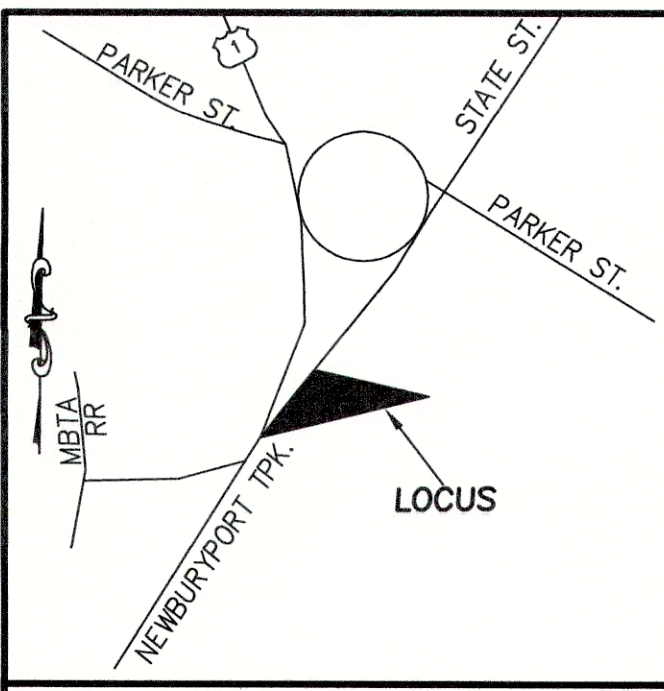


PROPOSED SITE PLAN FOR 177 STATE STREET IN NEWBURYPORT, MA

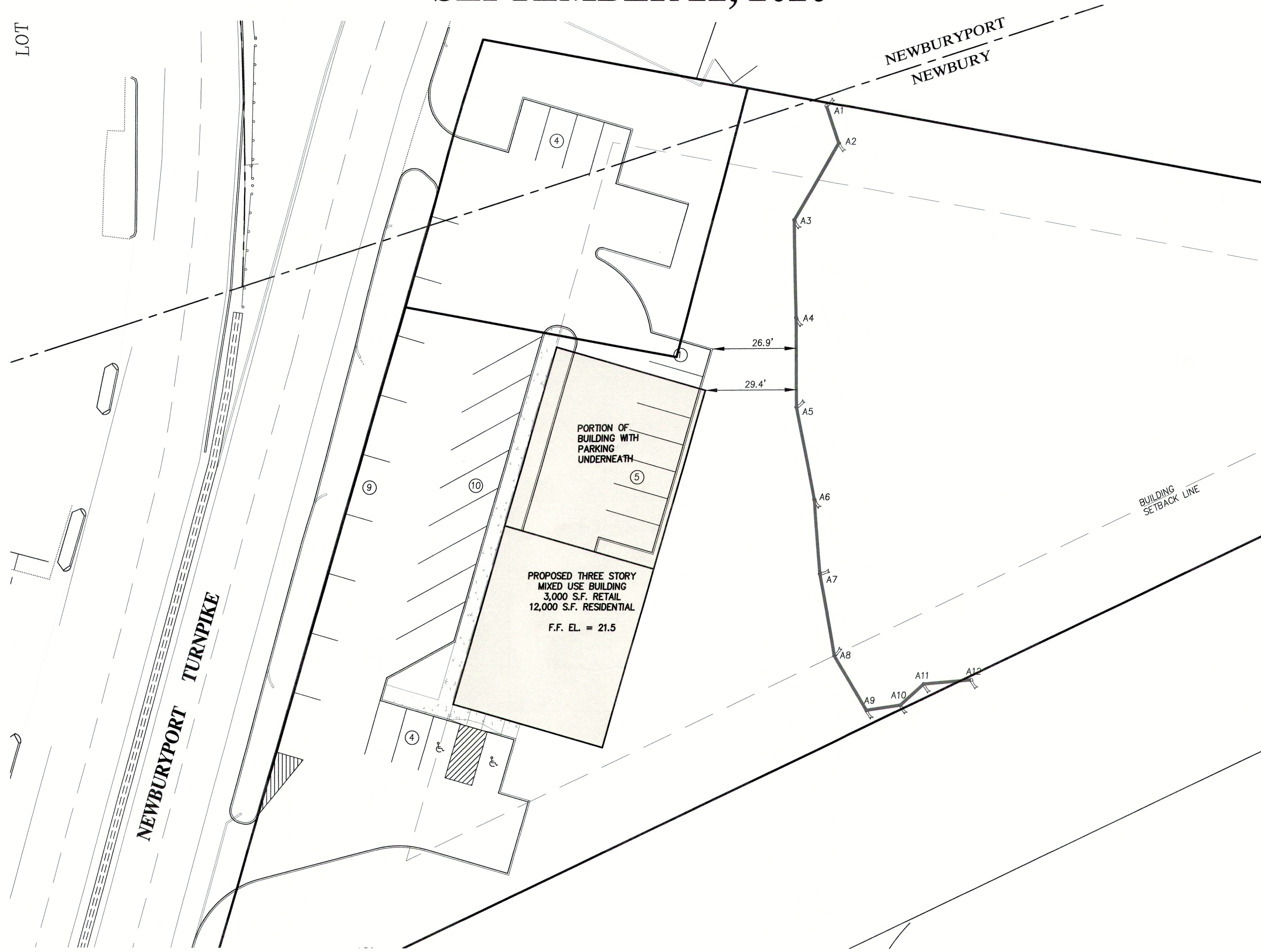
NEWBURYPORT PLANNING BOARD APPROVAL

DATE



LOCUS MAP
N.T.S.

