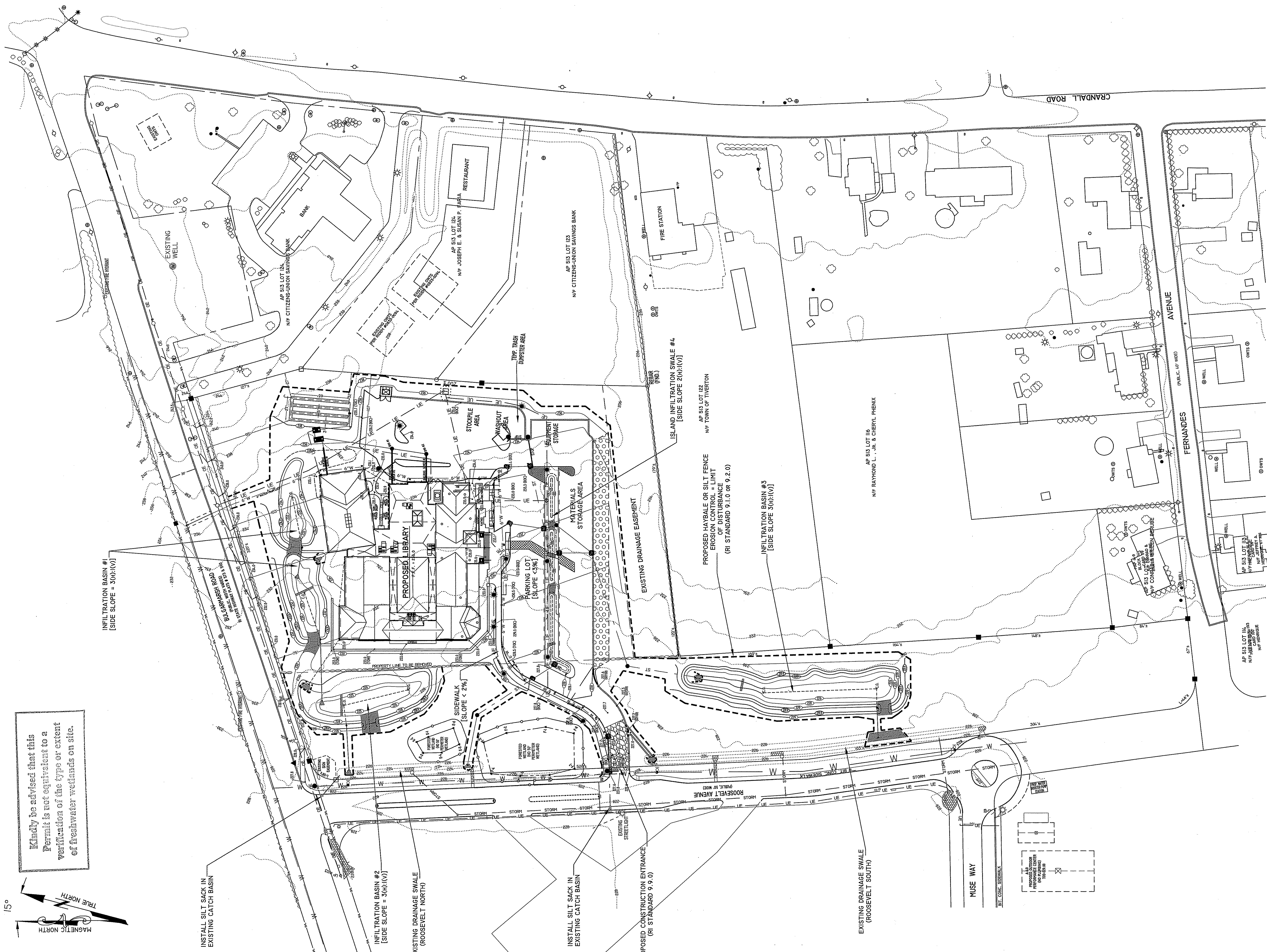
REVISIONS: SHEET C-7

DRAINAGE, SOIL AND EROSION CONTROL DETAIL SHEET
PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
ASSESSOR'S PLAT 513 LOTS 127 & 128
BULGARMARSH ROAD & ROOSEVELT AVENUE
TIVERTON, RHODE ISLAND

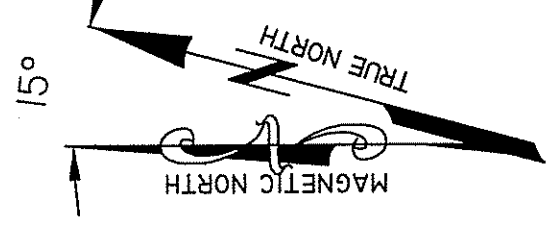
SCALE: AS NOTED DATE: FEBRUARY 13, 2013

Civil Engineering Concepts, Inc.
34A MAIN STREET P.O. BOX 5323
LITTLE COMPTON, RI 02837 NEW BEDFORD, MA 02742
PH: (401) 592-0177 FAX: (401) 592-0178 EMAIL: wsmithceco@aol.com

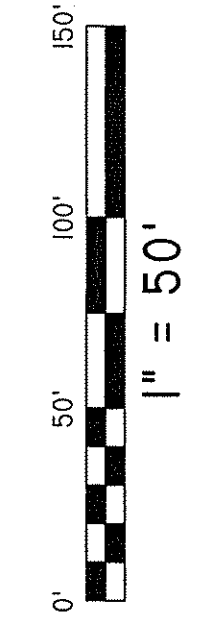
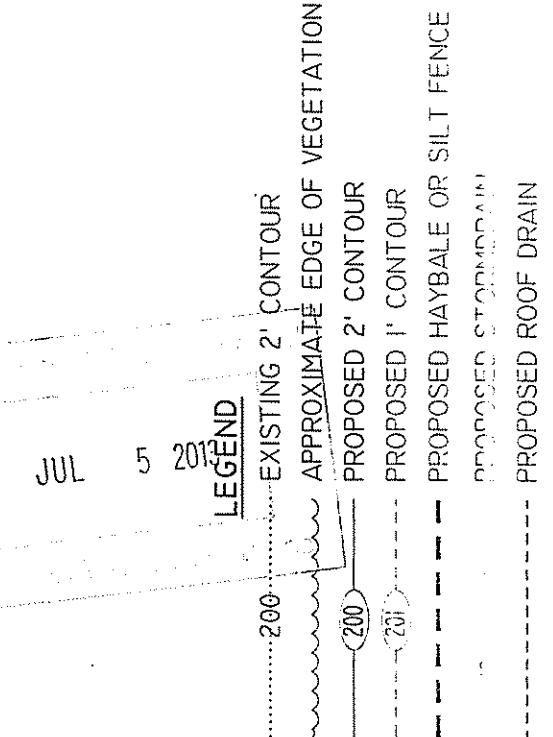
REGISTERED PROFESSIONAL ENGINEER



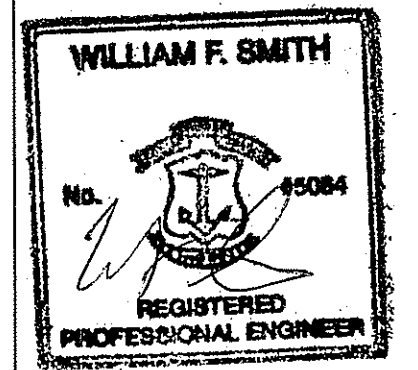
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



PROPOSED CATCH BASINS TO BE PROTECTED WITH STAKED HAYBALES AND HAVE SILT SACKS INSTALLED IMMEDIATELY AFTER STRUCTURE CONSTRUCTION. HAYBALES TO REMAIN IN PLACE UNTIL INSTALLATION OF PAVEMENT.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Angela D. Wozniak

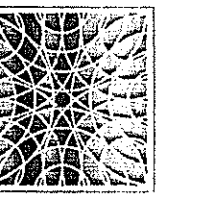


- #8: 6/27/13: ADD DROP INLET, 100% C.D.S. DISCHARGE
- #7: 5/01/13: RENUMBER SHEET
- #6: 4/01/13: PER REVIEW COMMENTS
- #5: 3/19/13: THIS SHEET ADDED TO SET

STORMWATER POLLUTION PREVENTION PLAN
ACTIVE CONSTRUCTION SITE PLAN
PREPARED FOR
NEW TIVERTON PUBLIC LIBRARY
ASSESSOR'S PLAT 513 LOTS 127 & 128
BULGARMARSH ROAD & ROOSEVELT AVENUE
TIVERTON, RHODE ISLAND
SCALE: 1" = 50' DATE: FEBRUARY 25, 2013

