

"NERINA ESTATES"
A DEFINITIVE SUBDIVISION
BELLINGHAM, MASSACHUSETTS
FEBRUARY 2, 2017

PREPARED FOR:

JOHN L. WASYLEAN, JR.
801 PULASKI BLVD.
BELLINGHAM, MA 02019

PREPARED BY:

ANDREWS SURVEY & ENGINEERING, INC.
104 MENDON STREET
P.O. BOX 312
BELLINGHAM, MA 01569
P: 508.278.3897
F: 508.278.2289

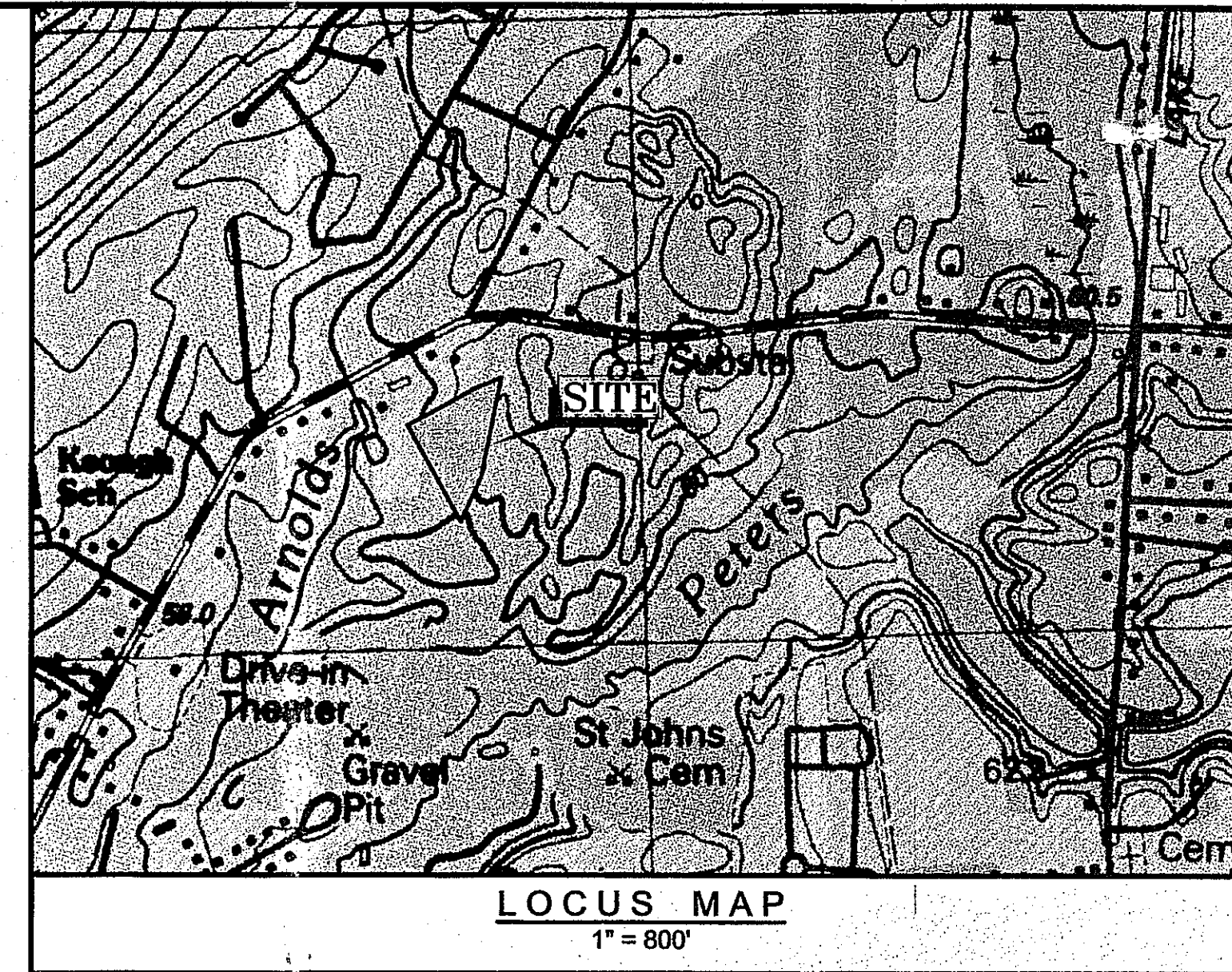
WAIVER REQUEST

THE APPLICANT REQUESTS A WAIVER TO ALLOW FOR NO BERMS WITHIN THE PROJECT EXCEPT WHERE SHOWN. IN LIEU OF THIS, AN OPEN DRAINAGE CHANNEL SYSTEM AS PROPOSED, FROM SECTION 245-12.G. OF THE SUBDIVISION REGULATIONS, WHICH STATES:

"BITUMINOUS CONCRETE BERMS OR CURBS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROADWAYS IN CONFORMITY WITH THE TYPICAL CROSS SECTION APPENDED HERETO,[2] EXCEPT WHEN WAIVED BY THE BOARD WHERE OPEN DRAINAGE SYSTEMS ARE BEING RELIED UPON..."

NOTE REGARDING WORK WITHIN MASSACHUSETTS ELECTRIC COMPANY EASEMENT:

NO BUILDINGS OR STRUCTURES ARE TO BE ERECTED WITHIN THE EASEMENT AREA.



OWNER OF RECORD:
JOHN J. WASYLEAN, JR.
801 PULASKI BLVD.
BELLINGHAM, MA 02019

BELLINGHAM ASSESSORS INFORMATION:
MAP 87, LOT 63
PARCEL AREA:177,186 S.F. OR 4.06 ACRES (ALL UPLAND).

BELLINGHAM ZONING INFORMATION:
 ZONE: S (SUBURBAN)(SINGLE FAMILY)
 MINIMUM AREA: 40,000 S.F.
 MINIMUM FRONTAGE: 150'
 SETBACKS: FRONT 30', SIDE 15', REAR 20'
 SHAPE FACTOR=22' OR LESS

DEED REFERENCE:
BK. 7456, PG. 362

PLAN REFERENCE:
P.B. 647, PL. 21
P.B. 631, PL. 94
P.B. 446, PL. 151
P.B. 226, PL. 899
P.B. 247, PL. 103

DRAWING DATE	LAST REVISION	SHEET NO.	SHEET TITLE
2/22/2017	5/8/2018	C-0.0	COVER SHEET
2/22/2017	5/8/2018	C-1.0	LEGEND, ABBREVIATIONS, & GENERAL NOTES
2/22/2017	5/8/2018	C-2.0	EXISTING CONDITIONS PLAN
2/22/2017	5/8/2018	C-3.0	DEFINITIVE SUBDIVISION PLAN
2/22/2017	5/8/2018	C-4.0	TOPOGRAPHIC, UTILITY & EROSION CONTROL PLAN
2/22/2017	5/8/2018	C-5.0	ROADWAY PLAN & PROFILE SHEET
2/22/2017	5/8/2018	C-6.0-6.2	CONSTRUCTION DETAILS
2/22/2017	5/8/2018	C-7.0	EROSION & SEDIMENT CONTROL NOTES & DETAILS

GOVERNMENT / UTILITY CONTACTS

BELLINGHAM POLICE DEPT.
30 BLACKSTONE STREET
BELLINGHAM, MA 02019
PHONE: 508-966-1515
FAX: 508-966-1515
ATTN: GERARD L. DAIGLE, JR., CHIEF OF POLICE

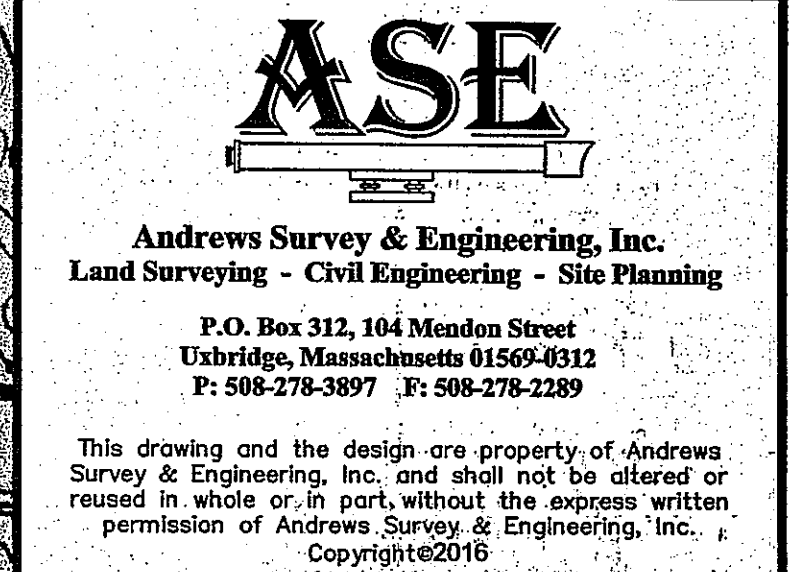
BELLINGHAM FIRE DEPT.
28 BLACKSTONE STREET
BELLINGHAM, MA 02019
PHONE: 508-966-1112
FAX: 508-966-5835
ATTN: STEVEN P. GENTILE, FIRE CHIEF

**BELLINGHAM D.P.W.
DPW GARAGE
26 BLACKSTONE STREET
BELLINGHAM, MA 02019-1602
PHONE: 508-966-5816
FAX: 508-966-5814
ATTN: DONALD DIMARTINO, D**

BELLINGHAM INSPECTIONAL SERVICES
MUNICIPAL CENTER
10 MECHANIC STREET
BELLINGHAM, MA 02019
PHONE: 508-966-5821
FAX: 508-966-5844
ATTN: TIM AICARDI, BUILDING INSPECTOR

MASSACHUSETTS ELECTRIC CO.
PHONE: 800-322-3223

VERIZON COMMUNICATIONS
PHONE: 800-870-9999



APPROVAL UNDER SUBDIVISION CONTROL LAW
REQUIRED. BELLINGHAM PLANNING BOARD

BEING A MAJORITY DATE: 6/25/15

THIS CERTIFIES THAT THE NOTICE OF APPROVAL
OF THIS PLAN BY THE BELLINGHAM PLANNING
BOARD HAS BEEN RECEIVED AND RECORDED ON
_____ AT _____ AND NO APPEAL
WAS RECEIVED DURING THE 20 DAYS NEXT AFTER
SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK		DATE
PROJECT:	NERINA ESTATES DEFINITIVE SUBDIVISION 799-801 PULASKI BLVD. BELLINGHAM, MA 02019	
APPLICANT:	JOHN J. WASYLEAN, JR. 799-801 PULASKI BLVD. BELLINGHAM, MA 02019	

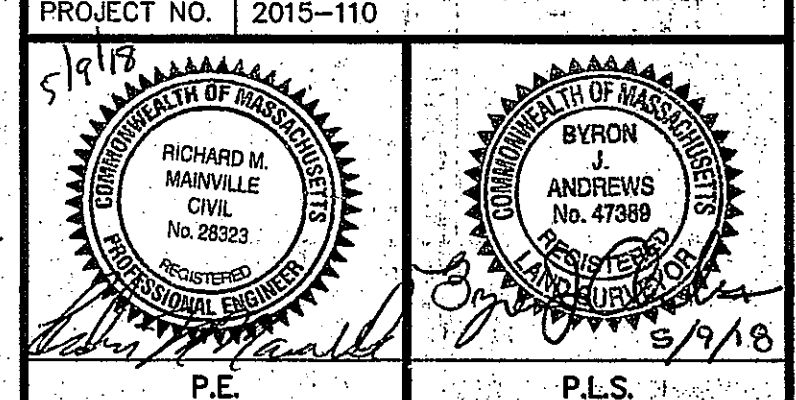
REVISIONS		
NO.	DATE	DESCRIPTION
1	6/7/17	PLANNING & PEER REVIEW COMMENTS
2	6/22/17	NATIONAL GRID REQUIREMENTS
3	6/26/17	NATIONAL GRID COMMENTS
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8	1/05/18	FIRE DEPT. COMMENTS
9	3/20/18	PLANNING & PEER REVIEW COMMENTS
10	4/23/18	PER PEER REVIEW COMMENTS
11	5/8/18	PER CONDITIONS OF APPROVAL

DRAWN BY	WCN, TRB, SJO
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CHECKED BY	PRH RMM BJA
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CHECKED BY	FDH, KMM, DGA
DATE	FEBRUARY 9, 2017

DATE	FEBRUARY 2, 2017
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SHEET: TITLE:

COVER SHEET

DRAWING NO.
















C-0.0

PLAN NO. L-4910

GENERAL NOTES

- 1.0. TOPOGRAPHIC AND PROPERTY LINE INFORMATION
- 1.1. NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DISSECT" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- 1.2. PROPERTY LINE AND TOPOGRAPHY: EXISTING PROPERTY LINE, UTILITY INFORMATION AND TOPOGRAPHY PROVIDED BY ANDREWS SURVEY & ENGINEERING, INC. SEE PLAN HEREIN.
- 1.3. DATUM: ASSUMED
- 1.4. BENCHMARKS: SEE PLANS
- 1.5. COORDINATE SYSTEM: ASSUMED
- 1.6. CONSTRUCTION STAKING CONTROL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY TO PERFORM THE WORK.
- 1.7. FLOODPLAIN: THE PROPERTY DOES NOT LIE IN A FLOOD HAZARD AREA OR 100-YEAR FLOODPLAIN ACCORDING TO THE MOST RECENT FLOOD INSURANCE RATE MAPS FOR BELLINGHAM.
- 2.0. DEMOLITION, SEDIMENTATION, AND EROSION CONTROL (STORMWATER POLLUTION PREVENTION PLAN)
- 2.1. GENERAL
- 2.1.1. THE FIRST STAGE INVOLVES ACTIVITIES NEEDED TO ADDRESS STORMWATER MANAGEMENT, EXCAVATING MATERIAL DESIGNATED FOR OFF-SITE REMOVAL OR ON-SITE RELOCATION AND FENCING SELECTED AREAS. STAGE ONE WILL PREPARE SITE FOR CONVENTIONAL CONSTRUCTION.
- 2.1.2. THE SECOND STAGE WILL CONSIST OF ROUTINE CONSTRUCTION INVOLVING PAVING, LANDSCAPING, AND UTILITIES.
- 2.1.3. THERE ARE GENERAL PHASES OF CONSTRUCTION, IN EACH PHASE OF CONSTRUCTION, IMPLEMENT STANDARD EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO INITIATING EARTH DISTURBING ACTIVITIES, AND MAINTAIN THESE PRACTICES THROUGHOUT THE COURSE OF CONSTRUCTION.
- TYPICAL PRACTICES TO BE APPLIED TO THE SITE INCLUDE THE FOLLOWING:
- PRIOR TO EARTH DISTURBANCE IN ANY WORK AREA, INSTALL SILTATION BARRIERS (SILT FENCE WITH HAYBALES) BETWEEN THE WORK AREA AND THE SURFACE WATER RESOURCE TO WHICH IT DRAINS.
- PROVIDE TEMPORARY BERMS AND DRAINAGE CHANNELS TO DIVERT SURFACE WATER AWAY FROM THE AREAS THAT WILL BE EXPOSED BY CONSTRUCTION ACTIVITY TO MINIMIZE THE AMOUNT OF SURFACE WATER COMING INTO CONTACT WITH EXPOSED SOILS. PROVIDE STABLE OUTLETS FOR THESE DEVICES, AND LINE OR VEGETATE THESE DIVERSIONS TO PROVIDE FOR THEIR STABILITY DURING CONSTRUCTION.
- LIMIT THE EXTENT OF EXPOSED SOILS TO AREAS THAT CAN BE WORKED AND REESTABLISHED WITHIN THE CONSTRUCTION SEASON AND DURING THE SPECIFIC CONSTRUCTION PHASE.
- WHEN EARTHWORK CONSTRUCTION ACTIVITY IN AN AREA IS COMPLETE, STABILIZE THE AREA WITH A SUITABLE SURFACE AS DESCRIBED BELOW.
- IN ADDITION TO THESE PRACTICES, FOLLOW THE SPECIAL PRACTICES DESCRIBED BELOW. COMPLY WITH THE DIRECTIONS OF THE APPLICANT'S REPRESENTATIVE TO ADDRESS EROSION AND SEDIMENTATION CONDITIONS THAT MAY ARISE ON A CASE BY CASE BASIS DURING CONSTRUCTION.
- THE FOLLOWING IS A DESCRIPTION OF MINIMUM CONSTRUCTION REQUIREMENTS AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES WITH REGARD TO DETERMINING THE ADEQUACY OF MEANS AND METHODS OF CONSTRUCTION.
- 2.2. CONSTRUCTION SEQUENCING
- SEQUENCING SHALL BE AS SHOWN ON THE PLAN AND AS DICTATED BY THE REQUIREMENTS OF CONSTRUCTION.
- 2.3. MAINTENANCE
- DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED:
- 2.3.1. SEEDED AREAS WILL BE FERTILIZED AND RESEEDD AS NECESSARY TO INSURE VEGETATION ESTABLISHMENT.
- 2.3.2. TEMPORARY DRAINAGE DRAINAGE CHANNELS WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY.
- 2.3.3. THE HAYBALE AND SILTATION FENCING BARRIERS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES/DEVICES SHALL BE INSPECTED, CLEANED, REPLACED AND/OR REPAIRED AS NECESSARY, PERIODICALLY AND AFTER EACH SIGNIFICANT RAINFALL.
- 2.4. GENERAL
- 2.4.1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS, FORMERLY SCS) GUIDELINES AND ALL LOCAL, COUNTY AND MUNICIPAL REGULATIONS.
- 2.4.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
- 2.4.3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- 2.4.4. ALL WORK SHALL BE IN ACCORDANCE WITH THE PERMITS AND APPROVALS ISSUED AND THE CONSTRUCTION SPECIFICATIONS.
- 2.4.5. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAYBALES AND/OR SILTATION FENCES TO PREVENT AND/OR CONTROL SILTATION AND EROSION.
- 2.4.6. TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
- 2.4.7. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK.
- 2.4.8. HAYBALE DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS LOCATED IN FILL AREAS & SUBJECT TO STORMWATER RUN-OFF FROM PROPOSED FILL AREAS DURING CONSTRUCTION, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. NO SEDIMENTS SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
- 2.4.9. HAYBALES SHALL BE PERIODICALLY INSPECTED AND REPLACED AS REQUIRED.
- 2.4.10. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL HAYBALES AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE OR LOCAL OFFICIALS TO MITIGATE ANY EMERGENCY CONDITION.
- 2.4.11. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS.
- 2.4.12. THE CONTRACTOR SHALL PROTECT ALL EXISTING ON-SITE UTILITY SERVICES DESIGNATED AS SUCH ON THESE DRAWINGS.
- 2.4.13. THE LIMIT OF WORK LINE FOR THE AREA TO BE CLEARED AND GRUBBED SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (I.E., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA).
- 2.4.14. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 2.4.15. THE CONTRACTOR SHALL SWEEP ALL ON-SITE PAVEMENT, IF NECESSARY, UNTIL ALL SITE CONSTRUCTION IS COMPLETED.
- 3.0. STORM DRAINAGE
- 3.1. UNLESS INDICATED OTHERWISE, STORM DRAIN PIPING (INDICATED BY LETTER "D") SHALL BE CORRUGATED POLYETHYLENE PIPE (CPP) PER ASHITO M204 AND M252 MANUFACTURED WITH HIGH DENSITY POLYETHYLENE PLASTIC. CPP SHALL BE ADS N-12 PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR HANCOR HI 0 PIPE AS MANUFACTURED BY HANCOR, INC. OR APPROVED EQUAL.
- 4.0. PAVEMENT
- 4.1. EXISTING BITUMINOUS CONCRETE PAVEMENT SHALL BE SAWCUT TO A CLEAN LINE AS INDICATED AT THE RIGHT PAVED AREA WHERE BITUMINOUS CONCRETE IS TO BE REMOVED.

