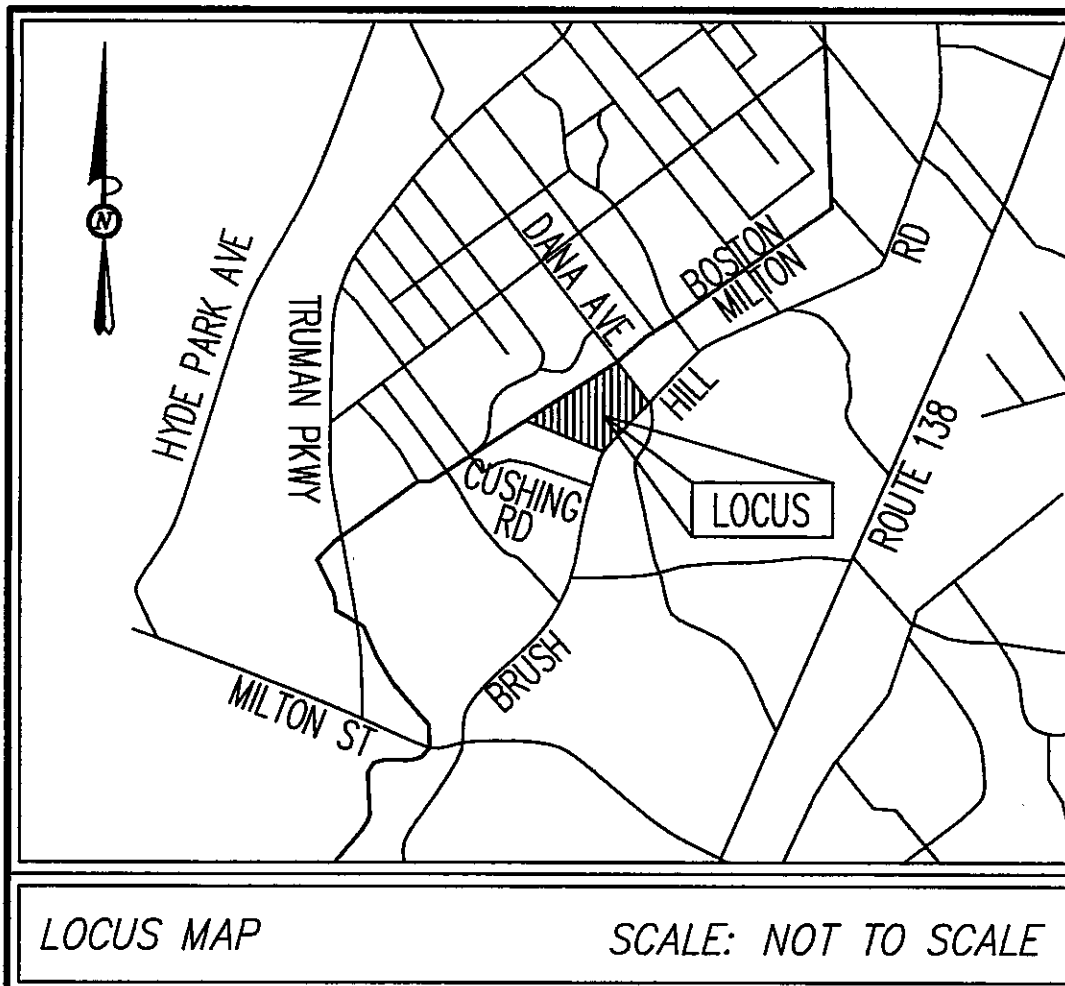




LOCUS MAP SCALE: NOT TO SCALE

WOODMERE AT BRUSH HILL

865 BRUSH HILL ROAD

(ASSESSORS MAP B 12, LOTS 2B, 8A & 8B)

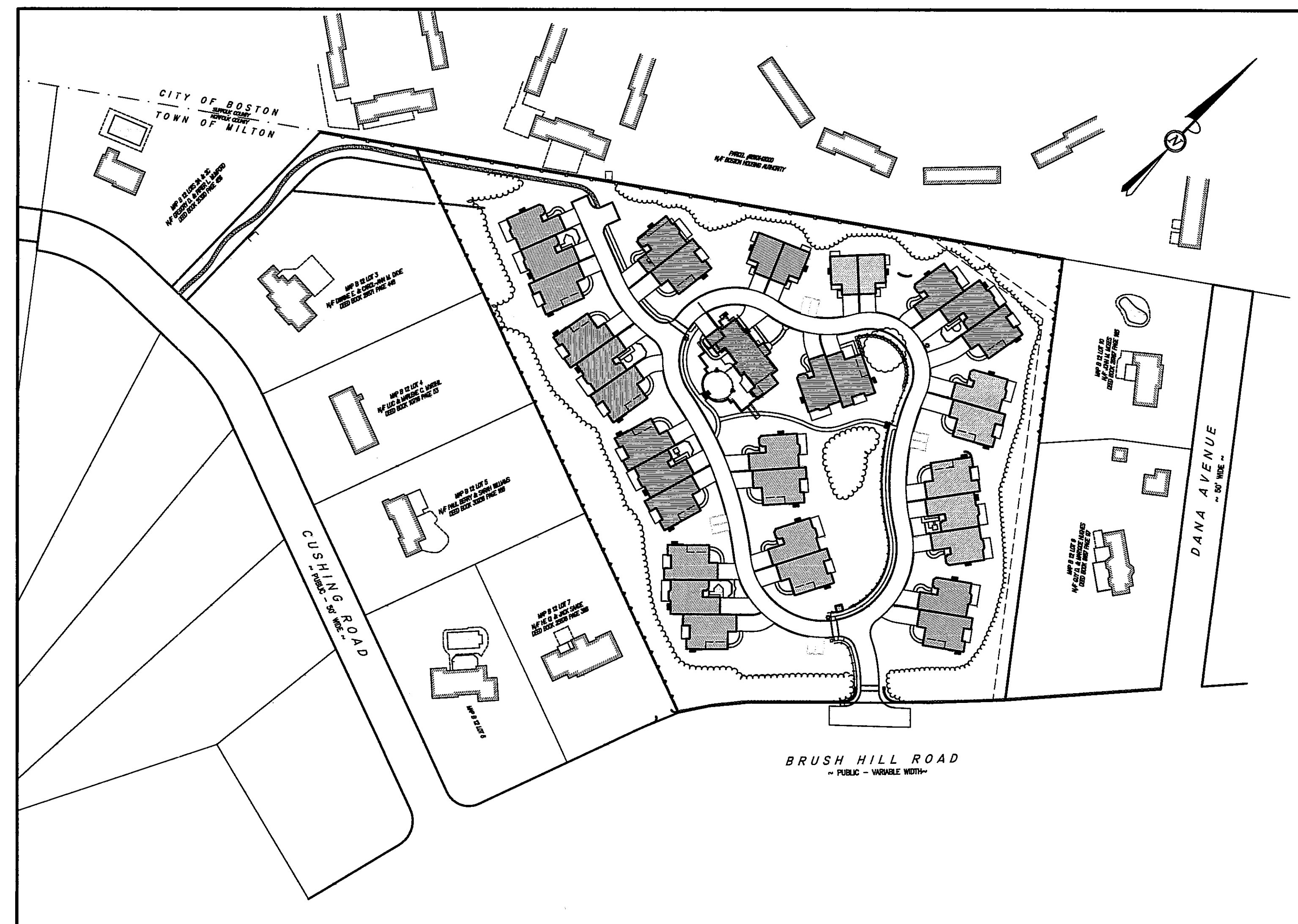
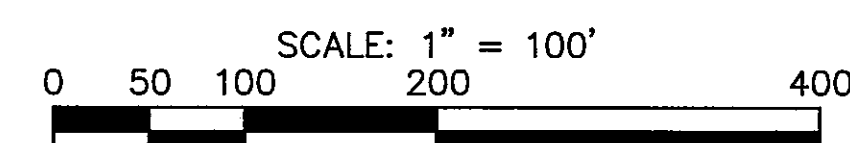
PLANNED UNIT TOWNHOUSE DEVELOPMENT

IN

MILTON, MASSACHUSETTS

Drawing Index:

No.	Drawing Title	Latest Issue
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30	TYPICAL BUILDING ELEVATIONS	--
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SCALE: 1" = 100'

Issued Date: May 13, 2015

• McKenzie Engineering Group, Inc. •
150 Longwater Drive, Suite 101, Norwell, Massachusetts 02061

Owner/Applicant:

Milton NRC, LLC
20 Mall Road, Suite 220
Burlington, MA 01803

Architect:

Grazado Velleco Architects
Little Harbor
10 Doaks Lane
Marblehead, MA 01945

Landscape Architect:

Ryan Associates Landscape
Architecture & Planning
Building 4
144 Moody Street
Waltham, MA 02454

Engineer/Surveyor:

McKenzie Engineering Group, Inc.
150 Longwater Drive, Suite 101
Norwell, MA 02061

REV	DATE	DESCRIPTION	BY	APP

PREPARED BY: **McKenzie Engineering Group, Inc.**

150 LONGWATER DRIVE
NORWELL, MA 02061
PHONE: (781) 788-3800
FACSIMILE: (781) 788-3583

PLANNED UNIT TOWNHOUSE DEVELOPMENT
865 BRUSH HILL ROAD
(ASSESSORS MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:
BRADLEY C. MCKENZIE
CIVIL
NO. 35917
REGISTERED

OWNER/APPLICANT:
Milton NRC, LLC
20 Mall Road
Suite 220
Burlington, MA 01803

DRAWN BY: JS
DESIGNED BY: DWK
CHECKED BY: DWK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: 1"=100'
PROJECT NO.: 214-122
DWG. TITLE:

Cover Sheet

DWG. No: **1**

ABAN	ABANDONED
ACBP	ASBESTOS CEMENT PIPE
ACR	ACCESSIBLE CURB RAMP
ADJ	ADJUST
APPROX	APPROXIMATE
ASPH	ASPHALT
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
B	BOLLARD
BD	BOUND
BLDG	BUILDING
T CONC	BITUMINOUS CONCRETE
BM	BENCHMARK
BS	BOTTOM OF SLOPE
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
C&C	CUT AND CAPPED
CB/DH	CONC. BOUND/DRILL HOLE
B/EPLP	CB/ESCUTCHEON
CCB	CAPE COD BERM
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
C	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDUIT
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CS	COMBINED SEWER
CSMH	COMBINED SEWER MANHOLE
CULV	CULVERT
A	DELTA A ANGLE
D	DRAIN
DCB	DOUBLE CATCH BASIN
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
E	ELECTRIC
ECC	EXTRUDED CONCRETE CURB
ELEV	ELEVATION
EMH	ELECTRIC MANHOLE
E/T/C	ELECTRIC, TELEPHONE, & CABLE TV
EW	END WALL
EXIST	EXISTING
FAB	FIRE ALARM BOX
FES	FLARED END SECTION
FND.	FOUND
FND	FOUNDATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
G	GAS
GD	GROUND
GG	GAS GATE
GIP	GALVANIZED IRON PIPE
GP	GUARD POST
GS	GAS SERVICE
GR	GRAD RAIL
GRAN.	GRANITE
HH	HANDHOLE
HOR	HORIZONTAL
HP	HIGH PRESSURE
HWL	HEADWALL
HYD	HYDRANT
INV	INVERT
I.P.	IRON PIN
I.R.	IRON ROD
L	LEAD
LP	LIGHT POLE
MAX	MAXIMUM
MC	METAL COVER
MH	MANHOLE
MHB	METAL HIGHWAY BOUND
MIN	MINIMUM
MLP	METAL LIGHT POLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE
PB	PULL BOX
PE	POLYETHYLENE PIPE
P	PROPERTY LINE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
ROW	RIGHT OF WAY
R	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SEWER
SB	STONE BOUND
SB/DH	STONE BOUND/DRILL HOLE
SGE	SLOPE GRANITE EDGING
SMH	SEWER MANHOLE
STA	STATION
SS	SEWER SERVICE
STL	STEEL
SW	SIDEWALK
T	TELEPHONE
TCH	TRAFFIC CONTROL BOX
TL	TRAFFIC LIGHT
TMB	TELEPHONE MANHOLE
Tr	TREE
TRANS	TRANSFORMER
TS	TOP OF SLOPE
TSV	TAPPING SLEEVE, VALVE AND BOX
TYP	TYPICAL
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VGC	VERTICAL GRANITE CURB
W	WATER MAIN
WG	WATER GATE

Existing	Proposed	Description
		SPOT ELEVATIONS
		TOP & BOTTOM ELEVATIONS
		SPOT ELEVATIONS WITH LEADER HAZARD AREA
		SPOT ELEVATIONS
		WATER GATE VALVE
		WELL
		GAS GATE
		ELECTRIC HANDHOLE
		LIGHT POLE
		UTILITY POLE
		GUY POLE
		GUY ANCHOR
		DRAIN MANHOLE
		SEWER MANHOLE
		CATCH BASIN
		DOUBLE CATCH BASIN
		TEST PIT
		BORING
		HANDICAP PARKING SPACE
		HANDICAP PARKING SPACE (VAN)
		SIGN SINGLE POST
		GRANITE OR CONCRETE BOUND
		WETLAND FLAG
		EXISTING BUILDING
		PROPOSED BUILDING
		MAJOR CONTOUR
		MINOR CONTOUR
		FENCE - OTHER
		CHAINLINK FENCE
		STOCKADE FENCE
		POST & WIRE FENCE
		POST & RAIL FENCE
		PICKET FENCE
		IRON FENCE
		GUARDRAIL - OTHER
		STEEL GUARDRAIL
		WOOD GUARDRAIL
		CABLE TV LINE
		ELECTRIC, TELEPHONE, CABLE TV DUCTBANK
		UNDERGROUND ELECTRIC
		OVERHEAD ELECTRIC
		NATURAL GAS LINE
		SANITARY SEWER MAIN
		SEWER FORCE MAIN
		DRAIN PIPE
		UNDERDRAIN
		ROOF DRAIN
		TELEPHONE LINE
		WATER MAIN
		FIRE PROTECTION LINE
		RETAINING WALL
		STONE WALL
		TREELINE
		EROSION CONTROL / LIMIT OF WORK



1. DEED REFERENCE: NORFOLK COUNTY REGISTRY OF DEEDS, DEED BOOK 32248, PAGE 318-322

2. ZONING: LOCUS IS SITUATED WITHIN THE "RESIDENCE A" ZONING DISTRICT PER THE TOWN OF MILTON ZONING MAP. MINIMUM AREA AND DIMENSIONAL REQUIREMENTS FOR ZONE RESIDENCE A (RA)

<u>CATEGORY</u>	<u>REQUIRED</u>
MINIMUM LOT AREA	40,000 S.F.
MINIMUM LOT FRONTAGE	150 FT.
MINIMUM FRONT YARD SETBACK	30 FT.
MINIMUM SIDE YARD SETBACK	15 FT.
MINIMUM REAR YARD SETBACK	30 FT.
MAXIMUM BUILDING COVERAGE	15%

3. OVERLAY DISTRICTS: LOCUS IS NOT SITUATED WITHIN ANY ZONING OVERLAY DISTRICTS ACCORDING TO THE MILTON ZONING MAP.

4. TAX MAP REFERENCE: LOCUS IS SHOWN AS LOTS 8A & 8B ON THE TOWN OF MILTON ASSESSOR'S MAP B 12.

5. AQUIFER PROTECTION: LOCUS IS NOT SITUATED WITHIN A WATER RESOURCE PROTECTION OVERLAY DISTRICT OR A DEP ZONE II: WELLHEAD PROTECTION AREA.

6. WETLANDS: THERE ARE NO KNOWN WETLAND RESOURCE AREAS ON OR NEAR THE SUBJECT PROPERTY.

7. FEMA: LOCUS DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 25021C0201E, WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 2012.

8. EXISTING CONDITIONS: EXISTING TOPOGRAPHIC INFORMATION AND PROPERTY LINES SHOWN HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY PERFORMED BY MCKENZIE ENGINEERING GROUP, INC. ON APRIL 7, 10, 11 & 12, 2014.

9. DATUM: ELEVATIONS SHOWN ARE REFERENCED TO THE TOWN OF MILTON DATUM. BENCHMARK TAKEN FROM A PLAN ENTITLED "TOWN OF MILTON, SEWER PLAN & PROFILE OF BRUSH HILL ROAD", SCALE: 1"=40', DATED: 1962, PROVIDED BY THE TOWN OF MILTON ENGINEERING DEPARTMENT.

10. EXISTING UTILITIES: UTILITY INFORMATION FROM ABOVE GROUND OBSERVED EVIDENCE IN CONJUNCTION WITH DIG SAFE MARKINGS AND RECORD PLANS. THE LAND SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LAND SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION AND CONSTRUCTION AS THE LAND SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. BEFORE CONSTRUCTION CALL DIG SAFE SYSTEMS, INC. AT 1-888-344-7233.

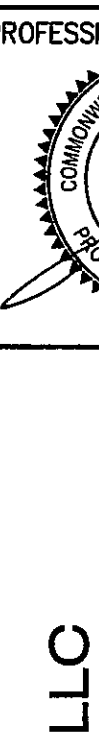
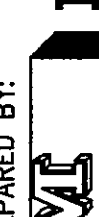
11. FIELD CHANGES: ANY CHANGE IN THE FIELD CONDITIONS SHOULD BE REPORTED TO THE ENGINEER TO ENSURE THAT ANY MODIFICATIONS TO THE ORIGINAL DESIGN ARE PROPER AND ADEQUATE TO SERVE THE PROJECT'S NEEDS, AND COMPLY WITH THE APPLICABLE STANDARDS AND REGULATIONS.

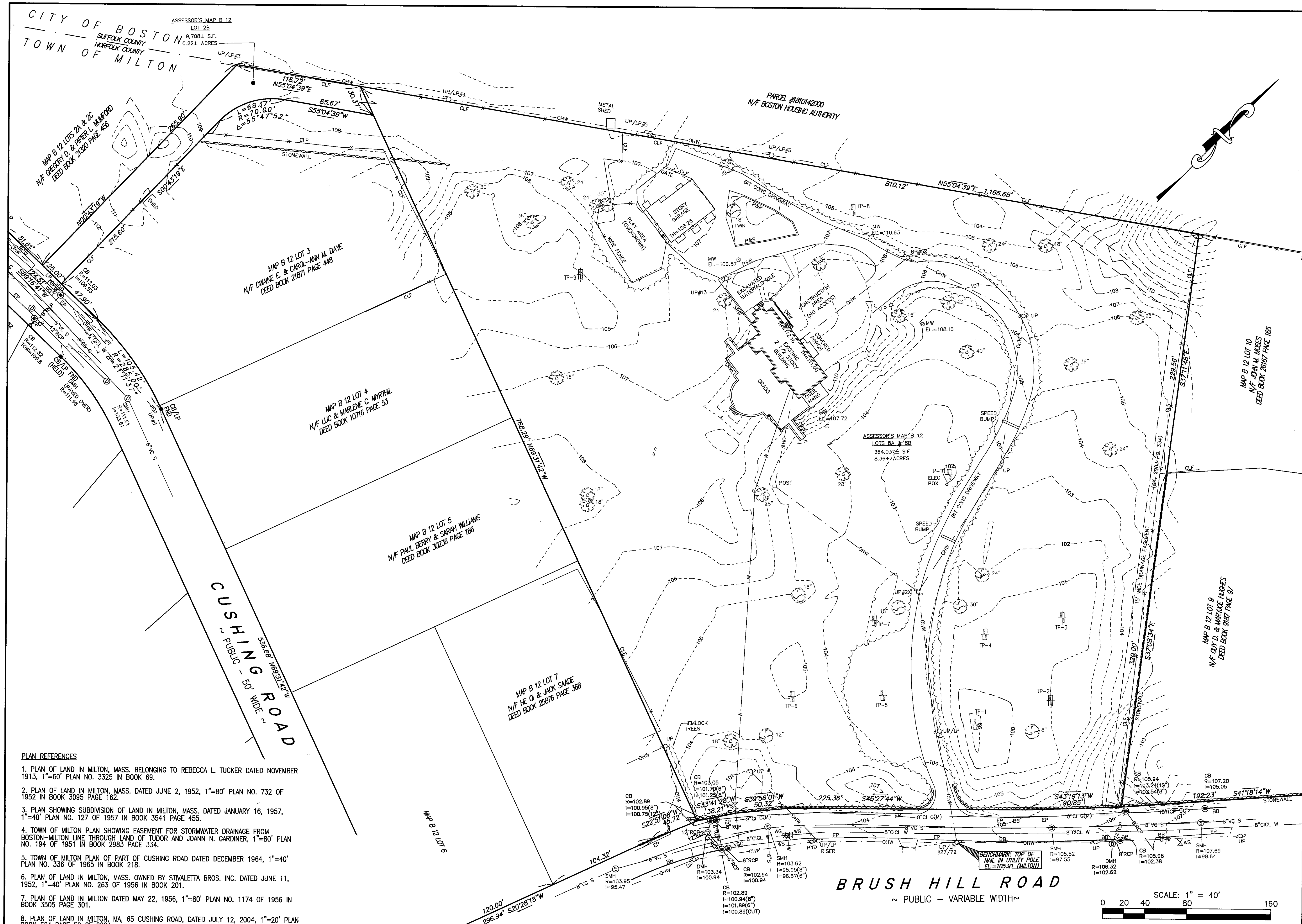
12. GENERAL CONSTRUCTION: ALL CONSTRUCTION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE TOWN OF MILTON PLANNING BOARD AND DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.

13. NHESP: THE SUBJECT PROPERTY DOES NOT FALL WITHIN THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM PRIORITY HABITAT AS SHOWN ON THE NATURAL HERITAGE ATLAS DATED OCTOBER 1, 2008.

<u>WAIVER</u>	<u>REQUIRED</u>	<u>PROPOSED</u>
SECTION 6.0 DESIGN STANDARDS		
6.1.1. DESIGN SPEEDS:	DESIGN SPEED FOR STREETS SHALL BE 30 MPH	MINIMUM DESIGN SPEED IS 20 MPH
6.1.7. CURVES:	MINIMUM CENTERLINE RADII = 150 FT.	MINIMUM CENTERLINE RADII = 65 FT. (ROAD B)
6.1.12. DEAD ENDS:	MAXIMUM DEAD END = 500 FT. SHALL TERMINATE IN A 50 FT RADIUS	MAXIMUM DEAD END = 1,041 FT. HAMMERHEAD TURNAROUND
7.4.1. CROSS SECTION	TYPICAL CROSS SECTION (APPENDIX A)	TYPICAL CROSS SECTION
7.4.3.4.	5" CROWN (3.57% CROSS SLOPE)	2.4" CROWN (2% CROSS SLOPE)
7.4.3.7.	6" ASPHALT CONCRETE	4" ASPHALT CONCRETE
7.4.5.2.	SIDEWALK CROSS SLOPE = 3/8" PER FOOT	SIDEWALK CROSS SLOPE = 1/4" PER FOOT
7.4.6.1.	4'-6" GRASS STRIP BETWEEN CURB AND SIDEWALK	4'-0" GRASS STRIP BETWEEN CURB AND SIDEWALK
7.4.6.2.	8" LOAM AND SEED	6" LOAM AND SEED
7.5.2. LOCATIONS OF WATER MAINS	MAINS TO BE 14 FT OFF STREET LINE ON OPPOSITE SIDE OF THE STREET FROM THE DRAINAGE SYSTEM	VARIES AS SHOWN ON PLANS
8.2. PIPE	PIPE MATERIAL - VC, RCP, OR CMP, 3 FT. MINIMUM PIPE COVER	PIPE MATERIAL HDPE, 1.5 FT. MINIMUM PIPE COVER
10.4. STREET LIGHTING	STREET LIGHTING SHALL HAVE A HEIGHT OF 15 FT. OR MORE AS APPROVED BY THE BOARD.	STREET LIGHTING SHALL HAVE A HEIGHT OF 10 FT.

<u>SECTION:</u>	<u>REQUIRED:</u>	<u>PROPOSED:</u>
MINIMUM LOT AREA (EXCLUSIVE OF WETLANDS):	370,000 SQUARE FEET	373,745 SQUARE FEET
MINIMUM FRONTAGE:	400 FEET	404.74 FEET
MINIMUM LOT LINE IN COMMON WITH MULTI-FAMILY HOUSING DEVELOPMENT:	400 FEET±	928.84 FEET
MINIMUM NUMBER OF UNITS IN ADJOINING HOUSING DEVELOPMENT:	40 DWELLING UNITS	202 DWELLING UNITS
FRONT YARD SETBACK:	60 FEET	61.64 FEET
SIDE YARD SETBACK:	35 FEET	37.09 FEET
REAR YARD SETBACK:	30 FEET	30.70 FEET
HEIGHT (TOWNHOUSE UNITS):	2 STORIES/35' MAXIMUM	2 STORIES/35' MAXIMUM
HEIGHT (PRE-1925 DWELLING):	ORIGINAL HEIGHT	ORIGINAL HEIGHT
MAXIMUM LIVING AREA PER UNIT:	3,000 SQUARE FEET	LESS THAN 3,000 SQUARE FEET
MINIMUM OPEN LAND:	30%	32.3%
DENSITY:	4 UNITS/ACRE	36 (4.5 UNITS/ACRE WITH BONUSES)
AFFORDABLE UNITS:	10% ROUNDED TO NEAREST WHOLE NUMBER	4 UNITS
PARKING:	AS DETERMINED TO BE NECESSARY	72 GARAGE

OWNER/APPLICANT: Milton NRC, LLC 20 Mall Road Suite 220 Burlington, MA 01803		PROFESSIONAL ENGINEER:		PLANNED UNIT TOWNHOUSE DEVELOPMENT 865 BRUSH HILL ROAD (ASSESSOR'S MAP B 12, LOTS 8A, 8B & 2B) MILTON, MASSACHUSETTS	 McKenzie Engineering Group, Inc. 180 LONGWATER DRIVE SUITE 101 NORFOLK, MASSACHUSETTS 01901 PHONE: (781) 786-3600 FACSIMILE: (781) 786-0333	REV	DATE	DESCRIPTION	BY	APP
						-	-	-	-	-
DRAWN BY: JS		DESIGNED BY: DWK								
CHECKED BY: DWK		APPROVED BY: BCM								
DATE: MAY 13, 2015		SCALE: NTS								
PROJECT NO.: 214-122		DWG. TITLE:								
Legend, Symbols, & General Notes		DWG. No:								
		2								

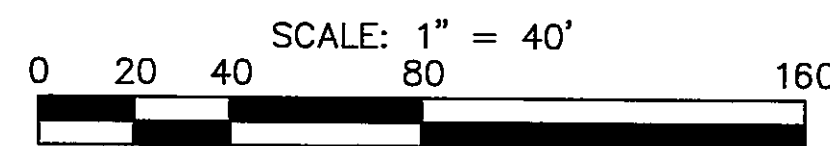


PLAN REFERENCES

1. PLAN OF LAND IN MILTON, MASS. BELONGING TO REBECCA L. TUCKER DATED NOVEMBER 1913, 1"=60' PLAN NO. 3325 IN BOOK 69.
2. PLAN OF LAND IN MILTON, MASS. DATED JUNE 2, 1952, 1"=80' PLAN NO. 732 OF 1952 IN BOOK 3095 PAGE 162.
3. PLAN SHOWING SUBDIVISION OF LAND IN MILTON, MASS. DATED JANUARY 16, 1957, 1"=40' PLAN NO. 127 OF 1957 IN BOOK 3541 PAGE 455.
4. TOWN OF MILTON PLAN SHOWING EASEMENT FOR STORMWATER DRAINAGE FROM BOSTON-MILTON LINE THROUGH LAND OF TUDOR AND JOANN N. GARDINER, 1"=80' PLAN NO. 194 OF 1951 IN BOOK 2983 PAGE 334.
5. TOWN OF MILTON PLAN OF PART OF CUSHING ROAD DATED DECEMBER 1964, 1"=40' PLAN NO. 336 OF 1965 IN BOOK 218.
6. PLAN OF LAND IN MILTON, MASS. OWNED BY STIVALETTA BROS. INC. DATED JUNE 11, 1952, 1"=40' PLAN NO. 263 OF 1956 IN BOOK 201.
7. PLAN OF LAND IN MILTON DATED MAY 22, 1956, 1"=80' PLAN NO. 1174 OF 1956 IN BOOK 3505 PAGE 301.
8. PLAN OF LAND IN MILTON, MA, 65 CUSHING ROAD, DATED JULY 12, 2004, 1"=20' PLAN BOOK 524 PAGE 52 OF 2004.