Civil Engineering Concepts, Inc.
34A MAIN STREET P.O. BOX 53 3
LITTLE COMPTON, RI 02857 NEW BEDFORD, MA 02742
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FAX: (401) 592-0178 EMAIL: wsmithce@cof.com

SHEET C-8 JOB #: 09-061



UNION STUDIO
ARCHITECTURE & CONSTRUCTION

140 Union Street Providence, RI 02901
1 401.272.4724 1 401.272.1845
www.unionstudioarch.com
FORMERLY DONALD POWERS ARCHITECTS



OWNER:
THE TRUSTEES OF
TIVERTON LIBRARY
SERVICES
238 HIGHLAND ROAD
TIVERTON, RI
02878

TIVERTON LIBRARY
34 ROOSEVELT DRIVE
TIVERTON, RHODE ISLAND 02878



100%
CONSTRUCTION
DOCUMENTS

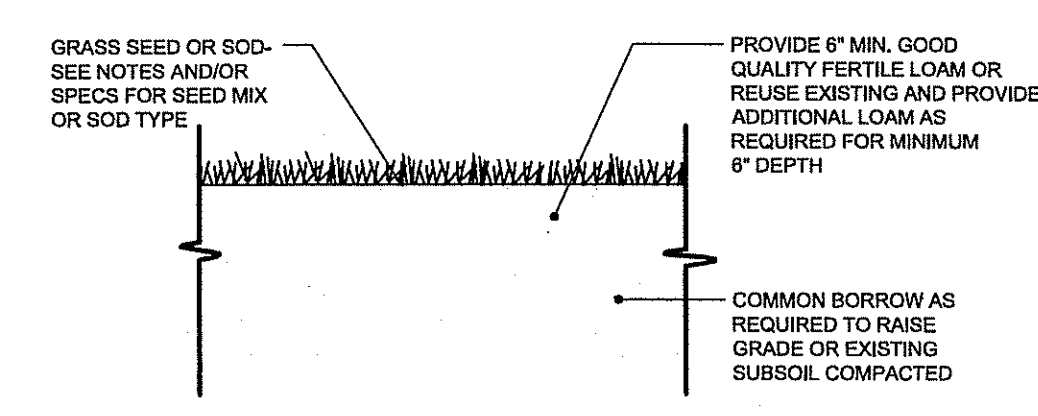
NO.	REVISION	DATE

JOB #: 12-0100
DATE: May 28, 2013
SCALE: As indicated

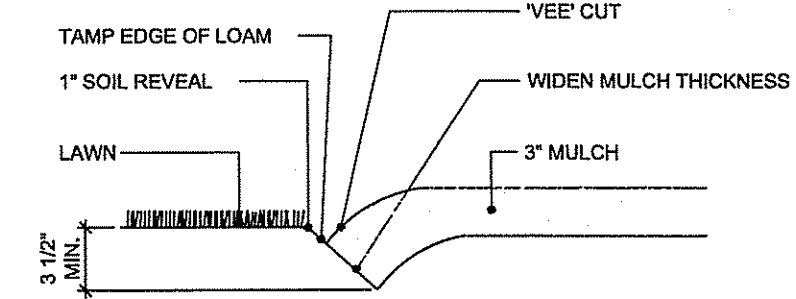
LANDSCAPE
PLANTING DETAILS

L1.1

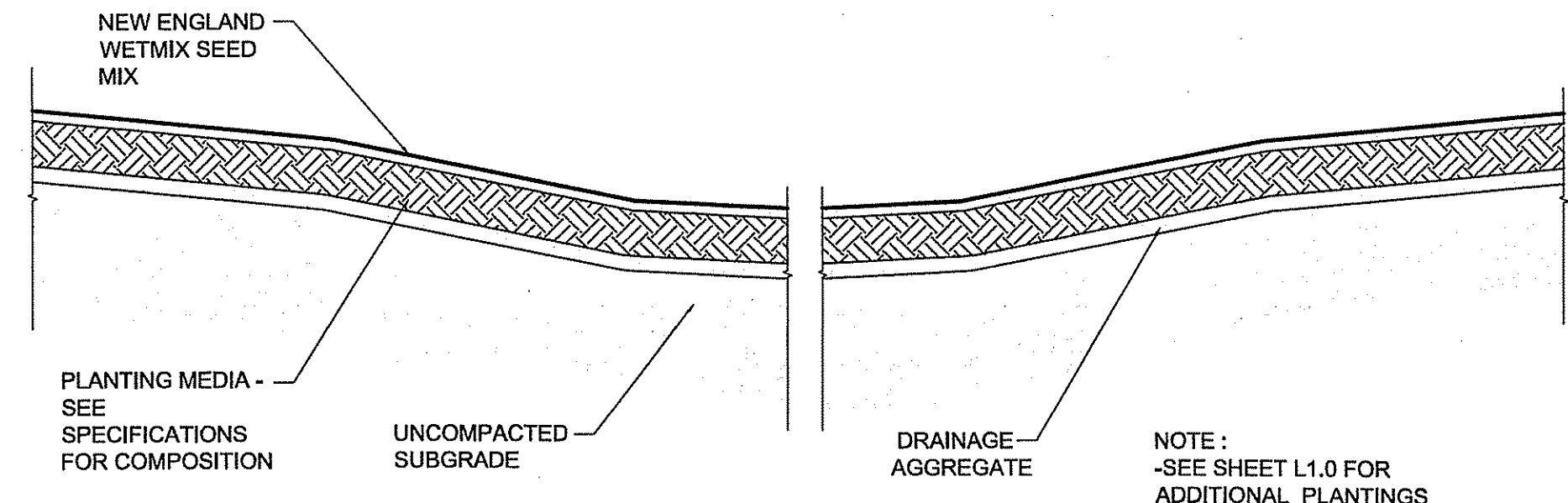
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Matthew D. Wenzel