LEGEND

SYMBOL	DESCRIPTION
	CATCH BASIN
	UTILITY POLE
	GAS VALVE
	WATER VALVE
	HYDRANT
	DRAIN MANHOLE
	SEWER MANHOLE
	WELL
	LIGHT POLE
	DRAIN LINE
	SEWER LINE
	WATER LINE
	OVERHEAD WIRES
	TREE LINE
	OBSERVATION TEST HOLE

ABBREVIATIONS

ITEM	DESCRIPTION
S.F.	SQUARE FEET
N/F	NOW OR FORMERLY
TOC	TOP OF CONCRETE
GAR.	GARAGE
EXIST.	EXISTING
PROP.	PROPOSED
DMH	DRAIN MANHOLE
SMH	SEWER MANHOLE
CB	CATCH BASIN
CCB	CAPE COD BERM
EOP	EDGE OF PAVEMENT
PVC	POLYVINYL CHLORIDE PIPE
FES	FLARED END SECTION
HDPE	HIGH DENSITY POLYETHYLENE
INV.	INVERT
TYP.	TYPICAL
BIT.	BITUMINOUS
CONC.	CONCRETE
RET.	RETAINING
TBM	TEMPORARY BENCH MARK
x 211.5	SPOT GRADE



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569-0312
P: 508-278-3897 F: 508-278-2289

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APPROVAL UNDER SUBDIVISION CONTROL LAW REQUIRED. BELLINGHAM PLANNING BOARD

[Signature]
[Signature]
[Signature]

BEING A MAJORITY DATE: 6/20/18

THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD HAS BEEN RECEIVED AND RECORDED ON AT AND NO APPEAL WAS RECEIVED DURING THE 20-DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK DATE

PROJECT: NERINA ESTATES
DEFINITIVE SUBDIVISION
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

APPLICANT: JOHN J. WASYLEAN, JR.
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

REVISIONS

NO.	DATE	DESCRIPTION
1	6/7/17	PLANNING & PEER REVIEW COMMENTS
2	6/22/17	NATIONAL GRID REQUIREMENTS
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9	3/20/18	PLANNING & PEER REVIEW COMMENTS
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11	5/8/18	PER CONDITIONS OF APPROVAL

DRAWN BY WCN, TRB, SJO

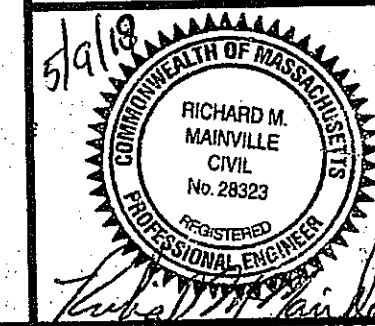
CHECKED BY PBH, RMM

DATE FEBRUARY 2, 2017

PROJECT NO. 2015-110

SHEET TITLE

LEGEND,
ABBREVIATIONS,
& GENERAL NOTES



DRAWING NO.

C-1.0

PLAN NO. L-4910



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
Bellingham, Massachusetts 01569-0312
P: 508-278-3897 F: 508-278-2289

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APPROVAL UNDER SUBDIVISION CONTROL LAW REQUIRED. BELLINGHAM PLANNING BOARD

BEING A MAJORITY DATE: 5/9/18

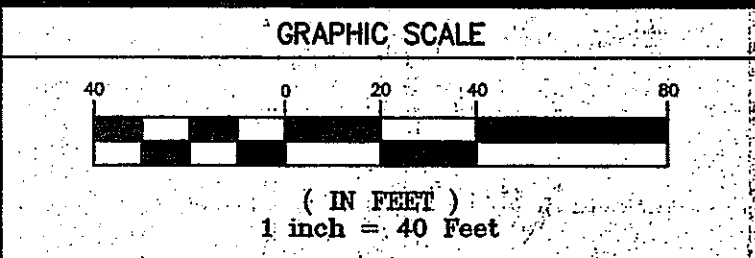
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TOWN CLERK DATE: 5/9/18

PROJECT: NERINA ESTATES
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799-801 PULASKI BLVD.
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DRAWN BY: WCN, TRB, SJO
CHECKED BY: PBH, RMM, BJA
DATE: FEBRUARY 2, 2017
PROJECT NO.: 2015-110



SHEET TITLE

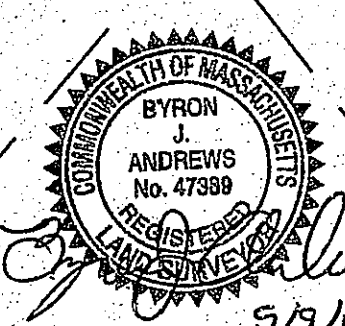
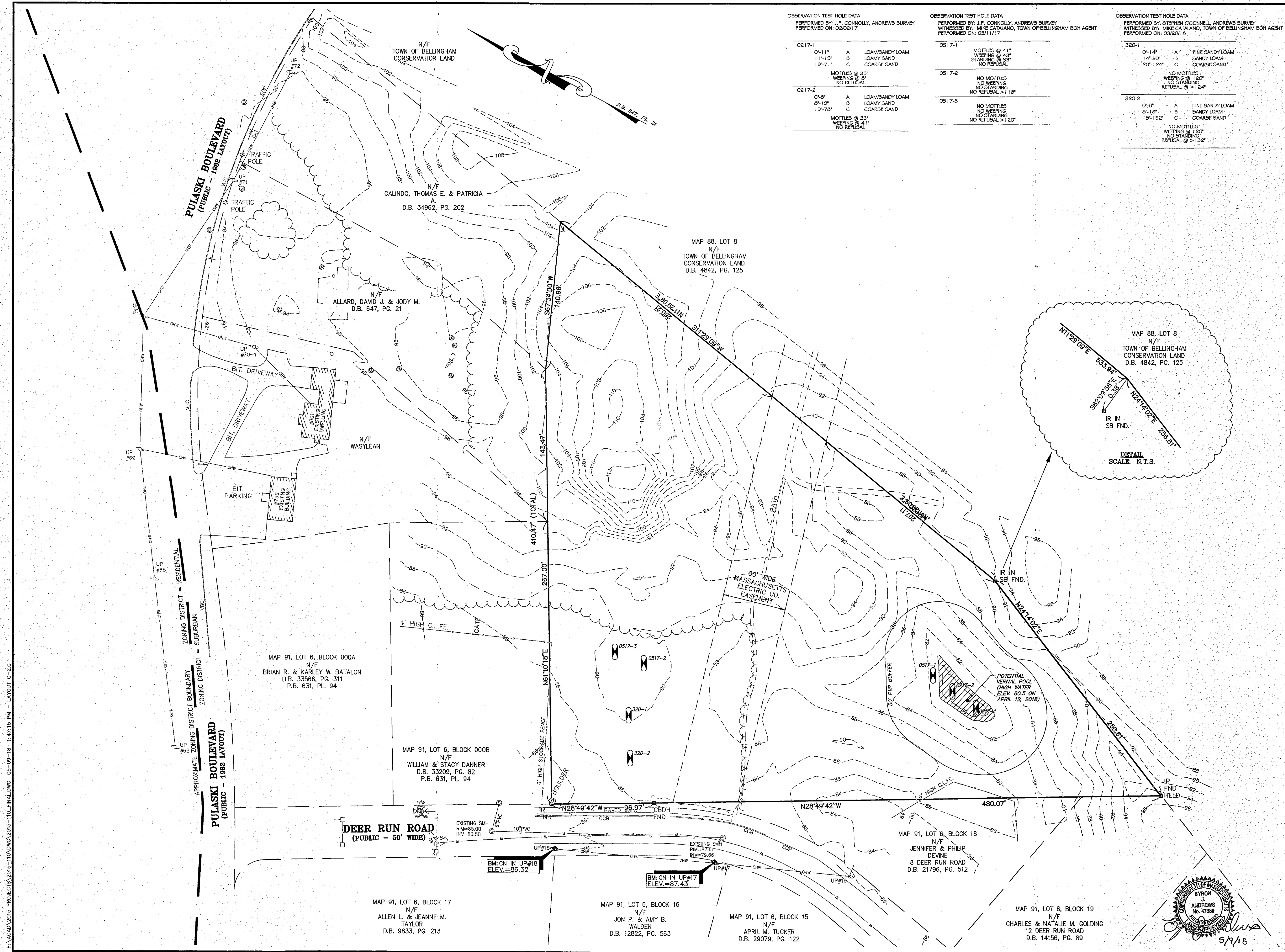
EXISTING CONDITIONS
PLAN

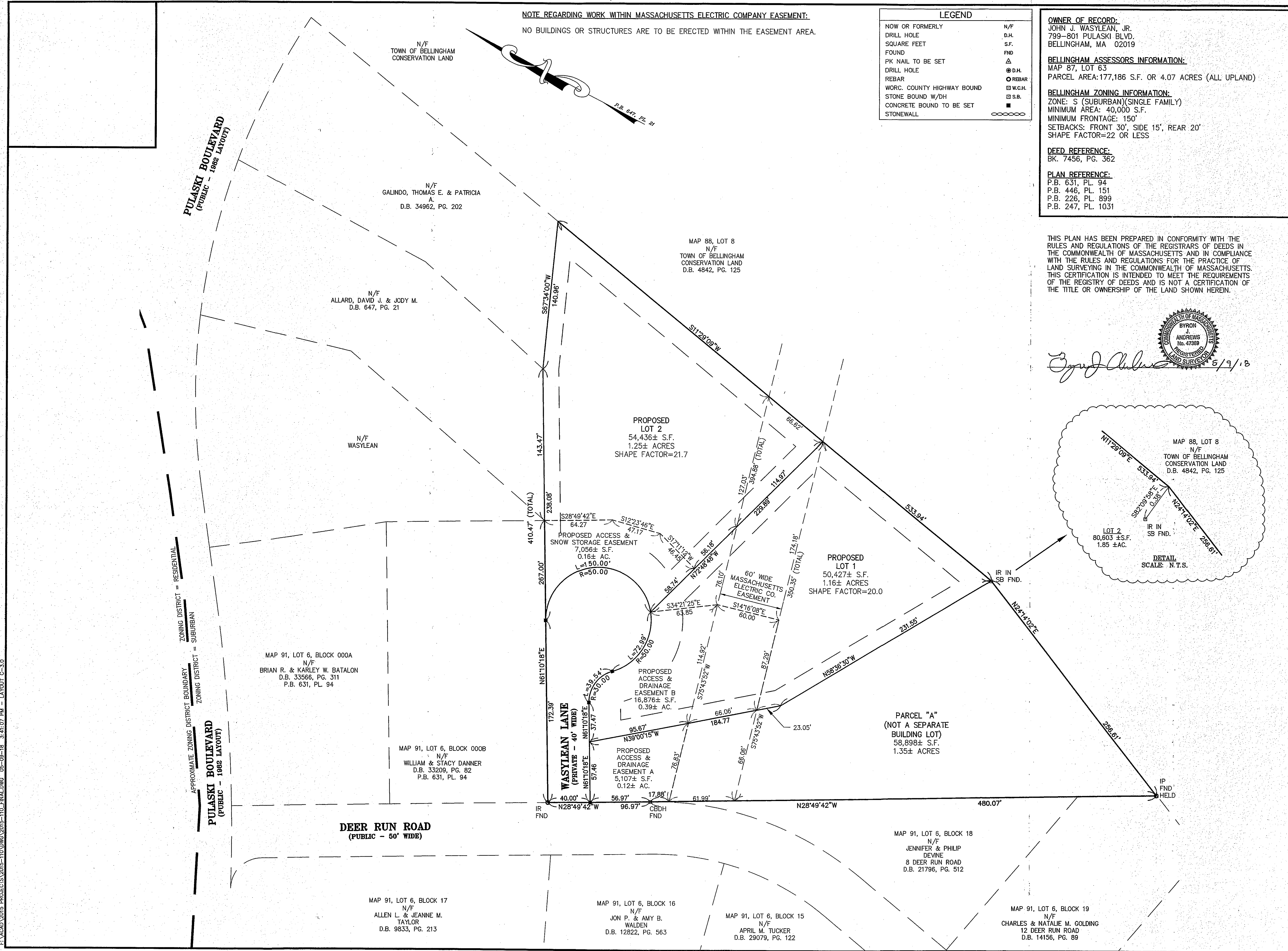
DRAWING NO. C-2.0
PLAN NO. L-4910

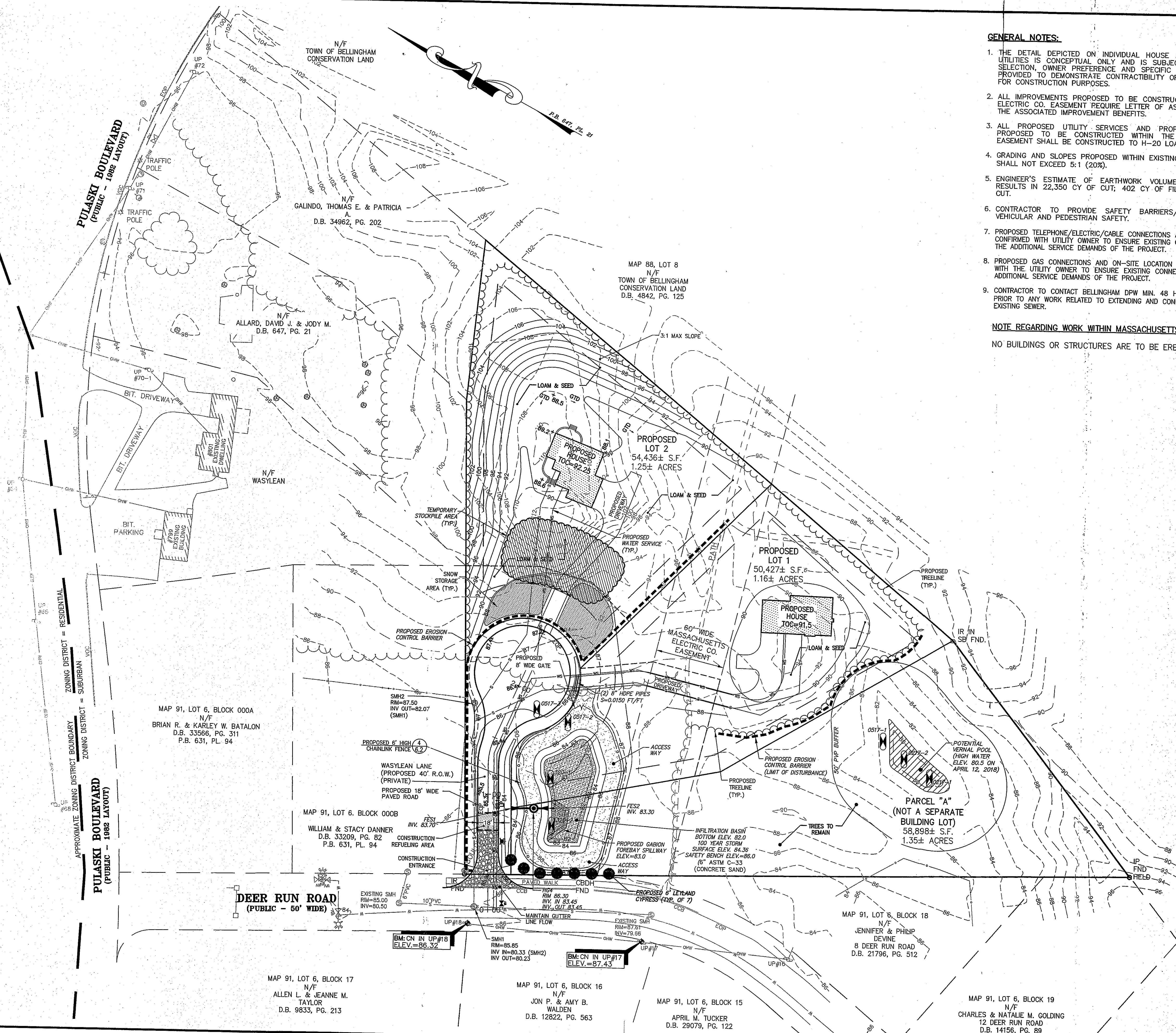
OBSERVATION TEST HOLE DATA			
PERFORMED BY: J.P. CONNOLLY, ANDREWS SURVEY			
WITNESSED BY: MIKE CATALANO, TOWN OF BELLINGHAM BOH AGENT			
PERFORMED ON: 02/02/17			
0217-1	0'-11"	A	LOAM/SANDY LOAM
	11'-19"	B	LOAMY SAND
	19'-71"	C	COARSE SAND
0217-2	0'-5"	A	LOAM/SANDY LOAM
	5'-19"	B	LOAMY SAND
	19'-79"	C	COARSE SAND