BRUSH HILL ROAD

~ PUBLIC - VARIABLE WIDTH ~

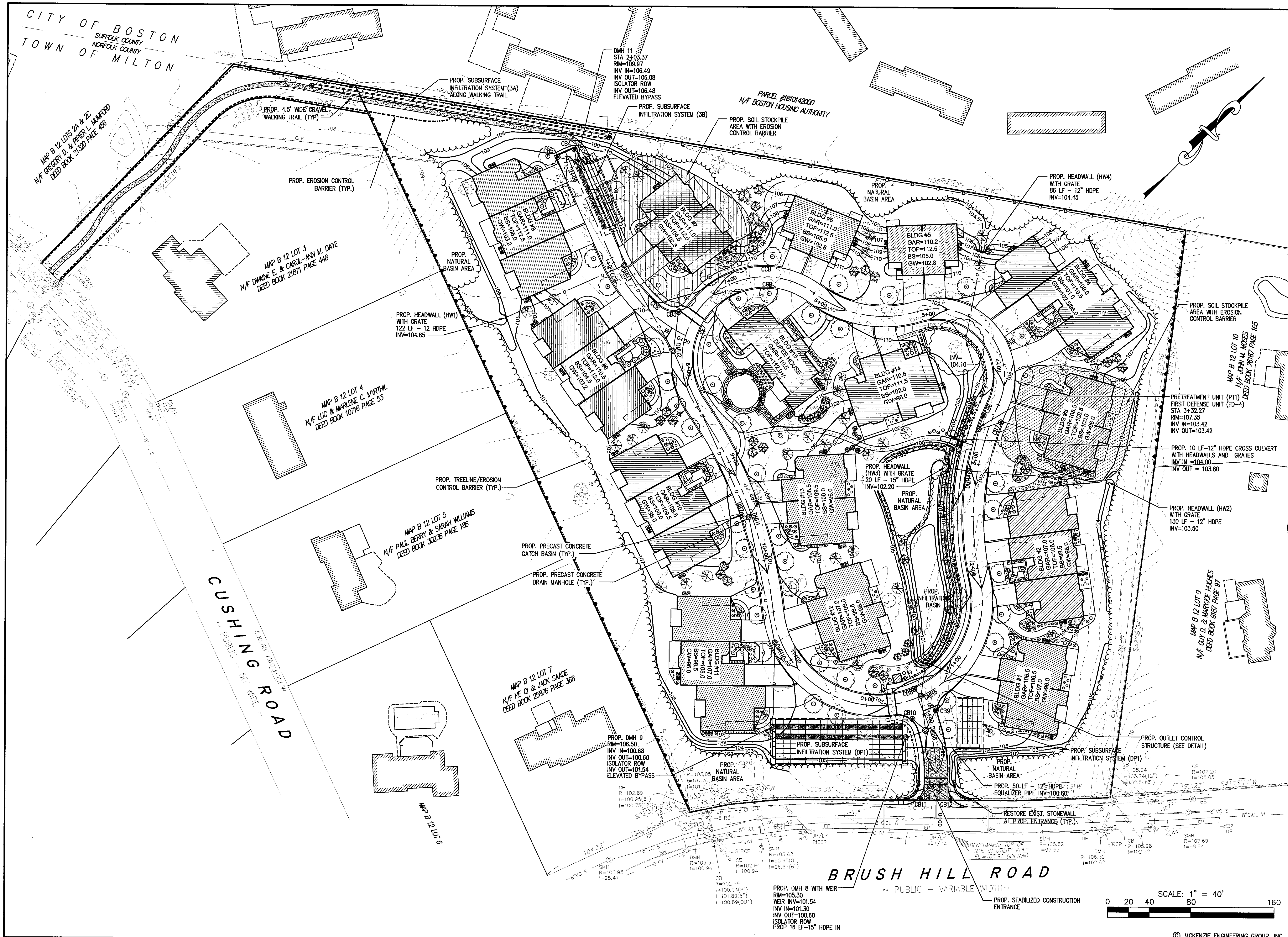


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FILE LOCATION: M:\MEG\2014 Projects\214-122\DWGS\214-122Prop.DWG

PREPARED BY:	DATE:	REV:	DESCRIPTION:	BY:
McKenzie Engineering Group, Inc.				
180 LONGWATER DRIVE NORWELL, MA 02061 PHONE: (781) 782-9800 FACSIMILE: (781) 782-0335				
PROFESSIONAL LAND SURVEYOR:				
OWNER/APPLICANT:				
Milton NRC, LLC 20 Mail Road Suite 220 Burlington, MA 01803				
DRAWN BY:				
DESIGNED BY:				
CHECKED BY:				
APPROVED BY:				
DATE:				
SCALE:				
PROJECT NO.:				
DWG. TITLE:				
Existing Conditions Plan				
DWG. No.:				
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McKenzie Engineering Group, Inc.
180 LONGWATER DRIVE
NORFOLK COUNTY, MA 01901
PHONE: (978) 785-3800
FACSIMILE: (978) 785-3355

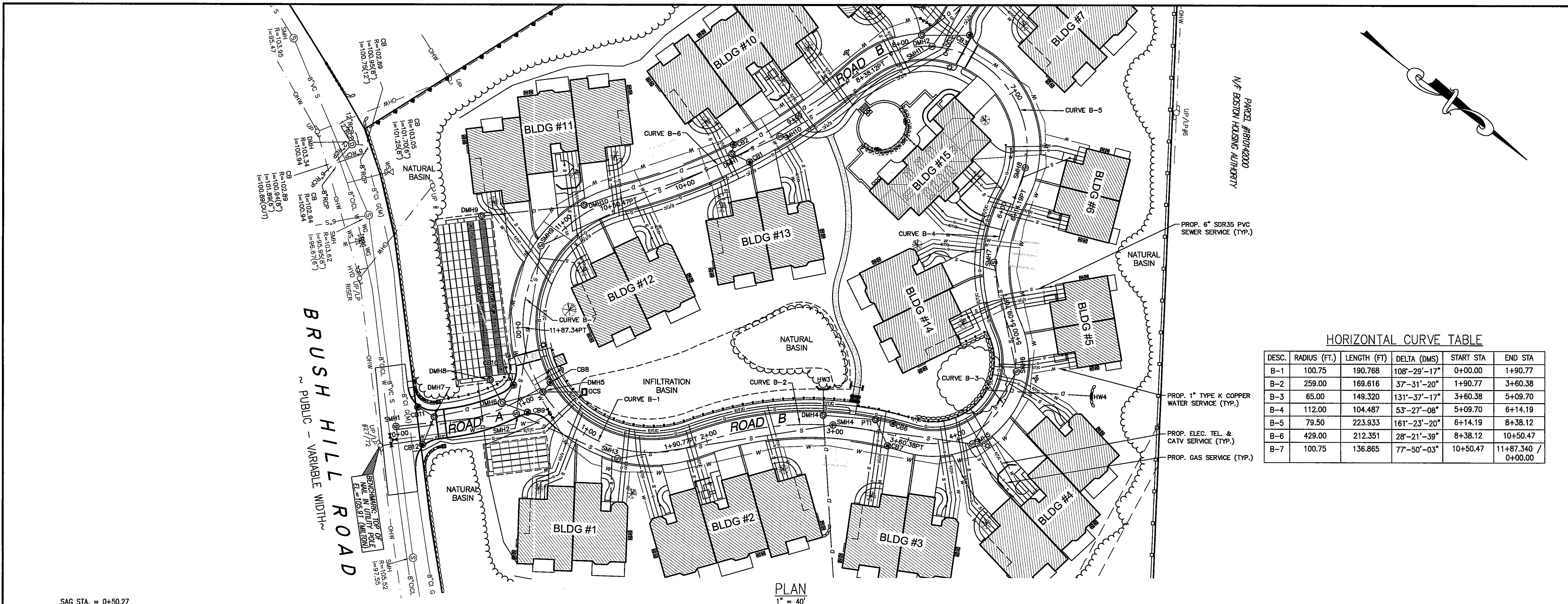
PLANNED UNIT TOWNHOUSE DEVELOPMENT
865 BRUSH HILL ROAD
(ASSESSORS MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PERMIT PLAN SET

OWNER/APPLICANT:
Milton NRC, LLC
20 Mail Road
Suite 220
Burlington, MA 01803

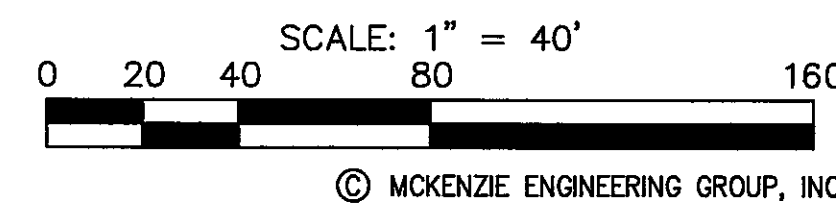
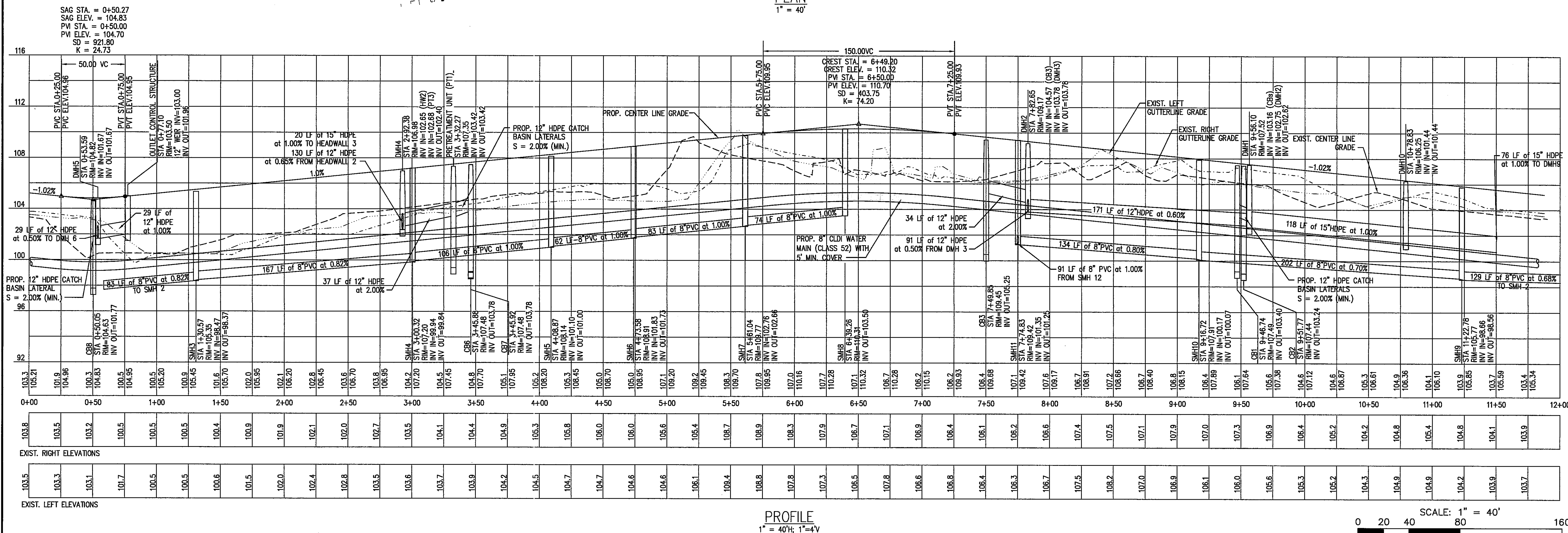
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DESIGNED BY: DWK
CHECKED BY: DWK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: 1"=40'
PROJECT NO.: 214-122
DWG. TITLE: Grading & Drainage Plan

DWG. No: **5**



HORIZONTAL CURVE TABLE

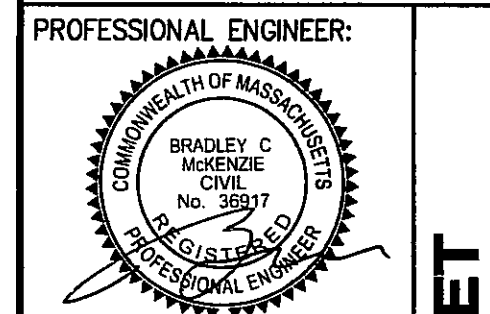
DESC.	RADIUS (FT.)	LENGTH (FT)	DELTA (DMS)	START STA	END STA
B-1	100.75	190.768	108°-29'-17"	0+00.00	1+90.77
B-2	259.00	169.616	37°-31'-20"	1+90.77	3+60.38
B-3	65.00	149.320	131°-37'-17"	3+60.38	5+09.70
B-4	112.00	104.487	53°-27'-08"	5+09.70	6+14.19
B-5	79.50	223.933	161°-23'-20"	6+14.19	8+38.12
B-6	429.00	212.351	28°-21'-39"	8+38.12	10+50.47
B-7	100.75	136.865	77°-50'-03"	10+50.47	11+87.340 / 0+00.00



PREPARED BY: **McKenzie Engineering Group, Inc.**

180 LONGFORD DRIVE
NORWELL, MA 02061
PHONE: (781) 792-8800
FACSIMILE: (781) 792-0335

PLANNED UNIT TOWNHOUSE DEVELOPMENT
865 BRUSH HILL ROAD
 (ASSESSOR'S MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS



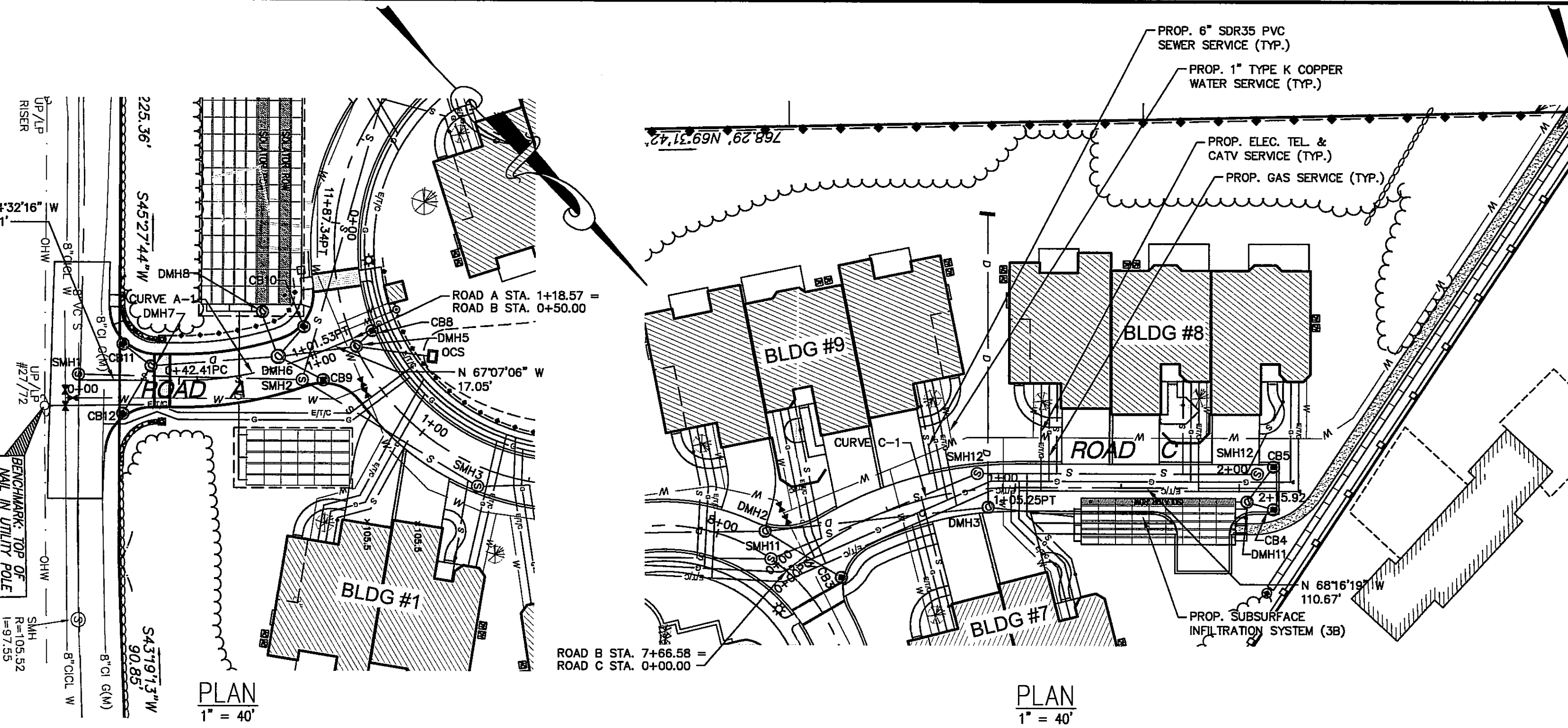
OWNER/APPLICANT:
Milton NRC, LLC
 20 Mail Road
 Suite 220
 Burlington, MA 01803

DRAWN BY: **DMK**
 DESIGNED BY: **DMK**
 CHECKED BY: **DMK**
 APPROVED BY: **BCM**
 DATE: **MAY 13, 2015**
 SCALE: **1"=40'**
 PROJECT NO.: **214-122**
 DWG. TITLE:

Roadway Plan & Profile

DWG. No.: **6**

BRUSH HILL ROAD
~ PUBLIC - VARIABLE WIDTH ~

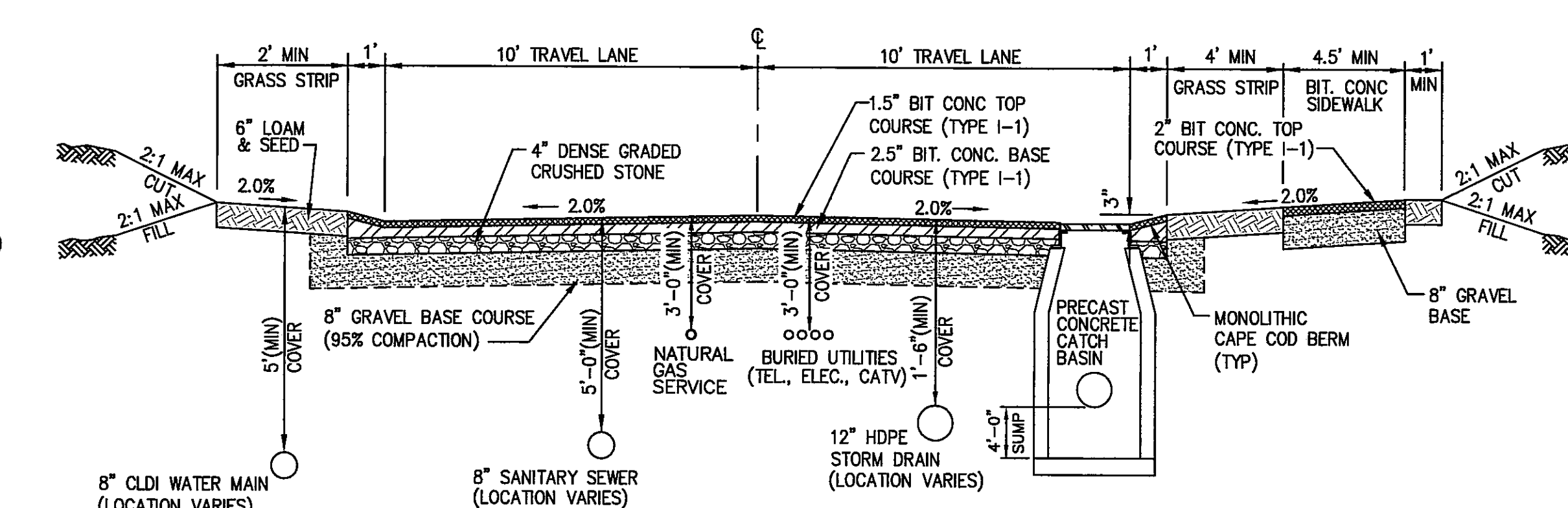
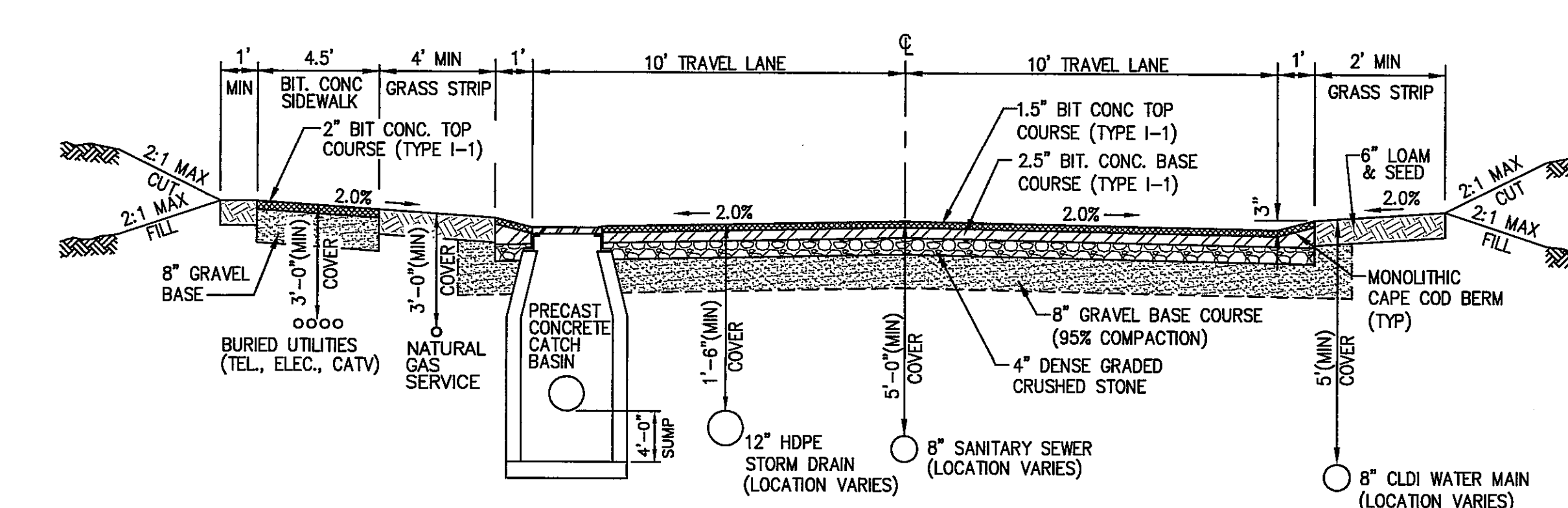
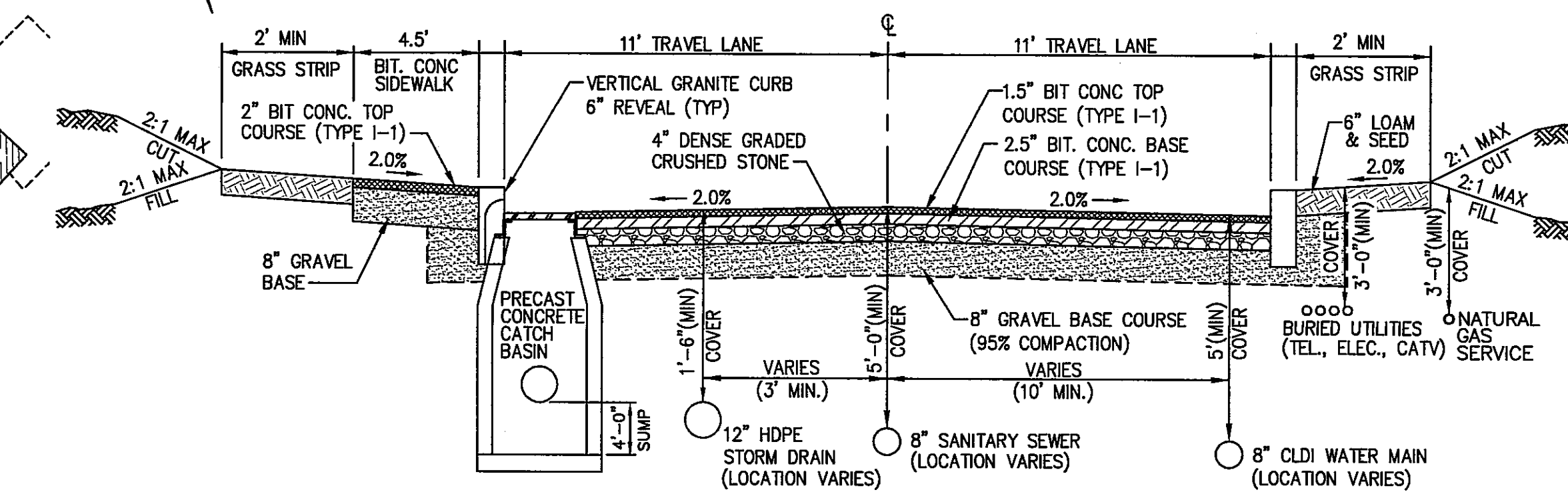