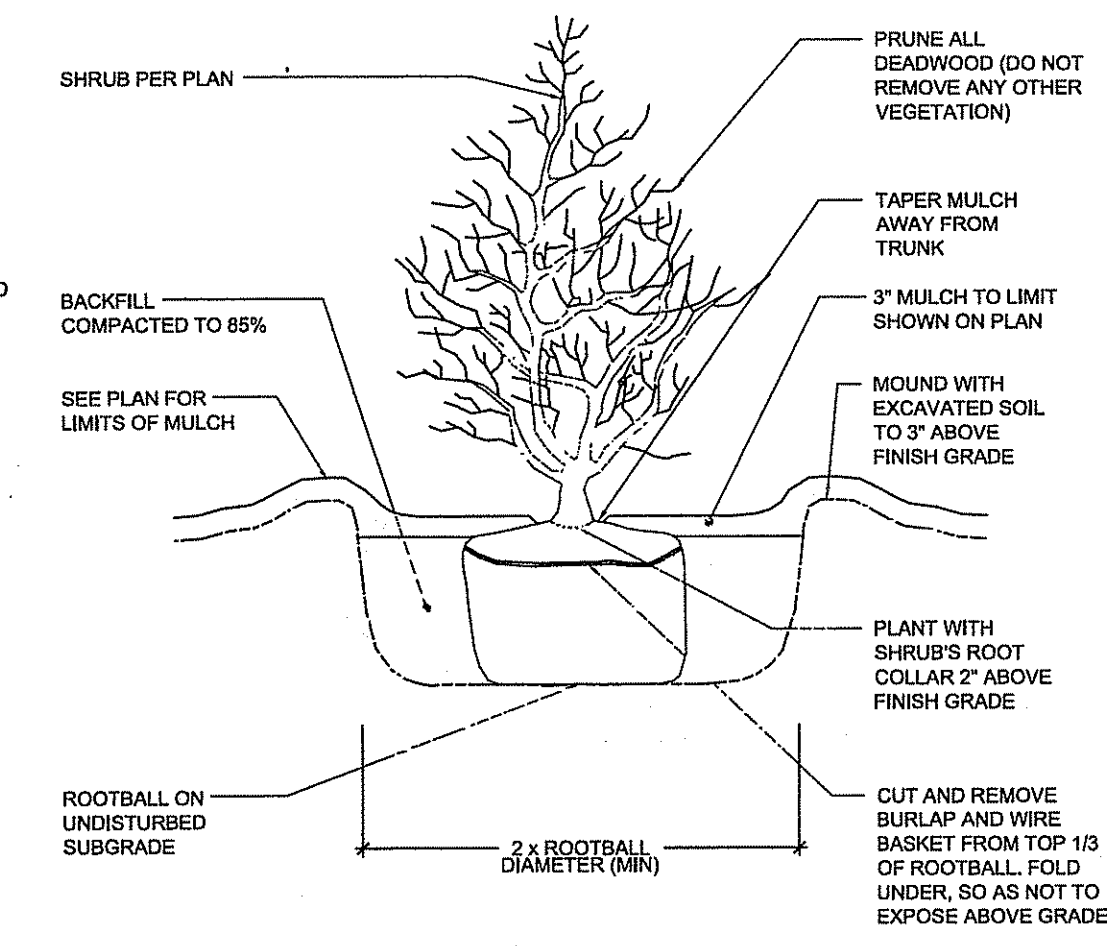
LOAM AND SEED OR LOAM AND SOD
SCALE: NOT TO SCALE



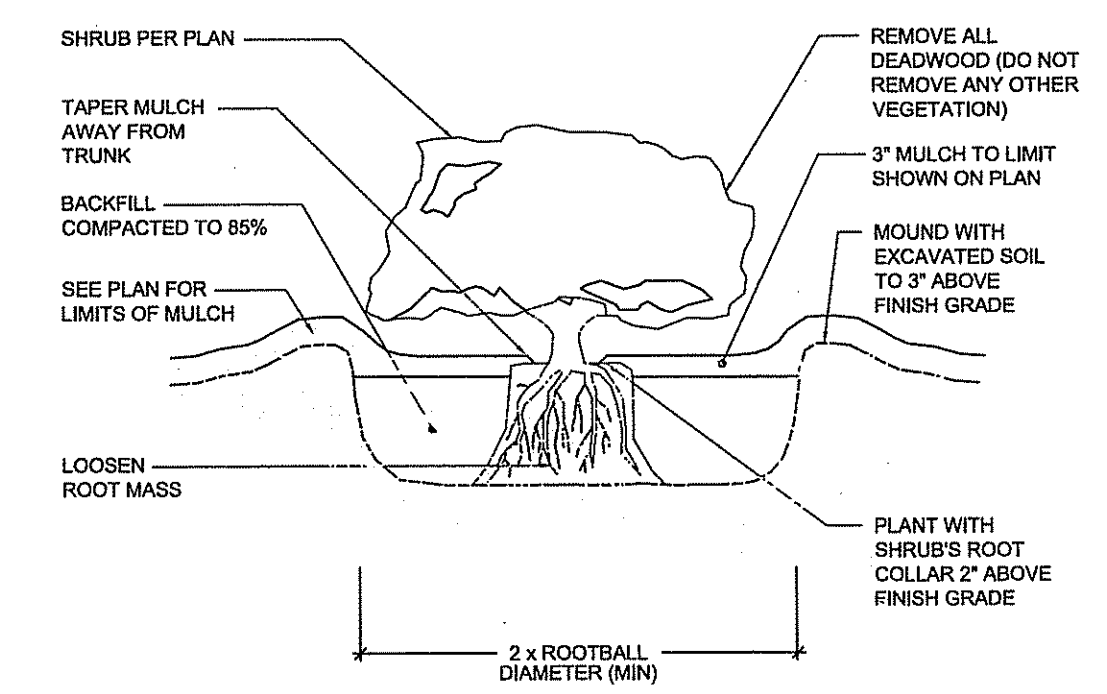
BEDLINE EDGE
SCALE: NOT TO SCALE



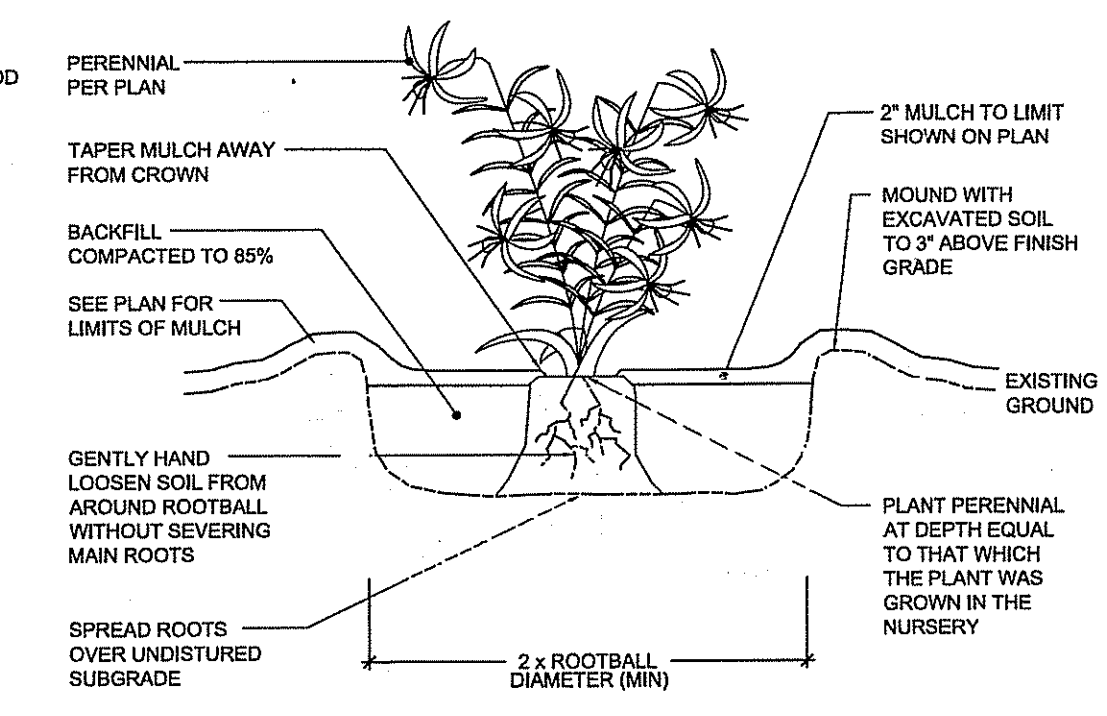
INFILTRATION BASIN
SCALE: 3/16"=1'