OBSERVATION TEST HOLE DATA			
PERFORMED BY: J.P. CONNOLLY, ANDREWS SURVEY			
WITNESSED BY: MIKE CATALANO, TOWN OF BELLINGHAM BOH AGENT			
PERFORMED ON: 05/11/17			
0517-1	0'-14"	A	FINE SANDY LOAM
	14'-20"	B	SANDY LOAM
	20'-124"	C	COARSE SAND
0517-2	NO MOTTLING		
	NO WEEDING		
	NO STANDING		
0517-3	NO MOTTLING		
	NO WEEDING		
	NO STANDING		

OBSERVATION TEST HOLE DATA			
PERFORMED BY: STEPHEN O'CONNELL, ANDREWS SURVEY			
WITNESSED BY: MIKE CATALANO, TOWN OF BELLINGHAM BOH AGENT			
PERFORMED ON: 03/20/18			
320-1	0'-14"	A	FINE SANDY LOAM
	14'-20"	B	SANDY LOAM
	20'-124"	C	COARSE SAND
320-2	0'-5"	A	FINE SANDY LOAM
	5'-19"	B	SANDY LOAM
	19'-132"	C	COARSE SAND







GENERAL NOTES:

1. THE DETAIL DEPICTED ON INDIVIDUAL HOUSE LOTS, INCLUDING HOUSES, DRIVEWAYS AND UTILITIES IS CONCEPTUAL ONLY AND IS SUBJECT TO CHANGE BASED UPON FINAL HOUSE SELECTION, OWNER PREFERENCE AND SPECIFIC ON SITE CONDITIONS. THIS INFORMATION IS PROVIDED TO DEMONSTRATE CONTRACTIBILITY OF HOME SITES ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES.
2. ALL IMPROVEMENTS PROPOSED TO BE CONSTRUCTED WITHIN THE EXISTING MASSACHUSETTS ELECTRIC CO. EASEMENT REQUIRE LETTER OF ASSENT FROM NATIONAL GRID FOR EACH LOT THE ASSOCIATED IMPROVEMENT BENEFITS.
3. ALL PROPOSED UTILITY SERVICES AND PROPOSED DRIVEABLE SURFACES WHICH ARE PROPOSED TO BE CONSTRUCTED WITHIN THE EXISTING MASSACHUSETTS ELECTRIC CO. EASEMENT SHALL BE CONSTRUCTED TO H-20 LOADING STANDARDS.
4. GRADING AND SLOPES PROPOSED WITHIN EXISTING MASSACHUSETTS ELECTRIC CO. EASEMENT SHALL NOT EXCEED 5:1 (20%).
5. ENGINEER'S ESTIMATE OF EARTHWORK VOLUME INDICATES THAT THE PROJECT DESIGN RESULTS IN 22,350 CY OF CUT; 402 CY OF FILL; WITH A NET RESULT OF 21,948 CY OF CUT.
6. CONTRACTOR TO PROVIDE SAFETY BARRIERS/MEASURES AS NECESSARY TO ENSURE VEHICULAR AND PEDESTRIAN SAFETY.
7. PROPOSED TELEPHONE/ELECTRIC/CABLE CONNECTIONS AND ON-SITE LOCATION OF SERVICES SHALL BE CONFIRMED WITH UTILITY OWNER TO ENSURE EXISTING CONNECTIONS ARE ADEQUATE AND CAN SUPPORT THE ADDITIONAL SERVICE DEMANDS OF THE PROJECT.
8. PROPOSED GAS CONNECTIONS AND ON-SITE LOCATION OF SERVICES AND MAINS SHALL BE CONFIRMED WITH THE UTILITY OWNER TO ENSURE EXISTING CONNECTIONS ARE ADEQUATE AND CAN SUPPORT THE ADDITIONAL SERVICE DEMANDS OF THE PROJECT.
9. CONTRACTOR TO CONTACT BELLINGHAM DPW MIN. 48 HOURS PRIOR TO START OF CONSTRUCTION AND PRIOR TO ANY WORK RELATED TO EXTENDING AND CONNECTING TO THE EXISTING WATER MAIN, AND/OR EXISTING SEWER.

NOTE REGARDING WORK WITHIN MASSACHUSETTS ELECTRIC COMPANY EASEMENT:

NO BUILDINGS OR STRUCTURES ARE TO BE ERECTED WITHIN THE EASEMENT AREA.



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REQUIRED. BELLINGHAM PLANNING BOARD

BEING A MAJORITY DATE: 6/20/12

THIS CERTIFIES THAT THE NOTICE OF APPROVAL
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_____ AT _____ AND NO APPEAL
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SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK _____ DATE _____

NERINA ESTATES
DEFINITIVE SUBDIVISION
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

JOHN J. WASYLEAN, JR.
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/7/17	PLANNING & PEER REVIEW COMMENTS
2	6/22/17	NATIONAL GRID REQUIREMENTS
3	6/28/17	NATIONAL GRID COMMENTS
4	7/06/17	NATIONAL GRID COMMENTS
5	9/28/17	PEER REVIEW COMMENTS
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7	11/03/17	PEER REVIEW COMMENTS
8	1/05/18	FIRE DEPT. COMMENTS
9	3/20/18	PLANNING & PEER REVIEW COMMENTS
10	4/23/18	PER PEER REVIEW COMMENTS
11	5/8/18	PER CONDITIONS OF APPROVAL

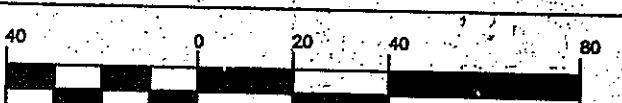
DRAWN BY	WCN, TRB, SJO
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CHECKED BY	PBH, RMM
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DATE	FEBRUARY 2, 2017
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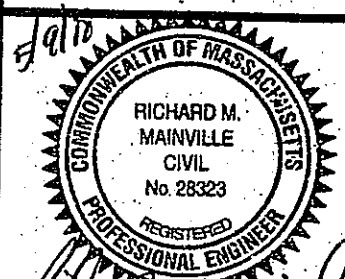
PROJECT NO.	2015-110
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GRAPHIC SCALE



(IN FEET)

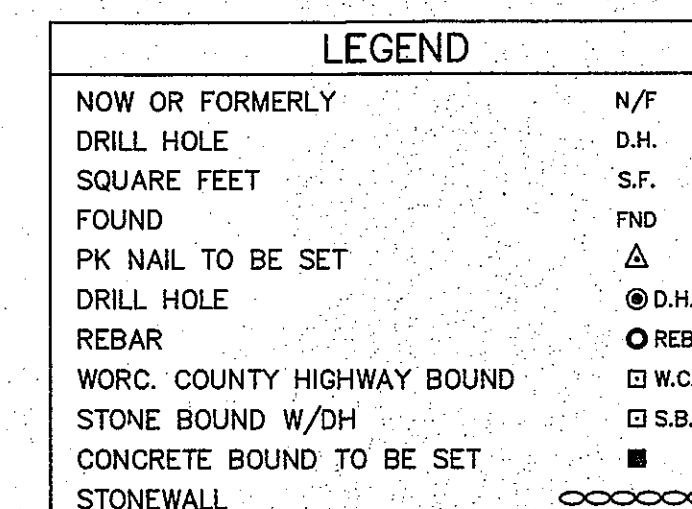
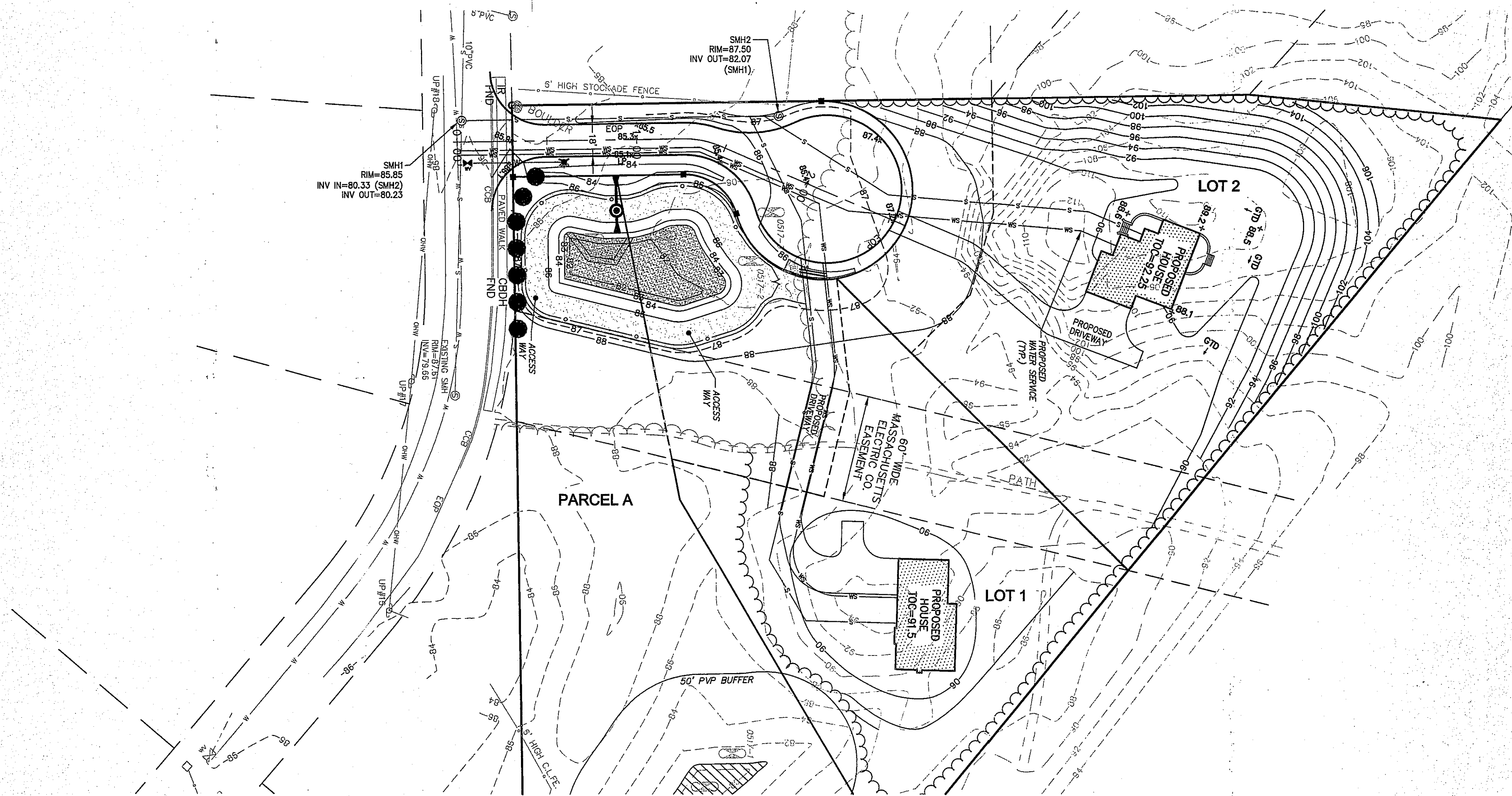
TOPOGRAPHIC, UTILITY & EROSION CONTROL PLAN



DRAWING NO.

C-4.0

PLAN NO. L-4910



ASE

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4 Bina Salsbery
Dear Betty

BEING A MAJORITY DATE: 6/20/18

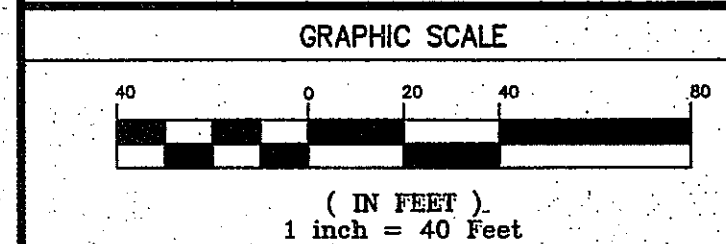
THIS CERTIFIES THAT THE NOTICE OF APPROVAL
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_____ AT _____ AND NO APPEAL
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SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK _____ DATE _____

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DEFINITIVE SUBDIVISION
7799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

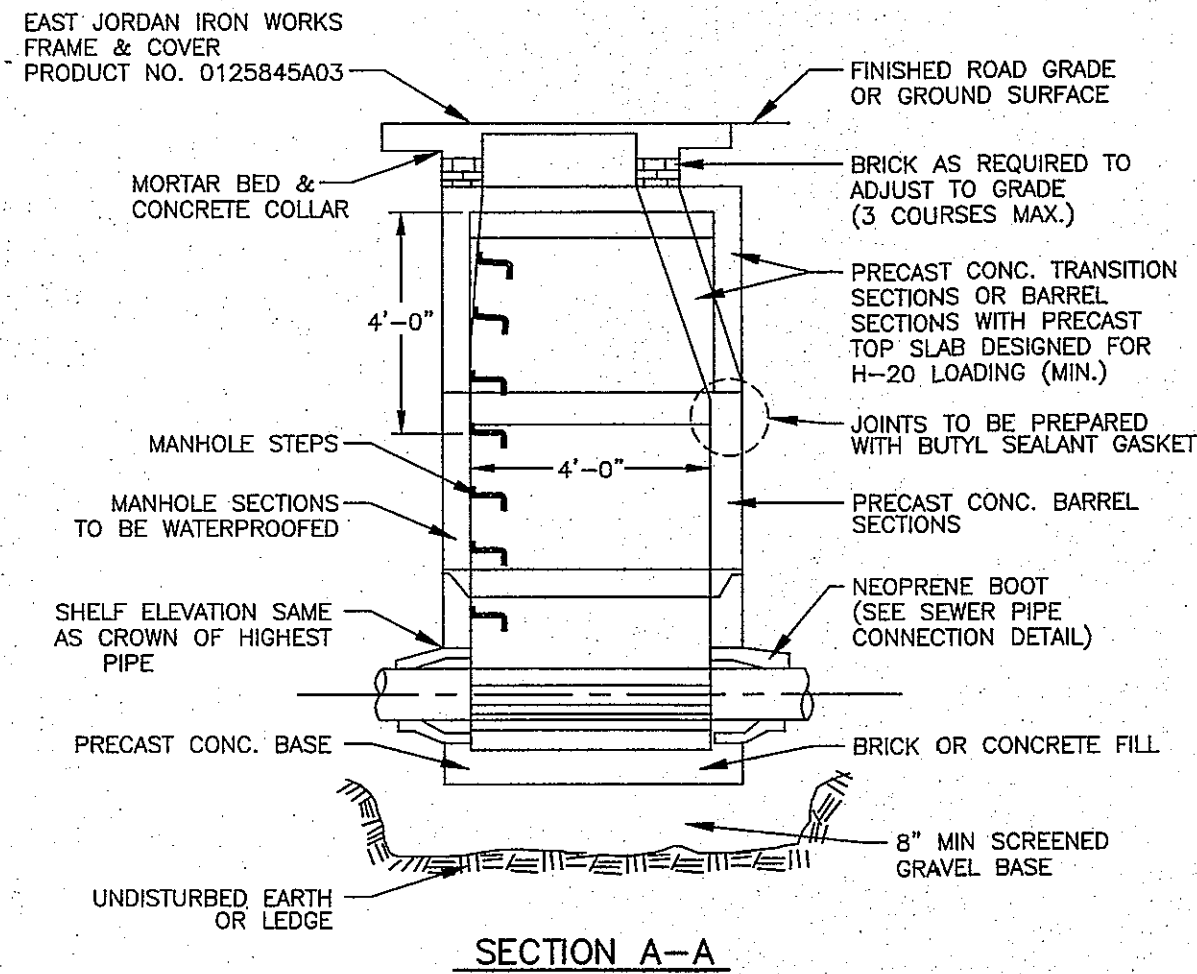
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NO.	DATE	DESCRIPTION
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10	4/23/18	PER PEER REVIEW COMMENTS
11	5/8/18	PER CONDITIONS OF APPROVAL