SEPTEMBER 22, 2020

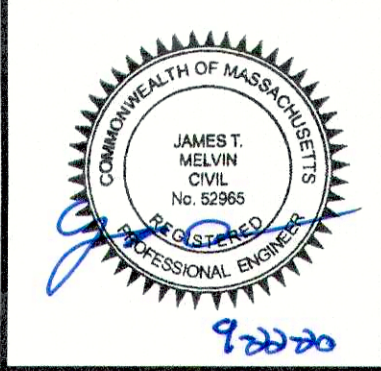
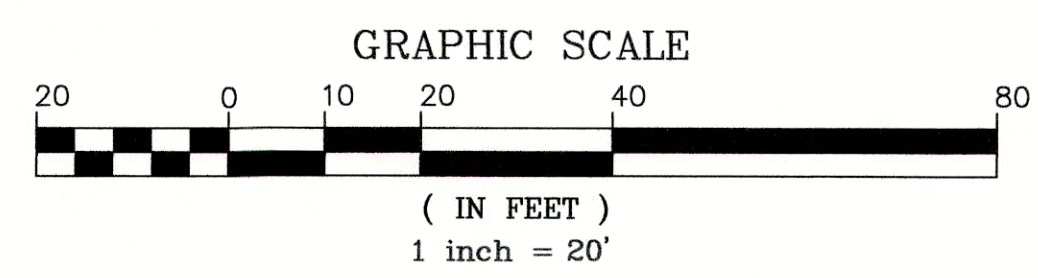


PLAN INDEX

| SHEET NO. | TITLE |
|-----------|----------------------|
| 1 | COVER SHEET |
| 2 | EXISTING CONDITIONS |
| 3 | SITE PLAN |
| 4 | GRADING PLAN |
| 5 | UTILITIES PLAN |
| 6-8 | CONSTRUCTION DETAILS |
| E-1 | LIGHTING PLAN |
| L-1 | LANDSCAPE PLAN |

OWNER OF RECORD

BAVARO FAMILY REALTY TRUST, LLC
BK. 37234 PG. 197
#3 NEWBURYPORT TURNPIKE



PREPARED FOR
BAVARO FAMILY REALTY TWO, LLC
18 GRAF ROAD UNIT #31
NEWBURYPORT, MA

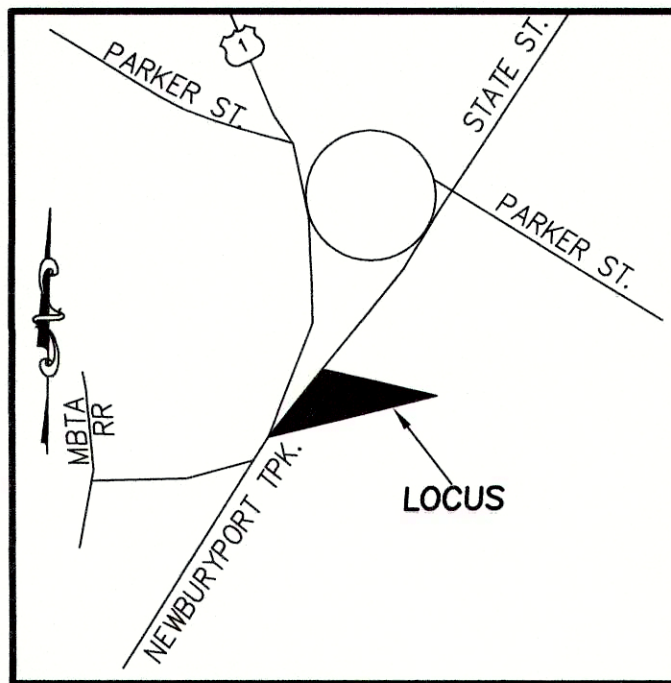
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MEI MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

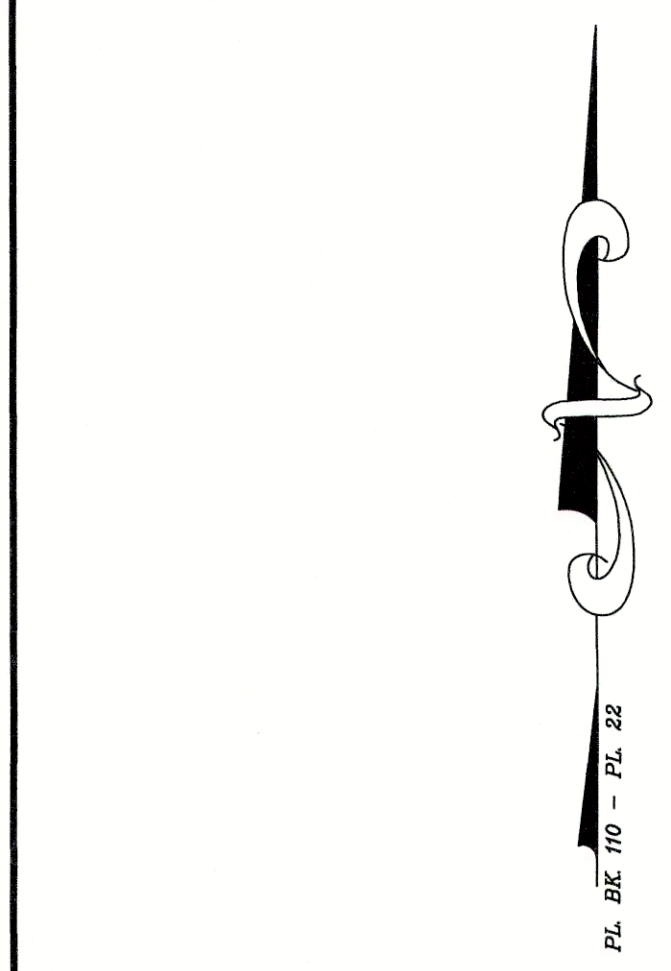
SCALE: 1"=20' DESG. BY: J.T.M.
DATE: SEP. 22, 2020 CHKD. BY: E.W.B. PROJECT: M193668