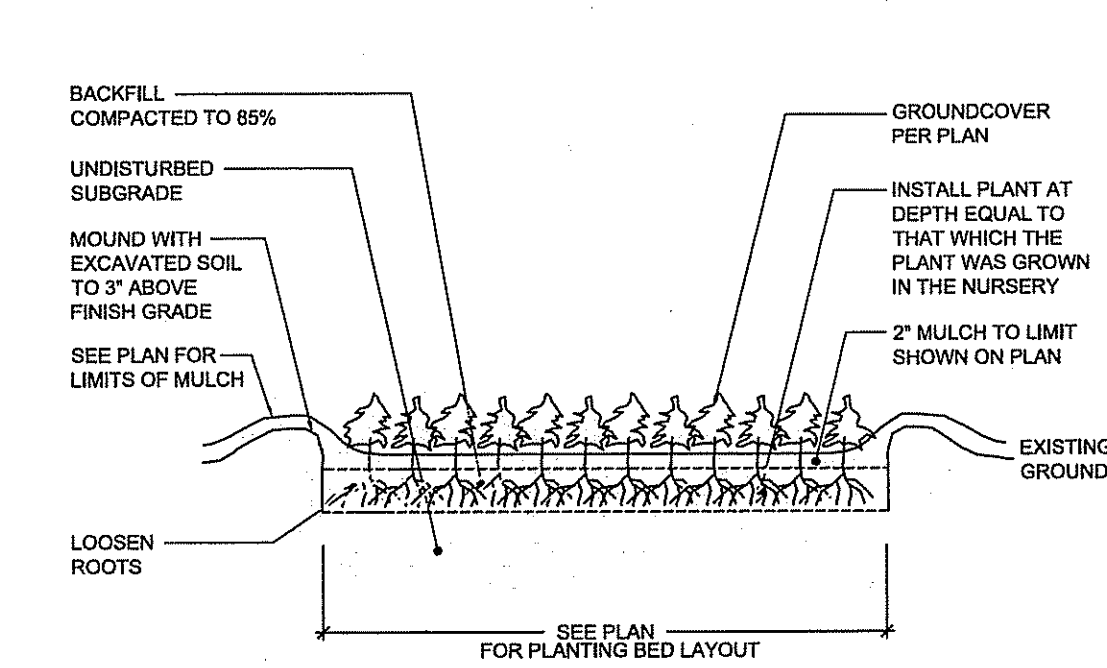
SHRUB PLANTING
SCALE: NOT TO SCALE



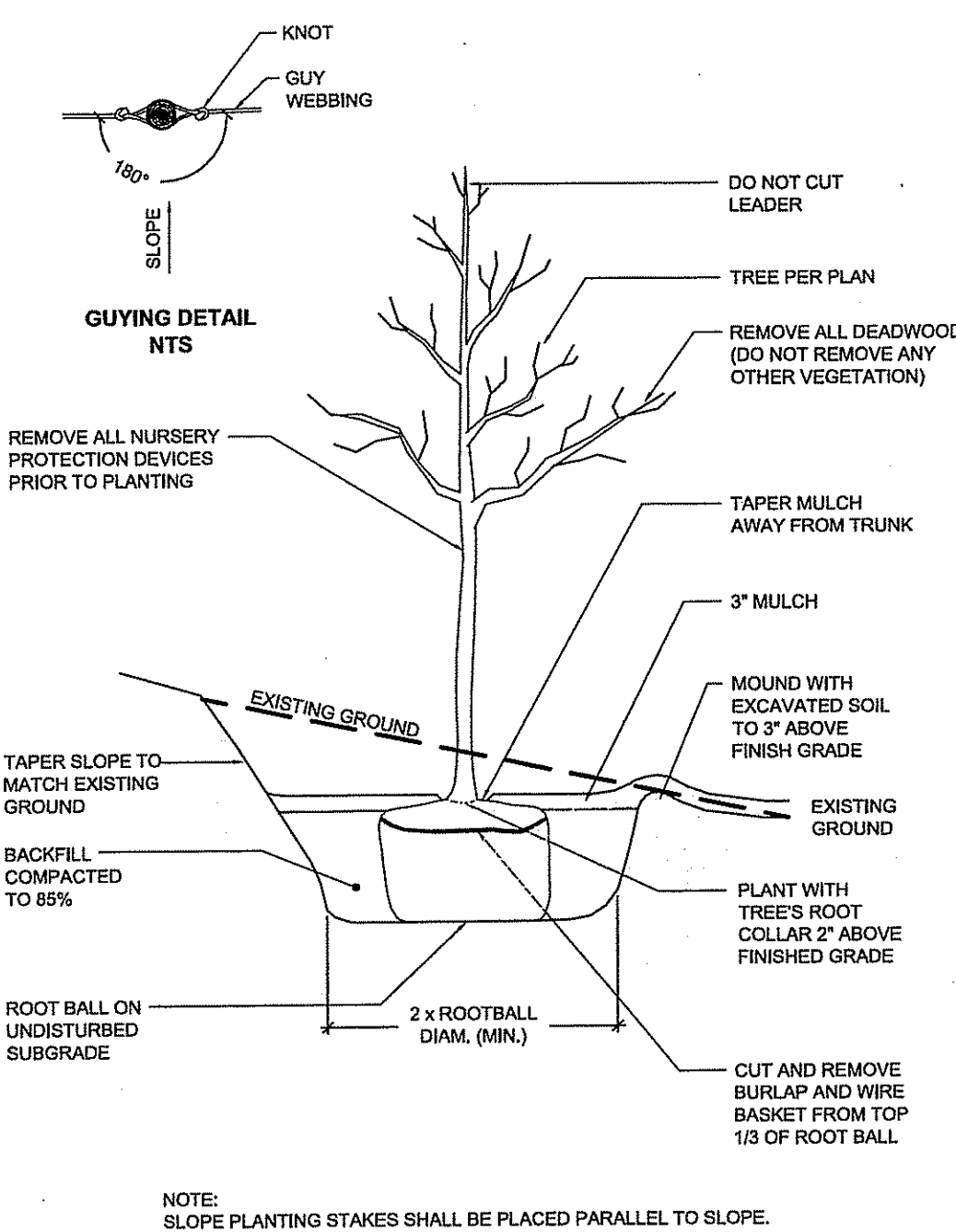
CONTAINER GROWN TREE & SHRUB PLANTING
SCALE: NOT TO SCALE



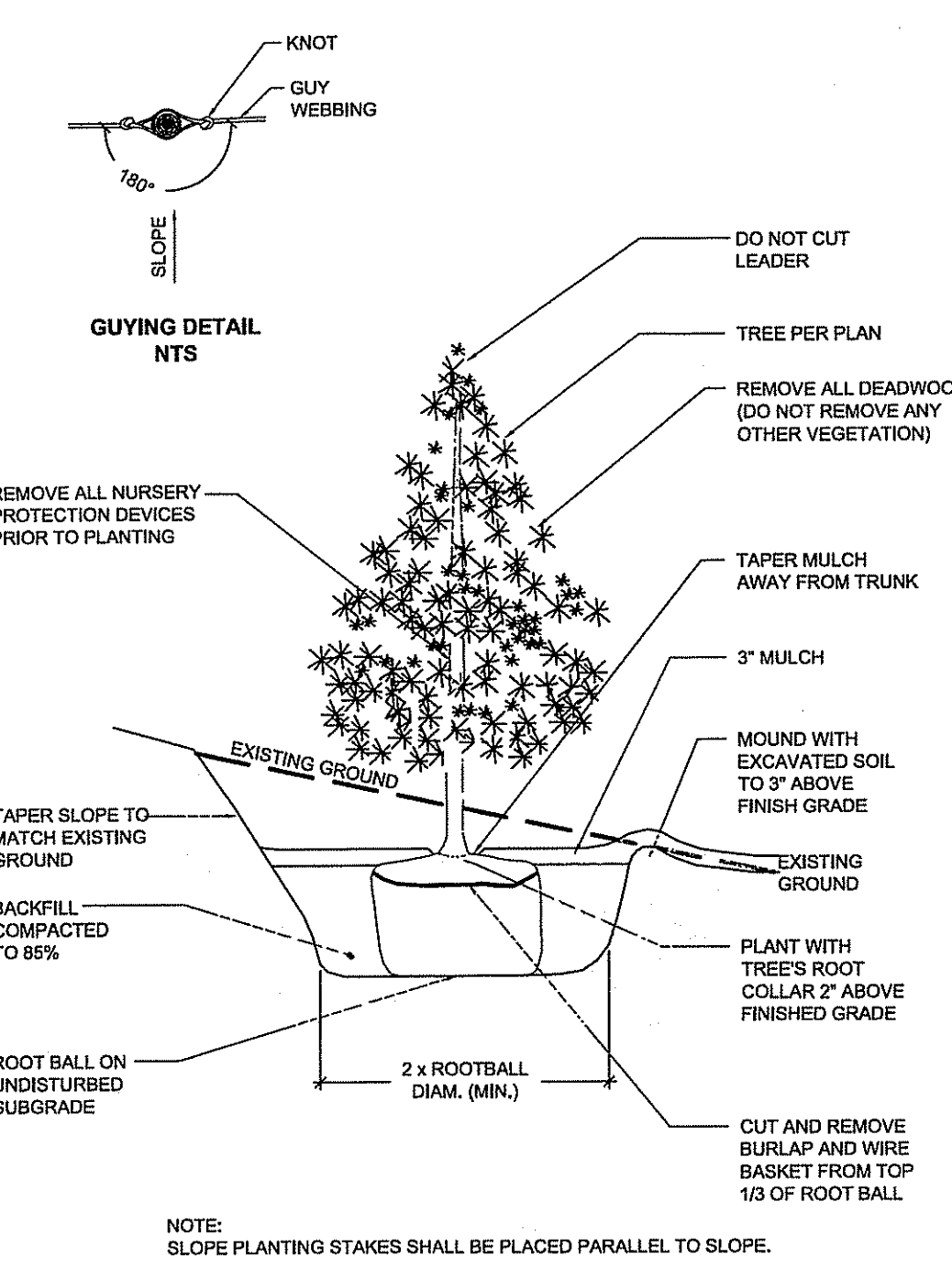