DRAWN BY	WCN, TRB, SJO
CHECKED BY	PBH, RMM
DATE	FEBRUARY 2, 2017
PROJECT NO.	2015-110

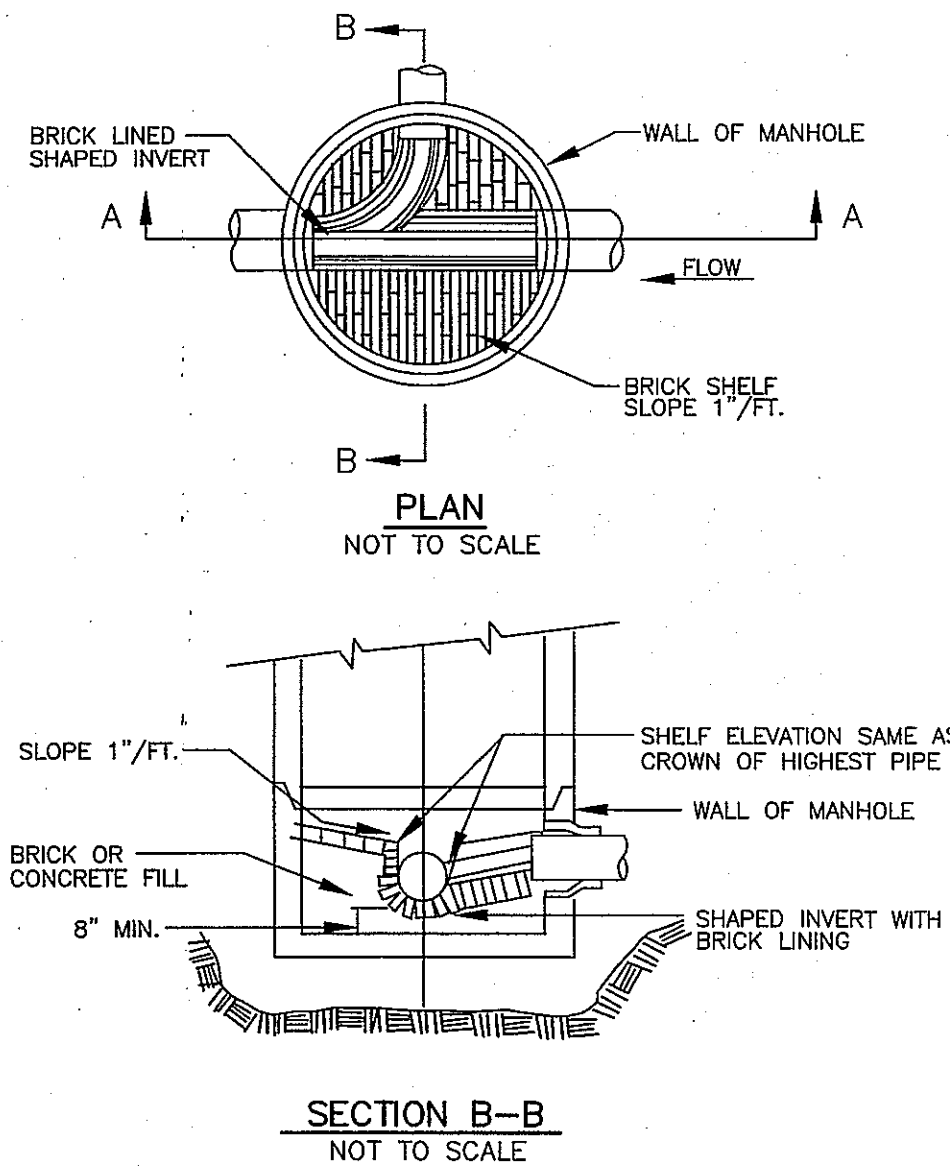


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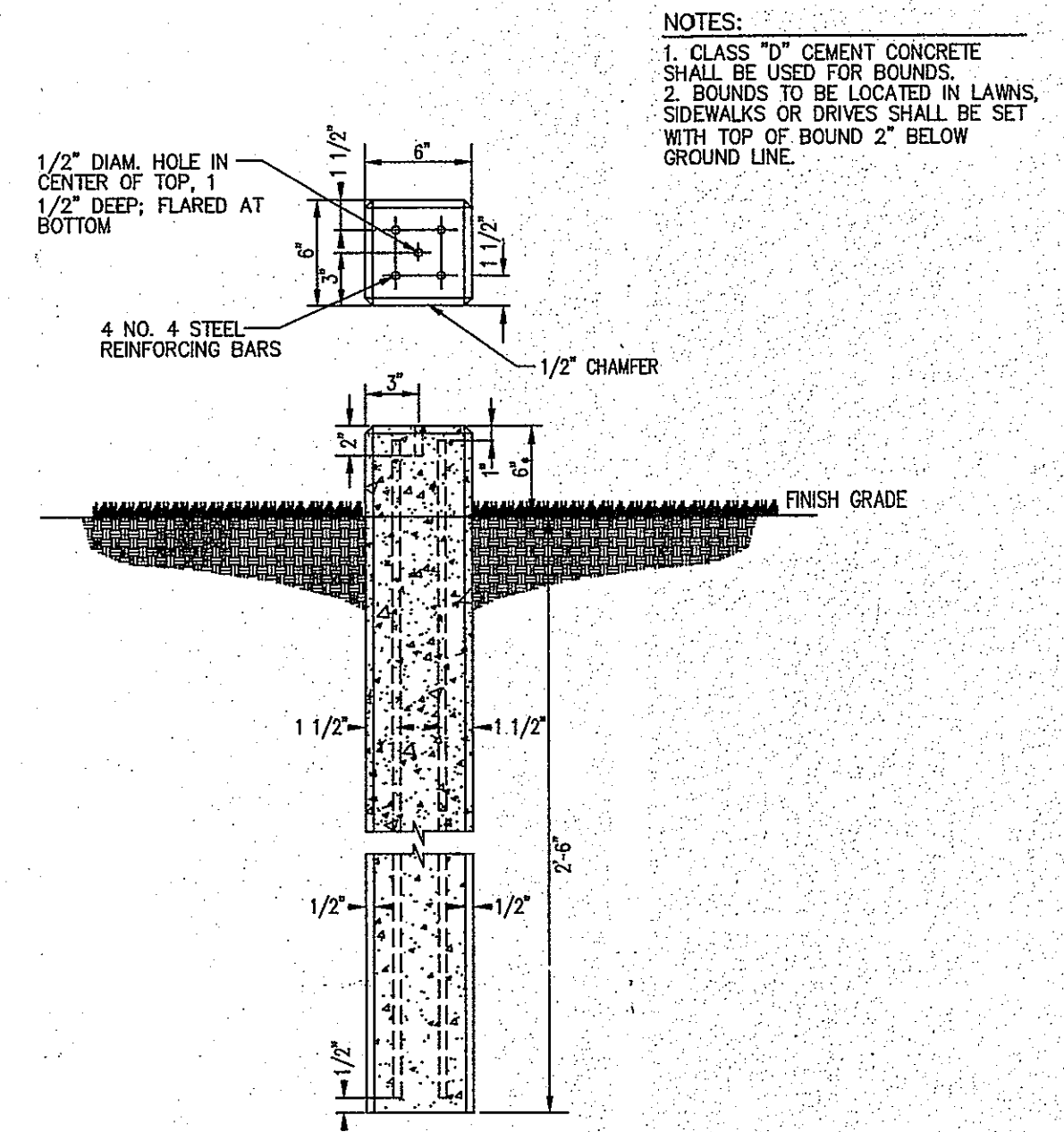
ROADWAY PLAN & PROFILE



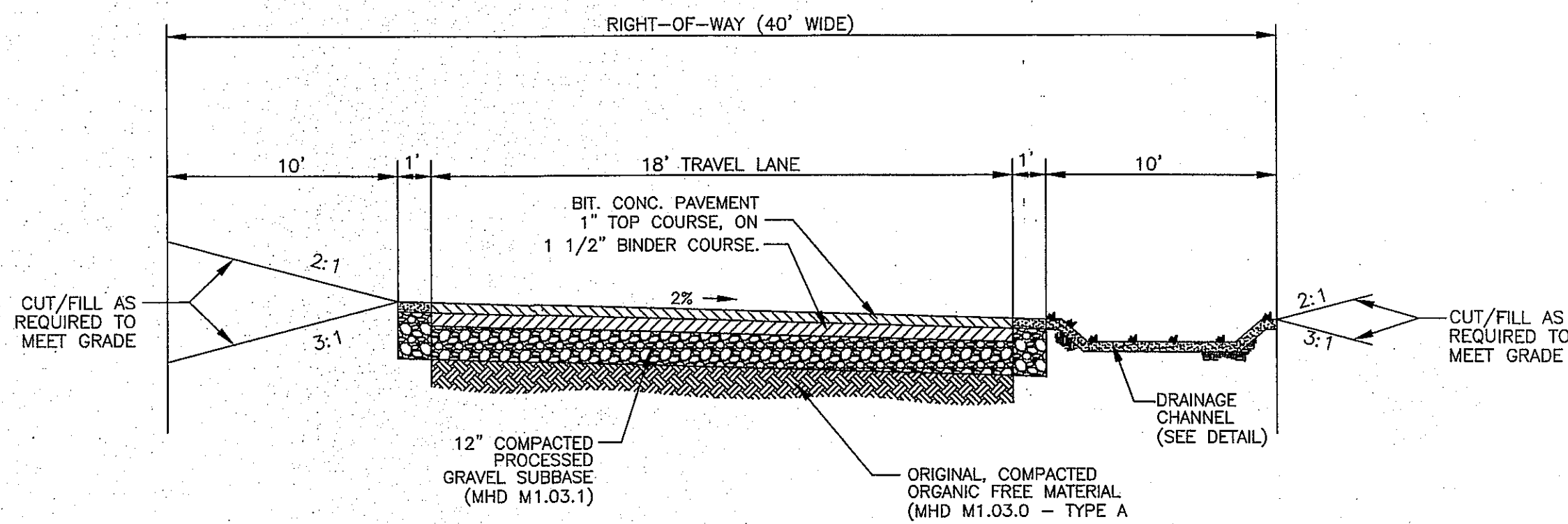
1 TYPICAL PRECAST CONCRETE 48" DIAMETER SEWER MANHOLE (SMH)
SCALE: N.T.S.



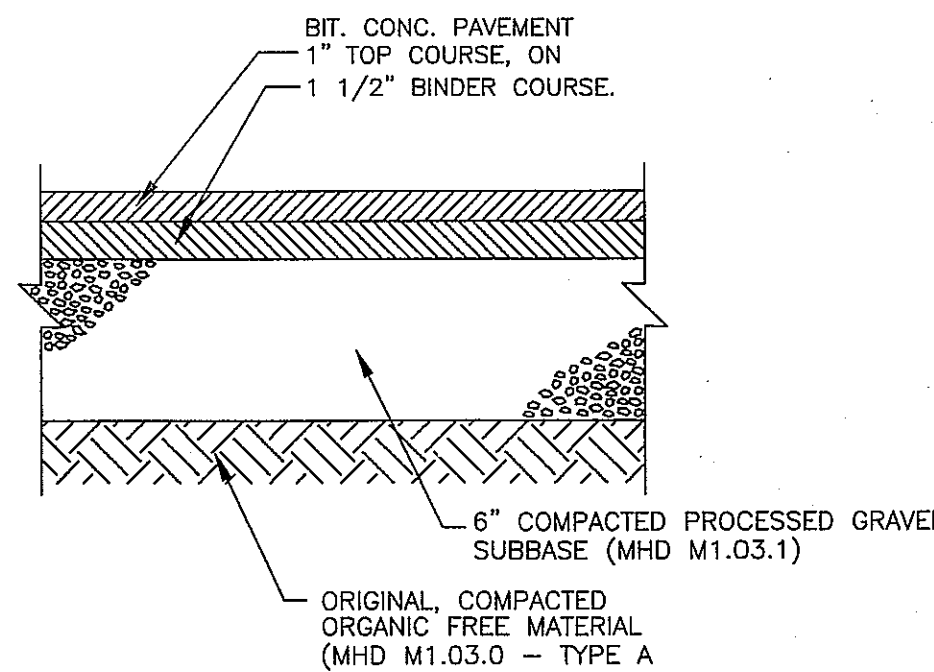
2 DRAINAGE CHANNEL
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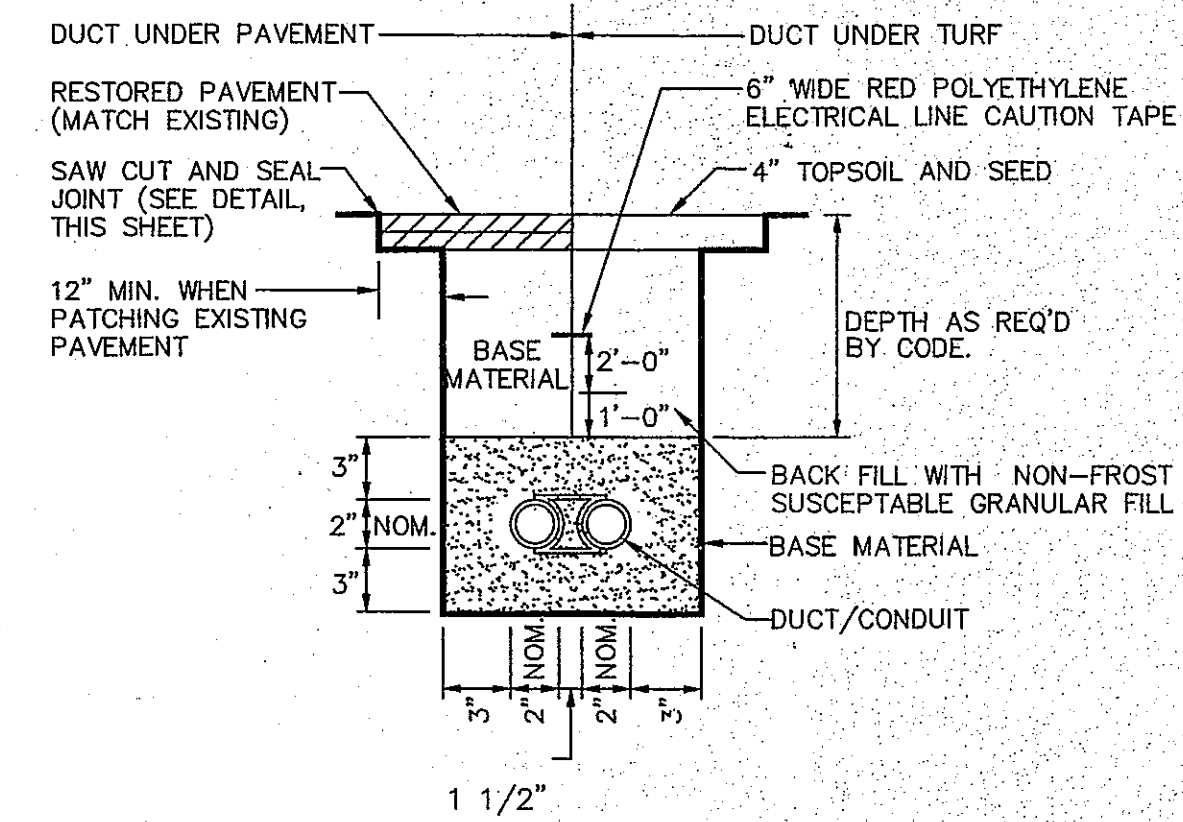
3 CONCRETE BOUND DETAIL
SCALE: N.T.S.