SITE PLAN
IN
NEWBURYPORT, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
177 STATE STREET

COVER SHEET
SHEET: 1 OF 8

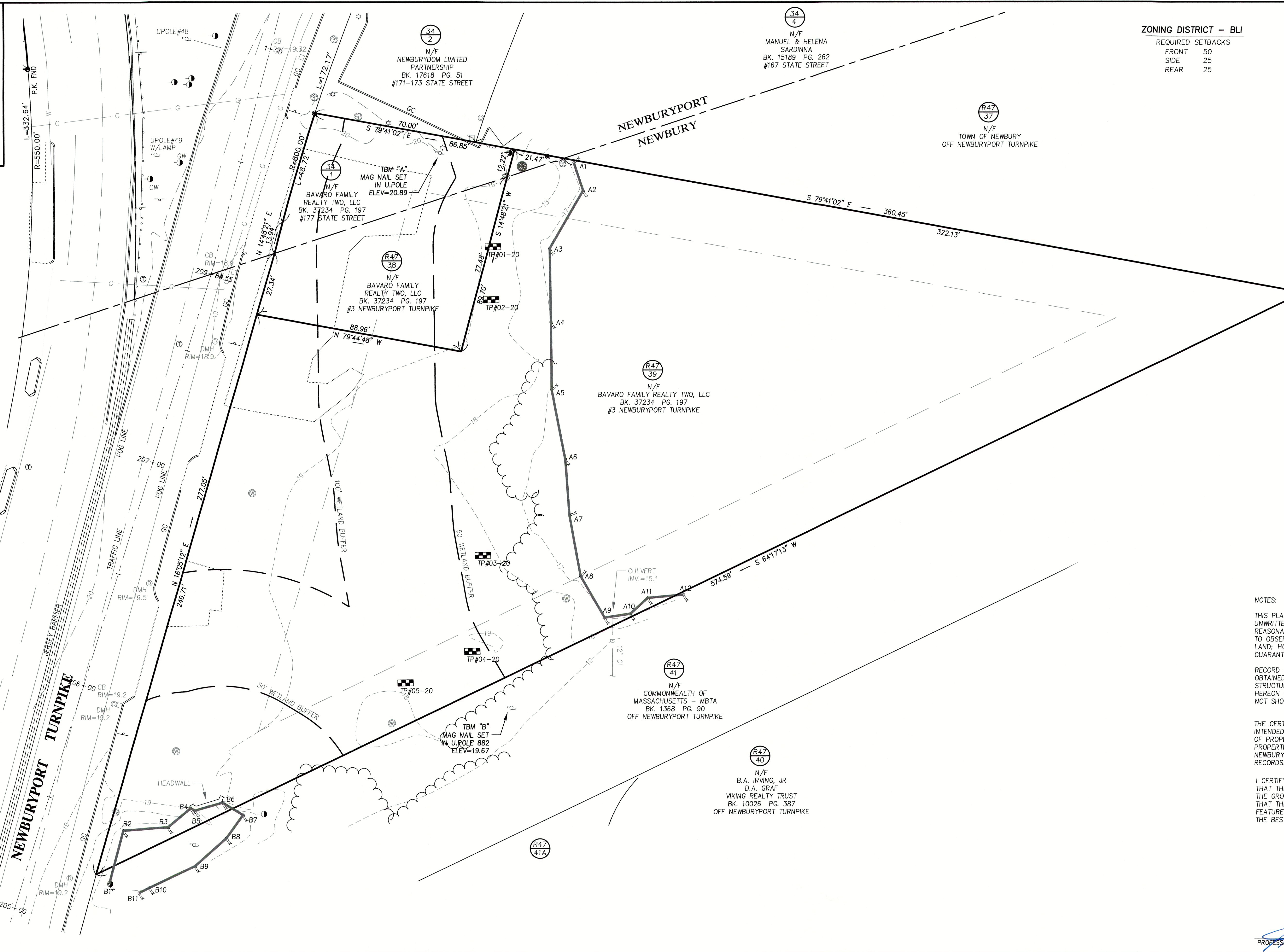


LOCUS MAP
N.T.S.