ROAD A - HORIZONTAL CURVE TABLE

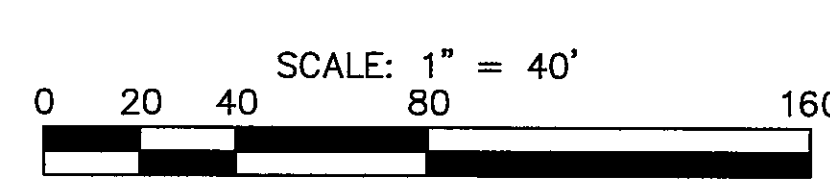
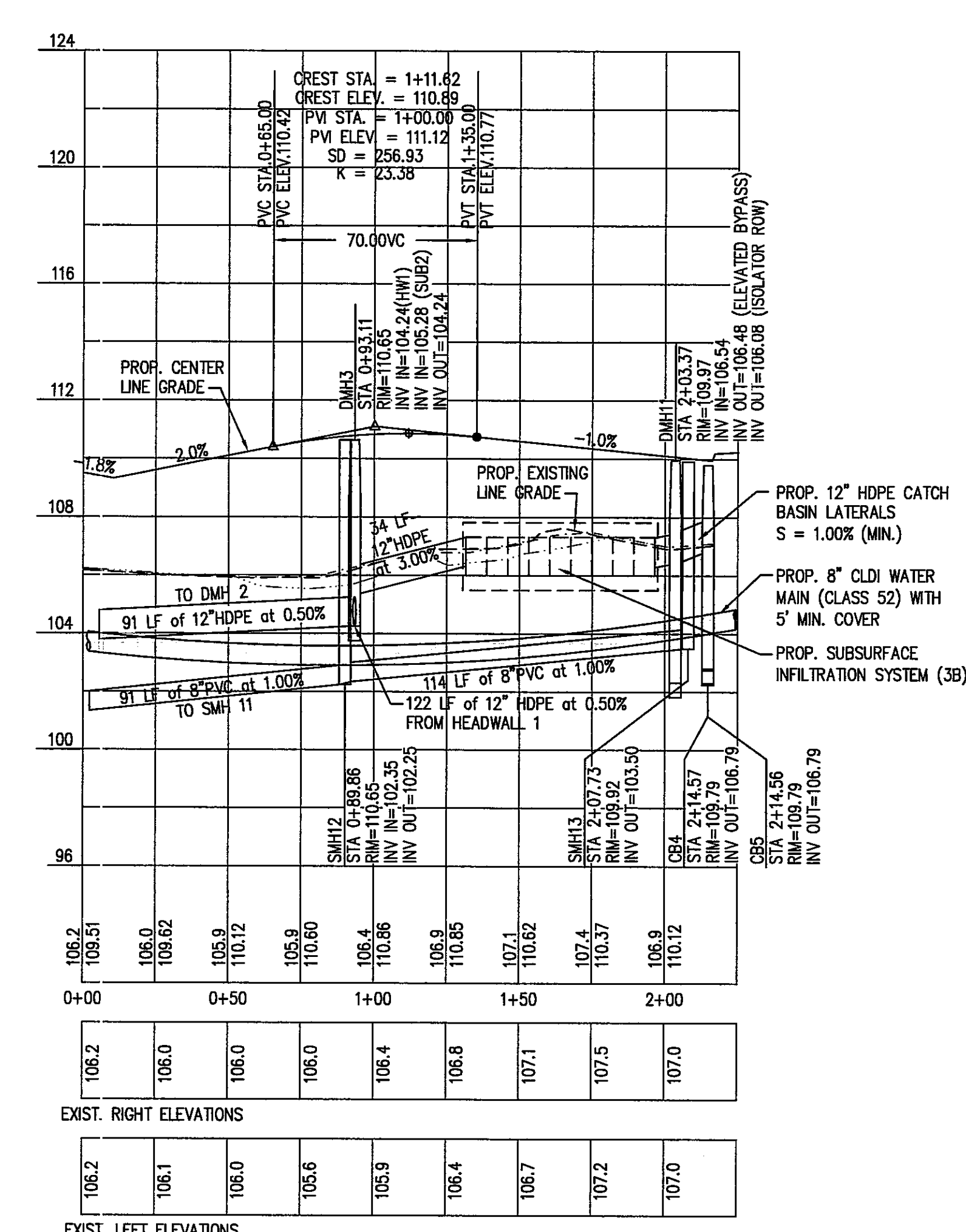
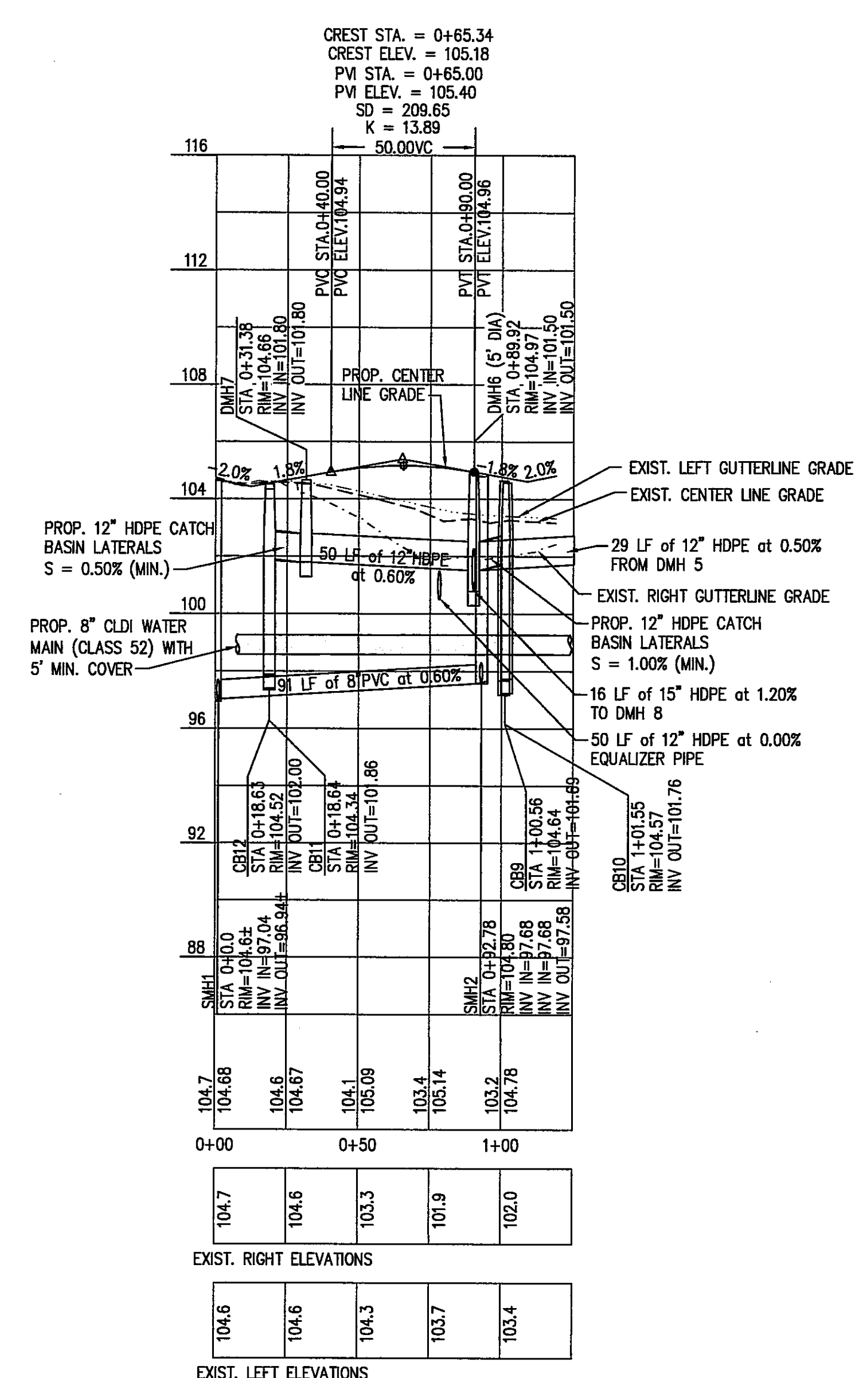
DESC.	RADIUS (FT.)	LENGTH (FT)	DELTA (DMS)	START STA	END STA
A-1	150.00	59.116	22°-34'-50"	0+42.41	1+01.53

ROAD C - HORIZONTAL CURVE TABLE

DESC.	RADIUS (FT.)	LENGTH (FT)	DELTA (DMS)	START STA	END STA
C-1	150.00	105.25	40°-12'-09"	0+00.00	1+05.25



- NOTES
- SUBGRADE SHALL BE CRUSHER RUN GRAVEL CONSISTING OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND COURSE SAND, FREE FROM LOAM AND CLAY, SURFACE COATING AND DELETERIOUS MATERIALS. IT SHALL MEET THE FOLLOWING GRADATION:
 - ALL PAVING MATERIAL TO BE BITUMINOUS CONCRETE TYPE I-1 PER MASS DEPARTMENT OF PUBLIC WORKS STANDARDS.
 - SURFACE COURSE IS NOT TO BE PAVED UNTIL THE BASE COURSE HAS BEEN THROUGH AT LEAST ONE (1) WINTER SEASON.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 7.4.3 OF THE MILTON SUBDIVISION RULES AND REGULATIONS.



McKenzie Engineering Group, Inc.

PROFESSIONAL CIVIL ENGINEERING AND LAND SURVEYING
180 LONGWATER DRIVE
NORWELL, MA 02061
PHONE: (781) 782-3800
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PREPARED BY:
T.M.T.

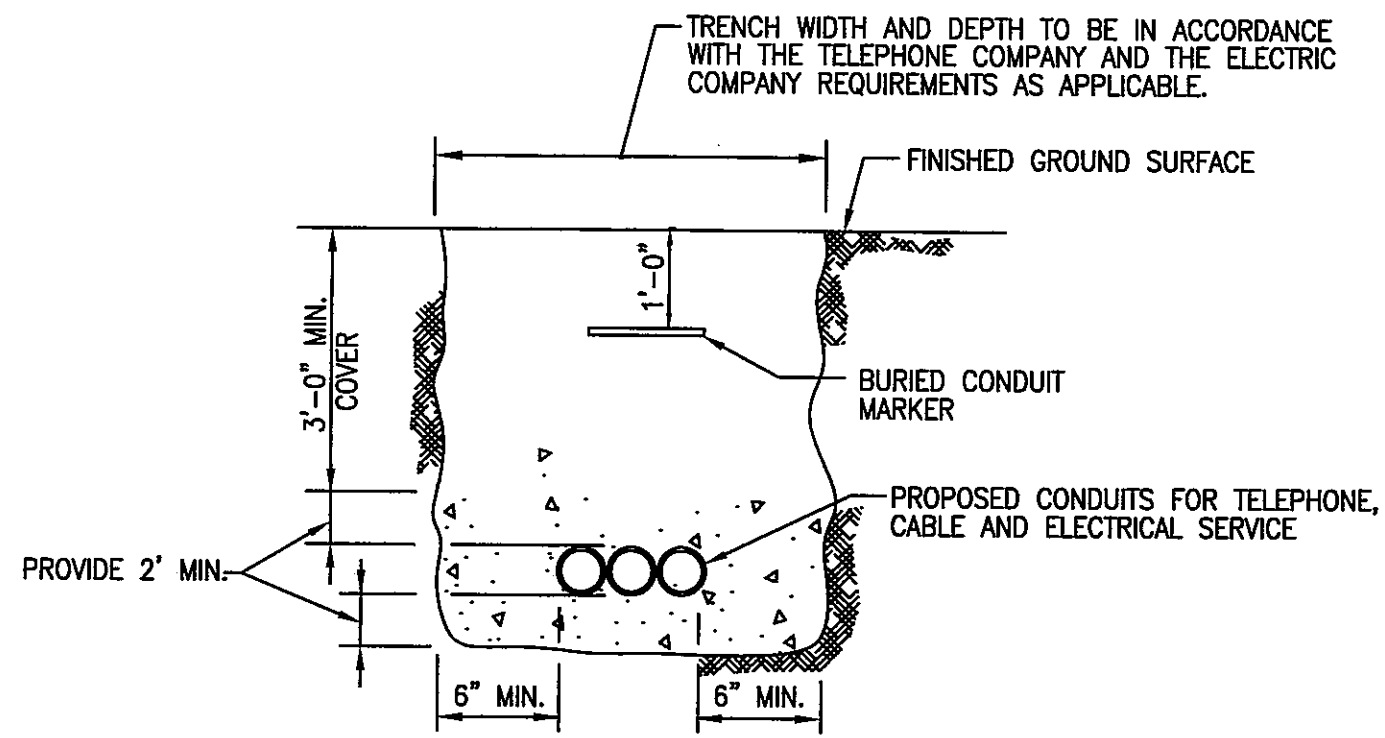
PLANNED UNIT TOWNHOUSE DEVELOPMENT
865 BRUSH HILL ROAD
(ASSESSOR'S MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:
BRADLEY C. MCKENZIE
CIVIL
No. 5091
EXPIRATION DATE 12/31/2015

OWNER/APPLICANT:
Milton NRC, LLC
20 Mail Road
Suite 220
Burlington, MA 01803

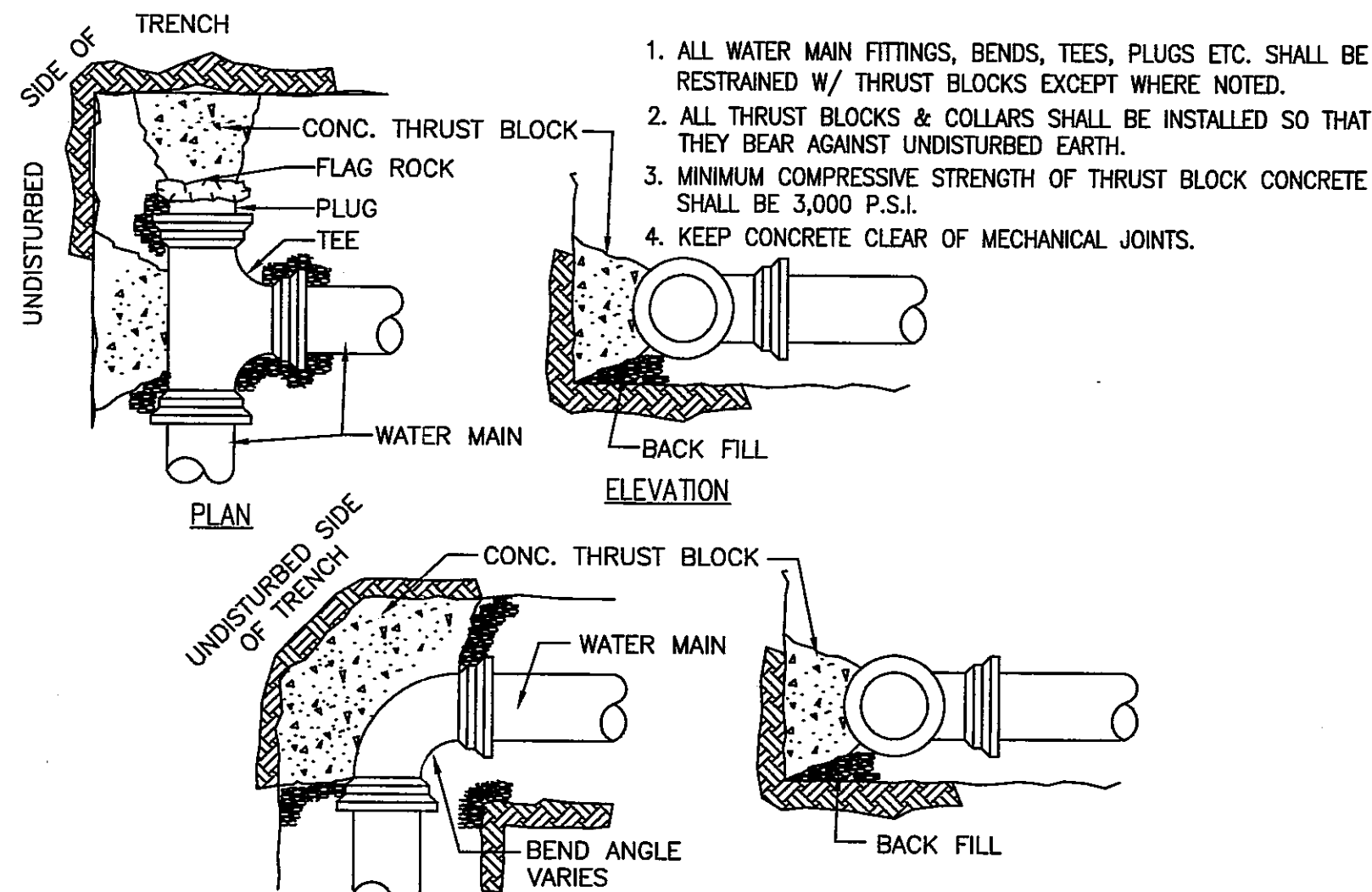
DRAWN BY: JS
DESIGNED BY: DMK
CHECKED BY: DMK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: 1"=40'
PROJECT NO.: 214-122
DWG. TITLE: ROADWAY Plan & Profile

DWG. No: 7



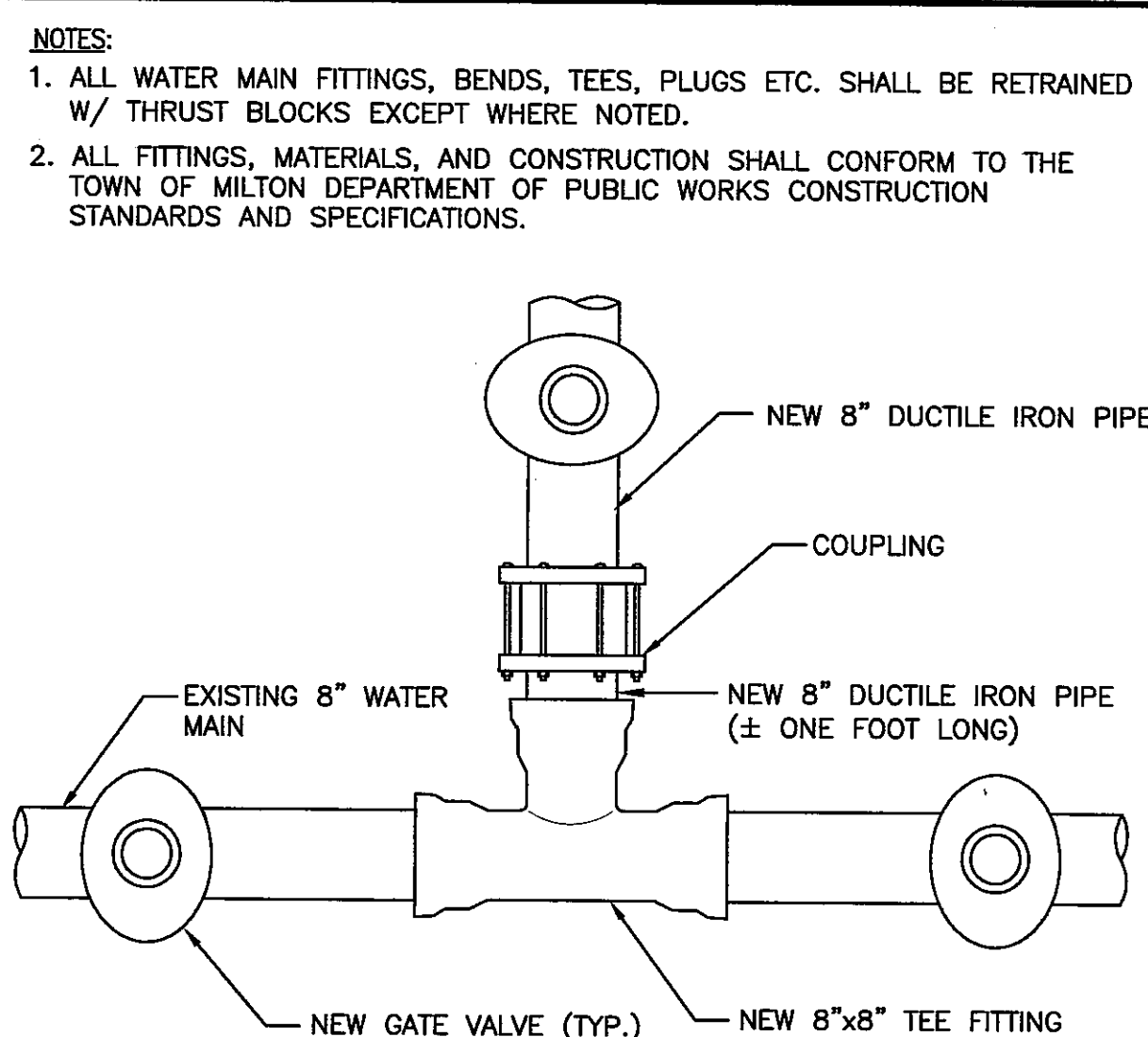
TYPICAL ELECTRIC/TELEPHONE/CABLE CONDUIT (US-UTILITY SERVICE)

SCALE: N.T.S.



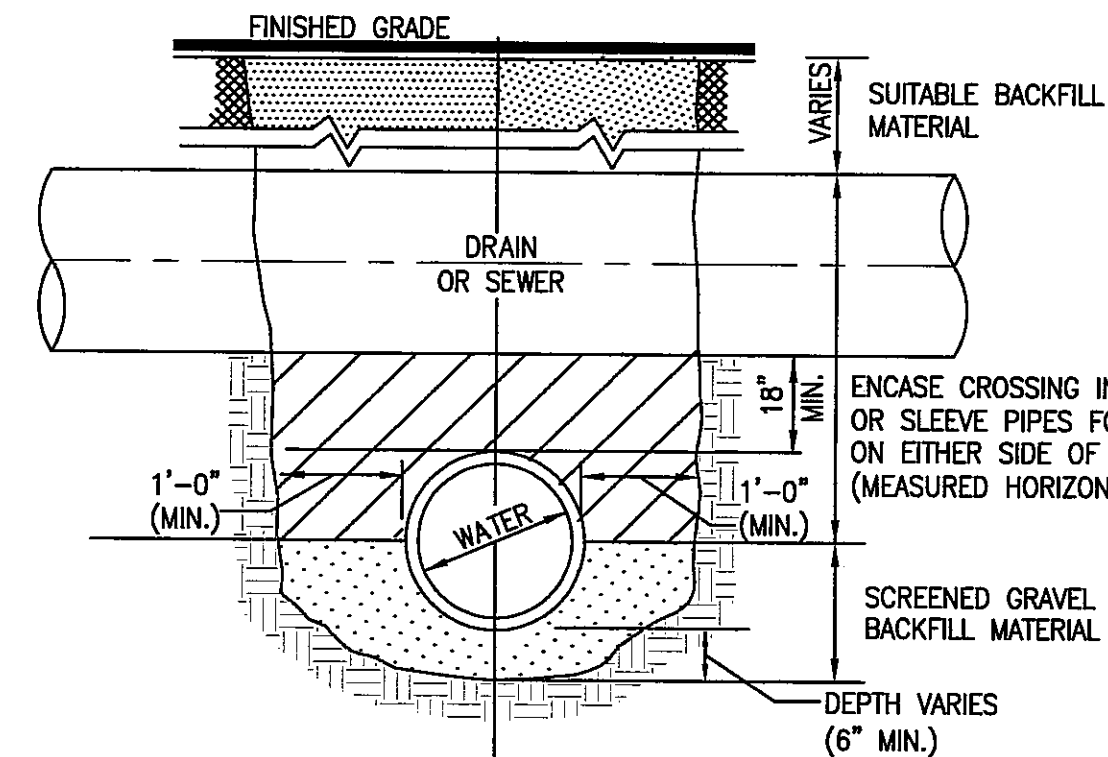
THRUST BLOCK DETAIL

SCALE: N.T.S.



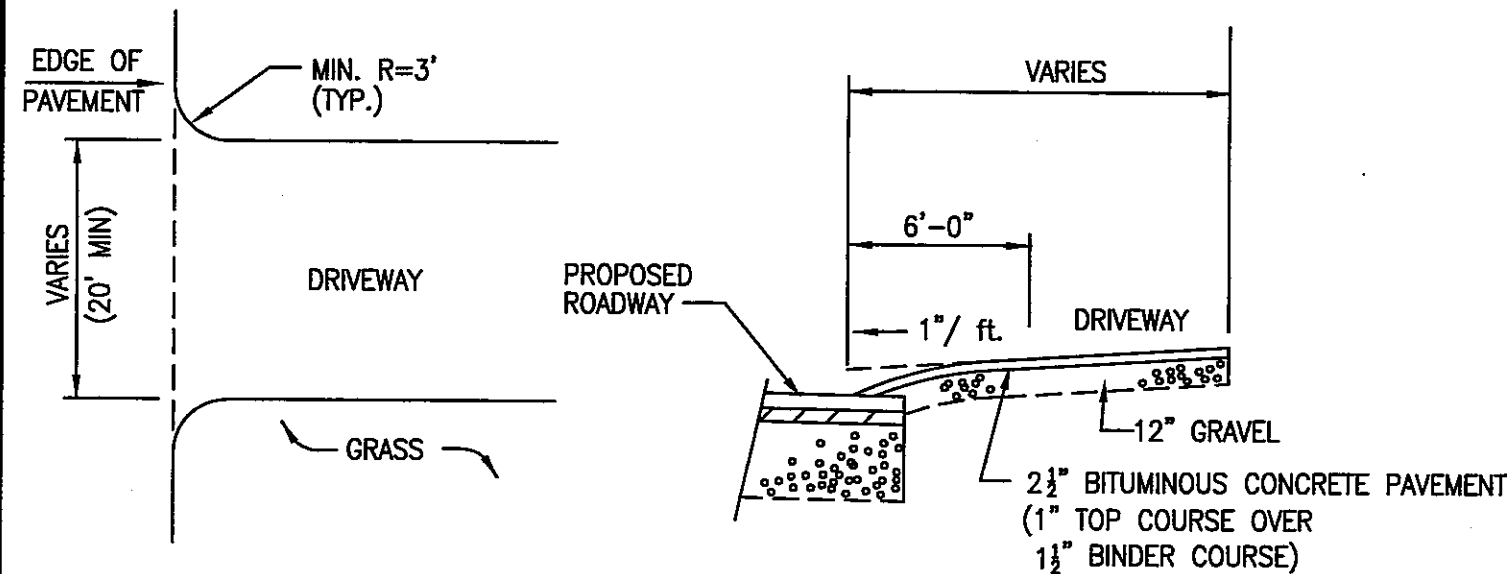
WATER MAIN TEE CONNECTION

SCALE: N.T.S.



TYPICAL UTILITY CROSSING DETAIL

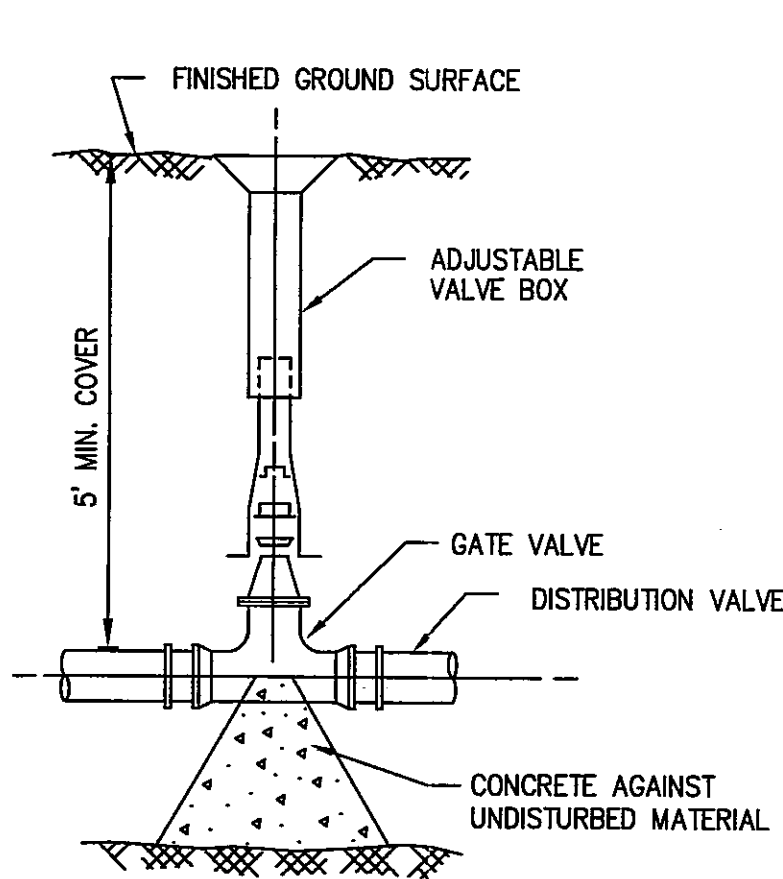
SCALE: N.T.S.