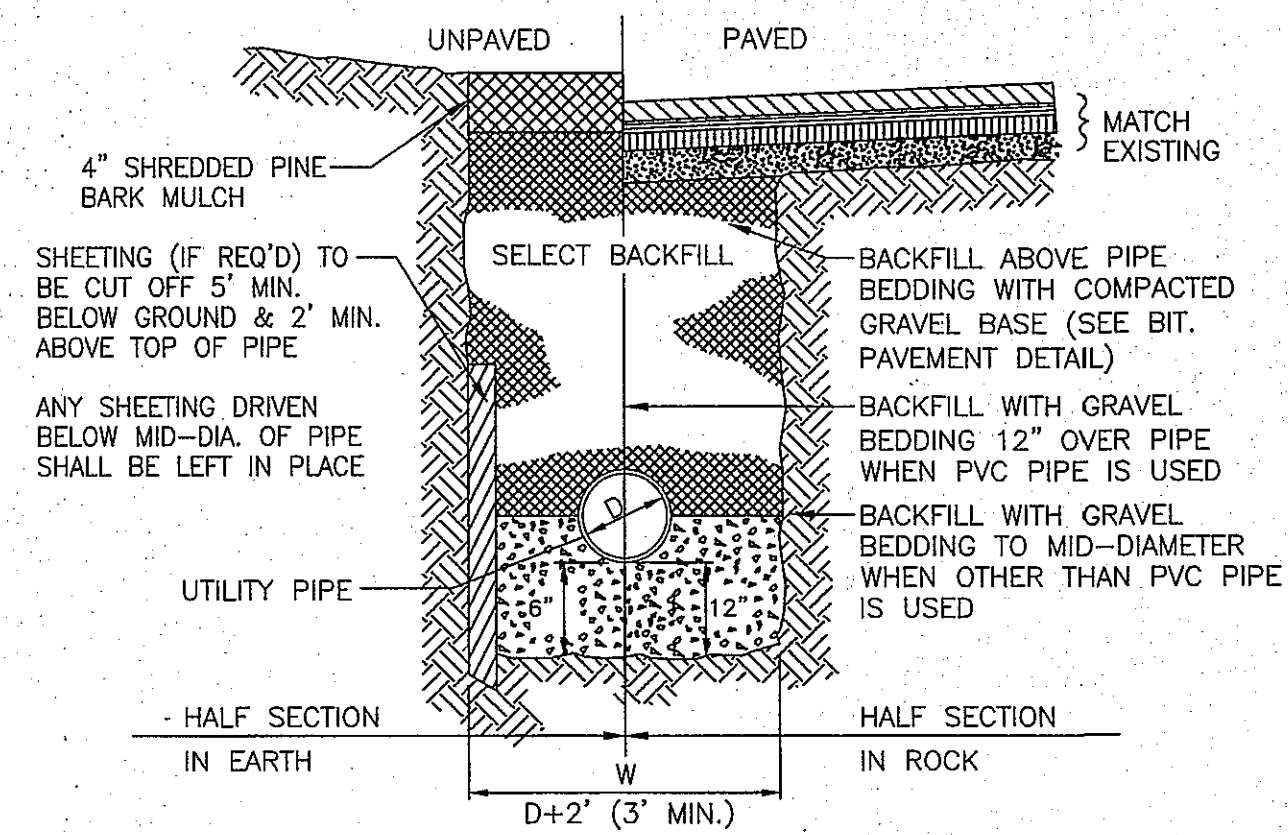
4 ROADWAY CROSS SECTION
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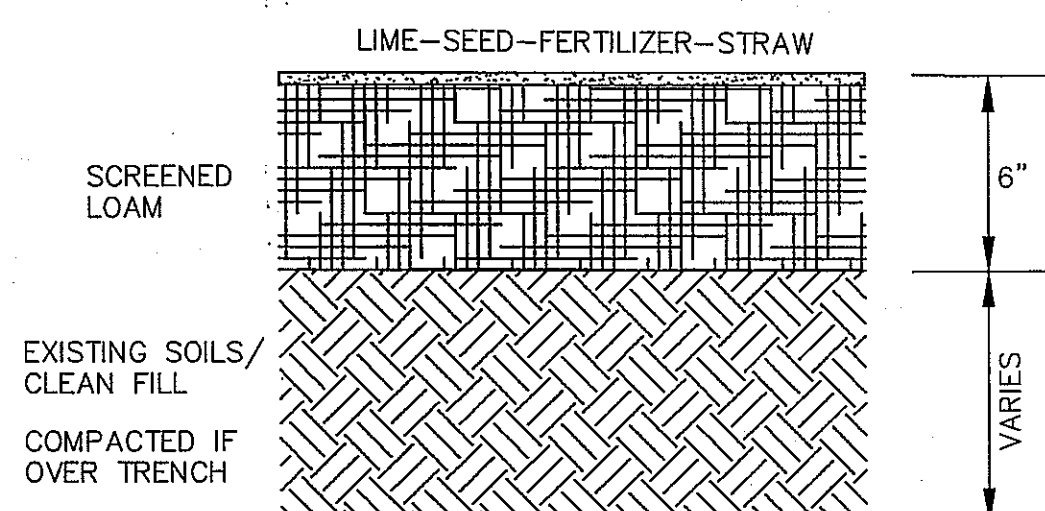
5 BITUMINOUS CONCRETE PAVEMENT DETAIL
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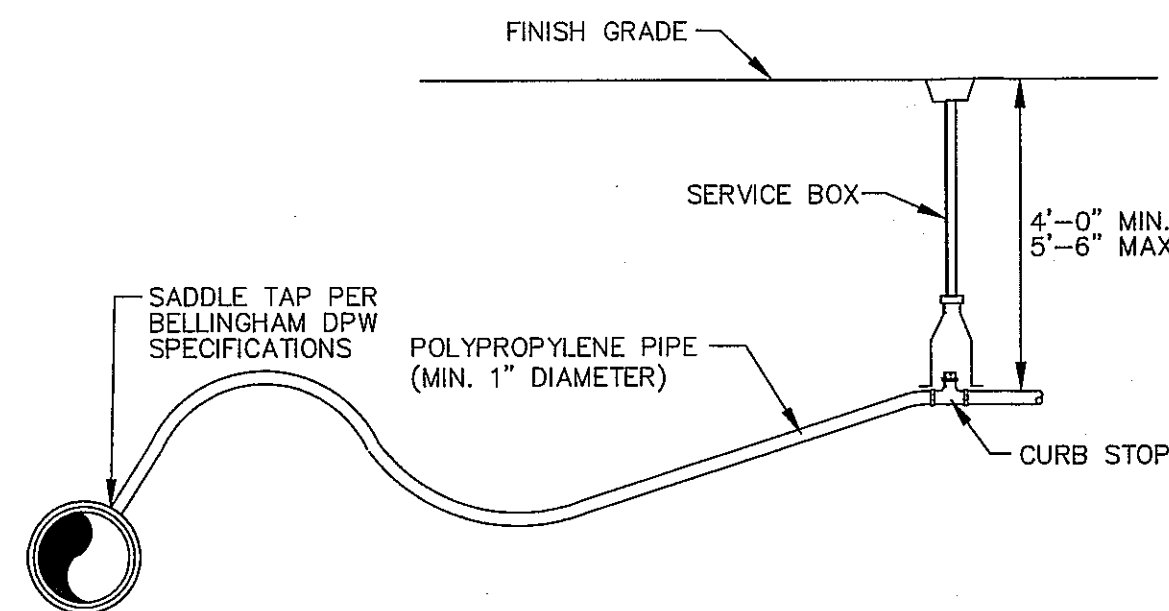
6 UNENCASED DUCT/CONDUIT DETAIL
SCALE: N.T.S.



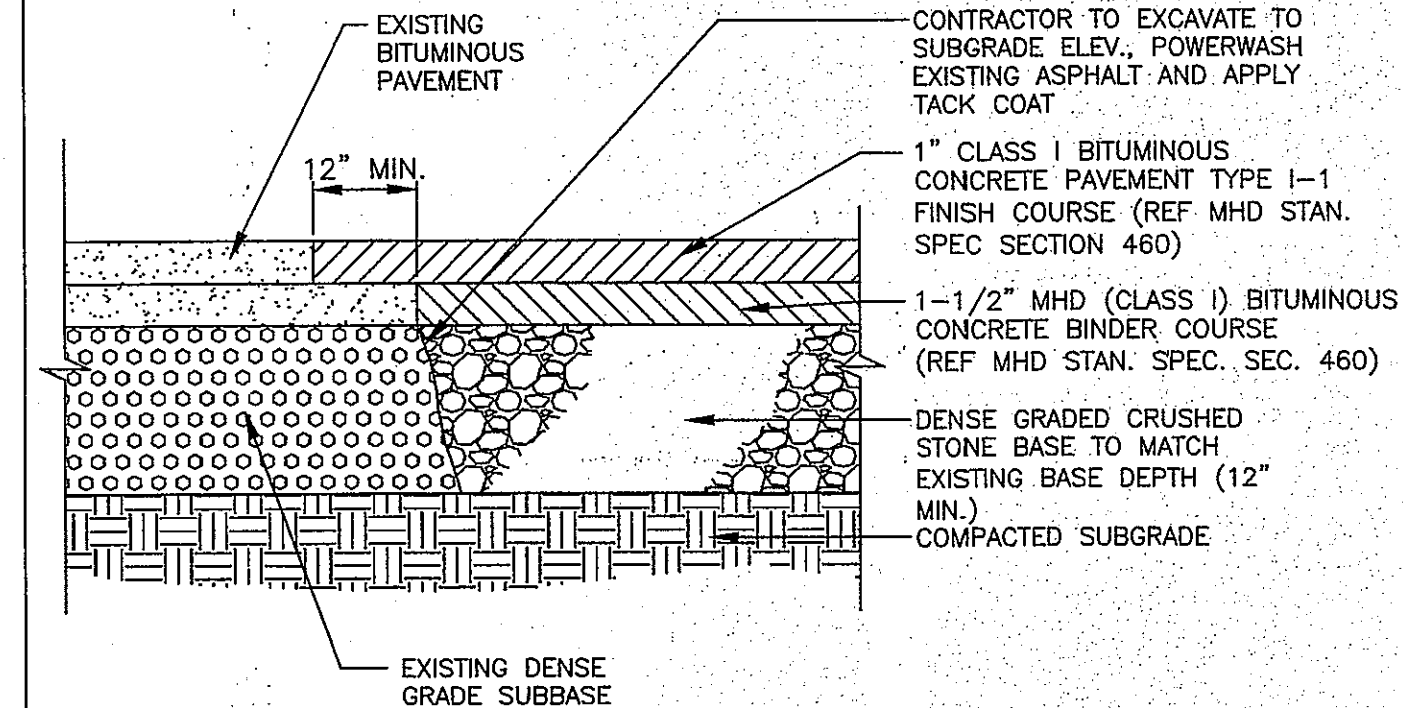
7 TYPICAL UTILITY TRENCH DETAIL
SCALE: N.T.S.



8 LOAM & SEED DETAIL
SCALE: N.T.S.



9 TYPICAL WATER SERVICE DETAIL
SCALE: N.T.S.



10 PAVEMENT JOINTING
SCALE: N.T.S.

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APPROVAL UNDER SUBDIVISION CONTROL LAW REQUIRED. BELLINGHAM PLANNING BOARD

[Signature]
[Signature]
[Signature]

BEING A MAJORITY DATE: 6/25/18

THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD HAS BEEN RECEIVED AND RECORDED ON AT AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK DATE

PROJECT: NERINA ESTATES
DEFINITIVE SUBDIVISION
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

APPLICANT: JOHN J. WASYLEAN, JR.
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
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9	3/20/18	PLANNING & PEER REVIEW COMMENTS
10	4/23/18	PER PEER REVIEW COMMENTS
11	5/8/18	PER CONDITIONS OF APPROVAL

DRAWN BY: WCN, TRB, SJO
CHECKED BY: PBH, RMM
DATE: FEBRUARY 2, 2017
PROJECT NO.: 2015-110

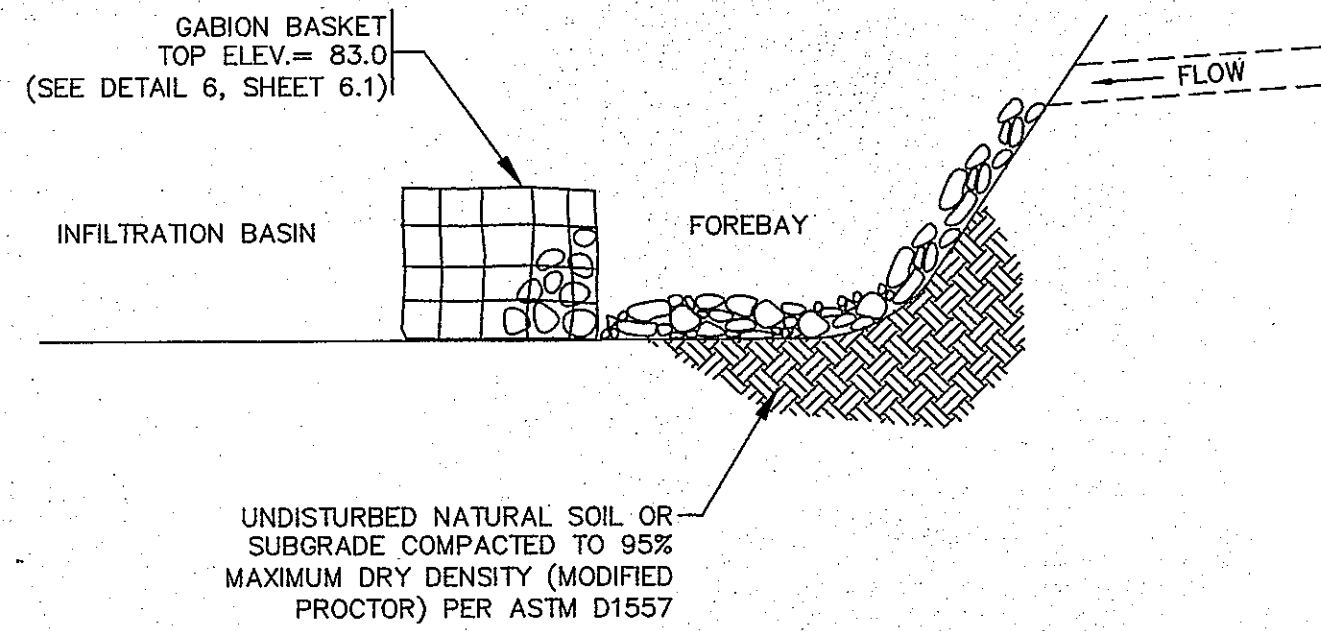
SHEET TITLE:
CONSTRUCTION DETAILS

[Signature]
RICHARD M. MANVILLE
CIVIL
No. 28323
REGISTERED PROFESSIONAL ENGINEER

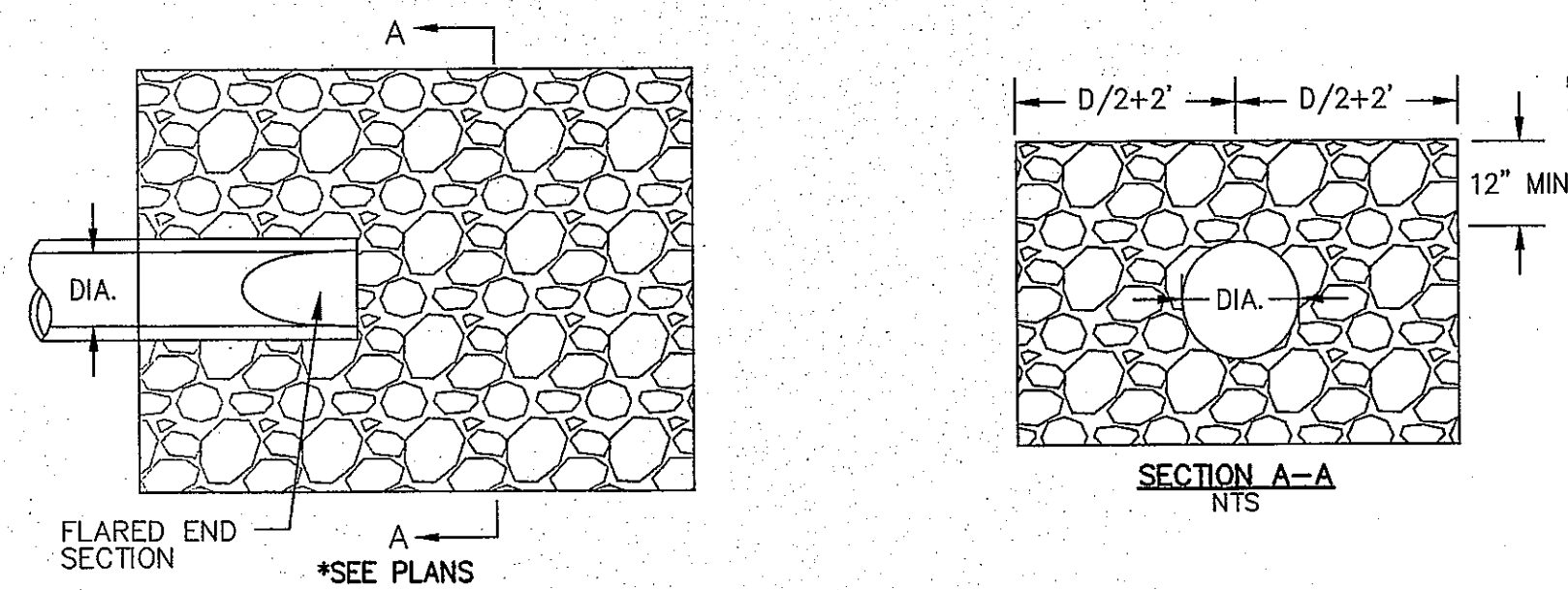
DRAWING NO.:

C-6.0

PLAN NO. L-4910

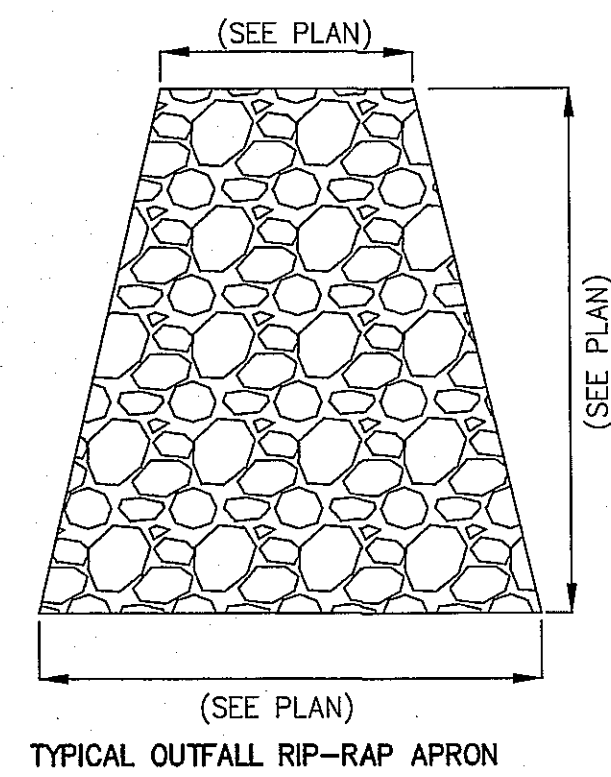


1 SEDIMENT FOREBAY
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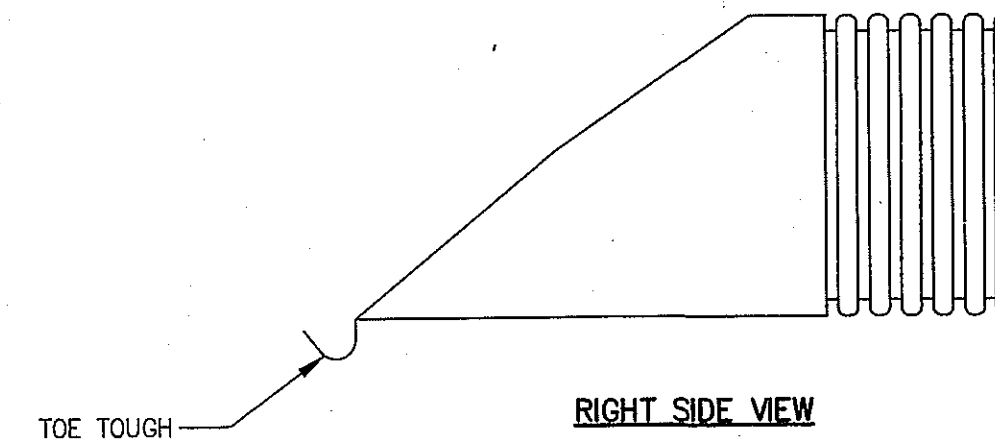
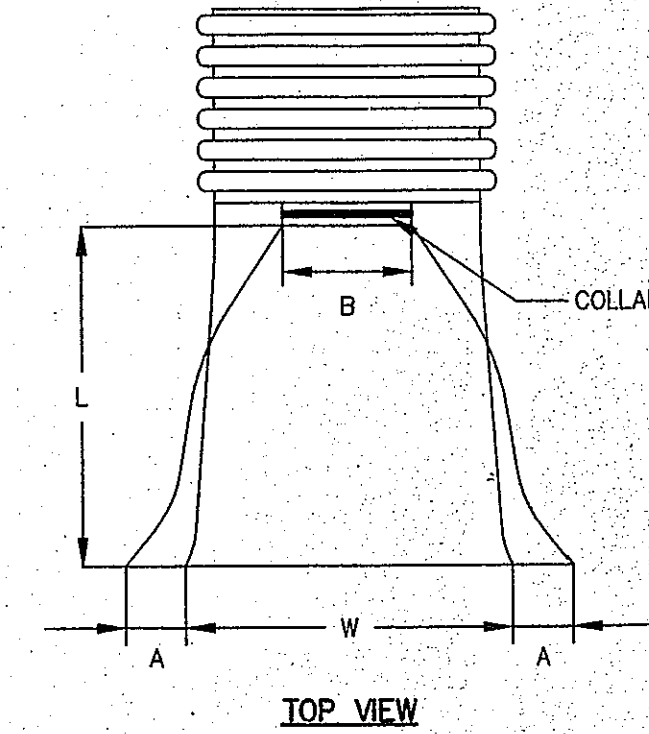
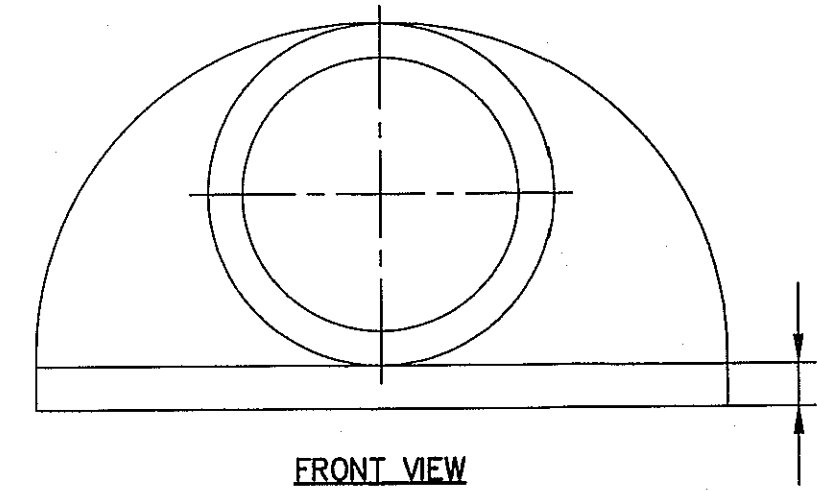
- NOTES:
1. MINIMUM STONE DIAMETER: 6"
 2. MINIMUM WEIGHT OF STONE: 50 LBS.
 3. MAXIMUM WEIGHT OF STONE: 125 LBS.
 4. PLACE ALL RIP-RAP OVER FILTER FABRIC, AMOCO 4508 OR APPROVED EQUAL.