PERENNIAL & GRASS PLANTING
SCALE: NOT TO SCALE



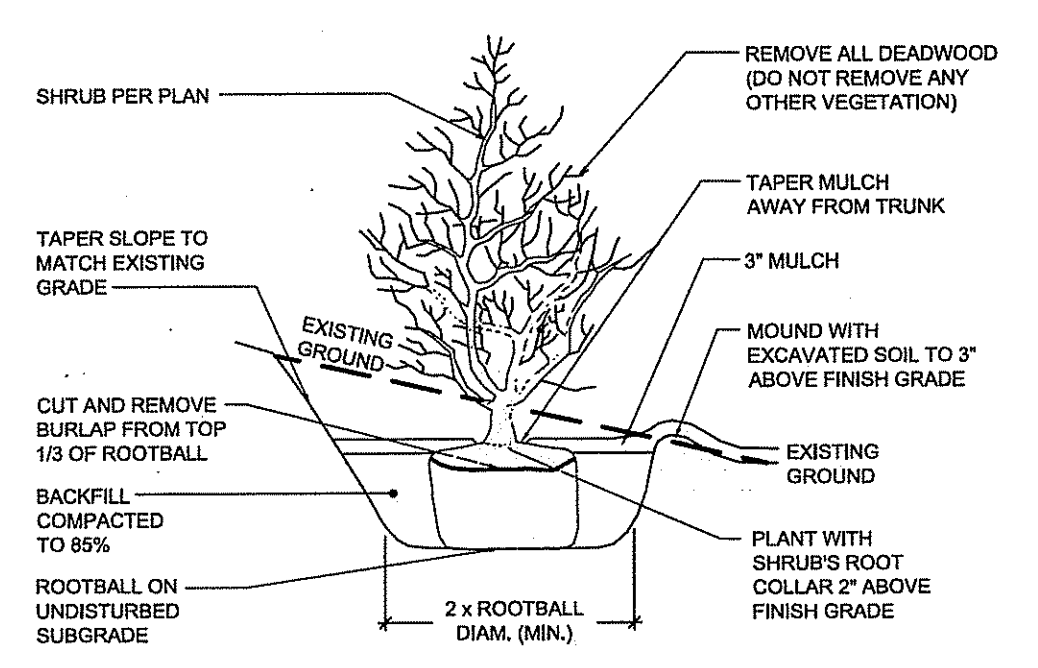
GROUNDCOVER PLANTING
SCALE: NOT TO SCALE



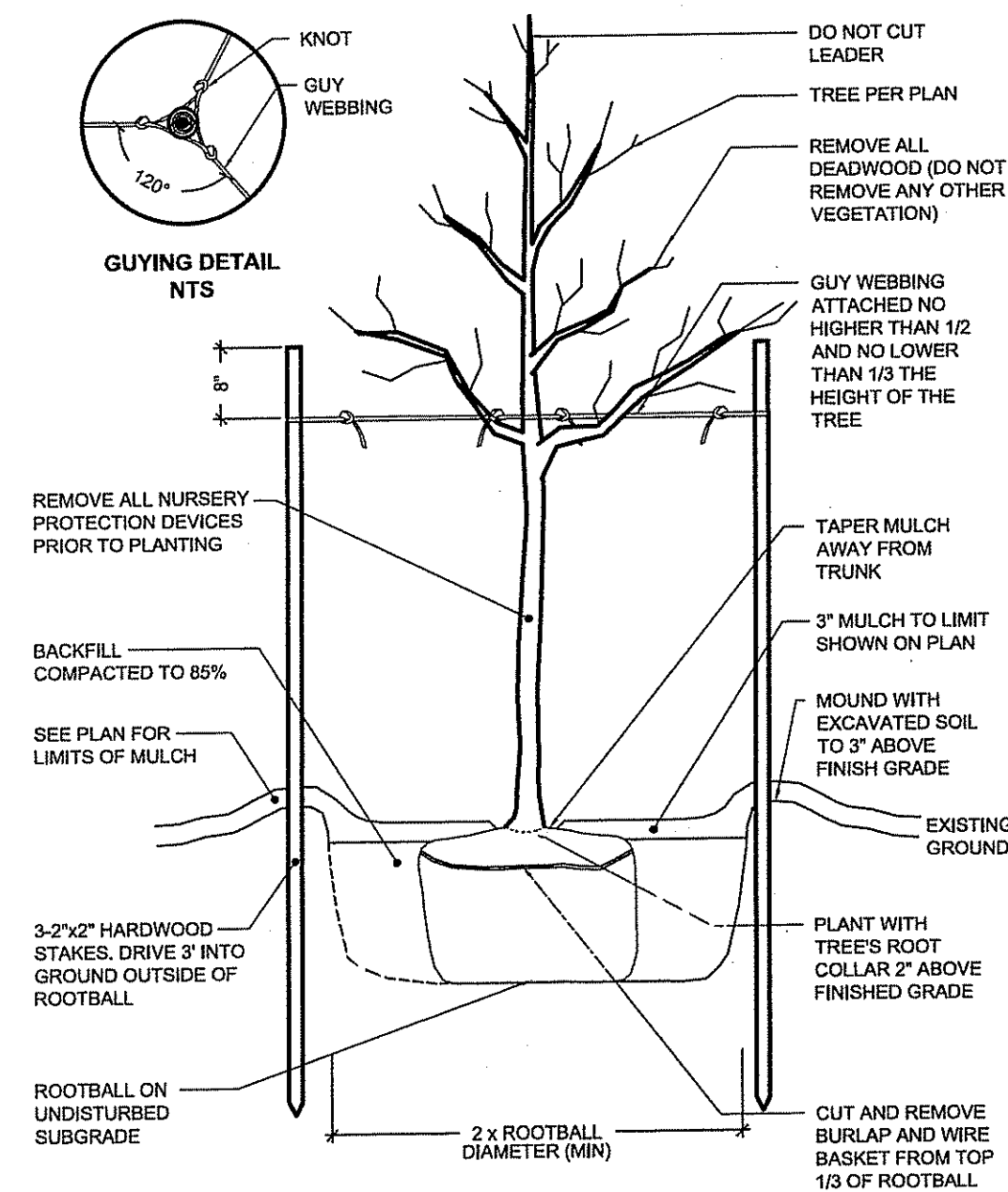
DECIDUOUS TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