DRIVEWAY DETAIL

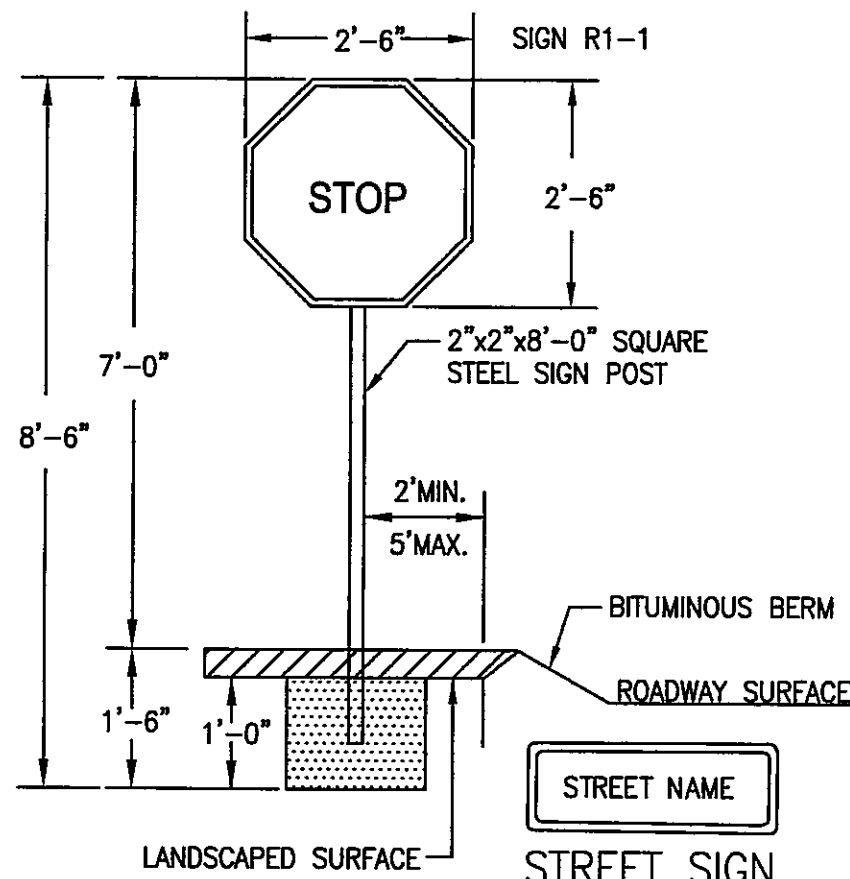
SCALE: N.T.S.

- NOTES:
1. SLOPES OF ALL DRIVEWAYS SHALL NOT EXCEED 6% WITHIN 20 FEET OF THE STREET LINE.
 2. WHERE POSSIBLE, DRIVEWAYS SHALL NOT BE CLOSER THAN 10 FEET TO A LOT LINE.
 3. DRIVEWAYS TO INTERSECT AT NO LESS THAN 45° TO THE STREET LINE.



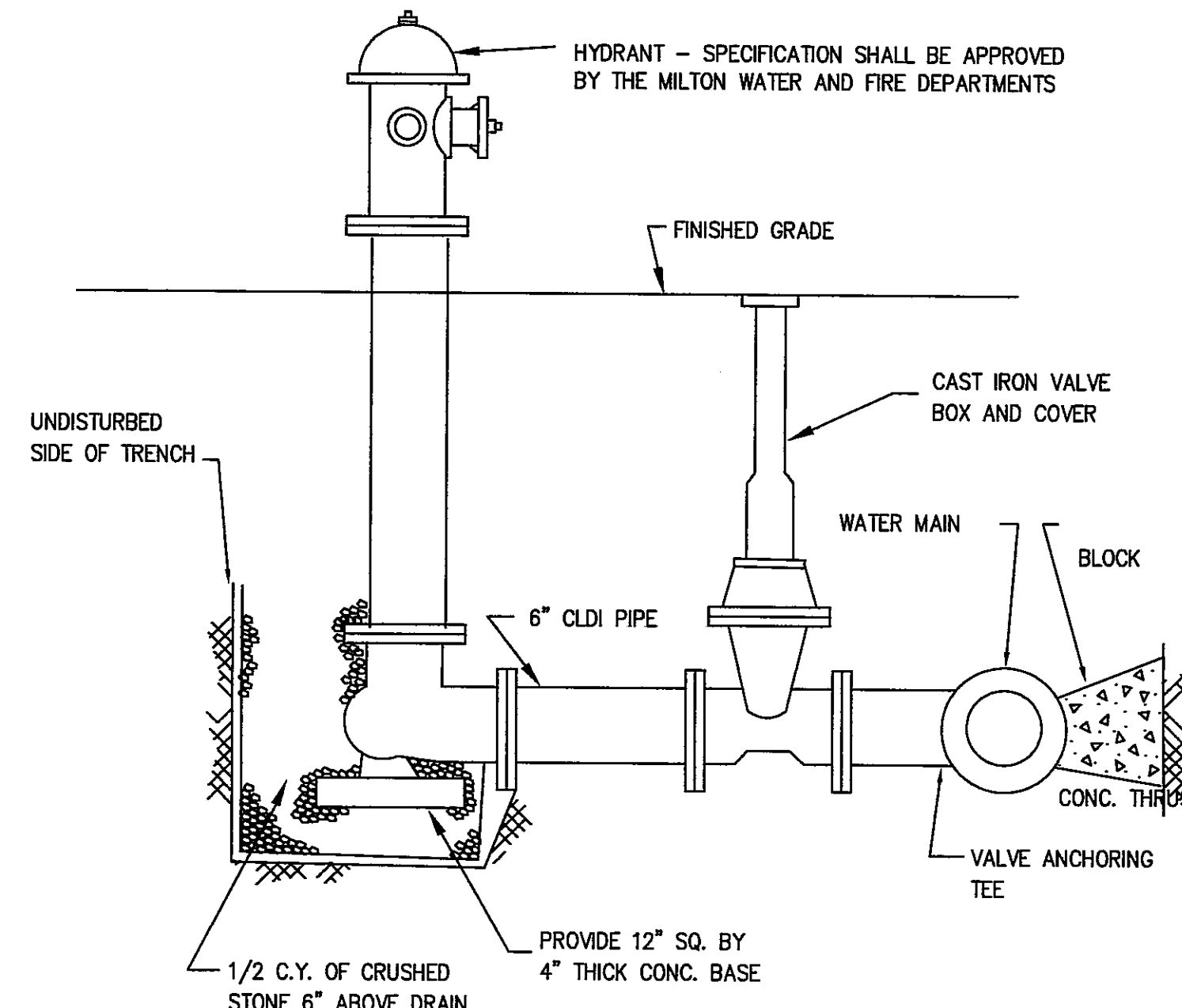
WATER GATE DETAIL

SCALE: N.T.S.



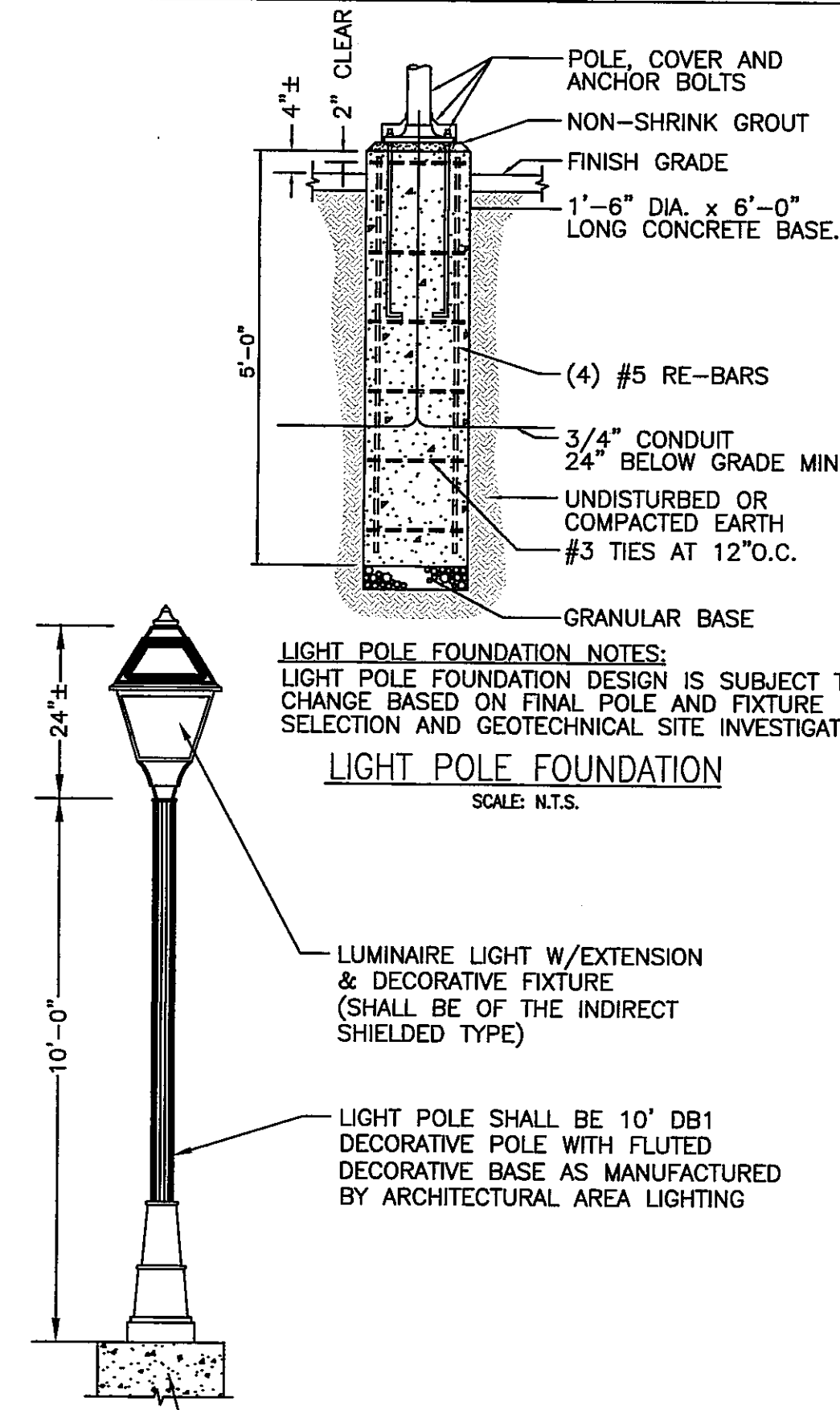
SIGN DETAIL

SCALE: N.T.S.



HYDRANT DETAIL

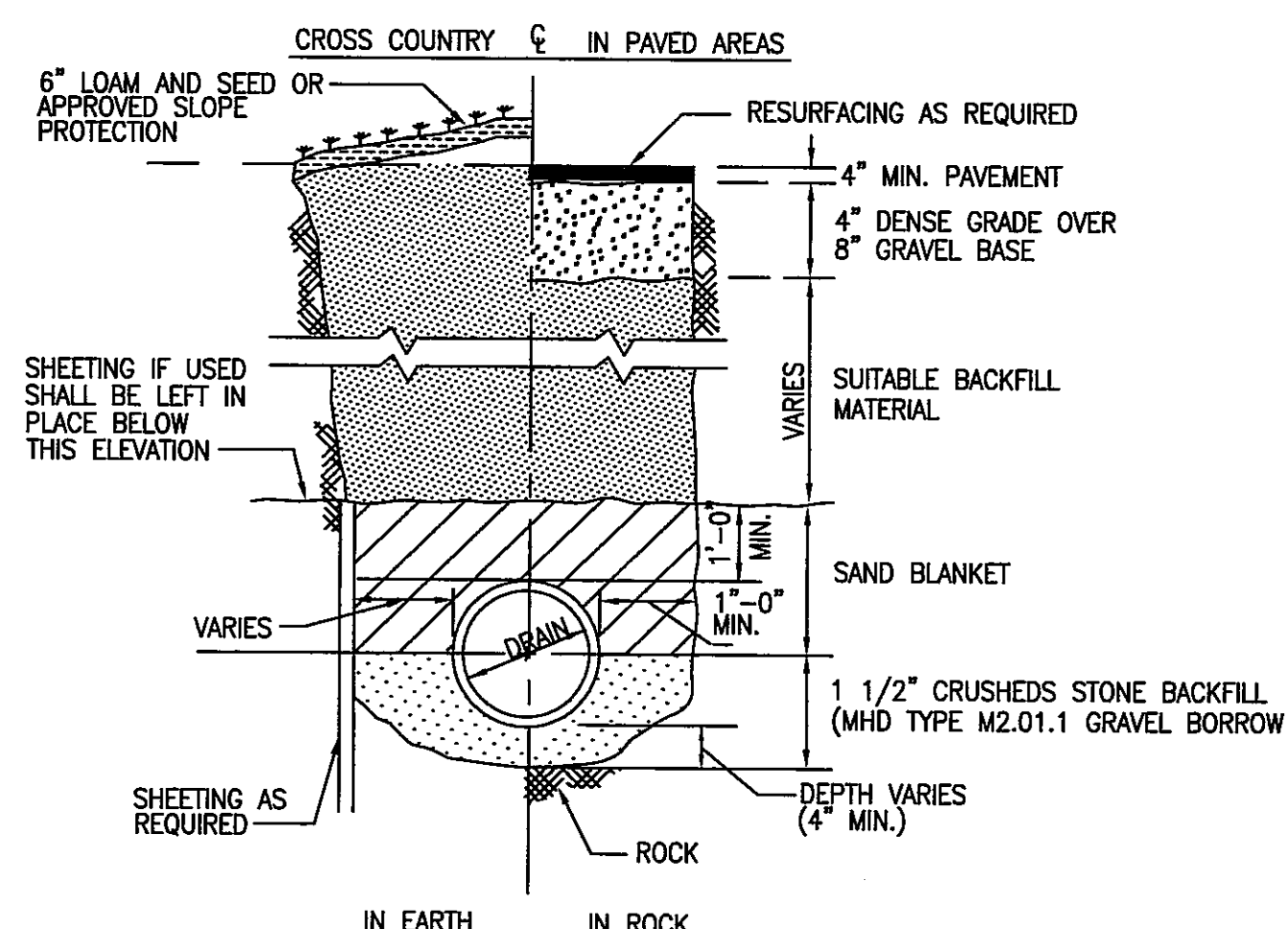
SCALE: N.T.S.



TYPICAL LIGHT POST DETAIL

SCALE: N.T.S.

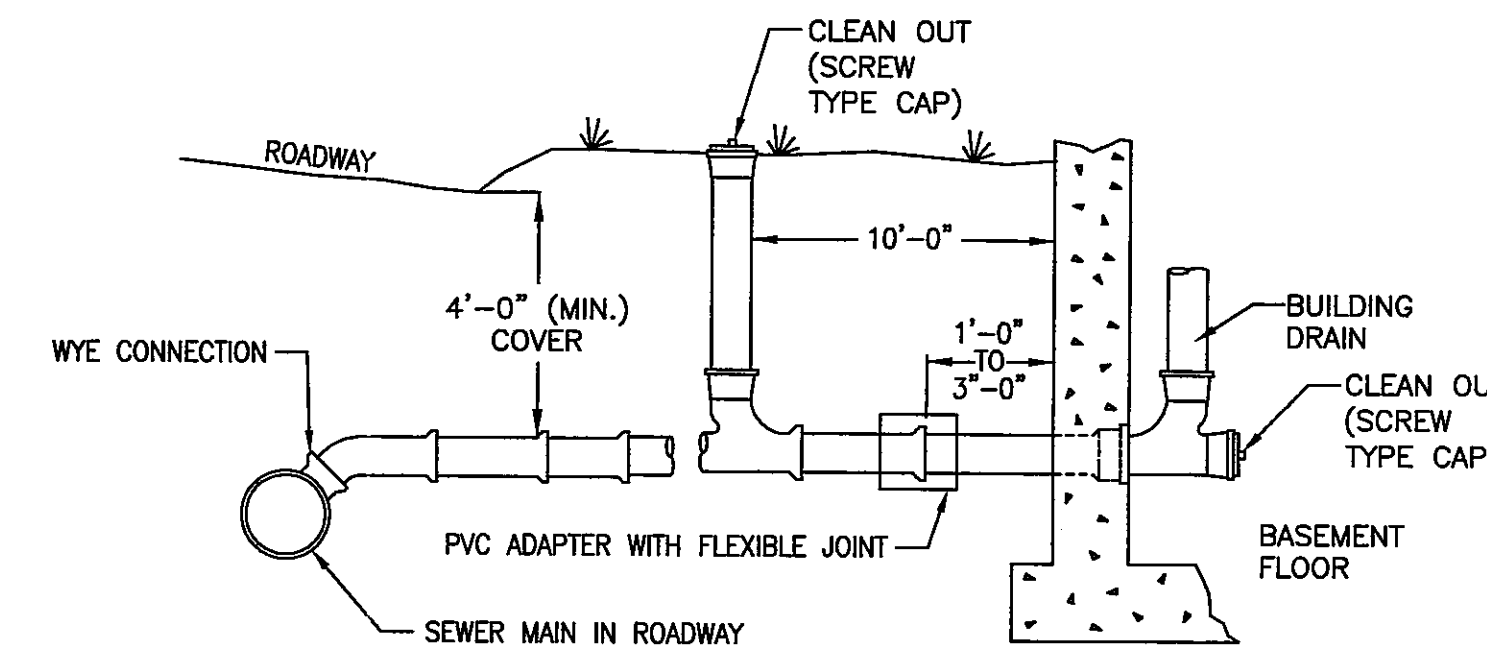
NOTE: ALL LIGHT SHALL BE REFLECTED DOWN TO PREVENT LIGHT POLLUTION AND SHALL BE DARK SKY COMPLIANT



TYPICAL TRENCH DETAIL

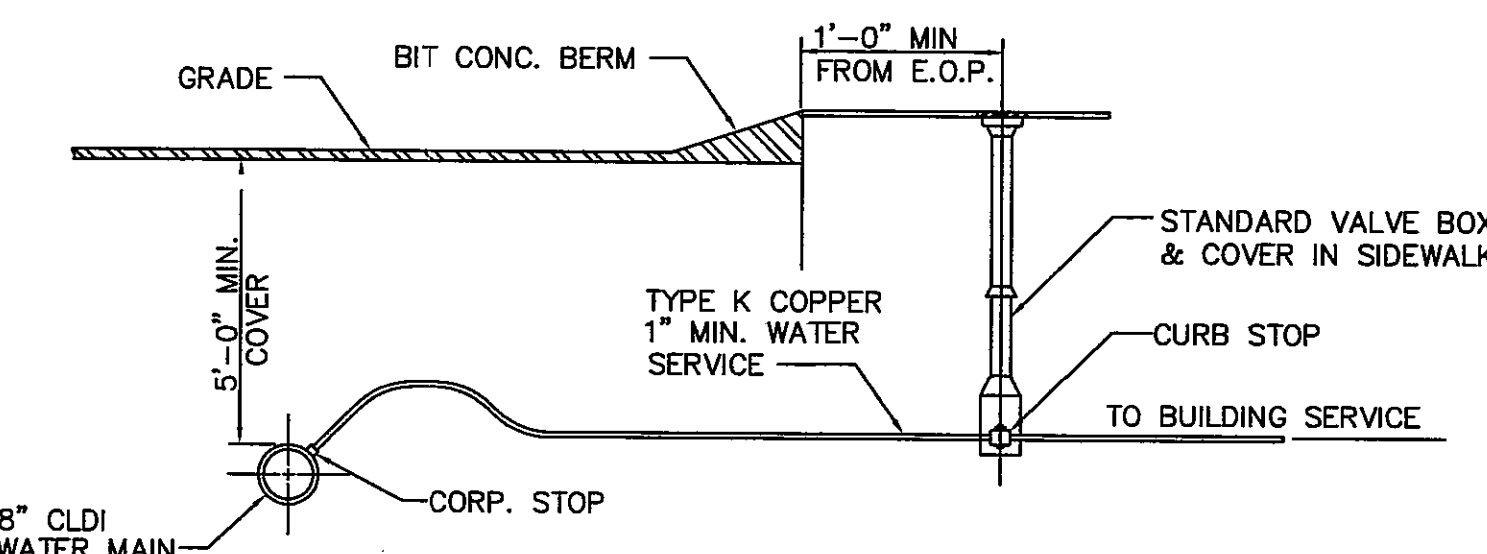
SCALE: N.T.S.

- TYPICAL TRENCH DETAIL NOTES:
1. BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY BY AASHTO 1-180D METHOD.
 2. DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE UNLESS OTHERWISE NOTED.
 3. SHEETING, IF USED, SHALL BE CUT OFF NO MORE THAN 12" ABOVE TOP OF PIPE.
 4. UNSUITABLE SOIL BELOW THE INVERT SHALL BE REMOVED AND REPLACED WITH APPROVED MATERIAL AND SHALL NOT BE USED AS BACKFILL.



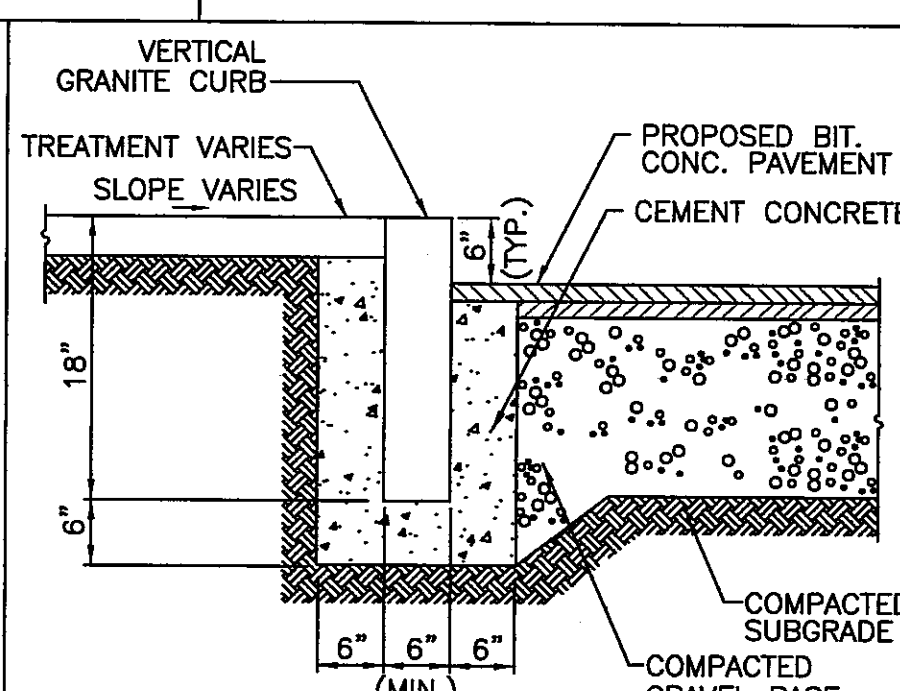
TYPICAL BUILDING SEWER SERVICE

SCALE: N.T.S.



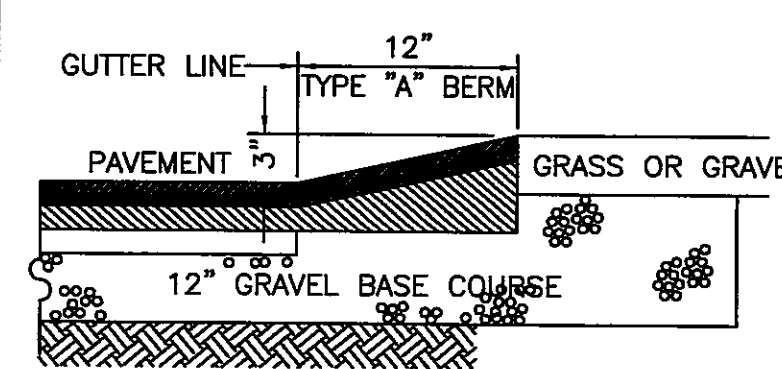
SERVICE CONNECTION

SCALE: N.T.S.



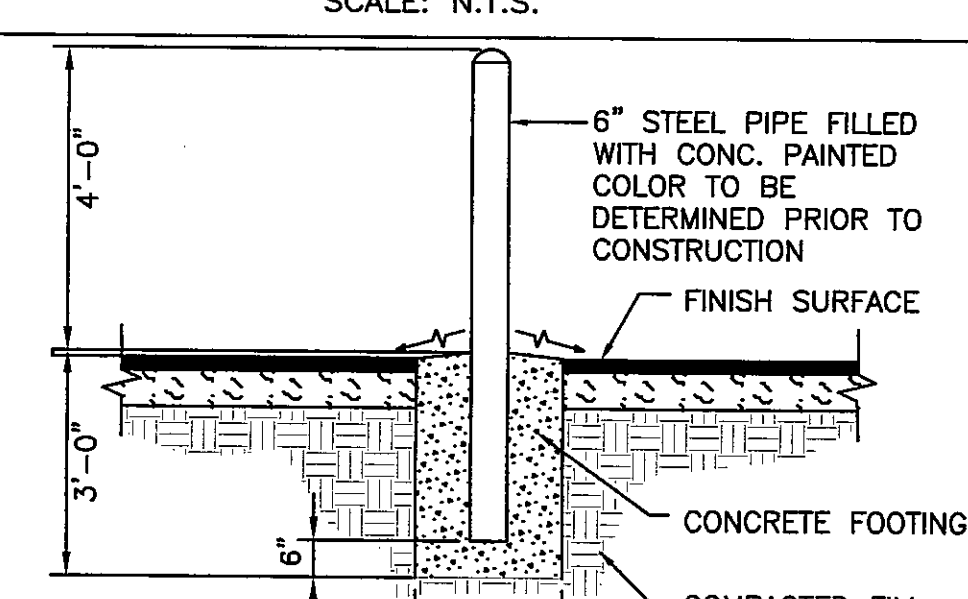
VERTICAL GRANITE CURB DETAIL (VGC)

SCALE: N.T.S.



MONOLITHIC BITUMINOUS CONCRETE BERM DETAIL (CAPE COD BERM)

SCALE: N.T.S.



TYPICAL BOLLARD DETAIL

SCALE: N.T.S.

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FILE LOCATION: M:\MEG\2014 Projects\214-122\DWGS\214-122Prop.DWG

McKenzie Engineering Group, Inc.