2 STONE RIP-RAP FOR PIPE ENDS
SCALE: N.T.S.



3 CORRUGATED POLYETHYLENE FLARED-END SECTION (FES)
SCALE: N.T.S.

PIPE DIAMETER (INCHES)						
DIAMETER (INCHES)	12	15	18	24	30	36
A (INCHES)	6.5	6.5	7.5	7.5	7.5	7.5
B (MAX) (INCHES)	10.0	10.0	15.0	18.0	22.0	25.0
H (INCHES)	6.5	6.5	6.5	6.5	8.6	8.6
L (INCHES)	25.0	25.0	32.0	36.0	58.0	58.0
W (INCHES)	29.0	29.0	35.0	45.0	63.0	63.0



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[Signature]
DATE: 6/27/18

BEING A MAJORITY DATE: 6/27/18

THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD HAS BEEN RECEIVED AND RECORDED ON "AT" AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK DATE

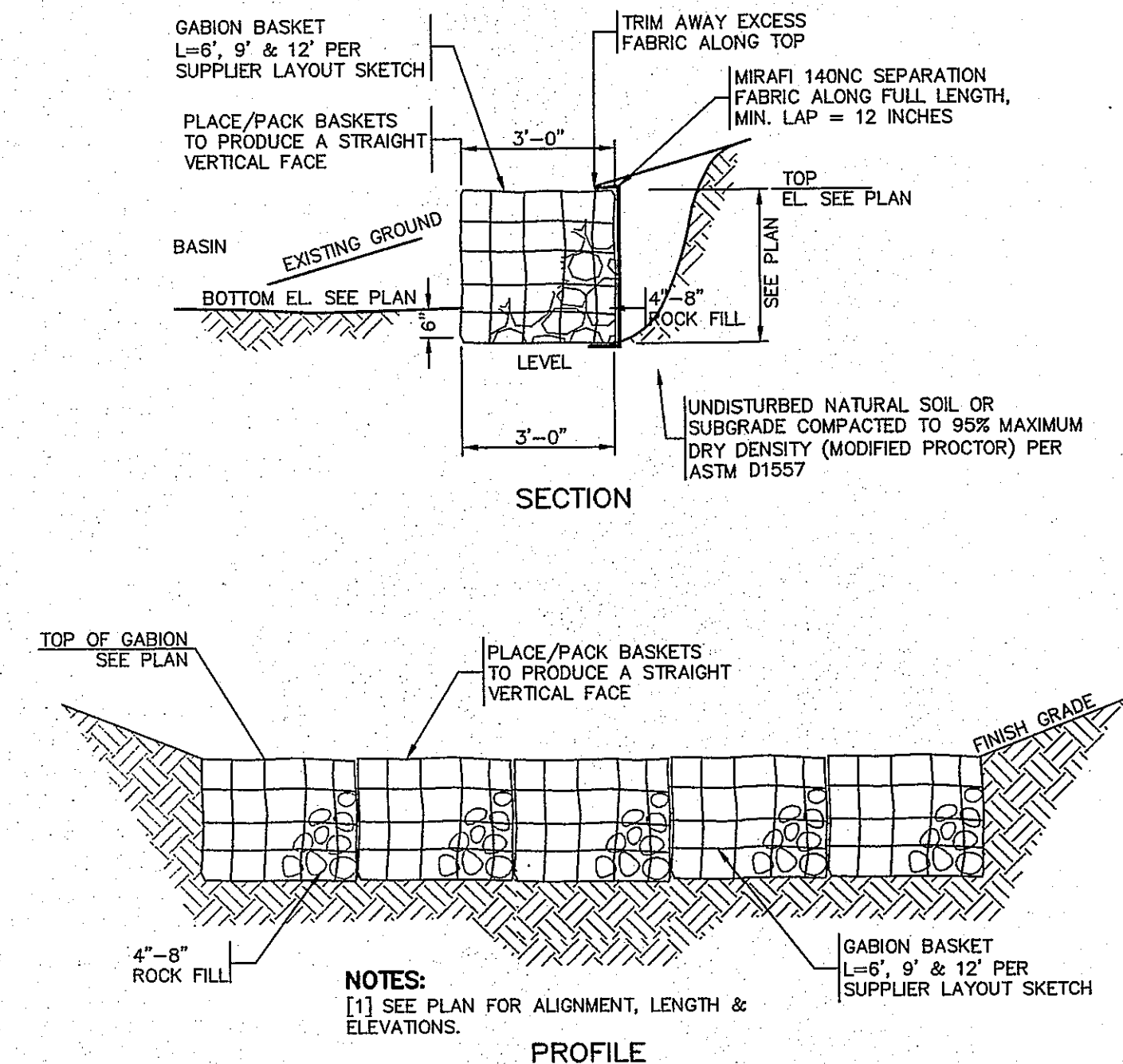
PROJECT: NERINA ESTATES
DEFINITIVE SUBDIVISION
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019
APPLICANT: JOHN J. WASYLEAN, JR.
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
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11	5/8/18	PER CONDITIONS OF APPROVAL
DRAWN BY: WCN, TRB, SJO		
CHECKED BY: PBH, RMM		
DATE: FEBRUARY 2, 2017		
PROJECT NO. 2015-110		

SHEET TITLE:

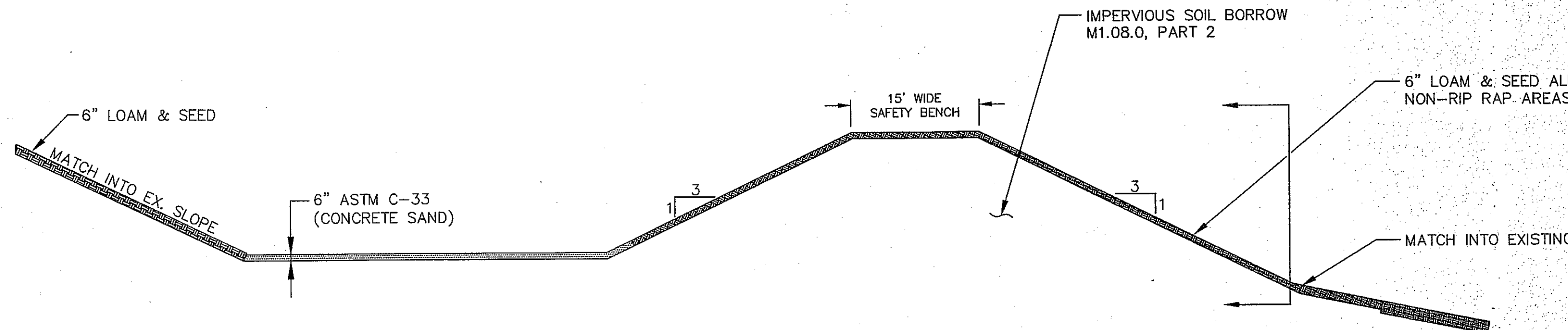
CONSTRUCTION DETAILS

DRAWING NO. C-6.1
PLAN NO. L-4910

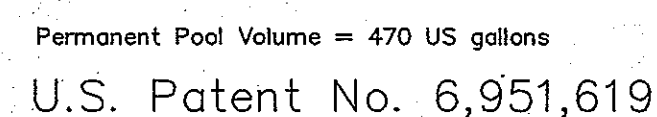


4 GABION WALL DETAIL
SCALE: N.T.S.

NOTE:
INFILTRATION BASIN SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION.

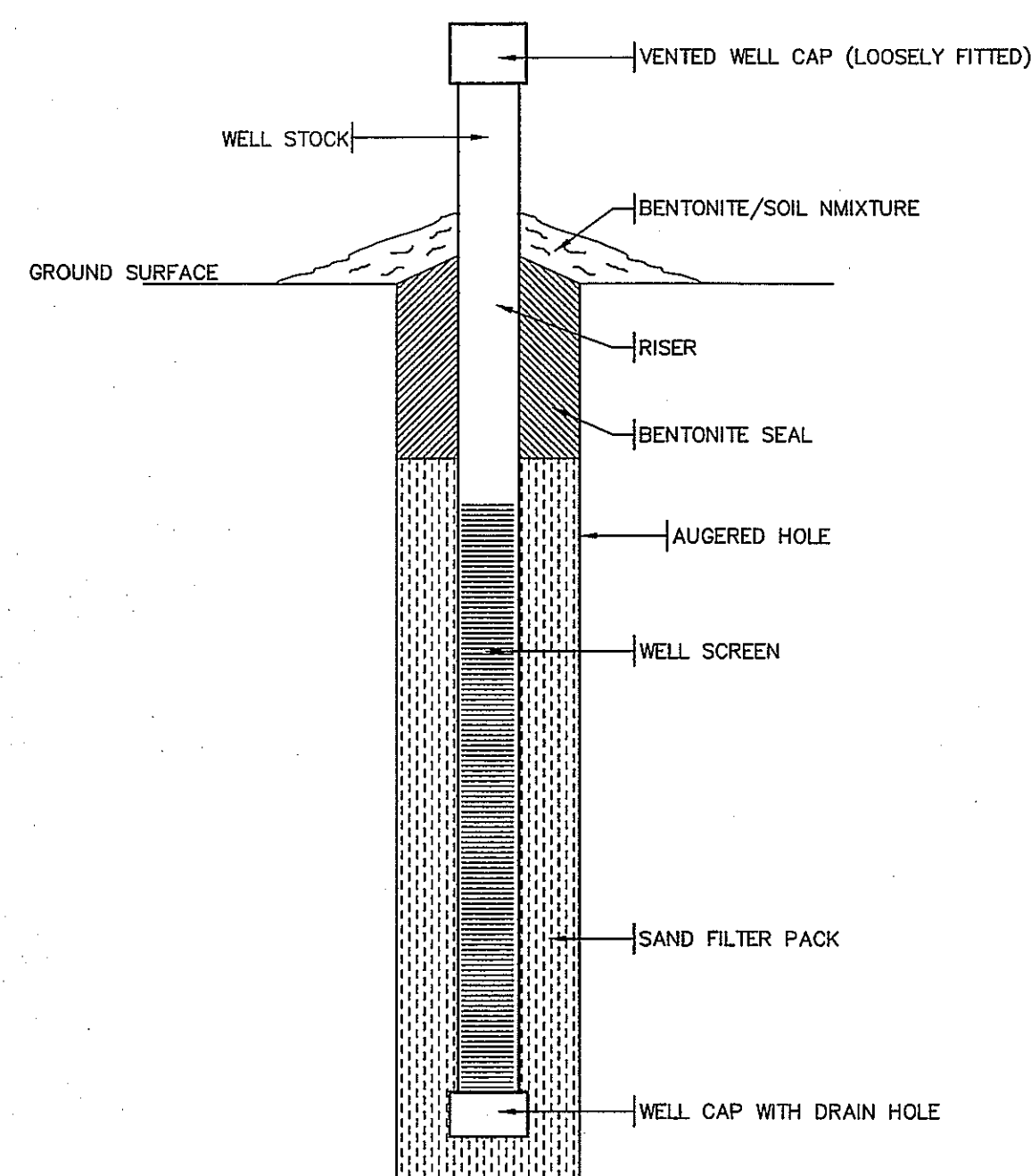


5 INFILTRATION BASIN CROSS SECTION
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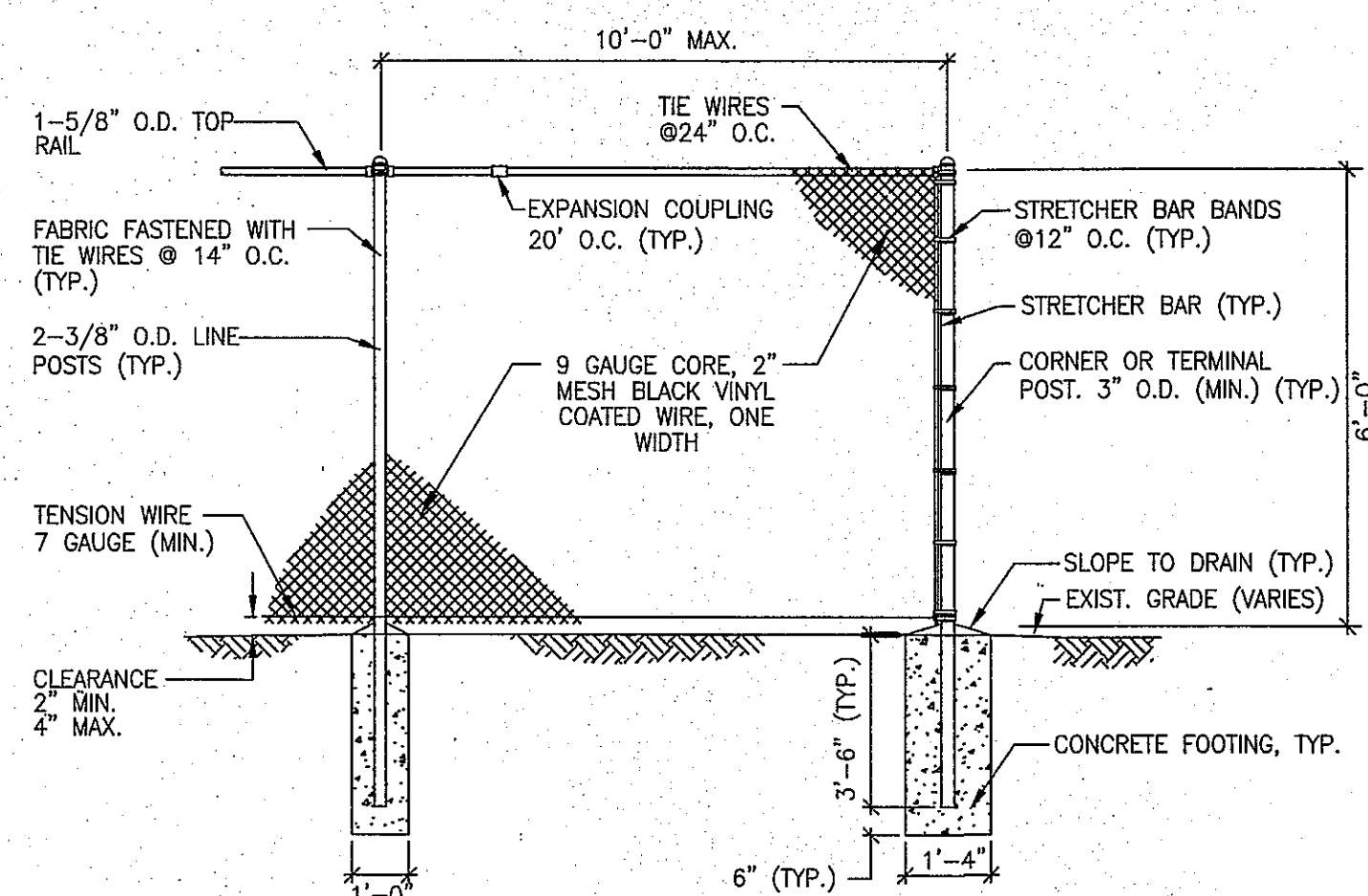


Hydroworks, LLC

1 HYDROWORKS HG4 (48"Ø)
SCALE: N.T.S.



② MONITORING WELL
SCALE: N.T.S.



NOTES:

1. FINAL DESIGN BY OTHERS

③ CHAIN LINK FENCE (CLF)
SCALE: N.T.S.

ASE

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BEING A MAJORITY

DATE: 6/7/84

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TOWN CLERK

DATE _____

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DEFINITIVE SUBDIVISION
7799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

ANT: JOHN J. WASYLEAN, JR.
7799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

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DRAWN BY		WCN, TRB, SJO
CHECKED BY		PBH, RMM
DATE		FEBRUARY 2, 2017
PROJECT NO.		2015-110

SHEET TITLE

CONSTRUCTION DETAILS

DRAWING NO.