LEGEND

- C.B. CONCRETE BOUND
- S.B. STONE BOUND
- D.H. DRILL HOLE
- PK MASONRY NAIL
- I.P. IRON PIPE
- I ROD IRON ROD
- FND. FOUND
- N/F NOW OR FORMERLY
- BK. PG. BOOK PAGE
- ASSESSORS MAP#
- 00 PARCEL#



ZONING DISTRICT - BLI

REQUIRED SETBACKS
FRONT 50
SIDE 25
REAR 25

BASIS OF BEARINGS

PLAN BK. 110 PLAN 22

OWNER OF RECORD

BAVARO FAMILY REALTY TWO, LLC
BOOK 37234 - PAGE 197

PLAN REFERENCES

LOCUS: PLAN BK. 110 PLAN 22

NEWBURY LAYOUTS

NEWBURY - JAN. 10, 1923
LAYOUT NO. 1994
SHT. 1 OF 3
SHT. 3 OF 3

NEWBURY - JAN. 10, 1923
LAYOUT NO. 3095
DOCUMENT AND ORDER OF
TAKING

NEWBURY - FEB. 11, 1936
LAYOUT NO. 3181
SHTS. 1 & 2 OF 2

NEWBURY - FEB. 11, 1936
LAYOUT NO. 3182
ONE SHEET

NEWBURY - 1970
ALTERATION
LAYOUT NO. 5823
SHT. 2 OF 2

NEWBURY - 1993
ALTERATION
LAYOUT NO. 7130
SHTS. 1 & 2 OF 2

NEWBURYPORT LAYOUTS

NEWBURYPORT - JULY 16, 1918
LAYOUT NO. 1795
SHT. 1 OF 2

NEWBURYPORT - MARCH 13, 1934
LAYOUT NO. 3091
SHT. 1 OF 4

NEWBURYPORT - MARCH 13, 1934
LAYOUT NO. 3093
ONE SHEET

PLAN NO. 222 OF 1943

PLAN NO. 244 OF 1945

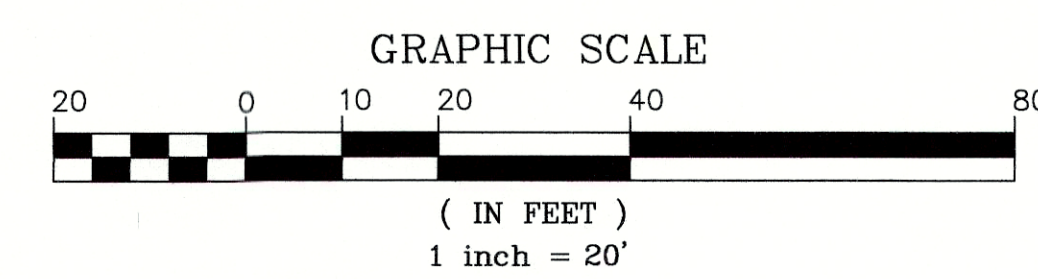
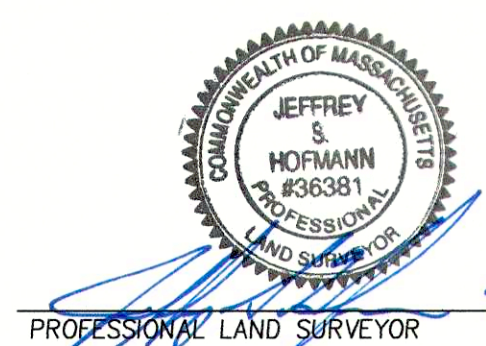
NOTES:

THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT NO SUCH EASEMENTS EXIST.

RECORD UTILITY INFORMATION HAS NOT BEEN OBTAINED FOR LOCUS. VISIBLE SURFACE STRUCTURES HAVE BEEN LOCATED AND ARE SHOWN HEREON HOWEVER, SUBSURFACE UTILITY LINES ARE NOT SHOWN.

THE CERTIFICATIONS SHOWN HEREON ARE NOT INTENDED AS CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT CITY OF NEWBURYPORT AND TOWN OF NEWBURY ASSESSORS RECORDS.

I CERTIFY: THAT THIS ACTUAL SURVEY WAS MADE ON THE GROUND DECEMBER 19, 2019, AND THAT THE STRUCTURES AND PHYSICAL FEATURES ARE LOCATED AS SHOWN TO THE BEST OF MY ABILITY AND BELIEF.