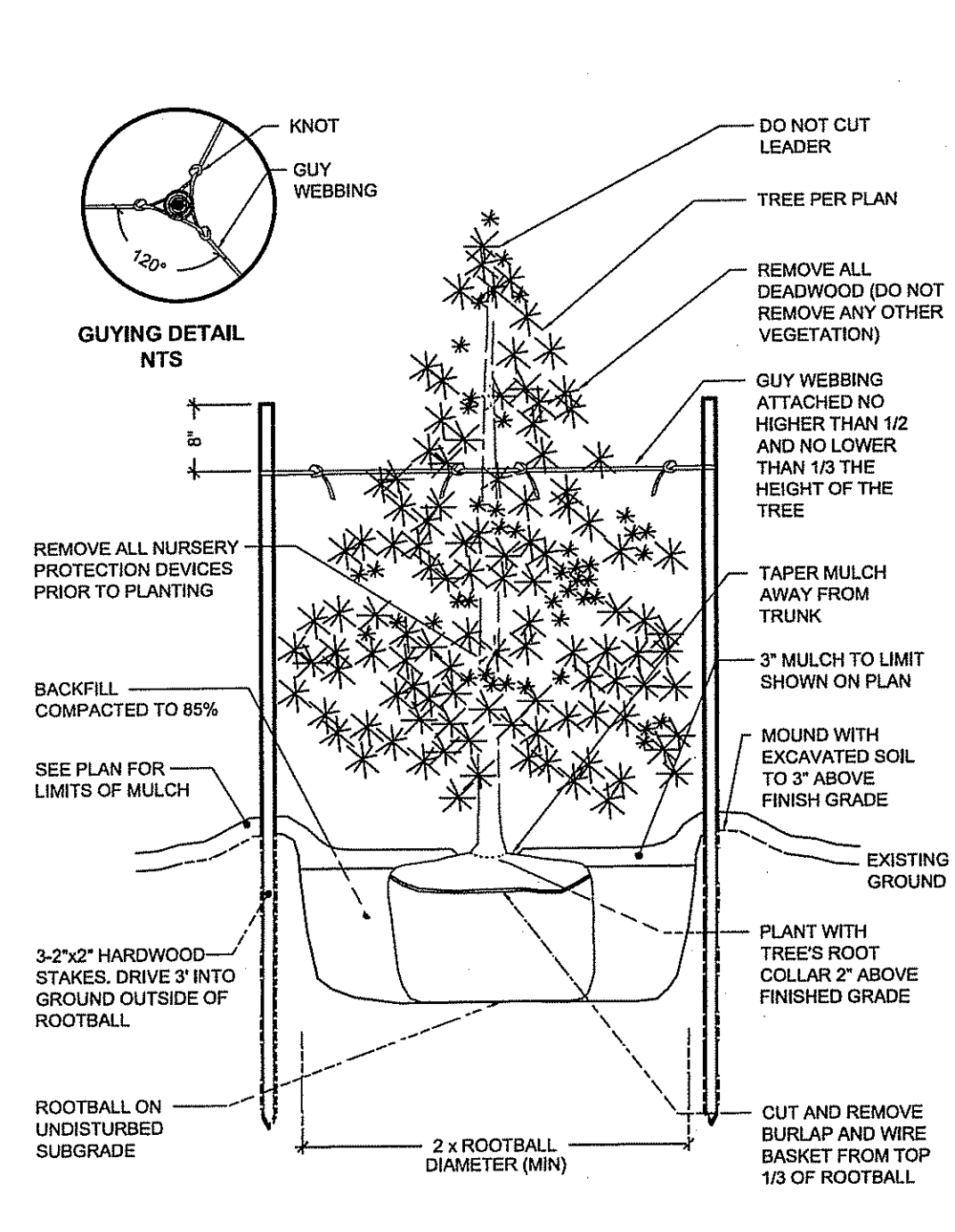
EVERGREEN TREE PLANTING ON SLOPE
SCALE: NOT TO SCALE



SHRUB PLANTING ON SLOPE
SCALE: NOT TO SCALE



DECIDUOUS TREE STAKING & PLANTING
SCALE: NOT TO SCALE

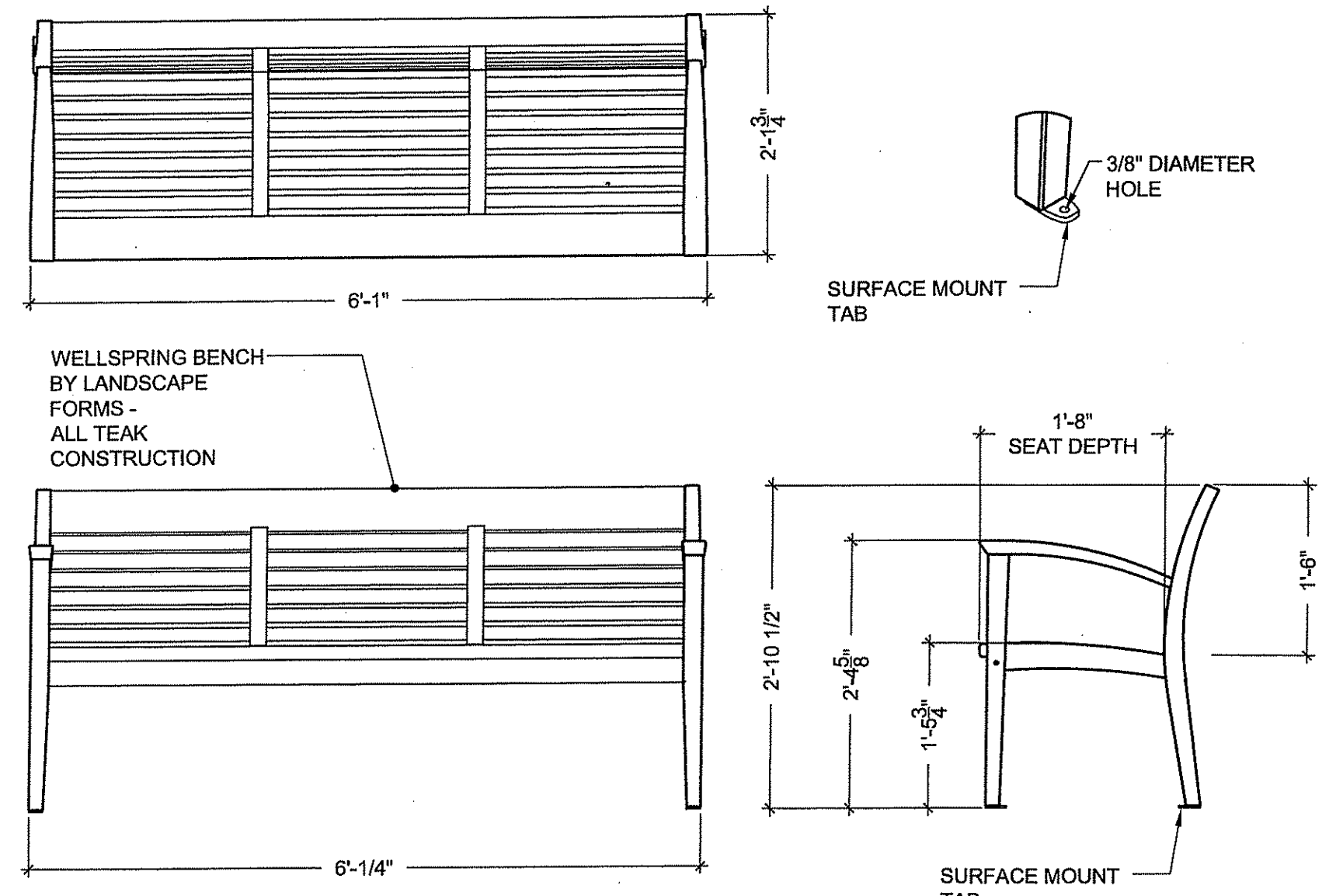