C-6.2

PLAN NO. J-4910

EROSION AND SEDIMENT CONTROL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

A. FURNISH, INSTALL, AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS, BUT NOT NECESSARILY LIMITED TO, STRAW BALES AND SILT FENCE BARRIERS, RIPRAP, VEHICLE TRACKING PADS, DIVERSION CHANNELS AND BERMS, CHECK DAMS, STRATEGICALLY LOCATED STOCKPILES, SEDIMENT BASINS, MULCH, AND SEED MIX (HEREINAFTER "CONTROL MEASURES") ADEQUATE TO PREVENT THE CONVEYANCE OF EROSION PRODUCTS (E.G. SOIL, MULCH, SOD) OFF SITE, OR INTO ENVIRONMENTALLY SENSITIVE AREAS, OR INTO AREAS WHERE WORK WILL BE ADVERSELY IMPACTED. ENVIRONMENTALLY SENSITIVE AREAS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, WETLANDS, TRIBUTARIES TO WETLANDS, WETLAND BUFFER ZONES, INTERMITTENT AND PERENNIAL STREAMS / RIVERS, AND THEIR ATTENDANT BUFFER ZONES.

ALL METHODS AND MATERIALS USED FOR EROSION CONTROL SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN "EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS A GUIDE FOR PLANNERS, DESIGNERS, AND MUNICIPAL OFFICIALS" AS PUBLISHED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, UNLESS OTHERWISE APPROVED IN WRITING.

1. REFER TO DRAWINGS FOR LOCATION AND DETAILS OF LIMITS OF DISTURBANCE AND CONTROL MEASURES REQUIRED TO COMMENCE WORK. LIMITS OF DISTURBANCE SHALL BE MARKED WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITIES. CONTROL MEASURES WILL BE ADEQUATE ONLY FOR VEGETATION CLEARING. THE DRAWINGS ARE NOT INTENDED TO GRAPHICALLY DEPICT ALL CONTROL MEASURES THAT WILL BE REQUIRED TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
2. DEVISE AND EMPLOY CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT, OVER ALL AREAS DISTURBED OR UNDISTURBED BY CONSTRUCTION, AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
3. DEVISE AND EMPLOY TEMPORARY CONTROL MEASURES AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A, WHILE ALLOWING WORK TO PROCEED IN AN EFFICIENT, COST EFFECTIVE MANNER.
4. DEVISE, EMPLOY AND MAINTAIN CONTROL MEASURES UNTIL SUCH TIME AS THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA.
5. ONCE THE SITE IS PERMANENTLY STABILIZED AND CERTIFIED AS SUCH BY ENGINEER, REMOVE TEMPORARY CONTROL MEASURES WHILE PROTECTING STABILIZED SURFACES.

1.02 SUBMITTALS

- A. SUBMIT PRODUCT DATA, WARRANTY, AND TEST REPORTS AS INDICATED ON THE DRAWINGS.
- B. SUBMIT SKETCH SHOWING LOCATIONS OF PROPOSED STOCKPILE AREAS, CONSTRUCTION ENTRANCES AND EROSION CONTROLS IF NOT SHOWN ON THE SITE PLAN OR DIFFERENT FROM THOSE LOCATIONS SHOWN ON THE SITE PLAN.
- C. A SITE SPECIFIC SEQUENCE OF CONSTRUCTION FOR EACH PORTION OF THE SITE. NO PORTION OF THE SITE SHALL EXCEED TWO (2) ACRES.

1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, CITY COUNCIL, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT, AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY, WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. STRAW BALES: WEED FREE DRY GRASS OR STRAW, MACHINE BOUND WITH JUTE OR WIRE, APPROXIMATE SIZE EACH BALE 42" X 16" X 16". EACH BALE SHALL BE STAKED WITH A MINIMUM OF TWO 24" LONG HARDWOOD STAKES. NOTE: HAY SHALL NOT BE USED.
- B. STRAW WATTLES: NORTH AMERICAN GREEN MODEL WS1210 OR APPROVED EQUAL.
- C. SILT FENCE: NON-WOVEN, UV-RESISTANT, POLYPROPYLENE FABRIC, FLOW RATED AT 10 GPM/SF MINIMUM; GRAB-TENSILE RATED AT 124 POUNDS MINIMUM, WITH INTEGRAL STAKE LOOPS, AND HARDWOOD STAKES. USE NO. 2130 BY AMOCO FABRICS & FIBERS, OR APPROVED EQUAL.
- D. MULCH: ORGANICS INCLUDING STRAW, PROCESSED PINE / HEMLOCK TWIGS AND NEEDLES.
- E. SEED MIXES: SHALL MEET THE REQUIREMENTS OF MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION SECTION 6.03.0 OR 6.03.1 AS APPROPRIATE.
- F. EXCELSIOR BLANKET: CURLED WOOD FIBER ON PHOTODEGRADABLE EXTRUDED PLASTIC MATRIX, 80% OF FIBERS 6-INCHES LONG OR LONGER, WEIGHT 0.975 POUNDS / SY, CONTAINING NO CHEMICAL ADDITIVES. USE CURLEX I BLANKET BY AMERICAN EXCELSIOR COMPANY, OR APPROVED EQUAL.
- G. ROCK RIPRAP: SOUND, ANGULAR, 6-INCH MINUS PROCESSED ROCK, BLAST ROCK, OR TAILINGS.
- H. CRUSHED STONE: SOUND, ANGULAR, 2-INCH MINUS PROCESSED CRUSHED STONE.

PART 3 - EXECUTION

3.01 THROUGHOUT CONSTRUCTION

- A. DEVISE WORK SEQUENCE SO AS TO LIMIT DRAINAGE AREA THAT IS TRIBUTARY TO DISTURBED AREAS. DEVISE, EMPLOY, AND MAINTAIN CONTROL MEASURES SUCH AS DIVERSION CHANNELS AND BERMS, STRATEGICALLY LOCATED STOCKPILES, AND SEDIMENT BASINS TO SUBDIVIDE DRAINAGE AREAS INTO SMALL, MANAGEABLE SUBAREAS, THEREBY MINIMIZING RUNOFF AND THE POTENTIAL FOR EROSION.
- B. MAINTAIN BARRIER AT LIMIT OF WORK AND PROTECT EXISTING VEGETATION / FACILITIES OUTSIDE OF LIMIT OF WORK.
- C. MAINTAIN SPARE MATERIAL STOCKPILES FOR IMMEDIATE EMPLOYMENT / REPAIR / EXPANSION OF CONTROL MEASURES. AT A MINIMUM, SUCH MATERIALS SHALL INCLUDE HAY BALES, SILT FENCE AND STAKES, AND CRUSHED STONE.
- D. INSPECT AND MAINTAIN EFFECTIVENESS OF CONTROL MEASURES BY REPAIRING AS NECESSARY TO ENSURE INTENDED FUNCTION; BY SUPPLEMENTING AS NECESSARY FOR ADEQUATE EXTENT; BY REMOVING TRAPPED PRODUCTS OF EROSION AS NECESSARY TO MAINTAIN EFFECTIVE TRAP VOLUME.
- E. LIMIT EXTENT OF WORK AREA SO THAT ALL DISTURBED AREAS CAN BE STABILIZED WITH CONTROL MEASURES WITHIN A 24-HOUR PERIOD.
- F. INSTALL CONTROL MEASURES AS SOON AS PRACTICABLE AFTER EACH MANAGEABLE PORTION OF EARTHWORK IS COMPLETE. EMPLOY TEMPORARY MEASURES AS NECESSARY TO STABILIZE DISTURBED AREAS, EVEN WHERE SUBSEQUENT CONSTRUCTION OPERATIONS MAY REQUIRE RE-DISTURBANCE.

- G. WHEN INTENSE RAINFALL IS EXPECTED, CONSIDER, DEVISE, AND EMPLOY REINFORCING CONTROL MEASURES PRIOR TO THE RAINFALL EVENT TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A. IF NECESSARY, EMPLOY TEMPORARY CONTROL MEASURES ON MATERIAL STOCKPILES TO COUNTERACT POTENTIAL SEDIMENT TRANSPORT DURING INTENSE RAINFALL.
- H. WHEN VEHICLE REFUELING IS REQUIRED ON SITE, CONDUCT REFUELING OPERATIONS OUTSIDE OF ENVIRONMENTALLY SENSITIVE AREAS.
- I. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE.
- J. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS. WHEN NECESSARY UTILIZE WATER SPRAYING, SURFACE ROUGHENING AND/OR APPLY POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES AND BARRIERS FOR DUST CONTROL.
- K. INSPECT EROSION CONTROLS DAILY THROUGHOUT CONSTRUCTION REPAIR DAMAGED CONTROLS IMMEDIATELY.

- L. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE.

- M. SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS. WHEN NECESSARY UTILIZE WATER SPRAYING, SURFACE ROUGHENING AND/OR APPLY POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES AND BARRIERS FOR DUST CONTROL.

- N. INSPECT EROSION CONTROLS DAILY THROUGHOUT CONSTRUCTION REPAIR DAMAGED CONTROLS IMMEDIATELY.

3.02 SITE PREPARATION AND ACCESS

- A. WALK SITE AND IDENTIFY LOCATIONS OF LIMIT OF WORK AND ENVIRONMENTALLY SENSITIVE AREAS. ESTABLISH CONSTRUCTION STAGING AREA, LOCATED BEYOND ENVIRONMENTALLY SENSITIVE AREAS.

- B. INSTALL CONTROL MEASURES AS SHOWN ON THE DRAWINGS, INCLUDING THOSE DEFINING THE LIMIT OF WORK.

- C. LIMIT VEHICULAR TRAFFIC TO AND FROM SITE TO MINIMIZE TRANSPORT OF SEDIMENT.

3.03 CLEARING, GRUBBING, AND STRIPPING

- A. SCHEDULE GRUBBING AND STRIPPING TO OCCUR IMMEDIATELY PRIOR TO EARTH DISTURBANCE, DEPENDING ON SITE AREA, CONSIDER MULTIPLE GRUBBING PHASES, SEQUENCED TO TAKE ADVANTAGE OF THE EROSION PREVENTION POTENTIAL OF EXISTING VEGETATIVE COVER.

- B. MINIMIZE THE AREA OF EXISTING VEGETATION REMOVED WHEREVER POSSIBLE. NO GREATER THAN TWO (2) ACRES SHALL BE UNSTABLE AT ANY TIME.

- C. LOCATE AND SIZE STOCKPILES TO MINIMIZE EROSION POTENTIAL, TAKING ADVANTAGE OF TERRAIN SLOPE AND ASPECT, WHERE APPROPRIATE.

- D. PROTECT VEGETATION, INCLUDING ROOT SYSTEMS, BEYOND LIMIT OF CLEARING.

- E. PROCESS TIMBER, STUMPS, SLASH, AND BRUSH SO AS TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND INSTALLED CONTROL MEASURES. PROPERLY DISPOSE OF EXCESS OFF SITE. BURIAL OF STUMPS ON SITE IS PROHIBITED.

3.04 EXCAVATION FOR BUILDING FOUNDATIONS AND UTILITIES

- A. DEVISE AND INSTALL CONTROL MEASURES ADEQUATE TO HANDLE DISCHARGES AND TRAP SEDIMENT FROM FOOTING SUMP AND WELL POINT PUMPS PRIOR TO EXCAVATION.
- B. ARMOR SUMP PUMP DISCHARGE LOCATIONS TO PREVENT EROSION AT POINT OF DISCHARGE AND AREAS DOWNSTREAM.

- C. IF FOUNDATION EXCAVATIONS GRADE TO DAYLIGHT ON THE LOW SIDE, DEVISE AND INSTALL CONTROL MEASURES TO HANDLE SURFACE AND GROUNDWATER FLOW FROM EXCAVATION LOW POINT.

- D. STOCKPILE EXCAVATED MATERIALS TO BAFFLE OVERLAND RUNOFF, AVOIDING THE CREATION OF LENGTHY PATHS OF CONCENTRATED RUNOFF. STOCKPILE SLOPES SHALL NOT EXCEED 2:1.

- E. BACKFILL UTILITY TRENCHES AS SOON AS PRACTICABLE TO PREVENT FLOODING, SLOUGHING, POTENTIAL OVERFLOW, AND REPETITIVE EARTH DISTURBANCE.

3.05 SITE GRADING

- A. WHERE APPLICABLE, FOLLOW EXCAVATION AND FILL PRACTICES SHOWN ON DRAWINGS TO LOCALIZE AND MINIMIZE EROSION.

- B. MONITOR SEDIMENT VOLUME IN TEMPORARY SEDIMENT BASINS AND AT DIVERSION BERMS AND CHECK DAMS. IN ALL AREAS EXCEPT THOSE THAT DO NOT PRESENT POTENTIAL PROBLEMS WITH REGARD TO FUTURE SOIL STABILITY, DRAINAGE, OR BEARING CAPACITY, REMOVE AND PROPERLY DISPOSE OF TRAPPED SEDIMENT BEFORE BRINGING SITE TO FINAL SUBGRADE.

- C. EXPOSED SOILS SHALL BE PERMANENTLY STABILIZED WITHIN FIVE (5) BUSINESS DAYS OF COMPLETION OF CONSTRUCTION OF A GIVEN AREA. EXPOSED AREAS WHERE NO WORK HAS OCCURRED FOR FOURTEEN (14) DAYS SHALL BE TEMPORARILY STABILIZED WITH HYDROSEED OR OTHER APPROVED METHOD.

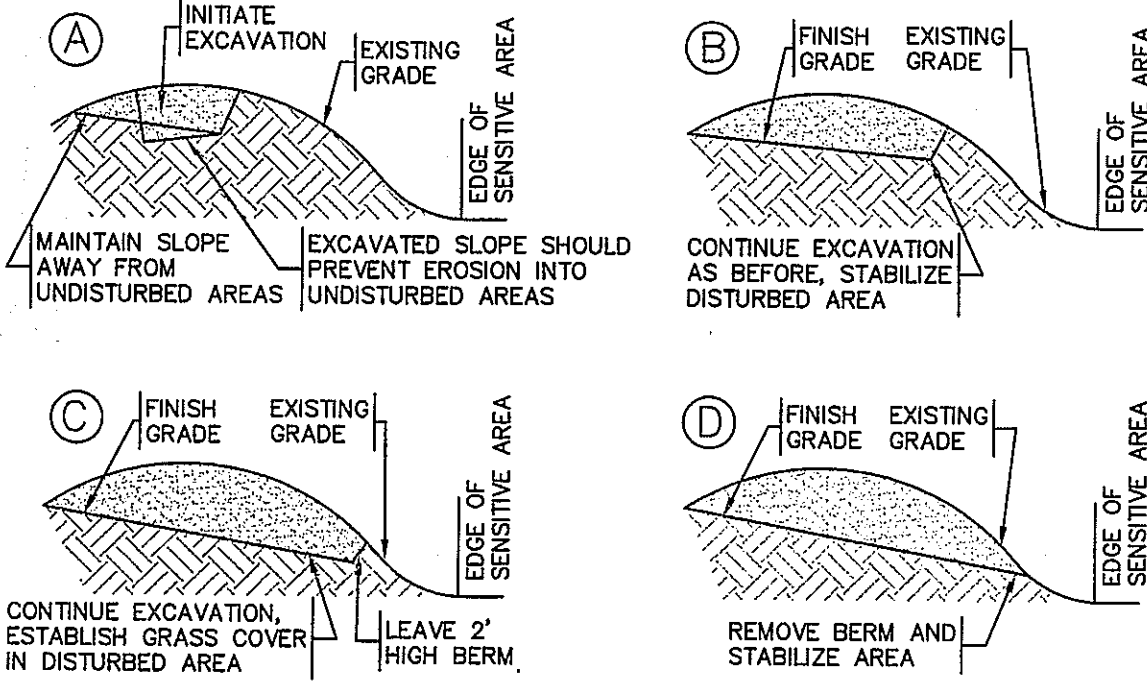
- D. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION.

3.06 LANDSCAPING

- A. COMPLETE LANDSCAPING AS SOON AS POSSIBLE AFTER COMPLETION OF FINAL SUBGRADE.
- B. IMMEDIATELY AFTER PLACEMENT OF TOPSOIL, STABILIZE WITH CONTROL MEASURES INCLUDING, BUT NOT NECESSARILY LIMITED TO, SEED MIX, MULCH, AND / OR BLANKET.
- C. PERMANENT SEEDING MAY BE PERFORMED IN THE SPRING PRIOR TO JULY 1 AND IN BETWEEN AUGUST 1 AND OCTOBER 15. PERMANENT SEEDING AT OTHER TIMES SHALL BE APPROVED AND SHALL ONLY BE ALLOWED WITH AN APPROVED MULCHING AND IRRIGATION PROGRAM.