180 LONGWATER DRIVE
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PLANNED UNIT TOWNHOUSE DEVELOPMENT

865 BRUSH HILL ROAD
(ASSESSORS MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:

BRADLEY C. MCKENZIE
CIVIL
No. 28871
MASSACHUSETTS

OWNER/APPLICANT:

Milton NRC, LLC
20 Mal Road
Suite 220
Burlington, MA 01803

DRAWN BY: JS
DESIGNED BY: DWK
CHECKED BY: DWK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: N.T.S.
PROJECT NO.: 214-122
DWG. TITLE:

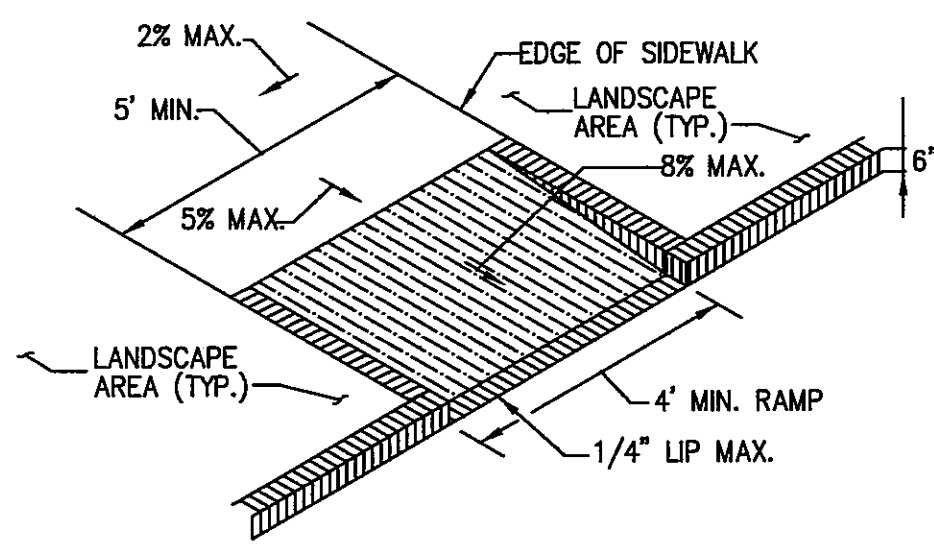
Construction Detail Plan

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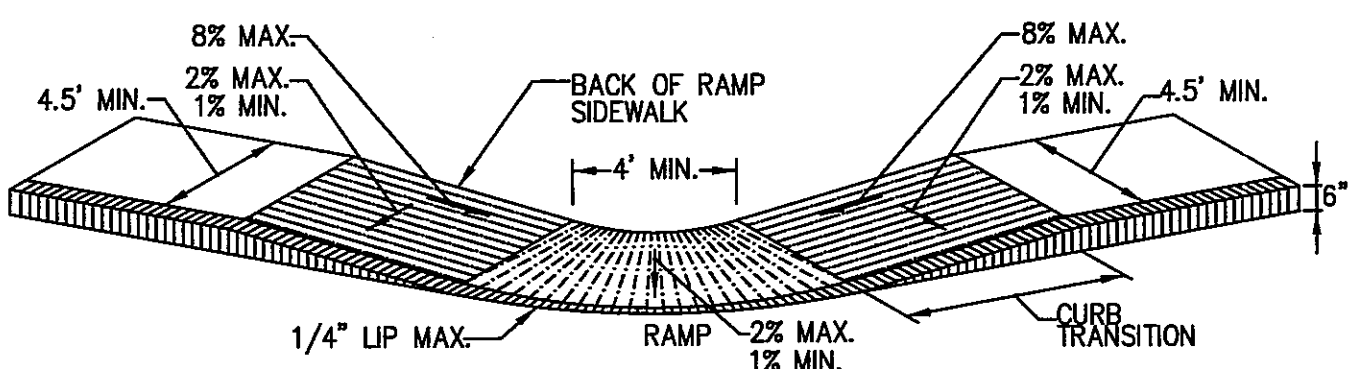
PERMIT PLAN SET

8

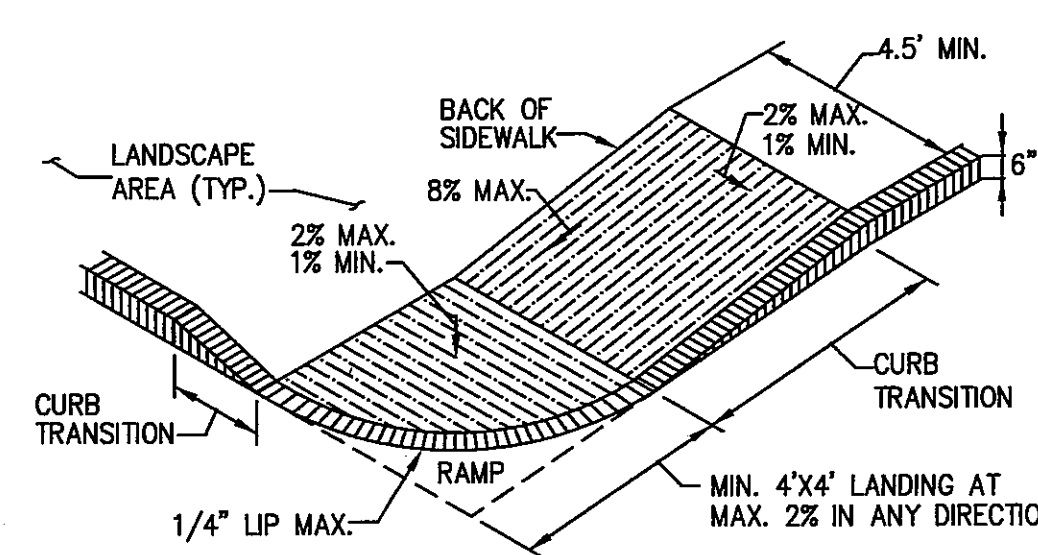
- NOTES
1. SEE PLANS FOR CURB TYPE.
 2. CURBS AND WALKS ALONG ACCESSIBLE ROUTES SHALL MEET OR EXCEED THE APPLICABLE REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD, FAIR HOUSING ACT AND ADA.
 3. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2%.
 4. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMP SHALL BE 5%.
 5. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMP SHALL BE 8%.
 6. MAINTAIN A MINIMUM OF 3% MIN. CLEAR AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS ETC.).
 7. GRADE BASE OF RAMP TO PREVENT PONDING.
 8. RAMP CONSTRUCTION SHALL CONFORM TO TYPICAL SIDEWALK SECTION.
 9. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'x5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
 10. ALL CURBING AT RAMPS SHALL BE VERTICAL CURBING SET FLUSH WHERE IT ABUTS ROADWAY.
 11. ALL RAMPS SHALL BE CEMENT CONCRETE OR BITUMINOUS CONCRETE WITH ROUGHENED NON-SLIP SURFACE.



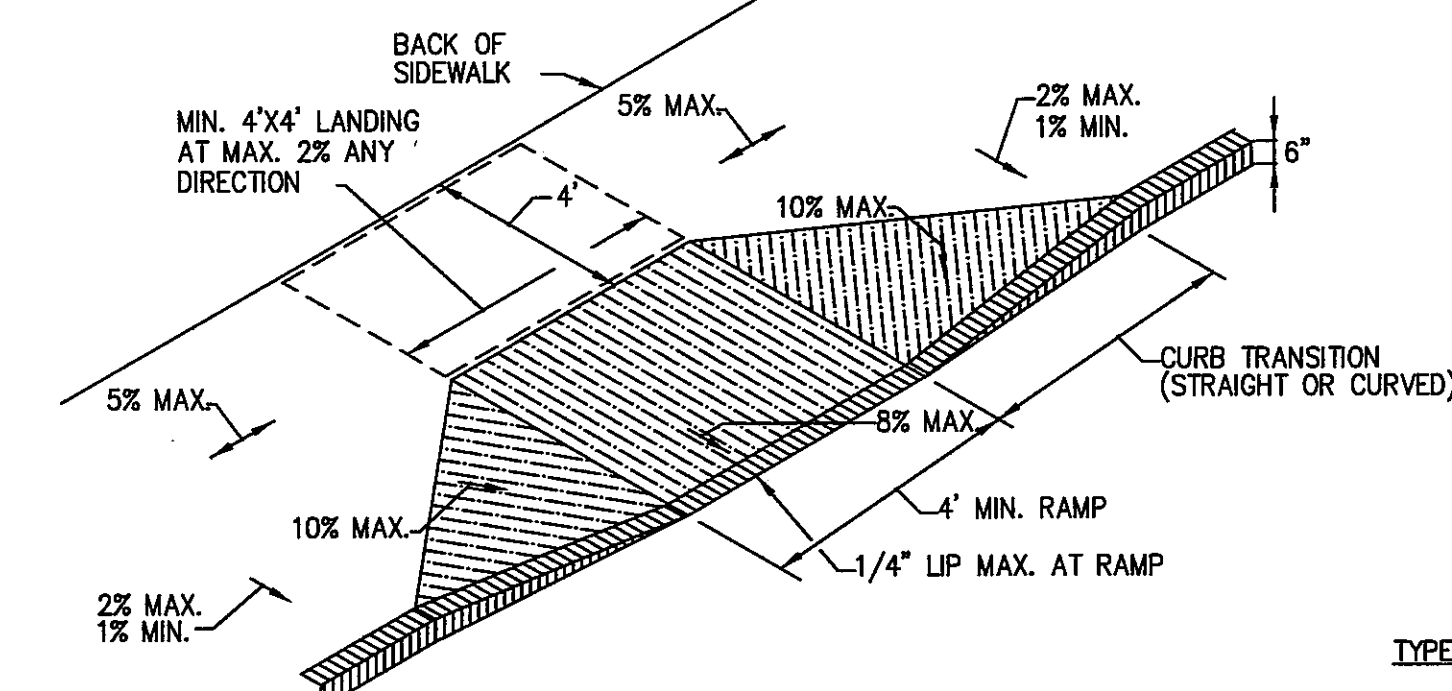
TYPE 3 (AR3)



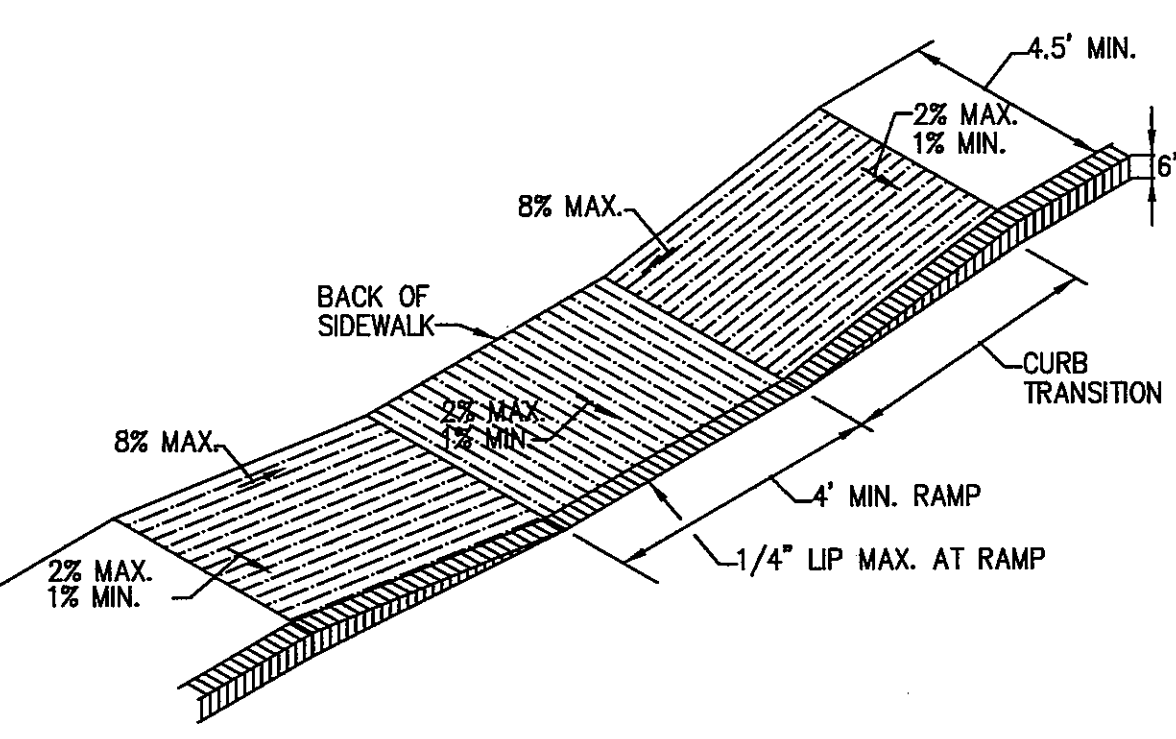
TYPE 2 (AR2)



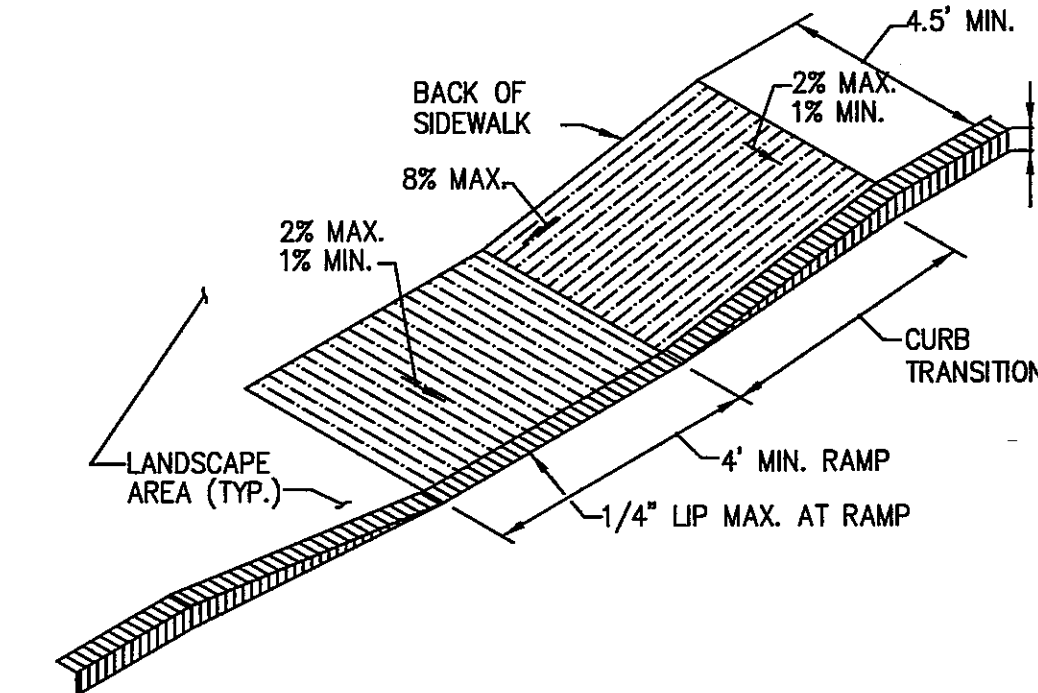
TYPE 1 (AR1)



TYPE 6 (AR6)



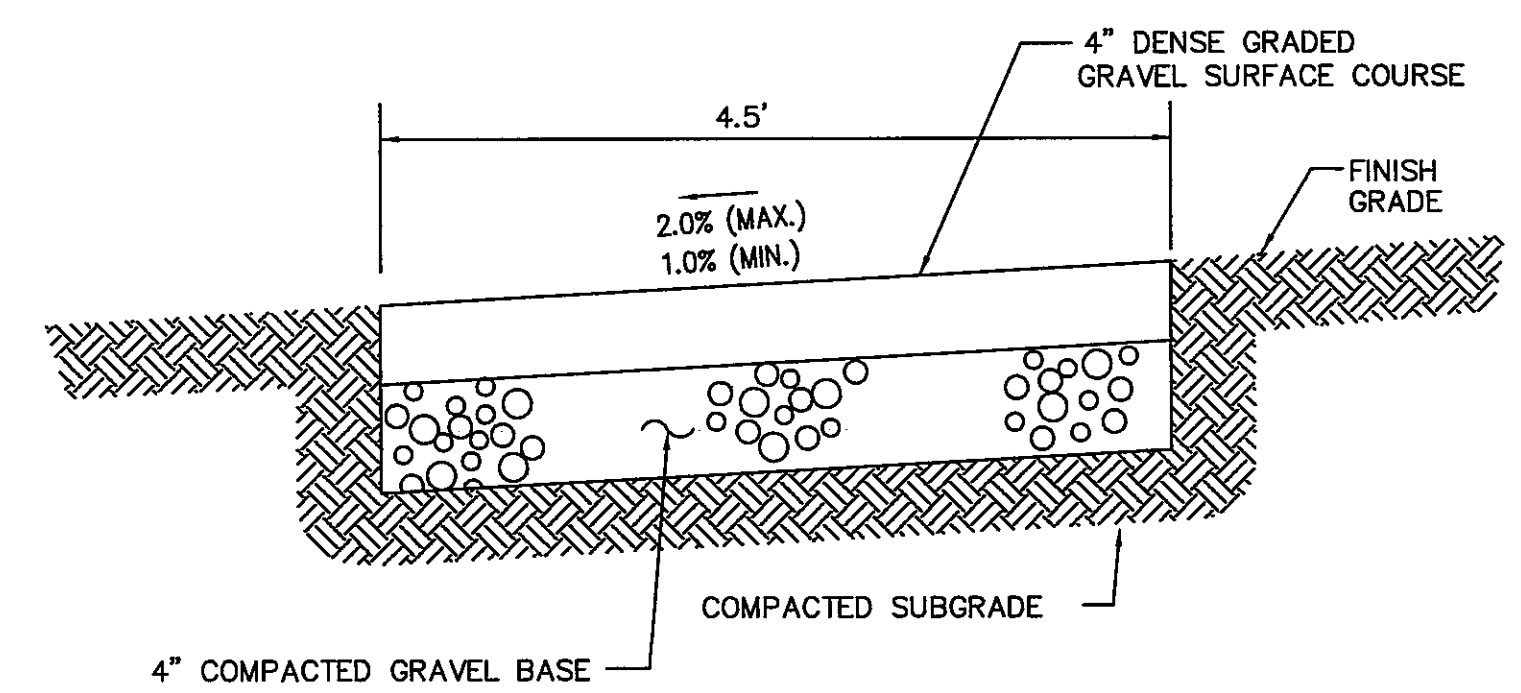
TYPE 5 (AR5)



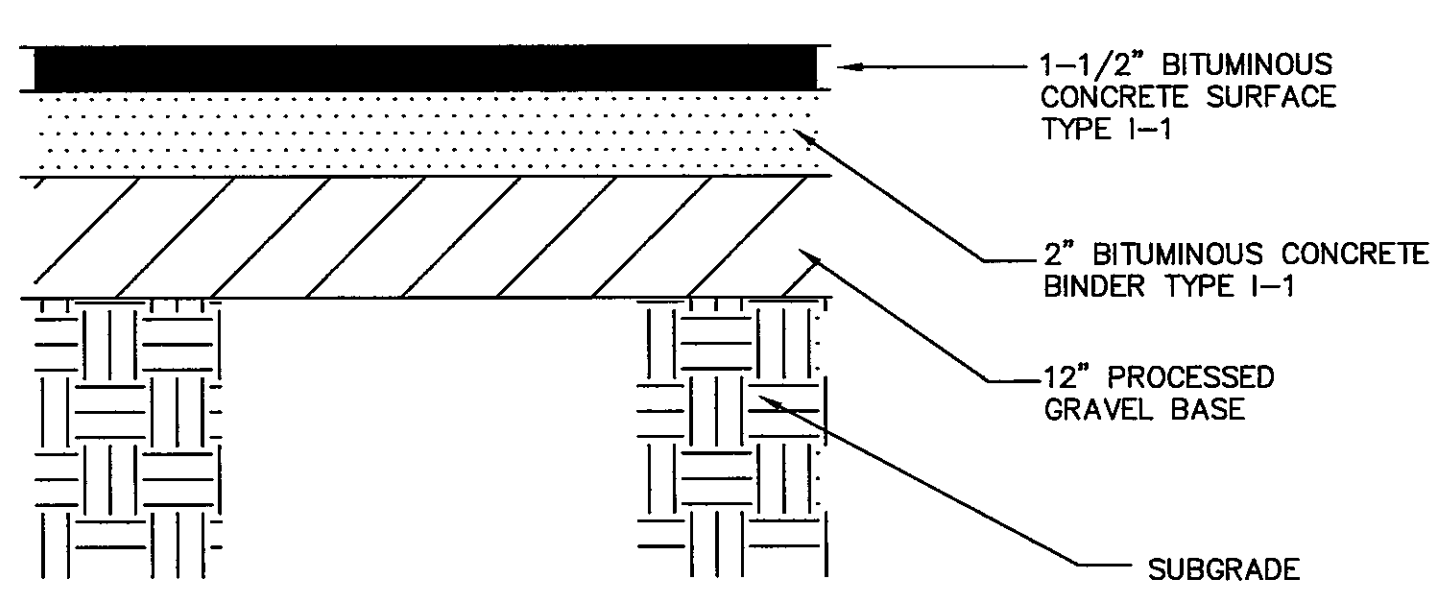
TYPE 4 (AR4)

ACCESSIBLE CURB RAMPS

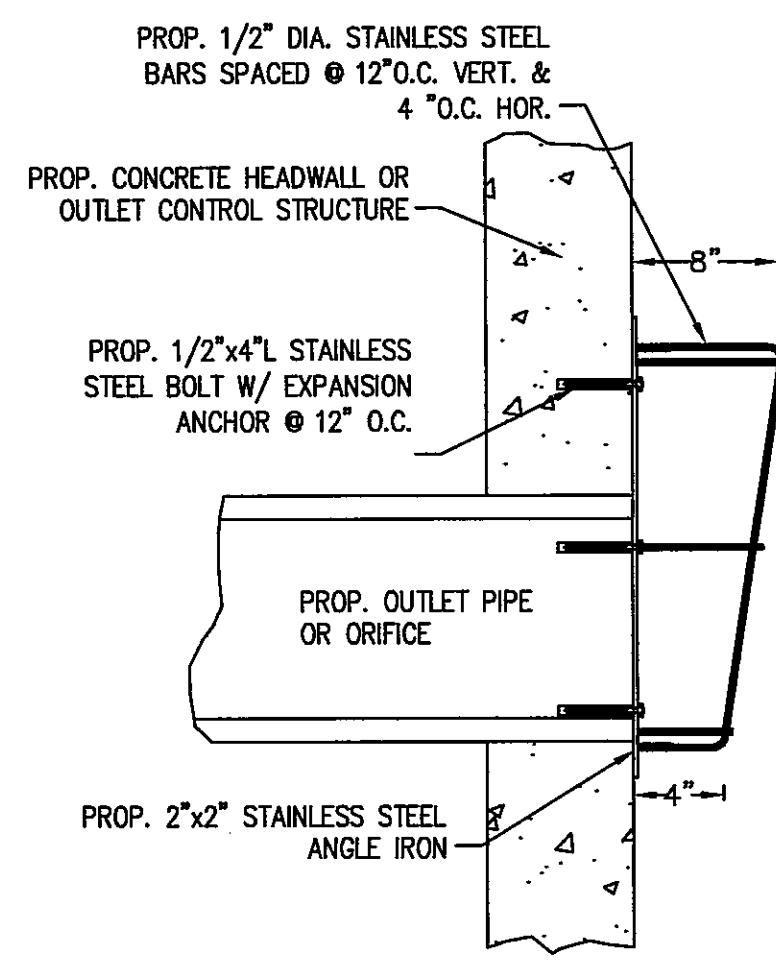
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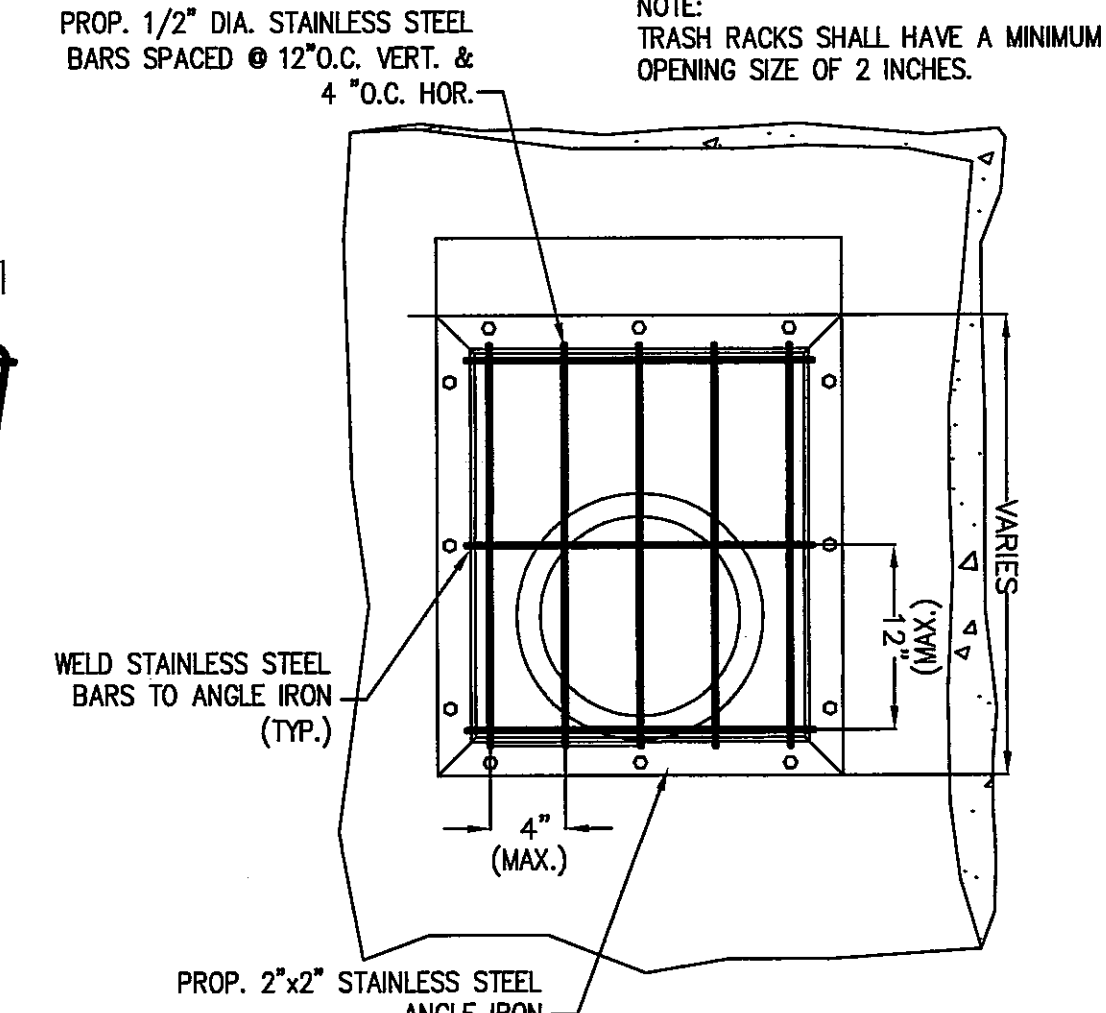
GRAVEL WALK DETAIL
SCALE: N.T.S.