PREPARED FOR
BAVARO FAMILY REALTY TWO, LLC
18 GRAF ROAD - UNIT 31
NEWBURYPORT, MA 01950

MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

PLAN OF LAND
IN
NEWBURYPORT, MA
SHOWING
EXISTING CONDITIONS
AT
177 STATE STREET

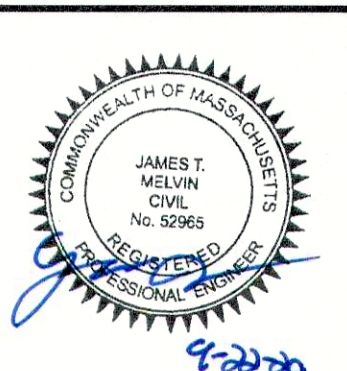
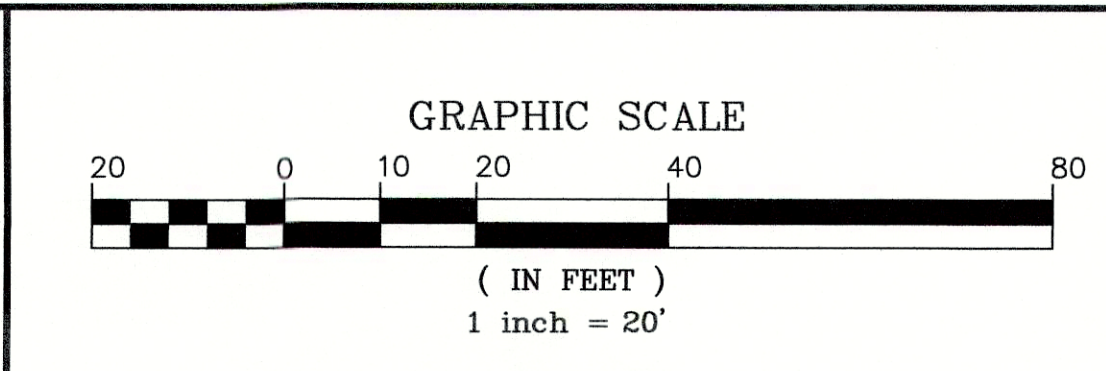
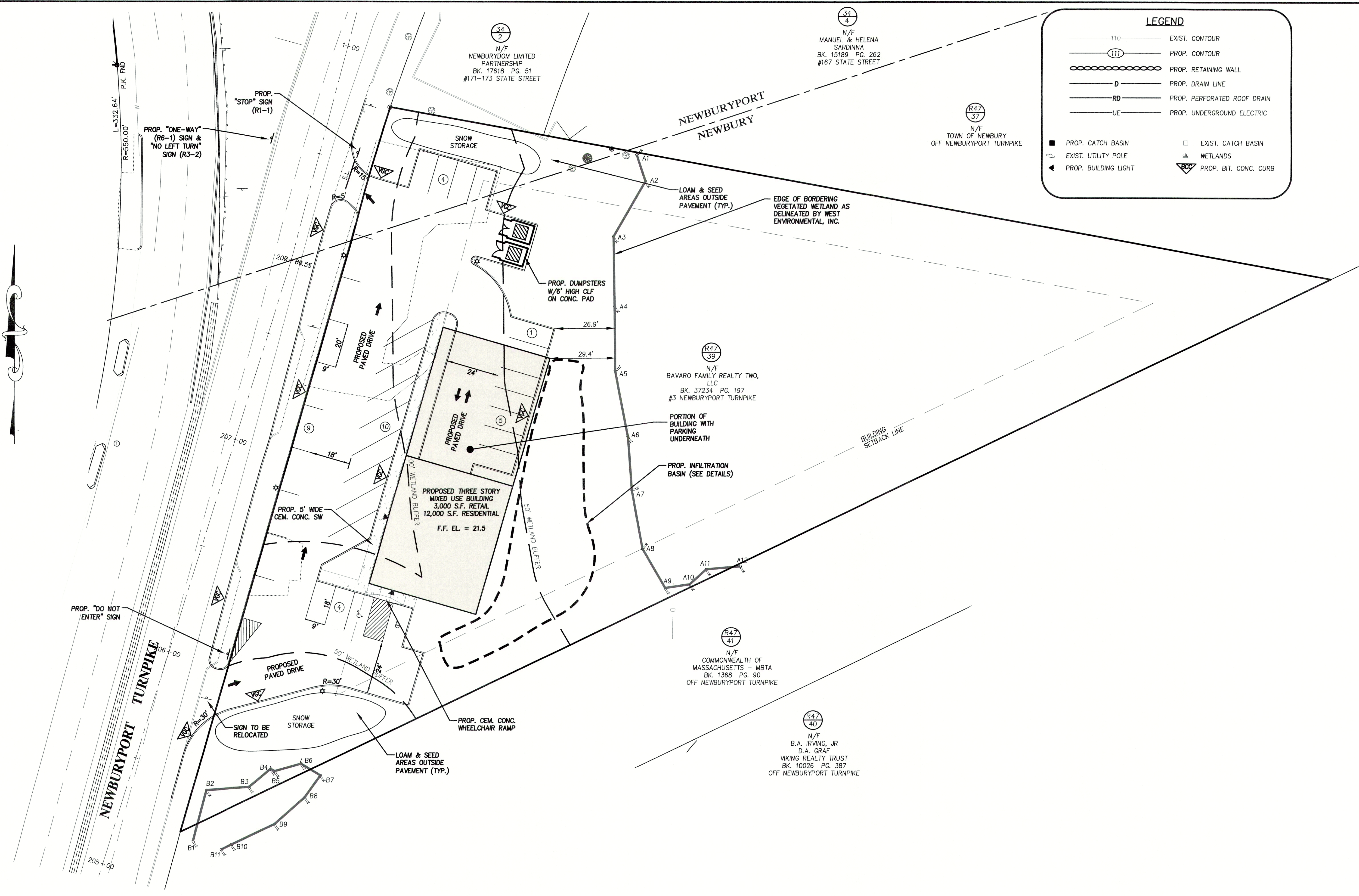
EXISTING CONDITIONS

SHEET: 2 OF 8

| NO. | DATE | DESCRIPTION | BY |
|-----|----------------------|------------------|------------------|
| | DATE: SEPT. 22, 2020 | SCALE: 1"=20' | CALC. BY: P.D.B. |
| | | CHKD. BY: J.S.H. | PROJECT: M193668 |

LEGEND

- 110— EXIST. CONTOUR
- (111)— PROP. CONTOUR
- PROP. RETAINING WALL
- D— PROP. DRAIN LINE
- RD— PROP. PERFORATED ROOF DRAIN
- UE— PROP. UNDERGROUND ELECTRIC
- PROP. CATCH BASIN
- EXIST. CATCH BASIN
- EXIST. UTILITY POLE
- PROP. BIT. CONC. CURB
- ◀ PROP. BUILDING LIGHT
- ▨ WETLANDS