EVERGREEN TREE STAKING & PLANTING
SCALE: NOT TO SCALE

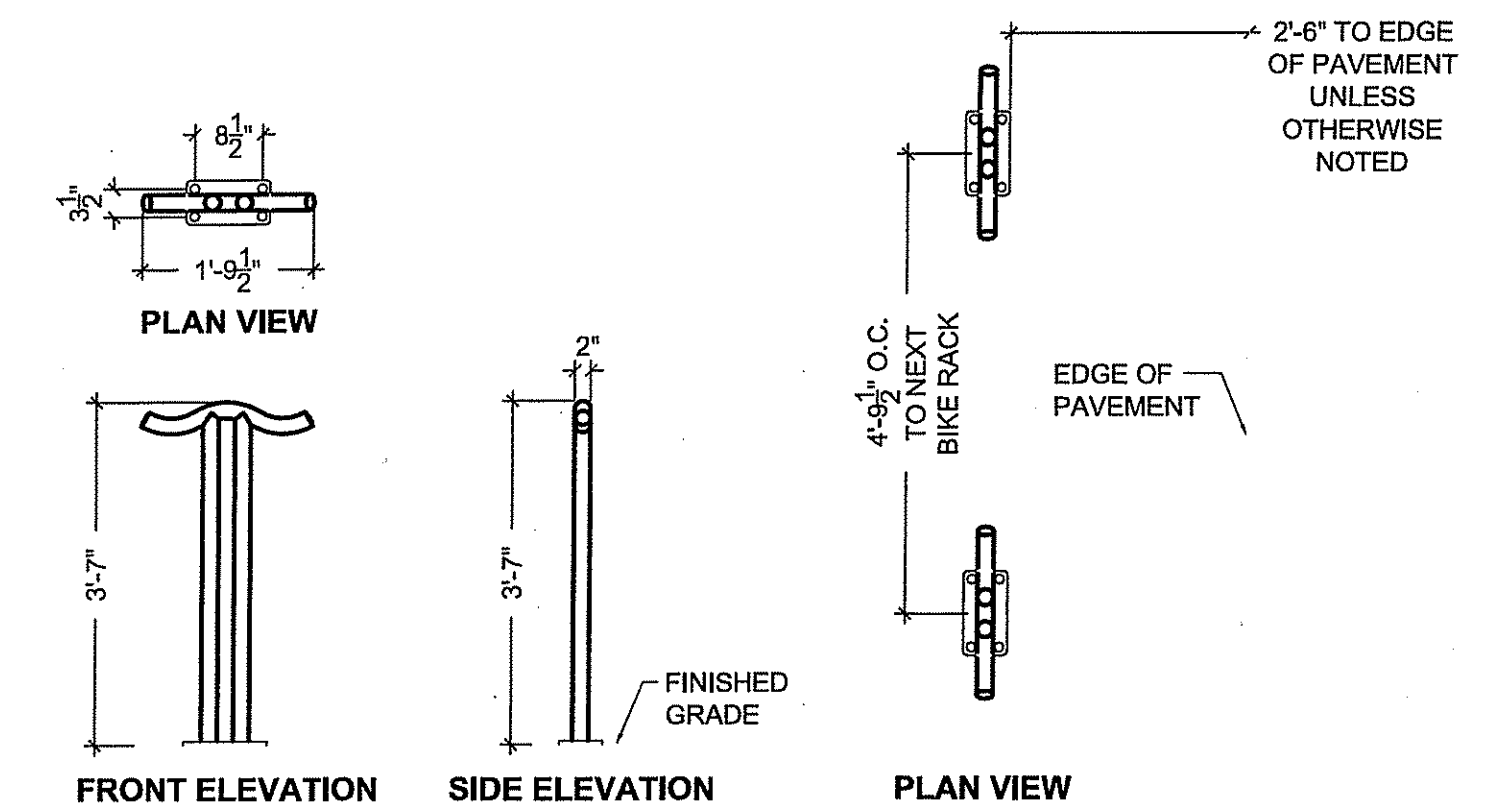


SHRUB PLANTING ON SLOPE
SCALE: NOT TO SCALE

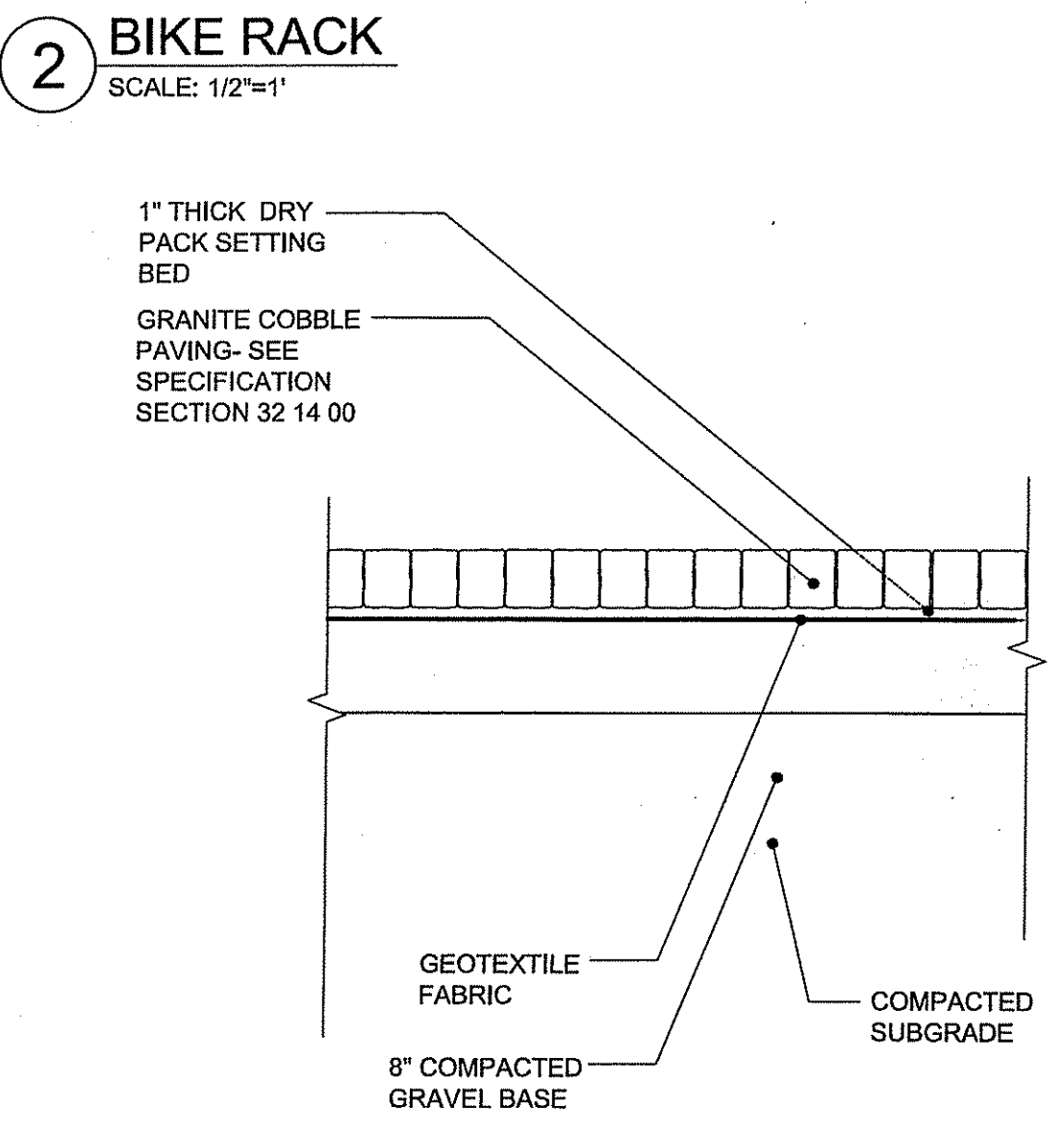
JUL 5 2013



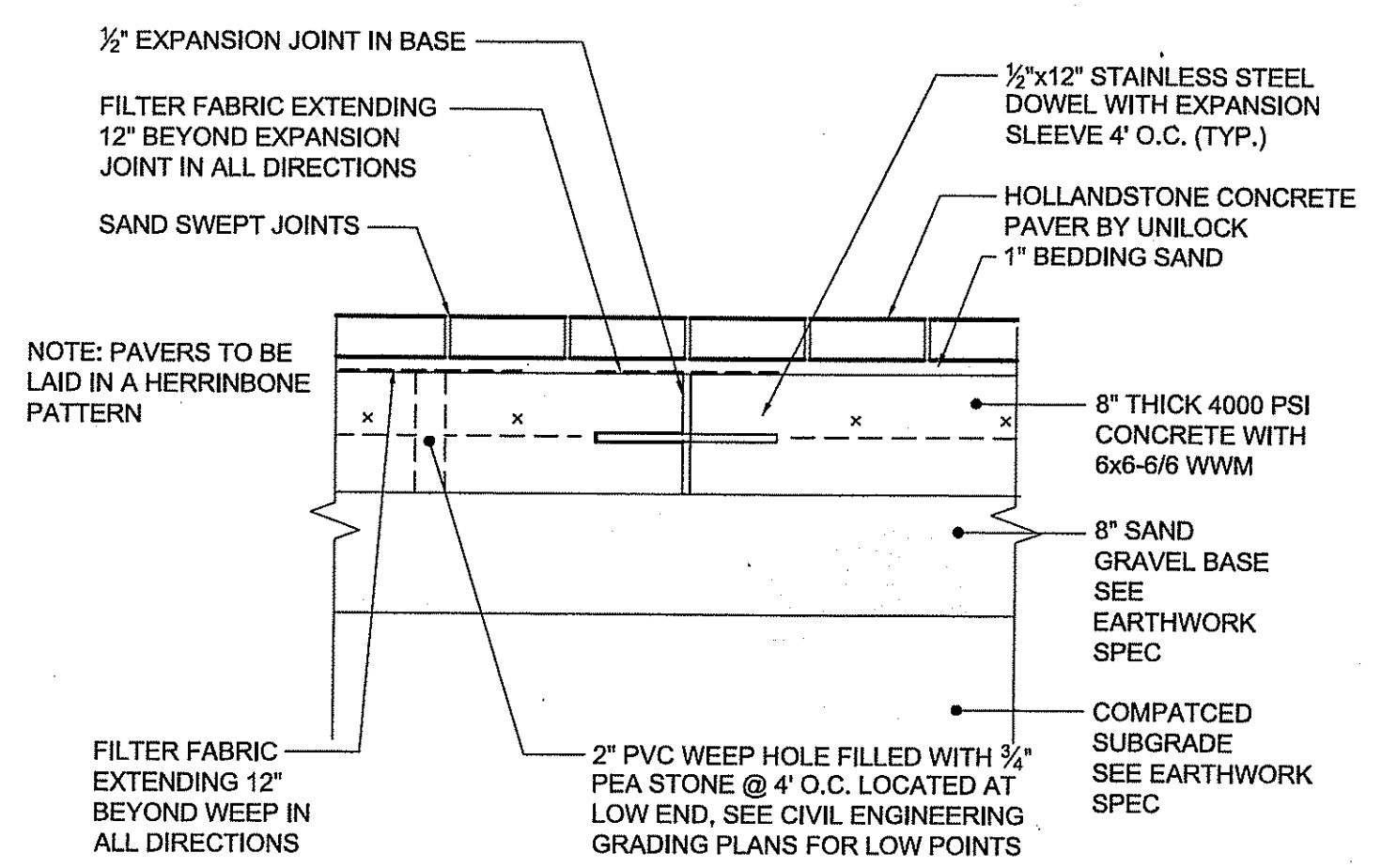
1 WOOD BENCH
SCALE: 3/4"=1'