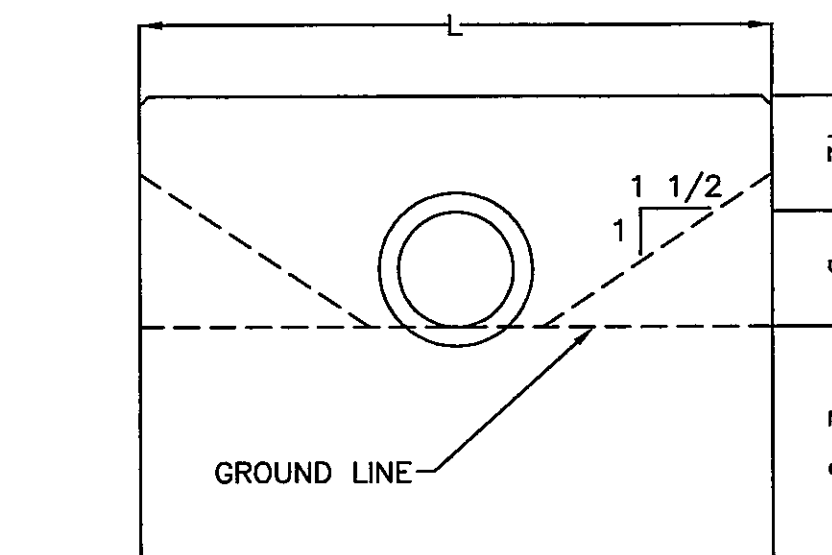
BITUMINOUS CONCRETE PAVEMENT DETAIL
FOR PARKING AREAS
SCALE: N.T.S.



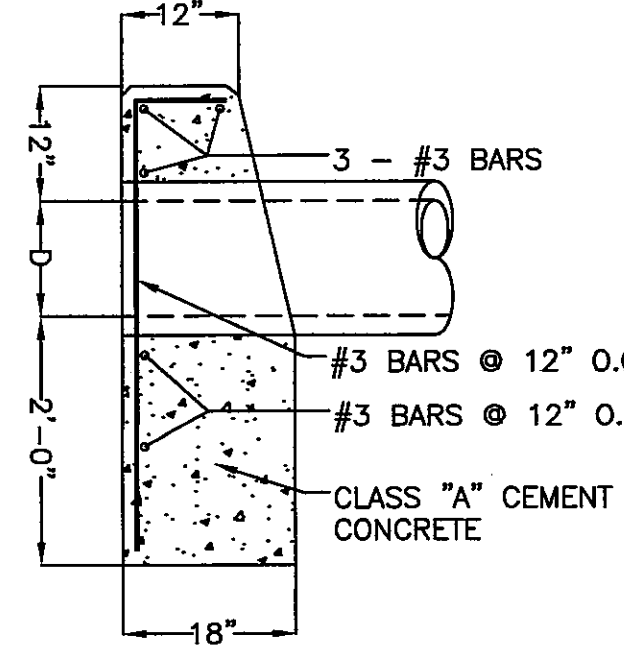
TYPICAL TRASH RACK DETAIL
SCALE: N.T.S.



PRECAST CONCRETE HEADWALL DETAIL
SCALE: N.T.S.

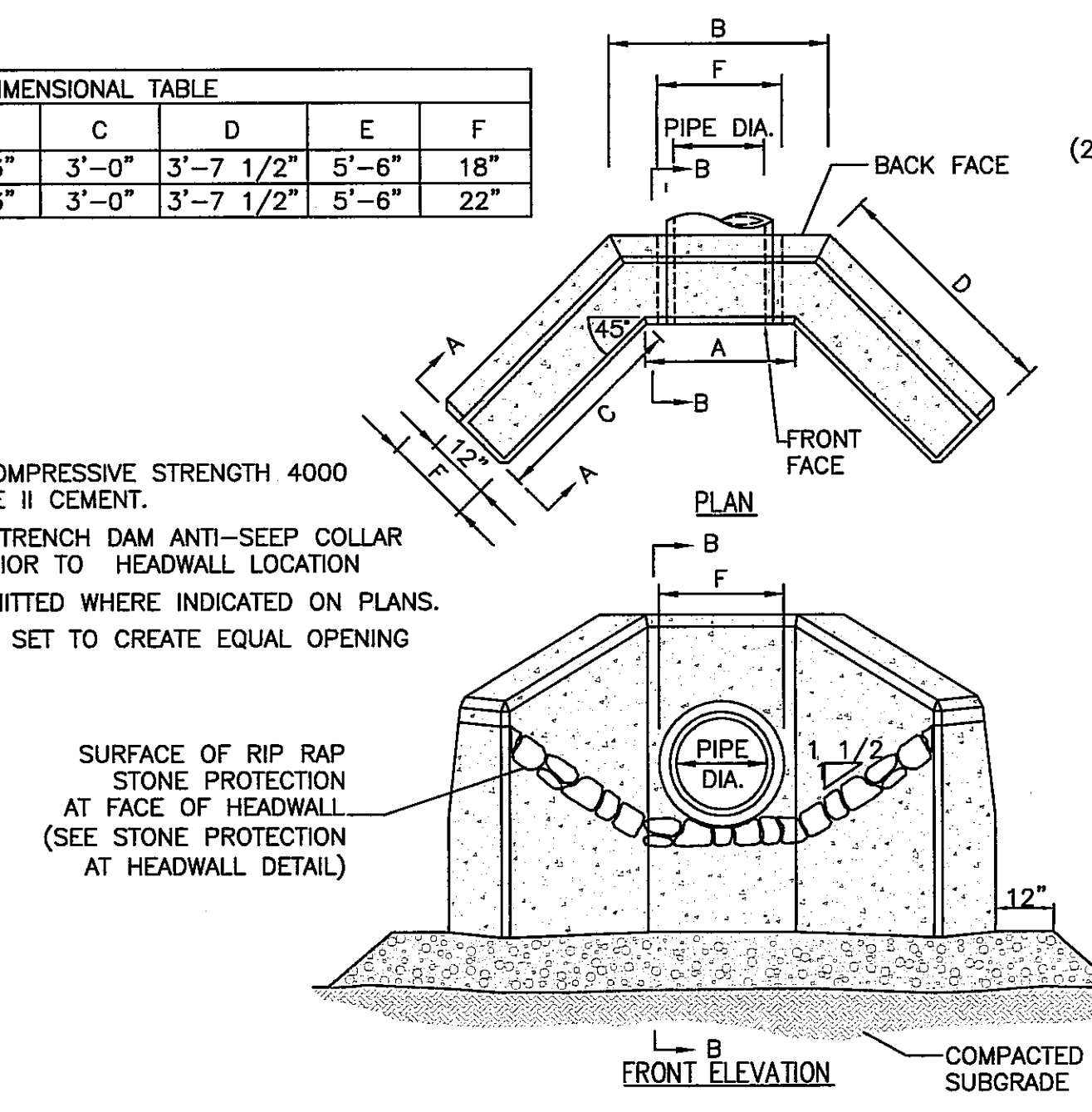


PIPE DIA. (D)	LENGTH (L)
12"	5'-6"
15"	7'-6"

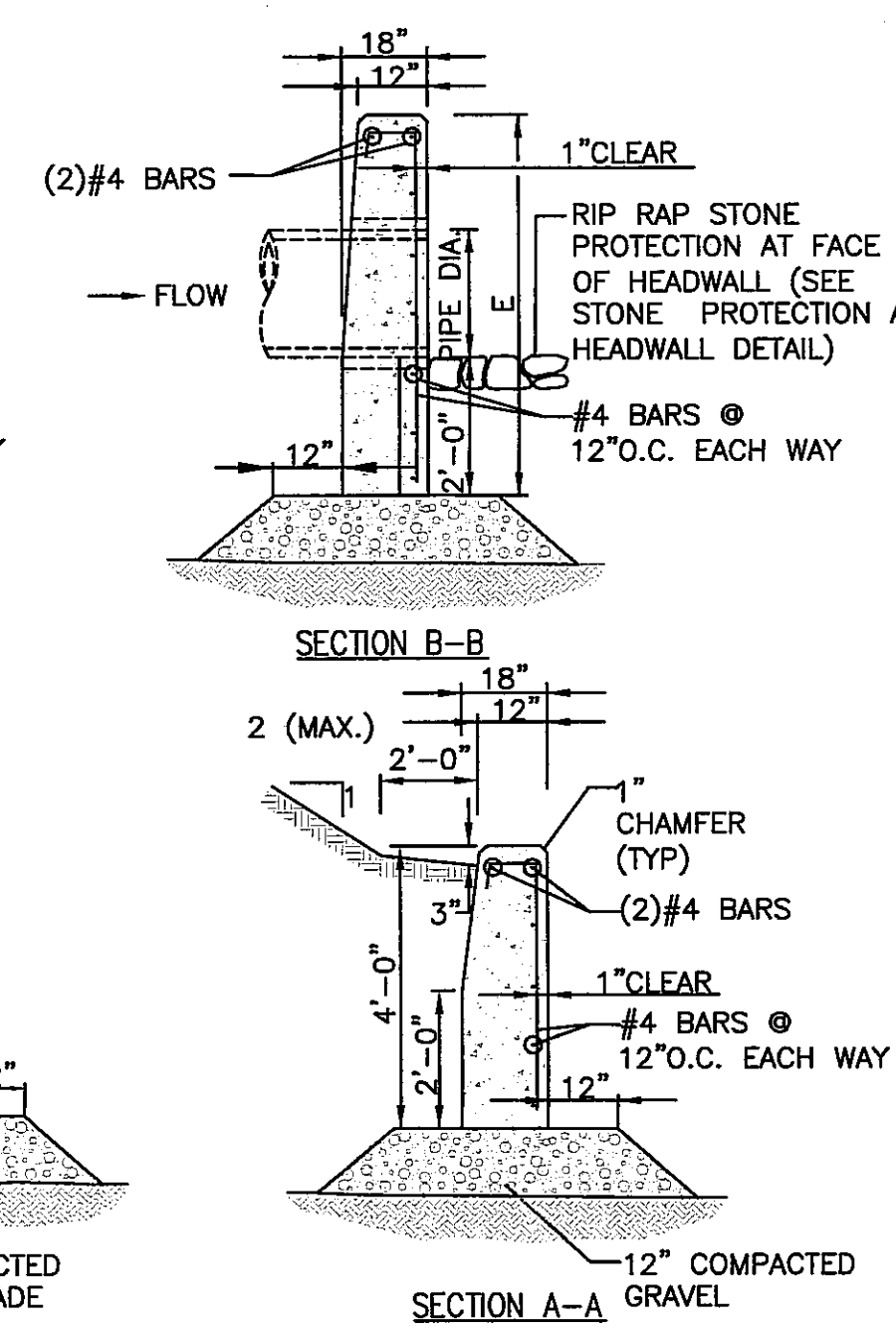


PIPE DIA.	A	B	C	D	E	F
12"	4'-0"	5'-3"	3'-0"	3'-7 1/2"	5'-6"	18"
15"	4'-0"	5'-3"	3'-0"	3'-7 1/2"	5'-6"	22"

- NOTES:
1. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI AIR ENTRAINED TYPE II CEMENT.
 2. INSTALL IMPERMEABLE TRENCH DAM ANTI-SEEP COLLAR AROUND DRAIN PIPE PRIOR TO HEADWALL LOCATION.
 3. SAFETY BARS TO BE OMITTED WHERE INDICATED ON PLANS.
 4. SAFETY BARS SHALL BE SET TO CREATE EQUAL OPENING DIMENSIONS.



PRECAST CONCRETE HEADWALL WITH WING WALLS
SCALE: N.T.S.



© MCKENZIE ENGINEERING GROUP, INC.

REV	DATE	DESCRIPTION	BY	APP
1				

PREPARED BY:
McKenzie Engineering Group, Inc.
180 LONGWATER DRIVE
NORWELL, MA 01961
PHONE: (781) 788-8800
FAX: (781) 782-6533

PLANNED UNIT TOWNHOUSE DEVELOPMENT
865 BRUSH HILL ROAD
(ASSESSOR'S MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:
BRADLEY C. MCKENZIE
CIVIL ENGINEER
LICENSE NO. 38917
EXPIRATION DATE 12/31/2017

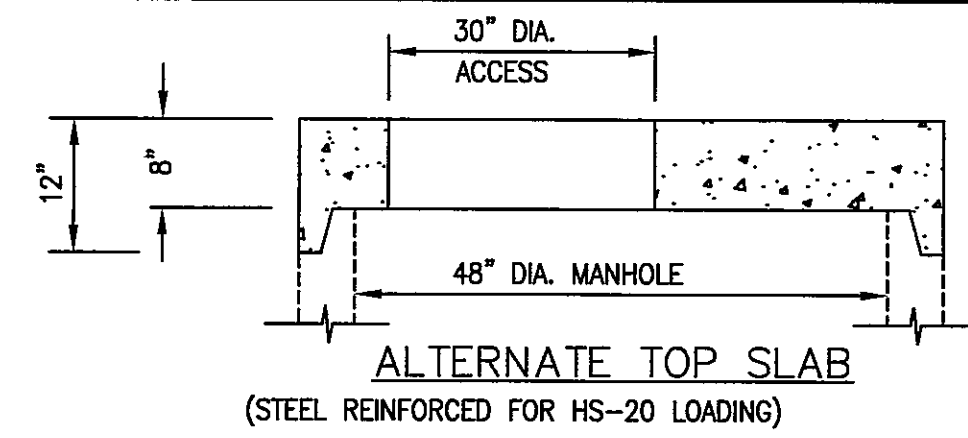
OWNER/APPLICANT:
Milton NRC, LLC
20 Mill Road
Suite 220
Burlington, MA 01803

DRAWN BY: JS
DESIGNED BY: DWK
CHECKED BY: DWK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: NTS
PROJECT NO.: 214-122
DWG. TITLE:

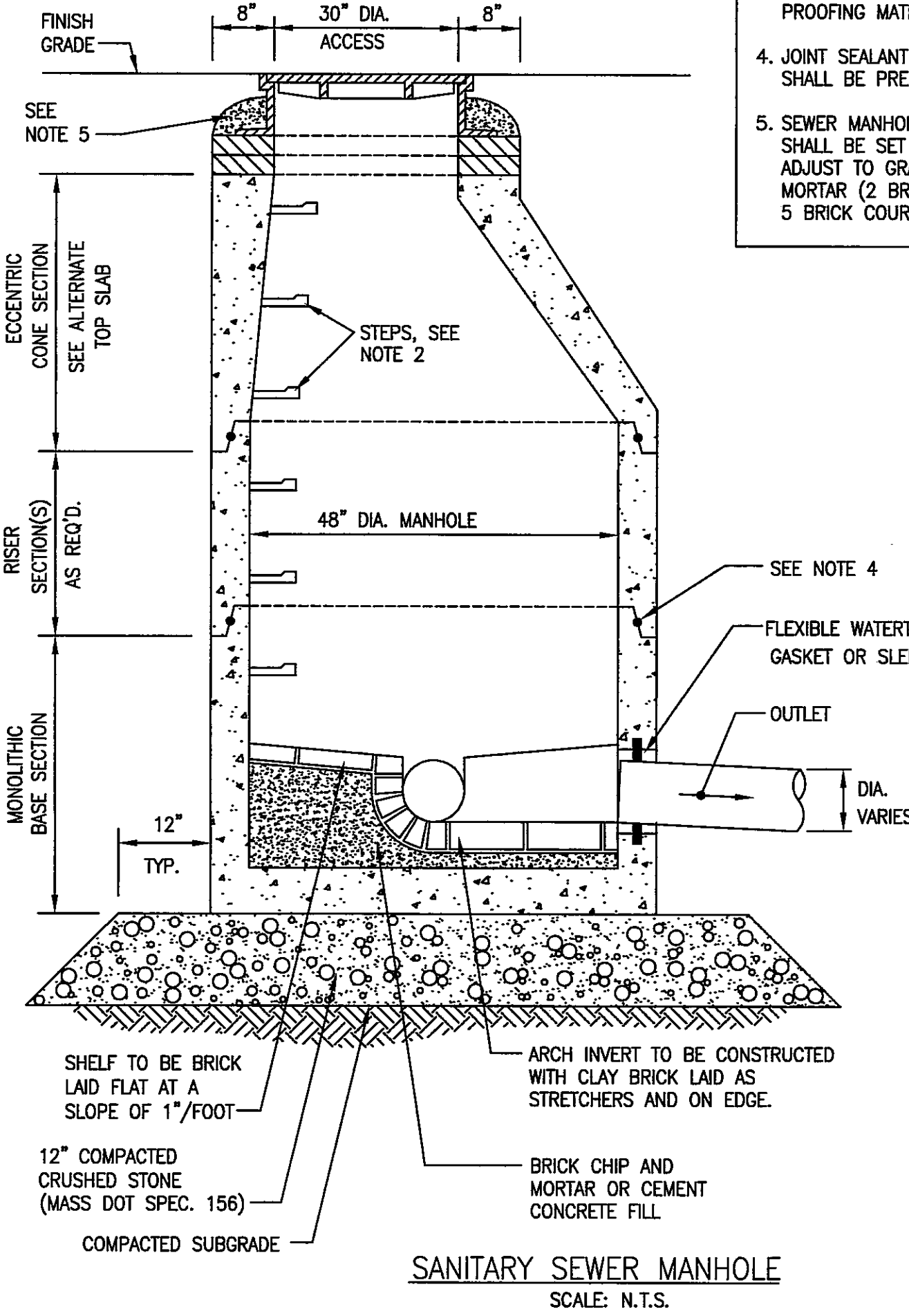
Construction Detail Plan

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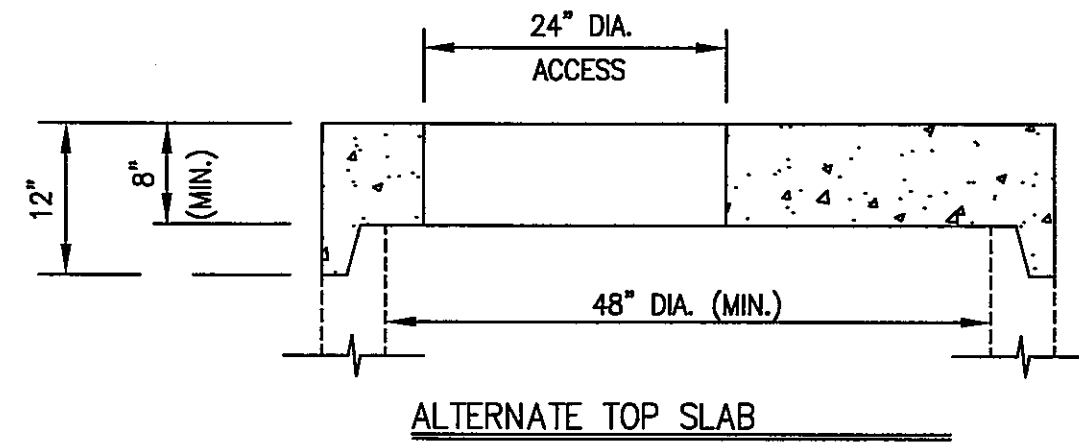
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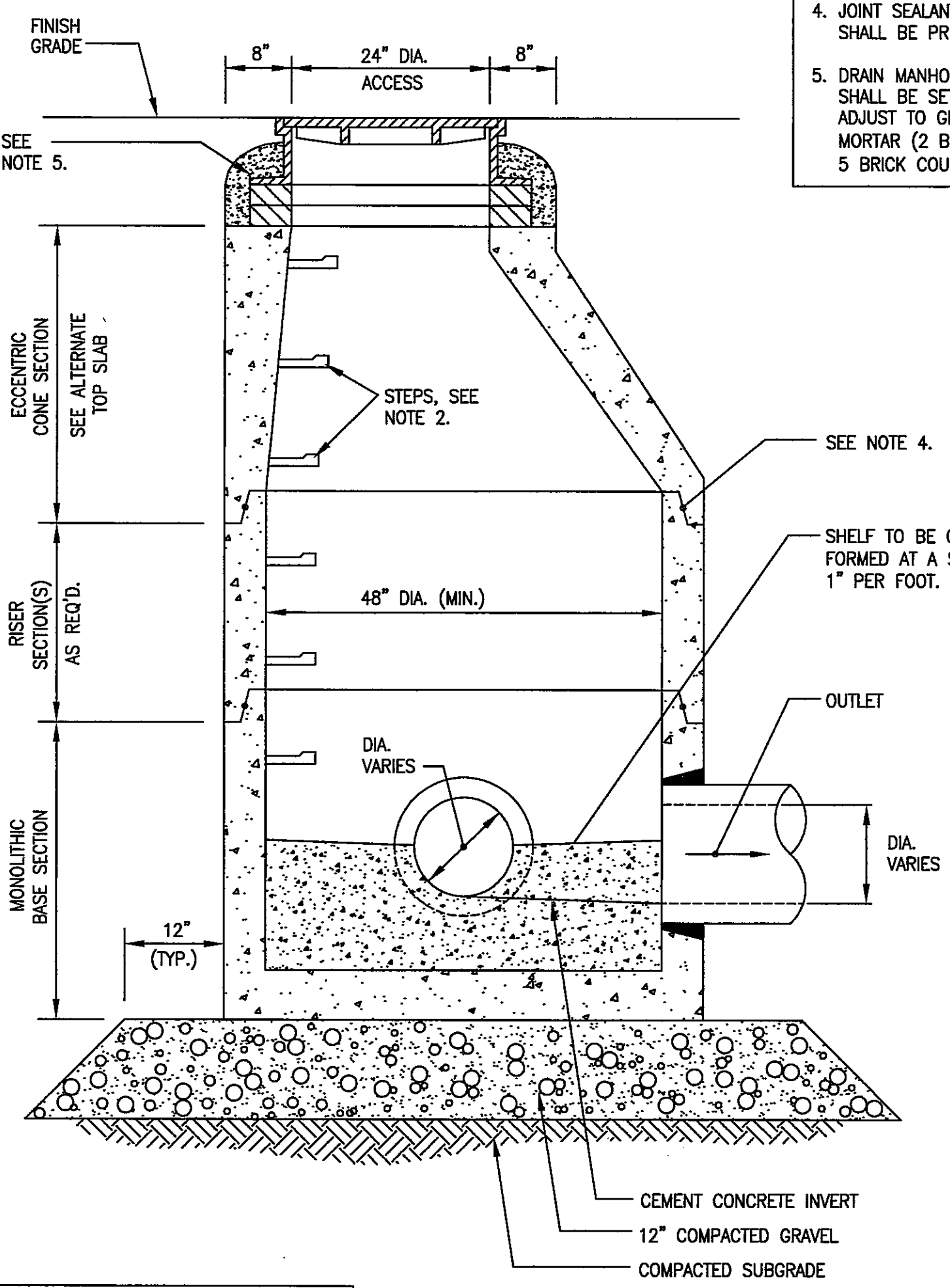
- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)