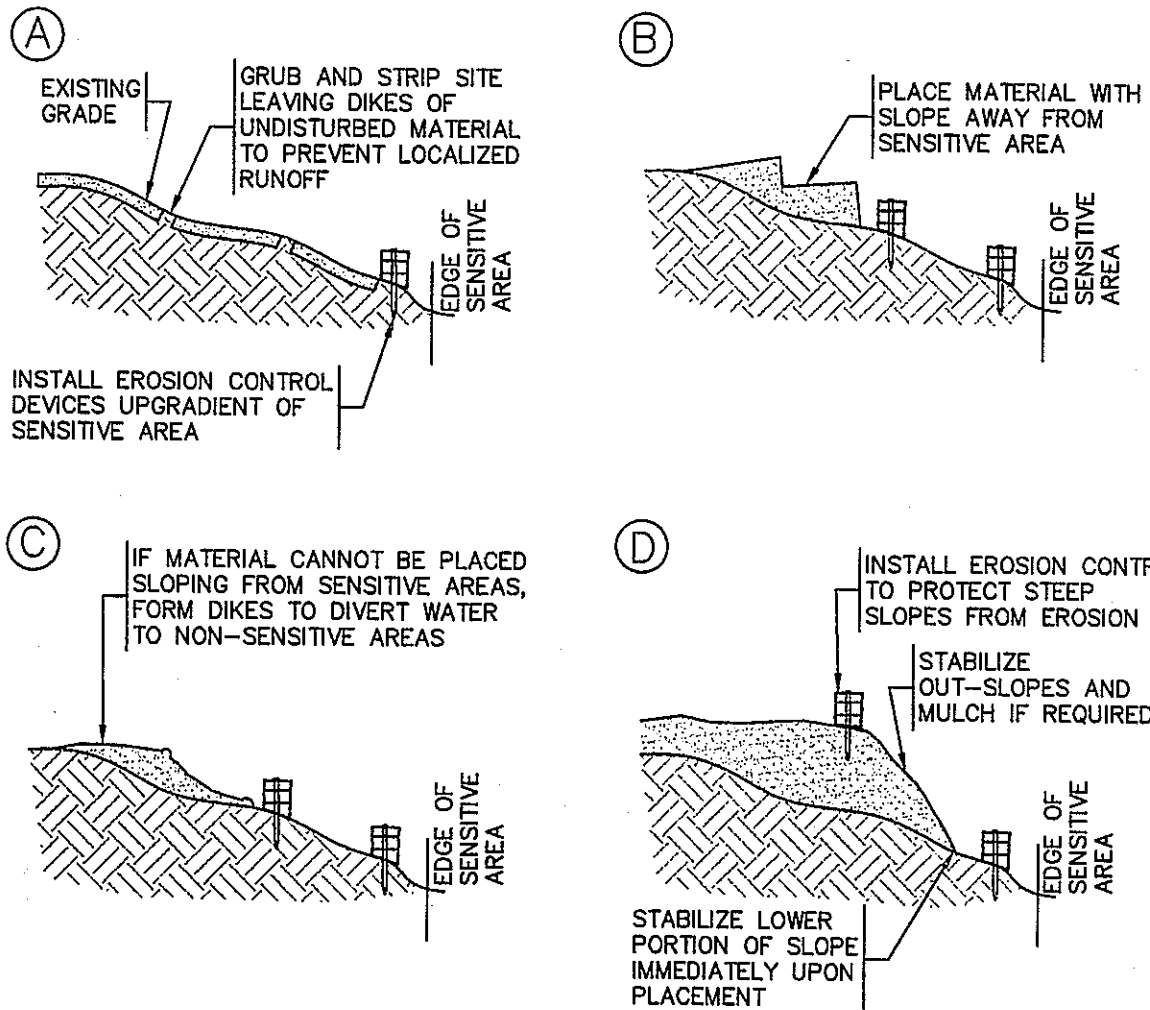
GENERAL SEQUENCE OF CONSTRUCTION

1. PLACE LIMIT OF WORK BARRIERS, FENCES, CONSTRUCTION ENTRANCES AND REQUIRED FENCING & SIGNS PRIOR TO CONSTRUCTION (THESE ITEMS ARE TO BE IN PLACE AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PROCESS).
2. CONSTRUCT SEDIMENT TRAPS & BARRIERS AND PLACE OTHER CONTROLS, DIVERSION TRENCHES, PERIMETER DIKES, WATER BARS & OUTLET PROTECTION.
3. ESTABLISH STOCKPILE AND STAGING AREAS.
4. CUT TREES AND SHRUBS AND REMOVE FROM SITE OR STOCKPILE AND PROTECT STOCKPILE(S) BY APPROVED METHODS.
5. EXCAVATE STUMPS AND REMOVE FROM SITE OR STOCKPILE AND PROTECT STOCKPILE(S) BY APPROVED METHODS.
6. INSTALL DRAINAGE SYSTEM BEGINNING WITH GRADING IN THE EXISTING DEPRESSION BEING UTILIZED AS DETENTION BASIN AREA. INSTALL, STABILIZE AND PROTECT DETENTION BASIN AREAS AND OTHER AREAS DISTURBED FOR COMPONENTS OF DRAINAGE SYSTEM. CLEAR, ROUGH GRADE & STABILIZE SLOPES OF ROADWAY FROM STATION 0+00 TO END BETWEEN JULY 1ST AND SEPTEMBER 15TH.
7. BEGIN EARTHWORKS. ESTABLISH, STABILIZE AND PROTECT CUT AND FILL SLOPES.
8. BEGIN INSTALLATION OF OTHER UTILITIES. ESTABLISH COVER, STABILIZE AND PROTECT AREAS DISTURBED FOR UTILITY INSTALLATION.
9. BEGIN EXCAVATION FOR STRUCTURES. STOCKPILE AND PROTECT EXCAVATED MATERIALS.
10. BACKFILL FOUNDATIONS STABILIZE ALL DISTURBED AREAS AND REMOVE EXCESS SOIL FROM SITE.
11. PERFORM SITE WORK IN ACCORDANCE WITH "EROSION AND SEDIMENT CONTROL REQUIREMENTS, PART 5 - EXECUTION".
12. VERIFY ALL AREAS HAVE BEEN STABILIZED, RE-SEED EXPOSED SOILS.
13. CLEAN INFILTRATION AREA, CLEAN CATCH BASINS AND STORM DRAINS. REMOVE SOILS FROM SITE.
14. REMOVE ALL EROSION CONTROLS, LIMIT OF WORK BARRIERS, FENCES, CONSTRUCTION ENTRANCES, SIGNS AND SWEEP PAVED AREAS.



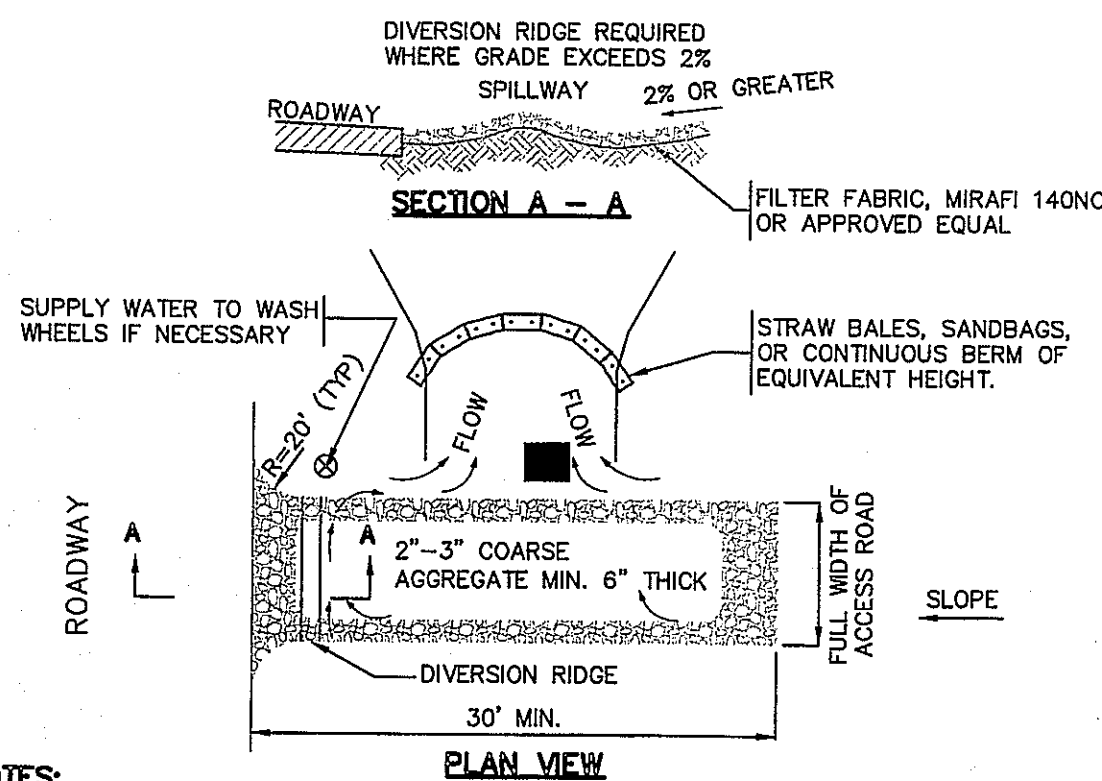
1 EXCAVATION PROCEDURE

SCALE: N.T.S.



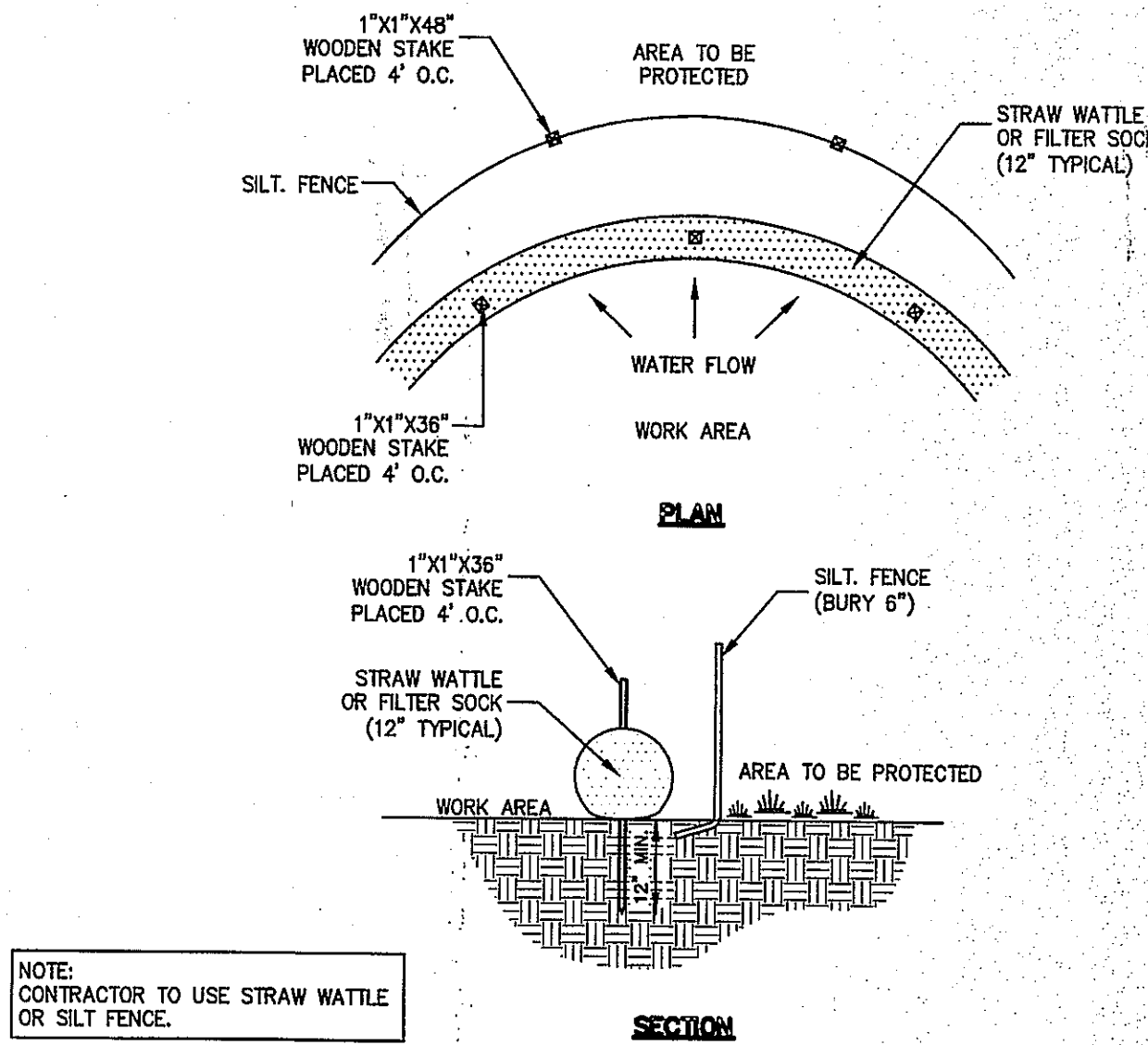
3 FILL PROCEDURE

SCALE: N.T.S.



5 CONSTRUCTION ENTRANCE

SCALE: N.T.S.

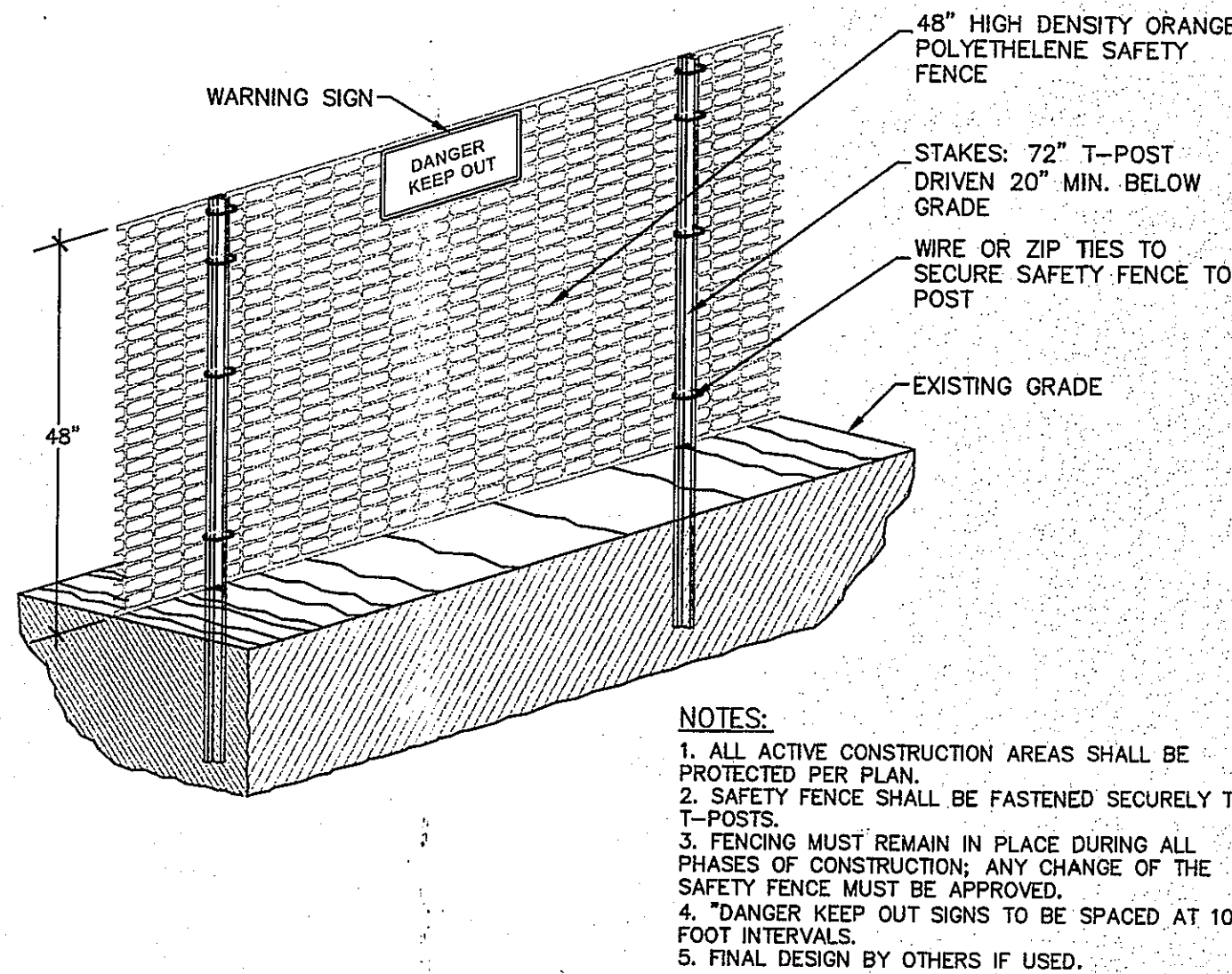


2 EROSION CONTROL BARRIER (ECB)

SCALE: N.T.S.

4 TEMPORARY STOCKPILE

SCALE: N.T.S.



6 CONSTRUCTION SAFETY FENCE

SCALE: N.T.S.

ASE

Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
BELLINGHAM, Massachusetts 01569-0312
P: 508-278-3897 F: 508-278-2289

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APPROVAL UNDER SUBDIVISION CONTROL LAW
REQUIRED. BELLINGHAM PLANNING BOARD

[Signature]
[Signature]
[Signature]

BEING A MAJORITY DATE: 6/20/18

THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD HAS BEEN RECEIVED AND RECORDED ON AT AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.

TOWN CLERK DATE

PROJECT: NERNA ESTATES
DEFINITIVE SUBDIVISION
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

APPLICANT: JOHN J. WASYLEAN, JR.
799-801 PULASKI BLVD.
BELLINGHAM, MA 02019

REVISIONS		
NO.	DATE	DESCRIPTION
1	6/7/17	PLANNING & PEER REVIEW COMMENTS
2	6/22/17	NATIONAL GRID REQUIREMENTS
3	5/26/17	NATIONAL GRID COMMENTS
4	7/06/17	NATIONAL GRID COMMENTS
5	9/26/17	PEER REVIEW COMMENTS
6	10/18/17	PEER REVIEW COMMENTS
7	11/03/17	PEER REVIEW COMMENTS
8	1/05/18	FIRE DEPT. COMMENTS
9	3/20/18	PLANNING & PEER REVIEW COMMENTS
10	4/23/18	PER PEER REVIEW COMMENTS
11	5/8/18	PER CONDITIONS OF APPROVAL
DRAWN BY: WCN, TRB, SJO		
CHECKED BY: PBH, RMM		
DATE: FEBRUARY 2, 2017		
PROJECT NO. 2015-110		

SHEET TITLE:
**EROSION &
SEDIMENT CONTROL
NOTES & DETAILS**

DRAWING NO.
C-7.0

PLAN NO. L-4910