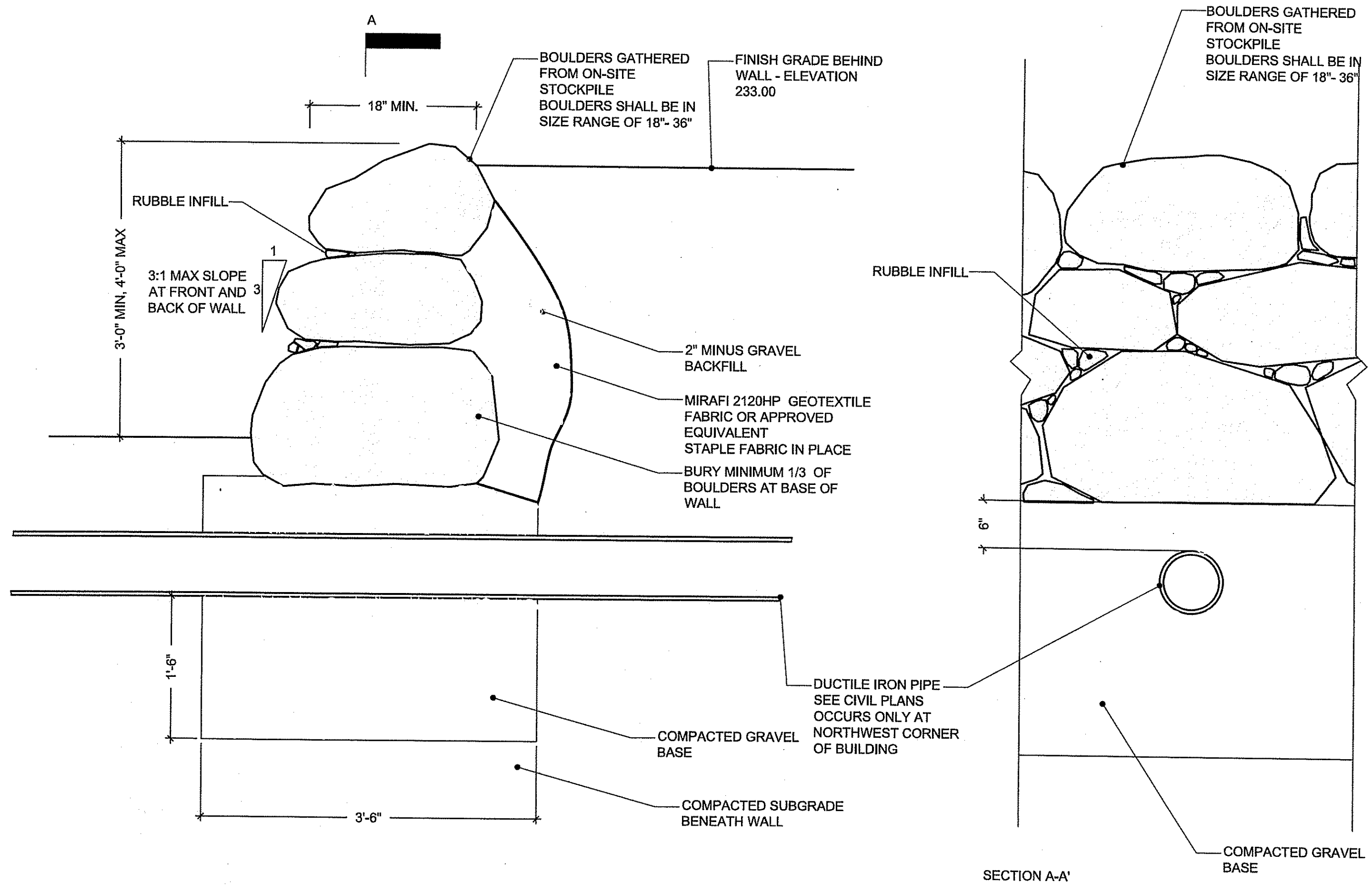
2 BIKE RACK
SCALE: 1/2"=1'



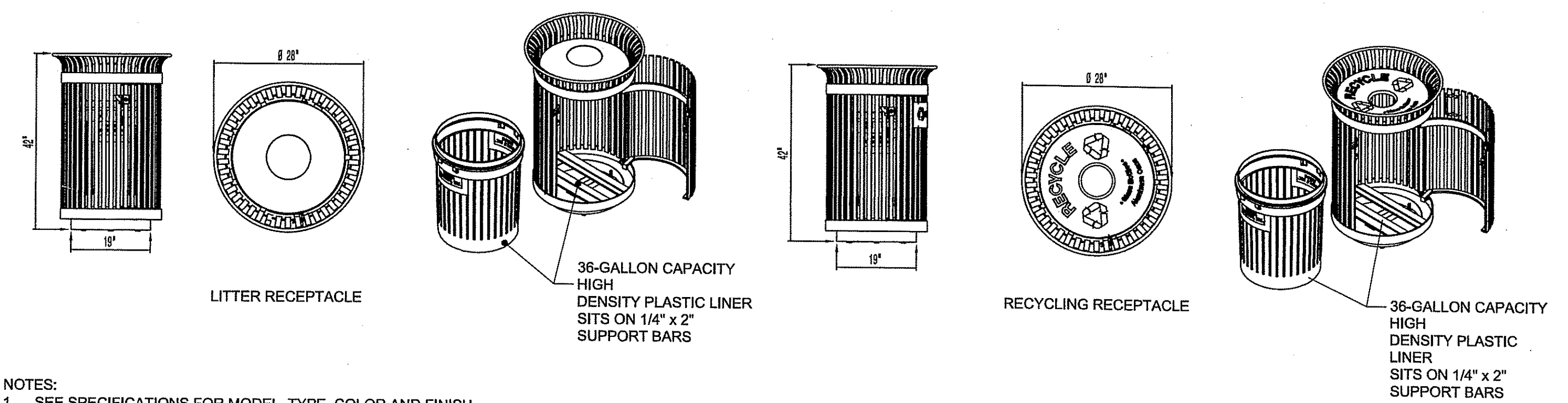
3 GRANITE COBBLE PAVING
SCALE: 3/4"=1'



5 CONCRETE UNIT PAVER
SCALE: 1"=1'

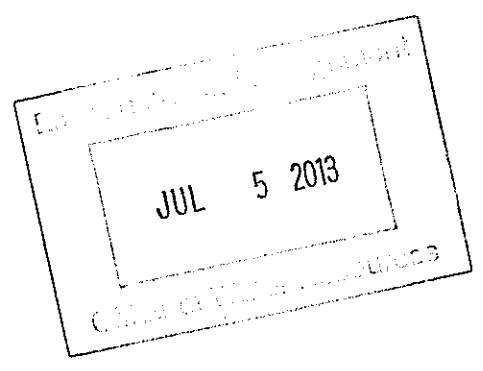


4 BOULDER WALL
SCALE: 1"=1'



6 LITTER & RECYCLING RECEPTACLES
SCALE: N.T.S.

NOTE:
-LANDSCAPE ARCHITECT TO APPROVE 20' LONG IN-PLACE MOCK-UP OF WALL PRIOR TO CONTRACTOR PROCEEDING WITH CONSTRUCTION.
-DUCTILE IRON PIPE OCCURS ONLY AT THE NORTHWEST CORNER OF BUILDING.



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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

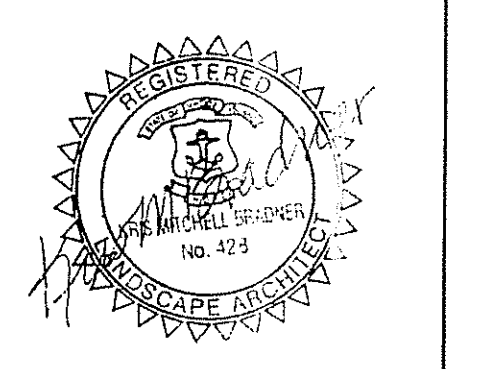
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100%
CONSTRUCTION DOCUMENTS

NO.	REVISION	SCHEDULE	DATE

JOB #: 12-0100
DATE: May 28, 2013
SCALE: As indicated

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HARDSCAPE DETAILS

L1.2