PREPARED FOR

BAVARO FAMILY REALTY TWO, LLC
18 GRAF ROAD UNIT #31
NEWBURYPORT, MA

| NO. | DATE | DESCRIPTION | BY |
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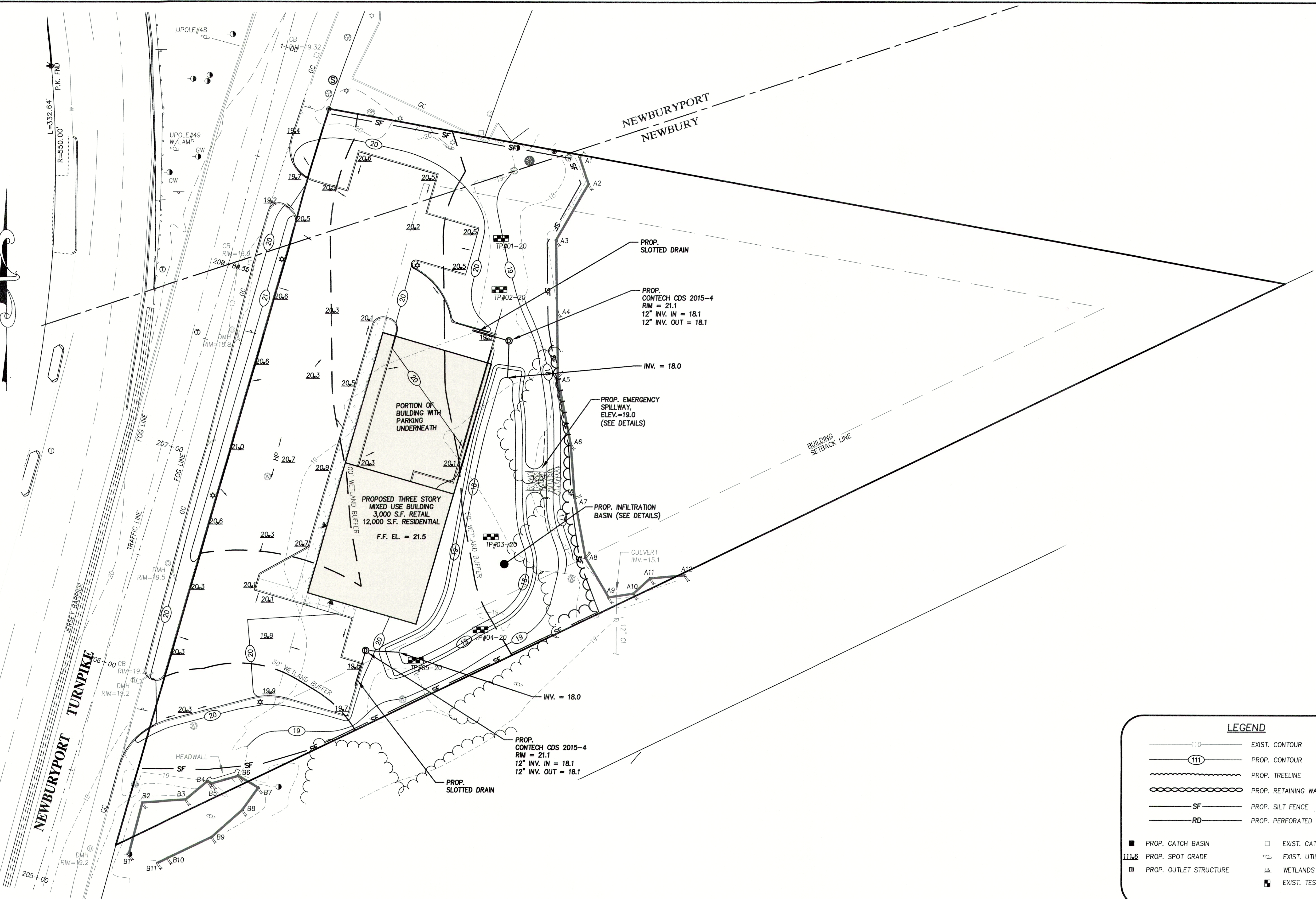
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DATE: SEP. 22, 2020

DESIGN BY: J.T.M.
CHECKED BY: E.W.B.

PROJECT: M193668

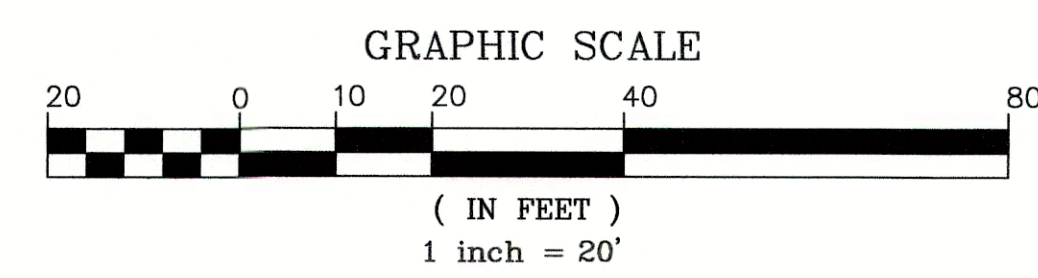
SITE PLAN
IN
NEWBURYPORT, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
177 STATE STREET