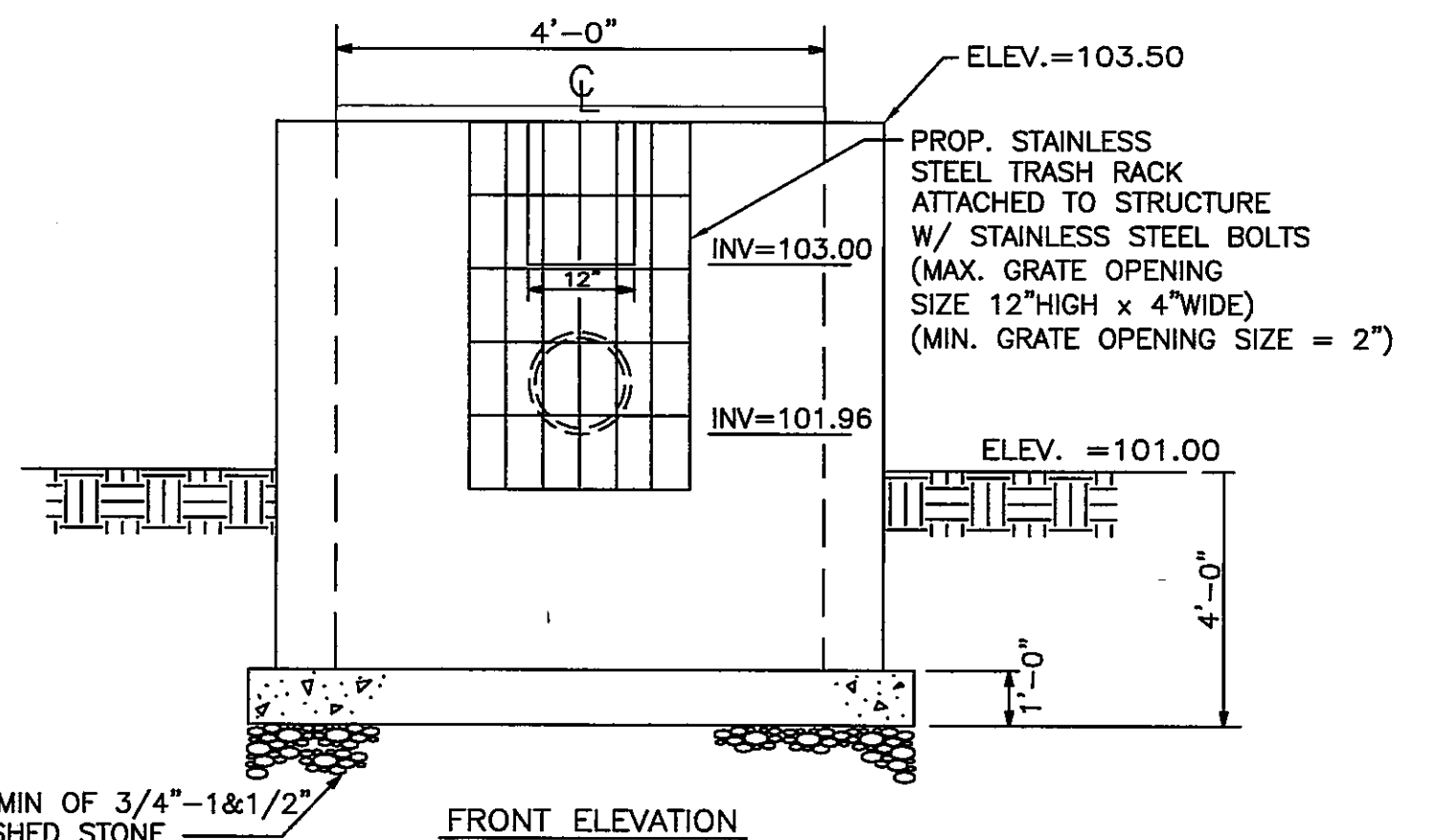
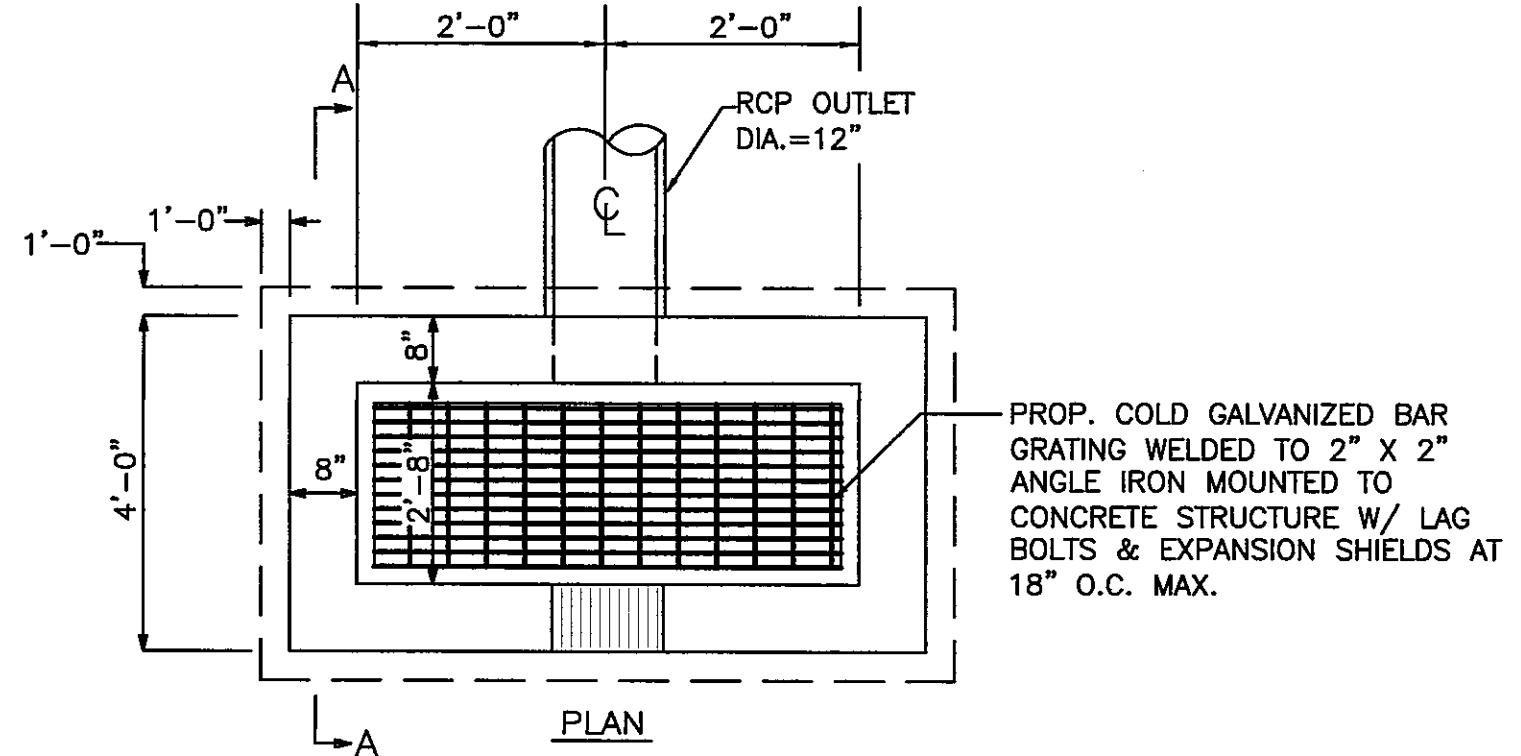
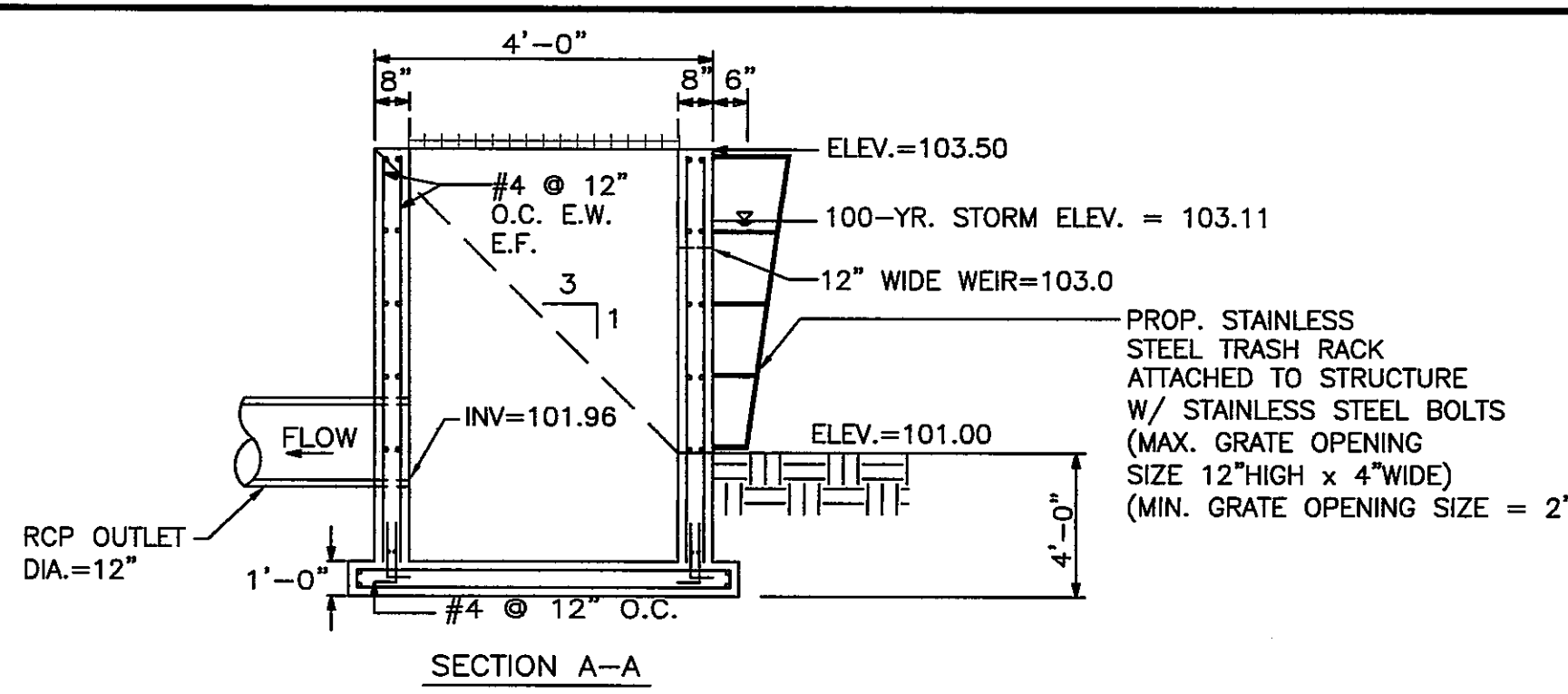
SANITARY SEWER MANHOLE
SCALE: N.T.S.



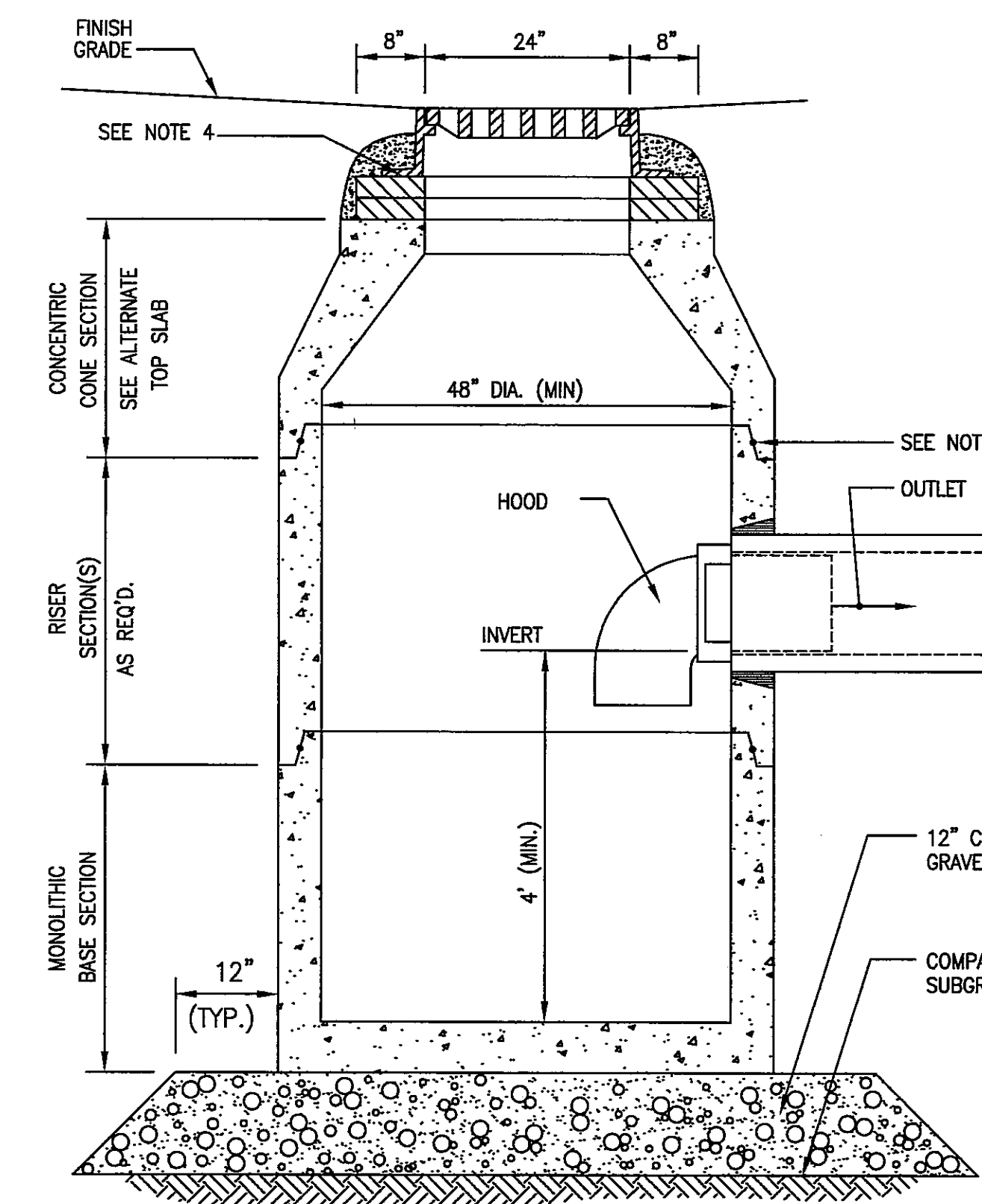
- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)



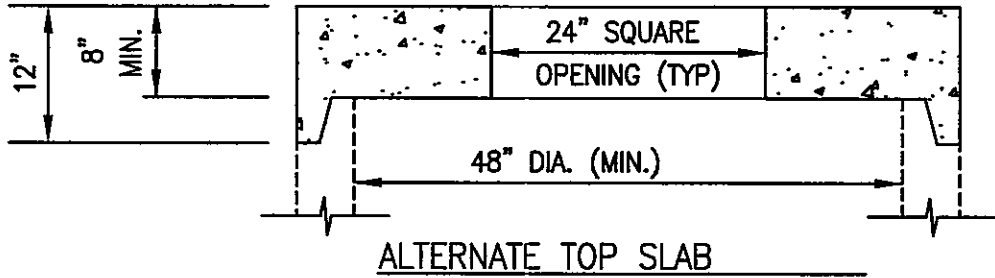
DRAIN MANHOLE DETAIL
SCALE: N.T.S.



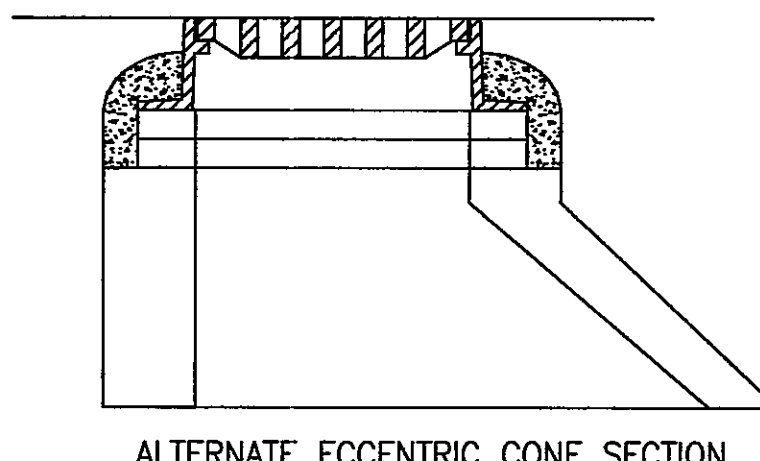
BASIN OUTLET CONTROL STRUCTURE
SCALE: N.T.S.



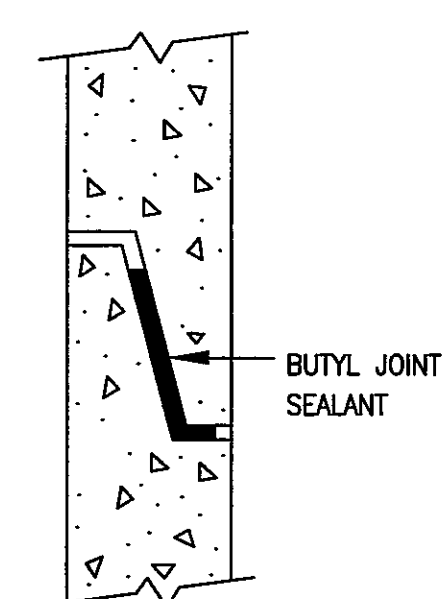
CATCH BASIN W/HOOD
SCALE: N.T.S.



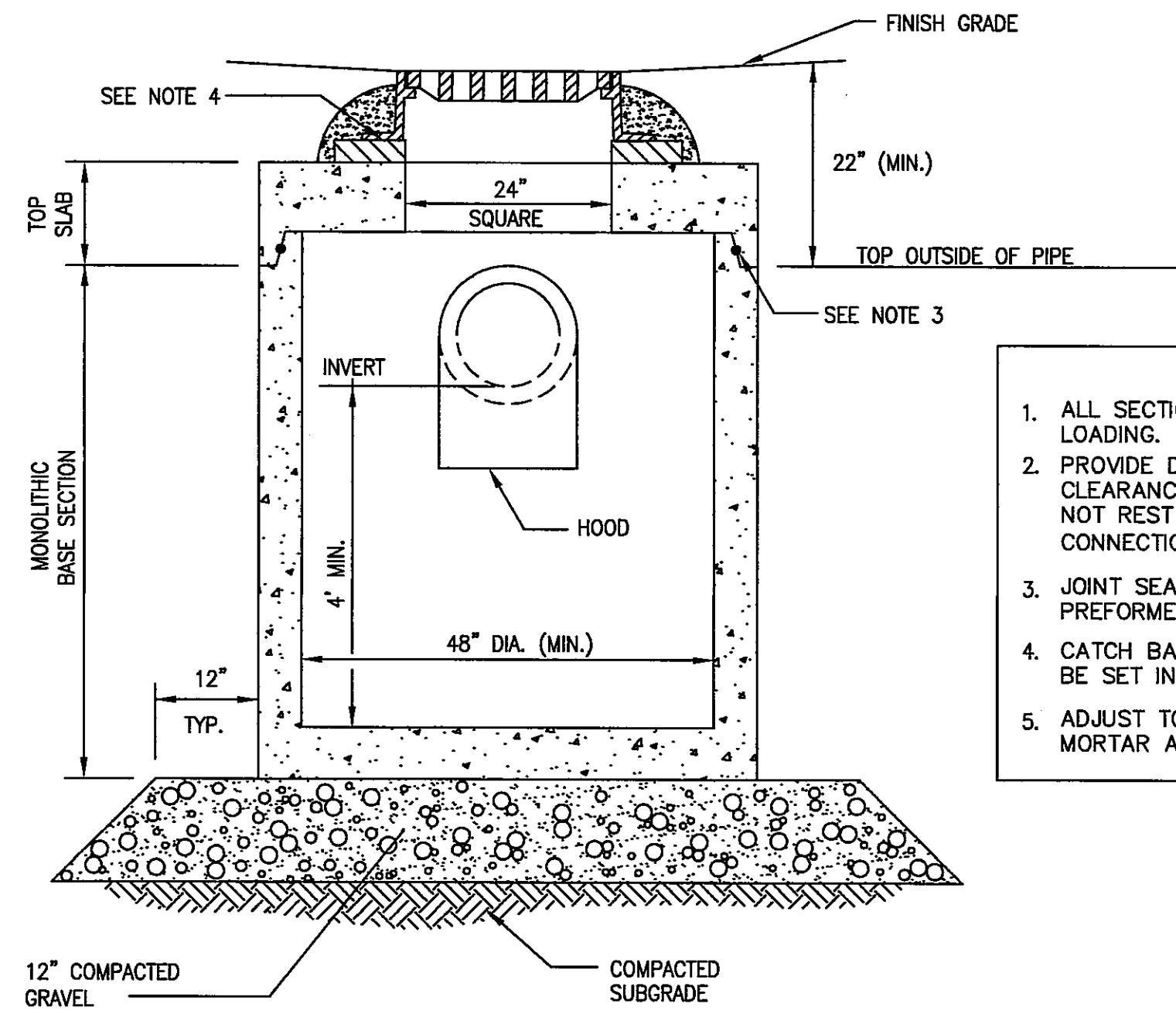
- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)



ALTERNATE ECCENTRIC CONE SECTION



PREFORMED FLEXIBLE
JOINT SEALANT
JOINT DETAIL
SCALE: N.T.S.



CATCH BASIN SHALLOW COVER WITH HOOD
SCALE: N.T.S.

- NOTES:
1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
 2. PROVIDE DOCHOUSE OPENING FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS (NON-SHRINK GROUT).
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
 4. CATCH BASIN FRAME AND GRATE (4" DEPTH) SHALL BE SET IN FULL MORTAR BED.
 5. ADJUST TO FINISH GRADE WITH CLAY BRICK AND MORTAR AS REQUIRED.

REV	DATE	DESCRIPTION	BY	APP
1				

McKenzie Engineering Group, Inc.
180 LONGWATER DRIVE
SUITE 101
MILTON, MA 01803
PHONE: (781) 768-3500
FACSIMILE: (781) 768-0333

PLANNED UNIT TOWNHOUSE
DEVELOPMENT
865 BRUSH HILL ROAD
(ASSESSORS MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:
BRADLEY C. MCKENZIE
CIVIL ENGINEER
LICENSE NO. 26891
COMMONWEALTH OF MASSACHUSETTS

OWNER/APPLICANT:
Milton NRC, LLC
20 Mail Road
Suite 220
Burlington, MA 01803

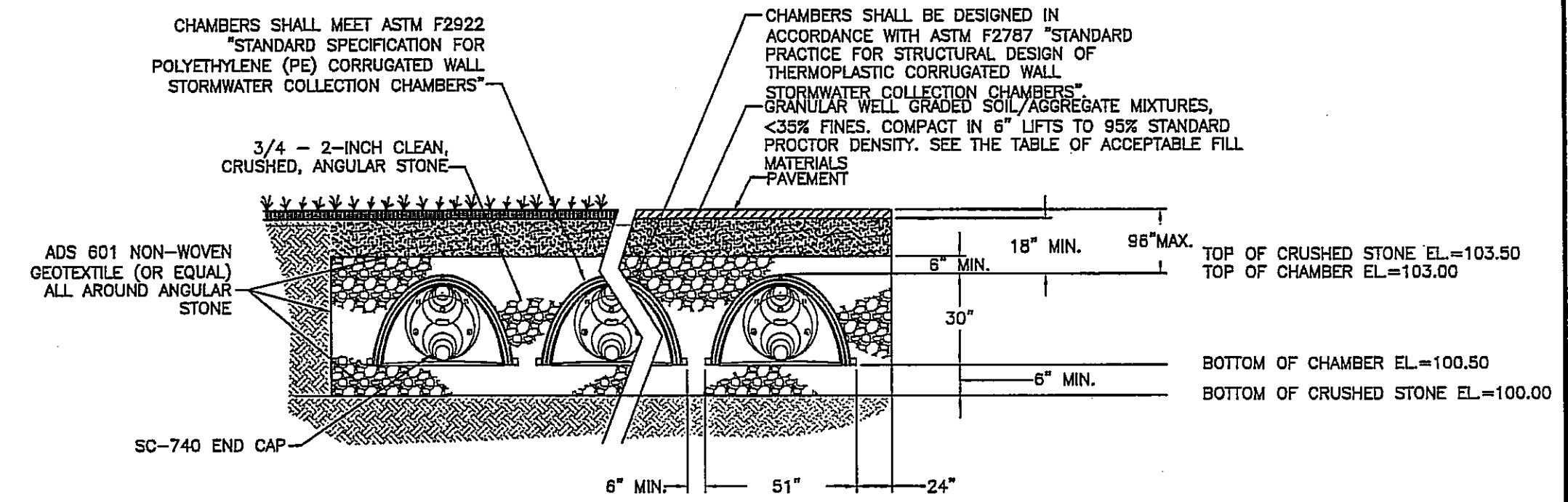
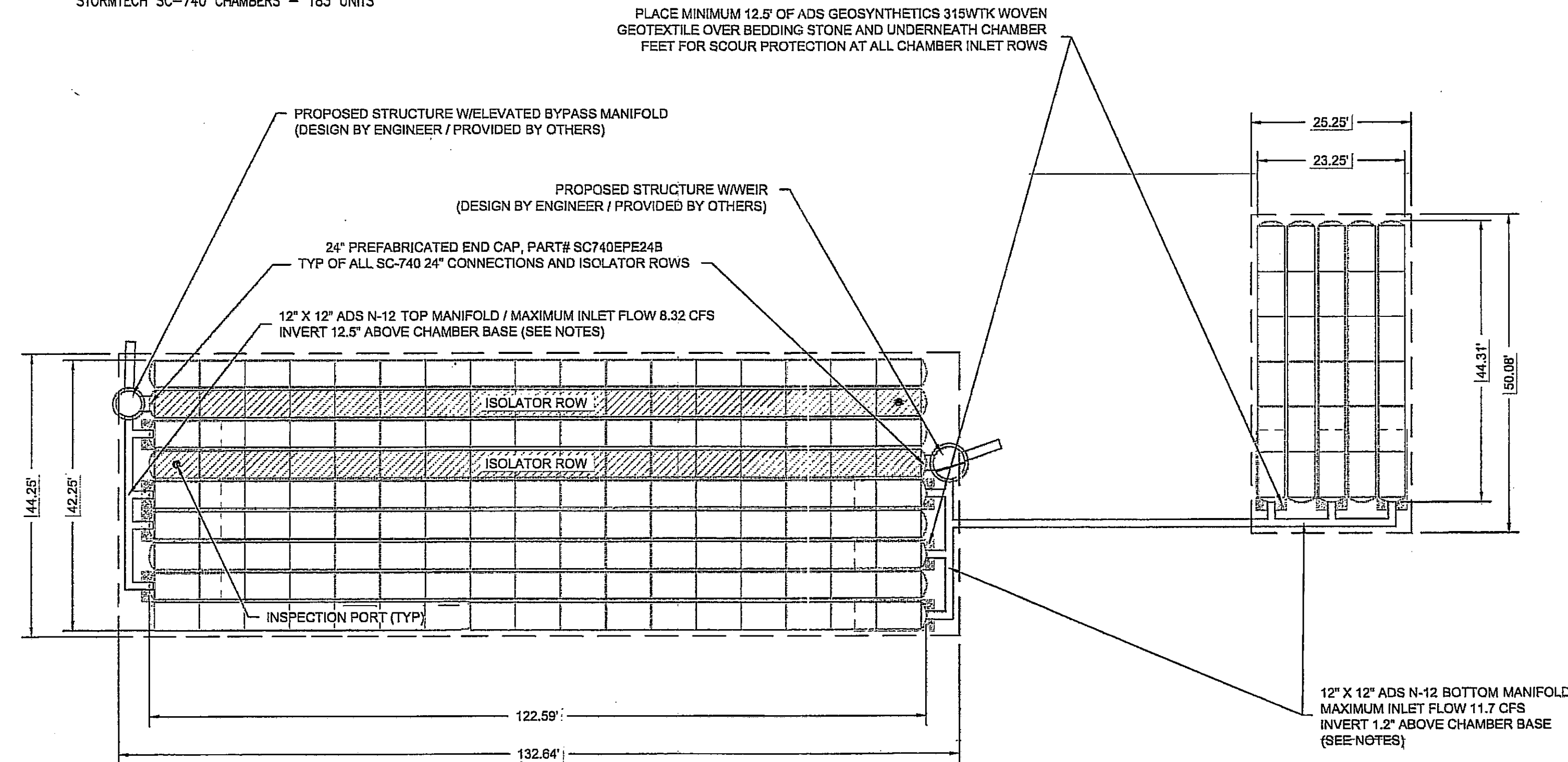
DRAWN BY:	JS
DESIGNED BY:	DMK
CHECKED BY:	DMK
APPROVED BY:	BCM
DATE:	MAY 13, 2015
SCALE:	NTS
PROJECT NO.:	214-122
DWG. TITLE:	

Construction
Detail Plan

DWG. No: 10

SUBSURFACE INFILTRATION SYSTEM (DP1) SECTION SCALE: N.T.S.

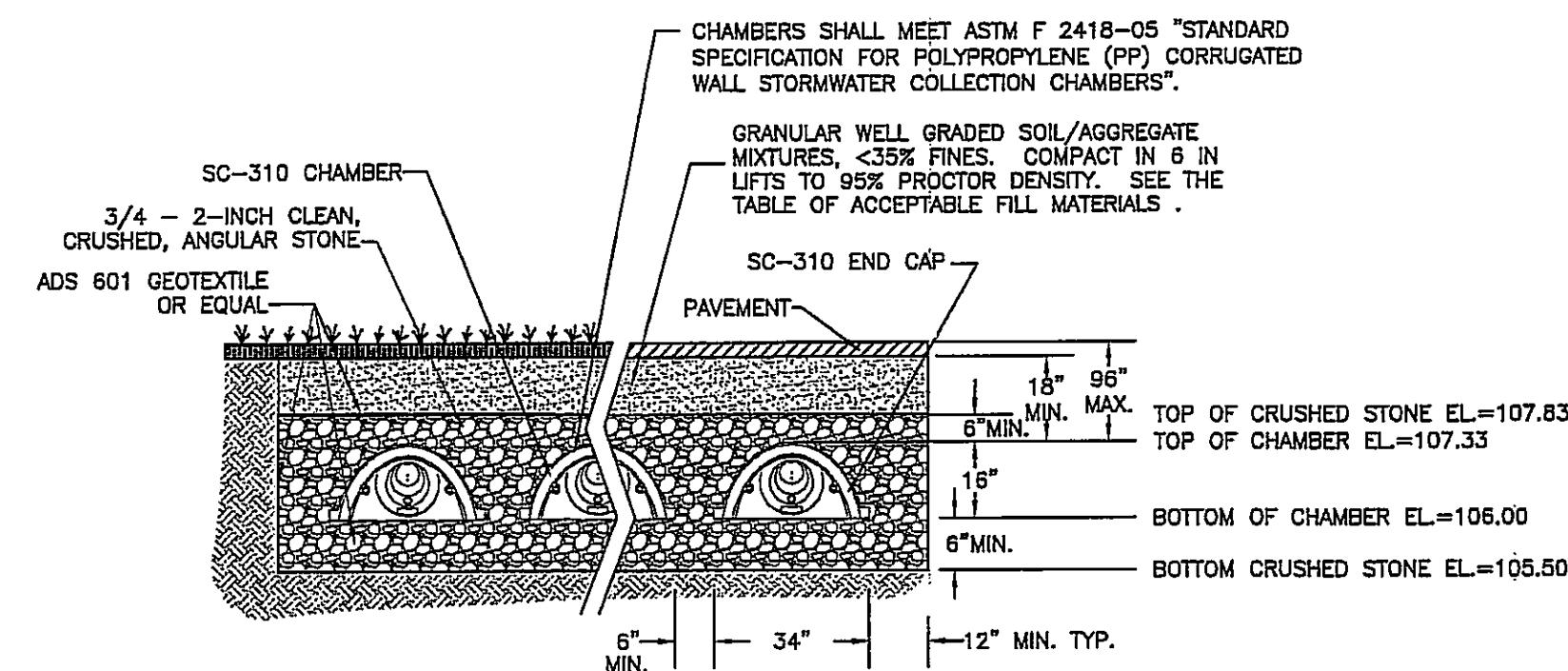
STORMTECH SC-740 CHAMBERS - 183 UNITS



TYPICAL SECTION SC-740 CHAMBERS

SUBSURFACE INFILTRATION SYSTEM (POND 3A) SECTION SCALE: N.T.S.