SITE PLAN
SHEET: 3 OF 8



LEGEND

- 110— EXIST. CONTOUR
- (111)— PROP. CONTOUR
- ~ PROP. TREELINE
- ⊖ PROP. RETAINING WALL
- SF— PROP. SILT FENCE
- RD— PROP. PERFORATED ROOF DRAIN
- PROP. CATCH BASIN
- EXIST. CATCH BASIN
- 111.6 PROP. SPOT GRADE
- ⊕ EXIST. UTILITY POLE
- PROP. OUTLET STRUCTURE
- ⊕ WETLANDS
- EXIST. TEST PIT



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BAVARO FAMILY REALTY TWO, LLC
 18 GRAF ROAD UNIT #31
 NEWBURYPORT, MA

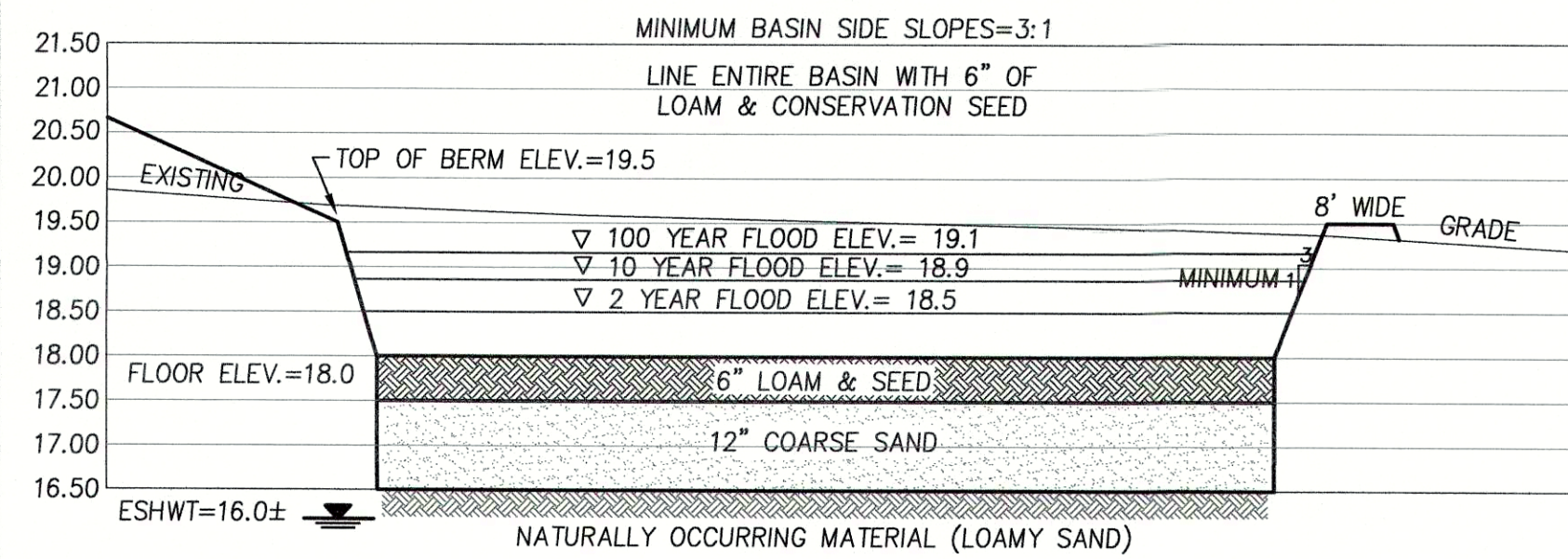
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SCALE: 1"=20'
 DATE: SEP. 22, 2020
 DESG. BY: J.T.M.
 CHKD. BY: E.W.B.
 PROJECT: M193668