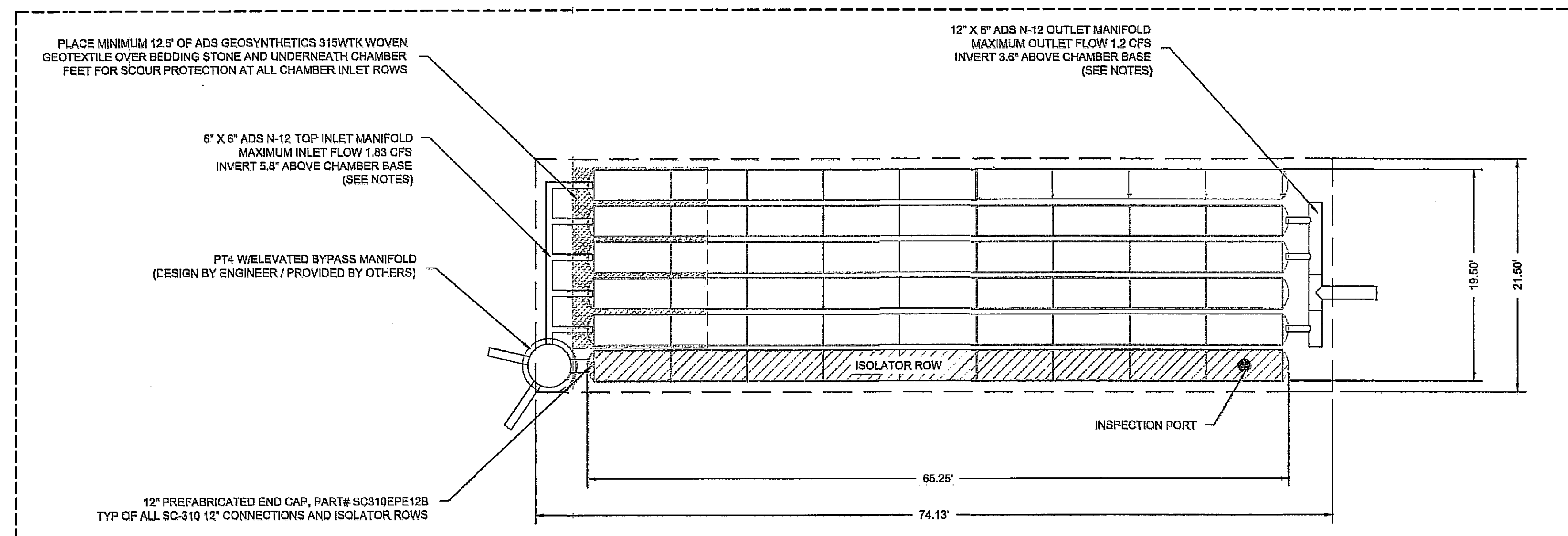
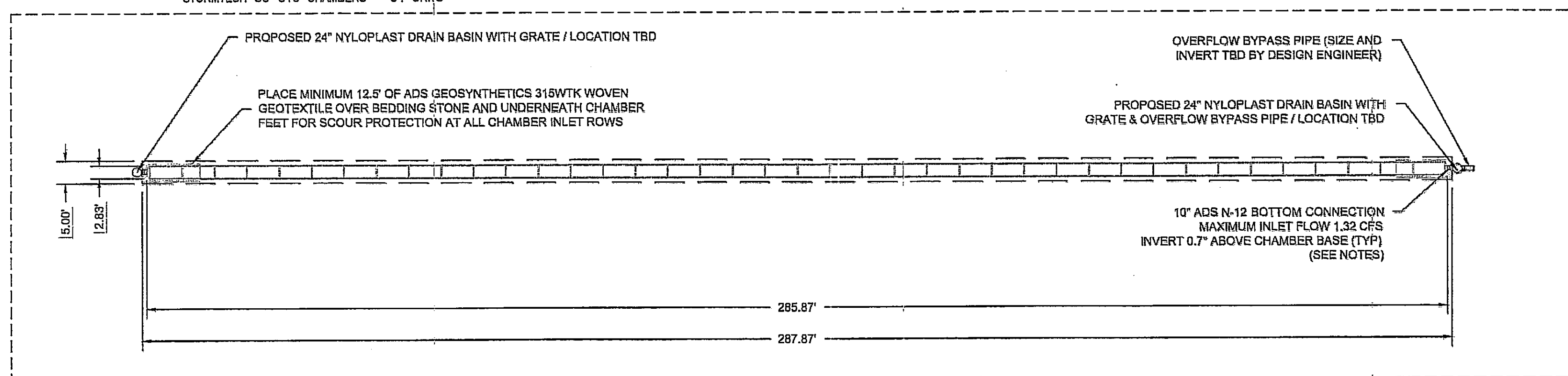
STORMTECH SC-310 CHAMBERS - 40 UNITS



TYPICAL SECTION SC-310 CHAMBERS

SUBSURFACE INFILTRATION SYSTEM (POND 3B) SECTION SCALE: N.T.S.

STORMTECH SC-310 CHAMBERS - 54 UNITS



REV	DATE	DESCRIPTION	BY	APP
1				

McKenzie Engineering Group, Inc.

180 LONGWATER DRIVE
SUITE 101
MILTON, MA 01801
PHONE: (781) 966-3800
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PLANNED UNIT TOWNHOUSE DEVELOPMENT

865 BRUSH HILL ROAD
(ASSESSOR'S MAP B 12, LOTS 8A, 8B & 2B)
MILTON, MASSACHUSETTS

PROFESSIONAL ENGINEER:

BRADLEY C. MCKENZIE
No. 00917
Professional Seal

PERMIT PLAN SET

OWNER/APPLICANT:

Milton NRC, LLC
20 Mall Road
Suite 220
Burlington, MA 01803

DRAWN BY: JS
DESIGNED BY: DWK
CHECKED BY: DWK
APPROVED BY: BCM
DATE: MAY 13, 2015
SCALE: NTS
PROJECT NO.: 214-122
DWG. TITLE:

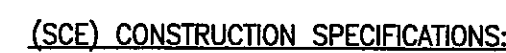
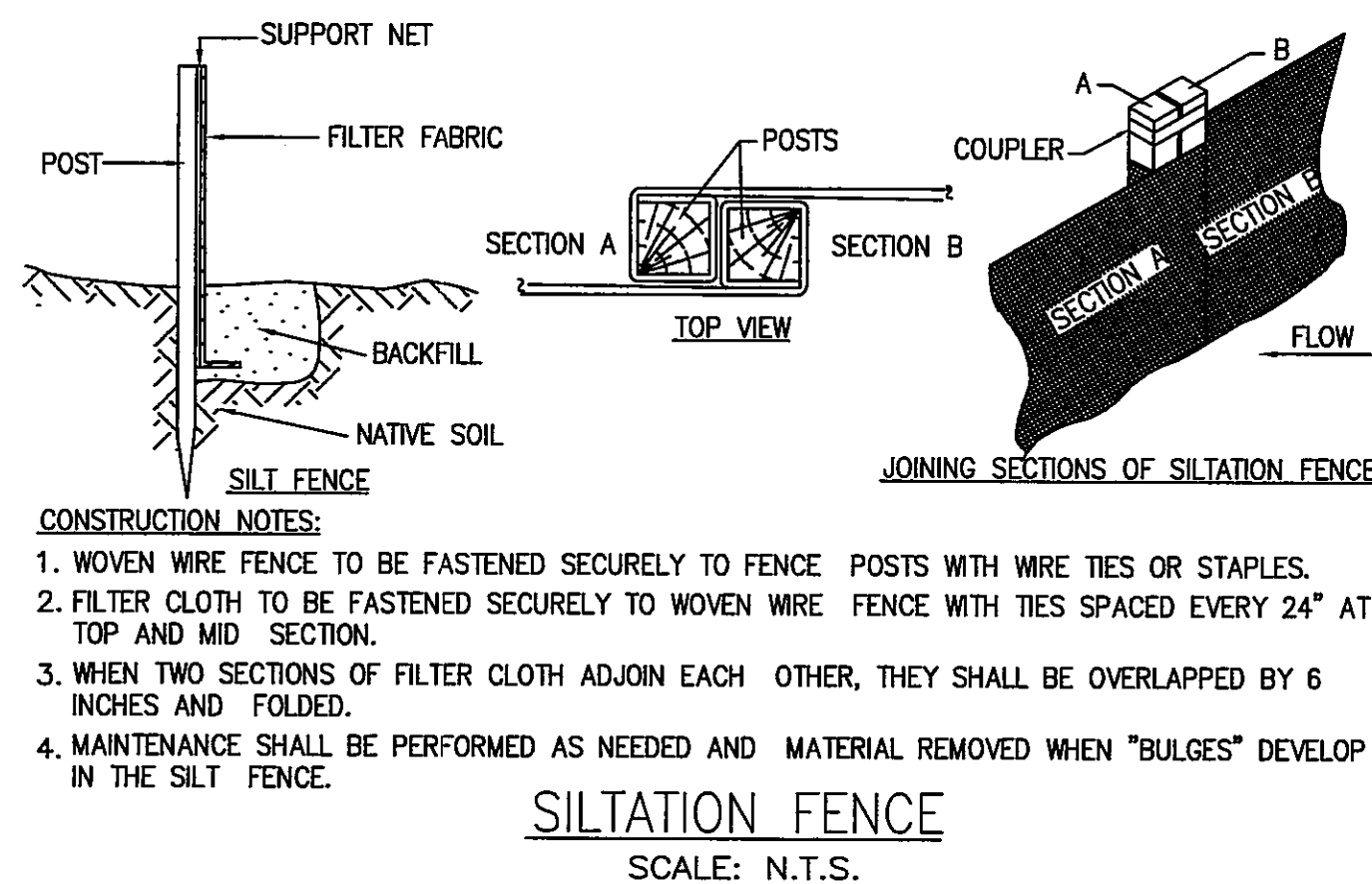
Construction Detail Plan

DWG. No: **11**

1. WIDELY ACCEPTED PRACTICES FOR REDUCING EROSION AND SEDIMENTATION WILL BE EMPLOYED IN THE DEVELOPMENT OF THIS SITE. REFER TO THE APPROVED CONSTRUCTION PHASE BEST MANAGEMENT PRACTICES OPERATION & MAINTENANCE PLAN.
2. THE DEVELOPMENT OF THE SITE HAS BEEN PLANNED TO ENHANCE THE EXISTING TOPOGRAPHY AND VEGETATIVE COVER. ALL NATURAL DRAINAGE PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
3. STEEP SLOPES, WHERE POSSIBLE, WILL NOT BE DISTURBED.
4. NATURAL WATERWAYS WILL BE PRESERVED AND PROTECTED, AND EXISTING VEGETATION WILL BE RETAINED AND PROTECTED TO THE EXTENT POSSIBLE.
5. THE ROADWAY CONFORMS TO EXISTING LAND CONTOURS WHERE PRACTICAL.
6. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED LAND TO THE EXTENT FEASIBLE.
7. SEDIMENT CONTROL MEASURES WILL BE APPLIED TO CONTROL ANY SEDIMENTS THAT MAY BE PRODUCED AS A RESULT OF SITE CONSTRUCTION ACTIVITIES. EROSION AND DEPOSITION OF SEDIMENT WILL BE CLOSELY MONITORED DURING CONSTRUCTION.
8. TEMPORARY EROSION CONTROL MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT SOCK, CHECK DAMS, SEDIMENT FOREBAYS, STABILIZED CONSTRUCTION ENTRANCES, FILTER FABRIC SILT FENCES, SEEDING AND MULCHING, AND SEEDED FILTER STRIPS.
9. TOPSOIL STRIPPED FROM CUT AND FILL AREAS WILL BE STOCKPILED FOR LOAMING AND SEEDING AT LATER CONSTRUCTION STAGES. THE STOCKPILES SHALL BE LOCATED SO AS TO ACT AS TEMPORARY DIVERSIONS, GENERALLY ON THE UPHILL SLOPE.
10. ALL CUT AREAS LOCATED AT TOES OF SLOPES AND DITCHES THAT HAVE GRADES EXCEEDING 5% SHALL BE STABILIZED WITH RIP-RAP. THE RIP-RAP SHALL CONSIST OF 50% STONES GREATER THAN 6" IN SIZE. SWALES SHALL BE 6" IN DEPTH AND APPROXIMATELY 5" IN WIDTH. ALL SLOPES WILL BE BLENDED INTO THE EXISTING TOPOGRAPHY TO MINIMIZE IMPACT.
11. SITE DEVELOPMENT WILL NOT COMMENCE UNTIL ALL TEMPORARY EROSION CONTROL MEASURES ARE IN PLACE. THESE MEASURES SHALL BE EMPLOYED UNTIL FINAL PAVING AND ADEQUATE VEGETATION HAS BEEN ESTABLISHED.

TO PREVENT EXCESSIVE EROSION AND SILTING, THE FOLLOWING CONSTRUCTION SEQUENCE COUPLED WITH OTHER WIDELY ACCEPTED PRINCIPALS FOR REDUCING EROSION AND SEDIMENTATION SHALL BE IMPLEMENTED IN THE DEVELOPMENT OF THE SITE. REFER TO THE APPROVED CONSTRUCTION PHASE BEST MANAGEMENT PRACTICES OPERATION & MAINTENANCE PLAN.

1. THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY WITH THE DEVELOPER, CONSERVATION AGENT AND ANY INTERESTED TOWN DEPARTMENT REPRESENTATIVES.
2. STABILIZATION PRACTICES FOR EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. PLACE SILTATION FENCE AND SILT SACK BARRIERS AT LOCATIONS INDICATED ON THE SITE PLANS.
3. CLEAR AND GRUB AREAS AS REQUIRED FOR THE CONSTRUCTION OF THE ROADWAY, STORMWATER INFILTRATION BASIN AND RELATED INFRASTRUCTURE. ALL TEMPORARY STOCKPILES OF BRUSH, TREE LIMBS, TREE TRUNKS & STUMPS SHALL BE SURROUNDED WITH EROSION CONTROL BARRIER PER THE CONSTRUCTION PHASE OPERATION & MAINTENANCE PLAN.
ALL BRUSH, TREE LIMBS, TREE TRUNK & STUMP DISPOSAL SHALL TAKE PLACE OFF SITE AND WITHIN 30 DAYS OF CUTTING. ALL DISPOSAL SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
4. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT PROPOSED CURB CUT LOCATION.
5. EXCAVATE TOPSOIL AND SUBSOIL FROM CUT AND FILL AREAS AND STOCKPILE ON SITE IN LOCATIONS SHOWN ON THE PLAN. CONSIDERATION SHOULD BE GIVEN TO LOCATING STOCKPILES ON THE UPHILL SIDE OF DISTURBED AREAS, WHERE POSSIBLE, TO ACT AS TEMPORARY DIVERSIONS.
6. CONSTRUCT CUT AND FILL AREAS, INSTALLING HAYBALE CHECK DAMS AT TOES OF ALL 3:1 OR GREATER SLOPES, AND AT ENDS OF ALL CUT AREAS. ALL FILL WILL BE INSTALLED USING 12" MAXIMUM COMPACTION LIFTS. PLACE ALL SLOPE PROTECTION WHERE INDICATED ON THE PLAN.
7. THE STORMWATER INFILTRATION BASIN SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE ROADWAY FINE GRADING IS COMPLETED AND THE AREA HAS BEEN CLEARED OF VEGETATION. A PROPOSED TEMPORARY EARTH BERM SHALL BE PLACED UPGRADIENT OF THE INFILTRATION BASIN IMMEDIATELY AFTER THE BASIN IS CONSTRUCTED. THE BERM SHALL REMAIN IN PLACE DURING SITE CONSTRUCTION AND REMOVED ONLY AFTER FINAL SITE GRADING HAS BEEN ESTABLISHED.
8. INSTALL CLOSED DRAINAGE SYSTEM AND OTHER UTILITIES. ALL CATCH BASINS SHALL BE PROTECTED WITH SILT SACK SEDIMENT TRAPS AND OTHER EROSION CONTROL MEASURES AS SHOWN ON THE PLANS.
9. GRADE ROADWAY TO SUBGRADE ELEVATION AND CONSTRUCT SIDE SLOPES. APPLY TEMPORARY STABILIZATION MEASURES WHERE WARRANTED.
10. PLACE GRAVEL SUBBASE PER TYPICAL PAVEMENT DETAIL.
11. PLACE THE BITUMINOUS CONCRETE BINDER COURSE ON THE ROADWAY. SET CATCH BASIN GRATES FLUSH WITH THE BINDER COURSE. ALL CATCH BASINS SHALL BE INSTALLED WITH SILT SACKS.
12. GRADE SLOPES AND STABILIZE CUT AREAS AT TOE OF SLOPES. BLEND ALL SLOPES INTO EXISTING TOPOGRAPHY AND LOAM AND SEED ALL DISTURBED AREAS. SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH OR RIP-RAP SLOPE AS APPLICABLE.
13. COMMENCE ROADWAY DEVELOPMENT ONCE ALL EROSION CONTROL MEASURES ARE IN PLACE.
14. PLACE THE FINAL WEARING COURSE OF PAVEMENT. RESET CATCH BASIN GRATES TO FINAL PAVEMENT GRADE.
15. COMPLETE FINE GRADING OF SHOULDERS AND PLACE PAVEMENT IN MISCELLANEOUS AREAS.
16. COMPLETE POST CONSTRUCTION ROADWAY SWEEPING.
17. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE ALL SURFACES HAVE BEEN STABILIZED WITH ADEQUATE GROWTH. ADEQUATE GROWTH IS DEFINED AS VEGETATION COVERING 75% OR MORE OF THE GROUND SURFACE.



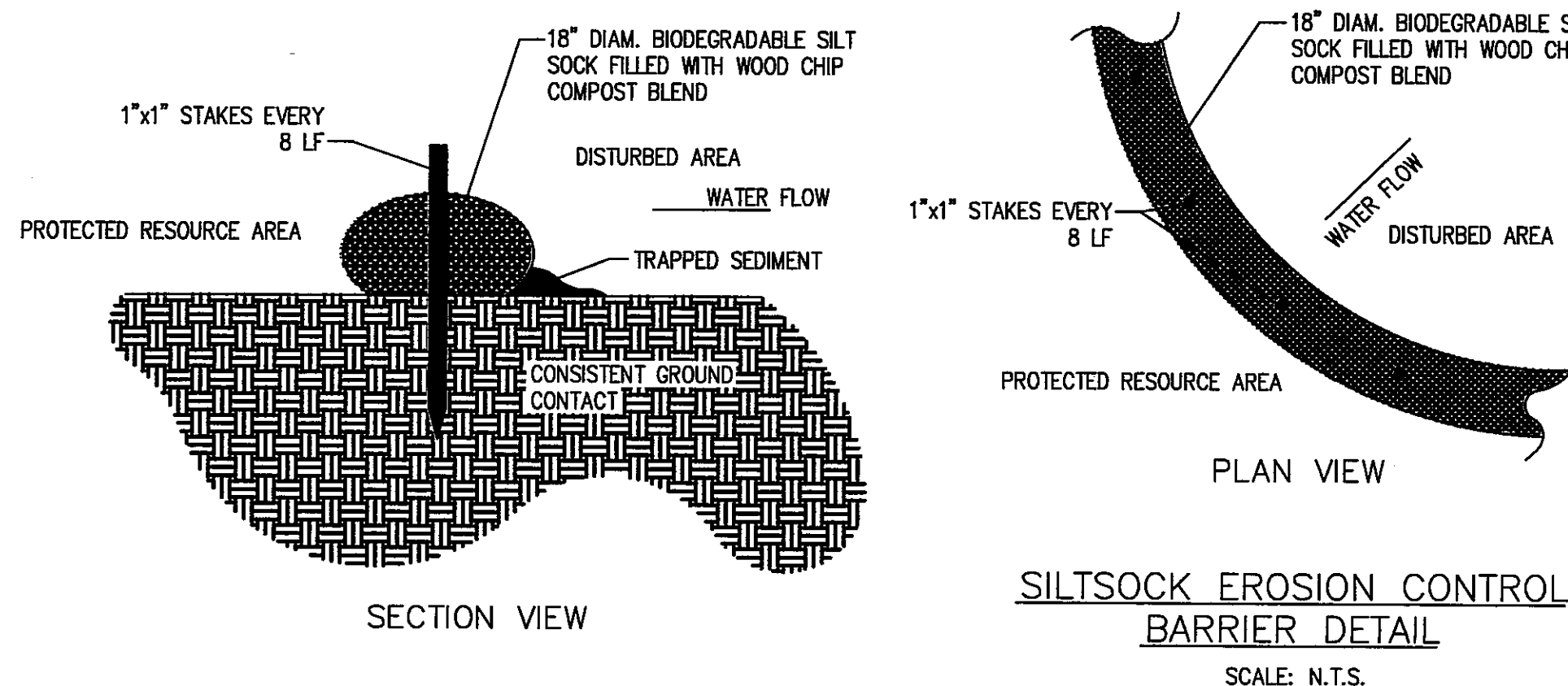
1. STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE MINIMUM 2 INCH, RECLAIMED STONE.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 60 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.

SCALE: N.T.S.



1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
2. GRATE TO BE PLACED OVER SILTSACK.
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

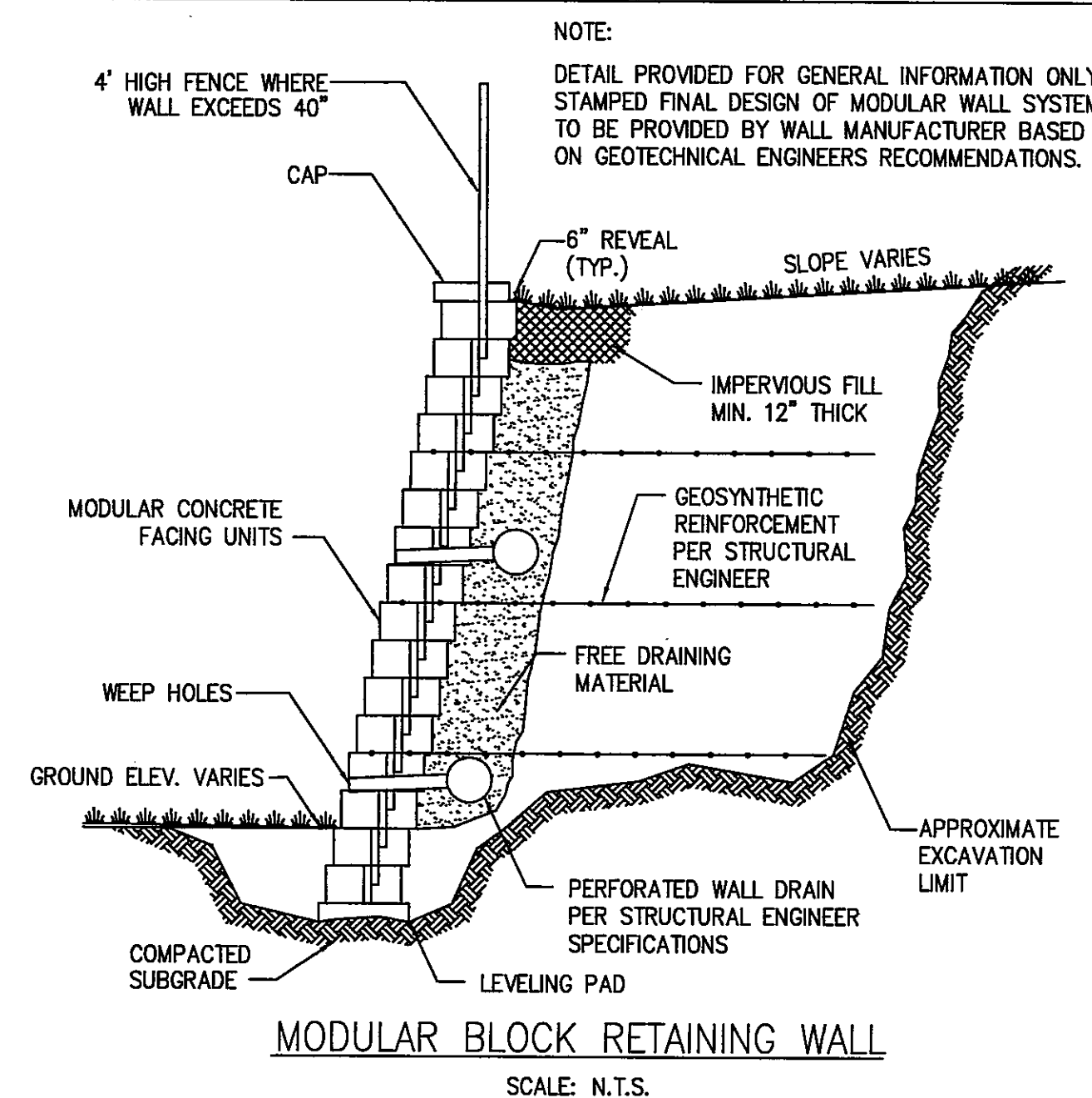
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1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKET END OVER END WITH 6 INCH (MIN.) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

SLOPE STABILIZATION

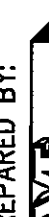
SCALE: N.T.S.



- CONSTRUCTION NOTES:

- 1) SILT SOCKS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY BUTTING OR LAPPING THE ADJACENT SECTIONS.
- 2) SILT SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN EVERY 8 LF.
- 3) INSPECTION SHALL BE FREQUENT, AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
- 4) SILT SOCKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

	REV	DATE	DESCRIPTION	BY	APP
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PREPARED BY: 	PLANNED UNIT TOWNHOUSE DEVELOPMENT 865 BRUSH HILL ROAD (ASSESSOR'S MAP B 12; LOTS 8A, 8B & 2B) MILTON, MASSACHUSETTS

OWNER/APPLICANT: Milton NRC, LLC 20 Mall Road Suite 220 Burlington, MA 01803	PROFESSIONAL ENGINEER:	PERMIT PLAN SET
		

DRAWN BY:	JS
DESIGNED BY:	DWK
CHECKED BY:	DWK
APPROVED BY:	BCM
DATE:	MAY 13, 2015
SCALE:	NTS
PROJECT NO.:	214-122
DWG. TITLE:	

Construction Detail Plan	12