SITE PLAN
 IN
NEWBURYPORT, MA
 SHOWING
PROPOSED SITE IMPROVEMENTS
 AT
177 STATE STREET

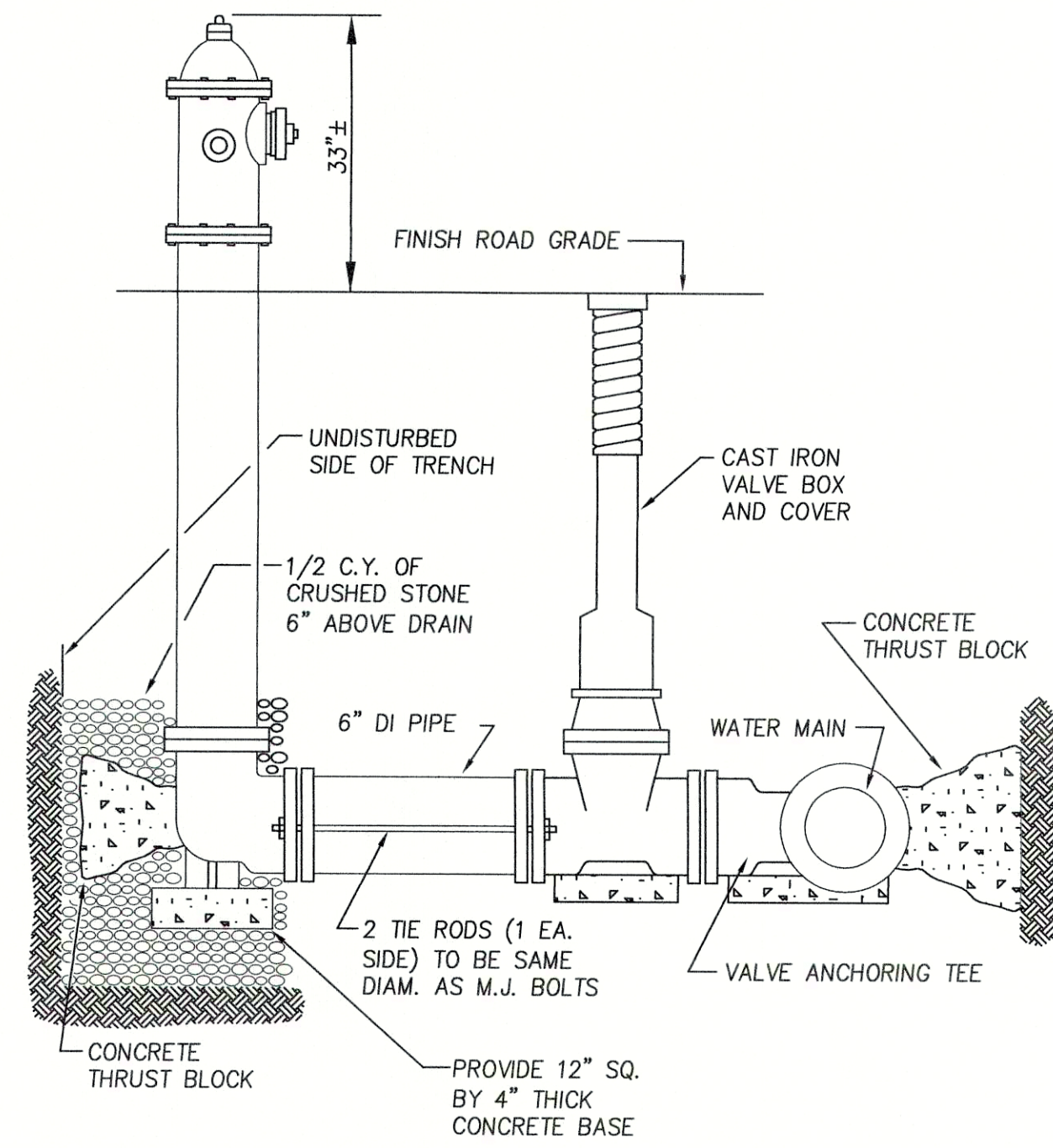
GRADING PLAN
 SHEET: 4 OF 8



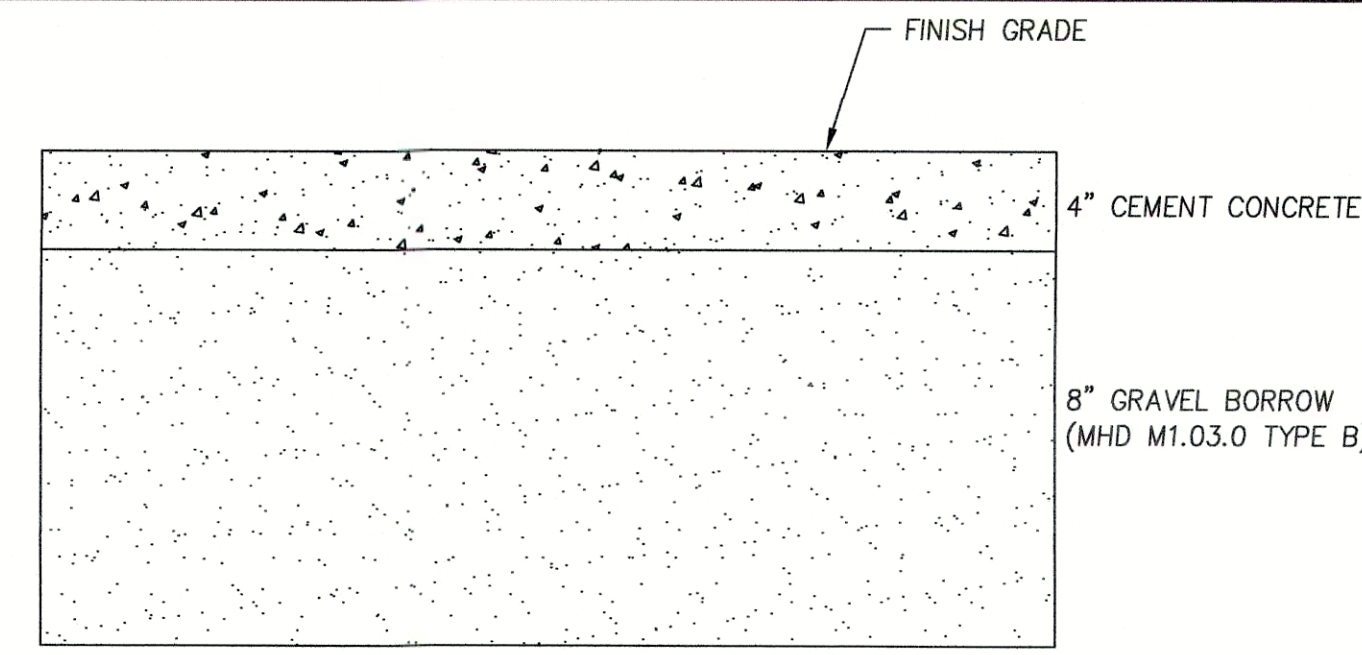
INFILTRATION BASIN
TYP. CROSS-SECTION HORIZ. SCALE: N.T.S.
 VERT. SCALE: 1"=2'

CONSTRUCTION SPECIFICATIONS

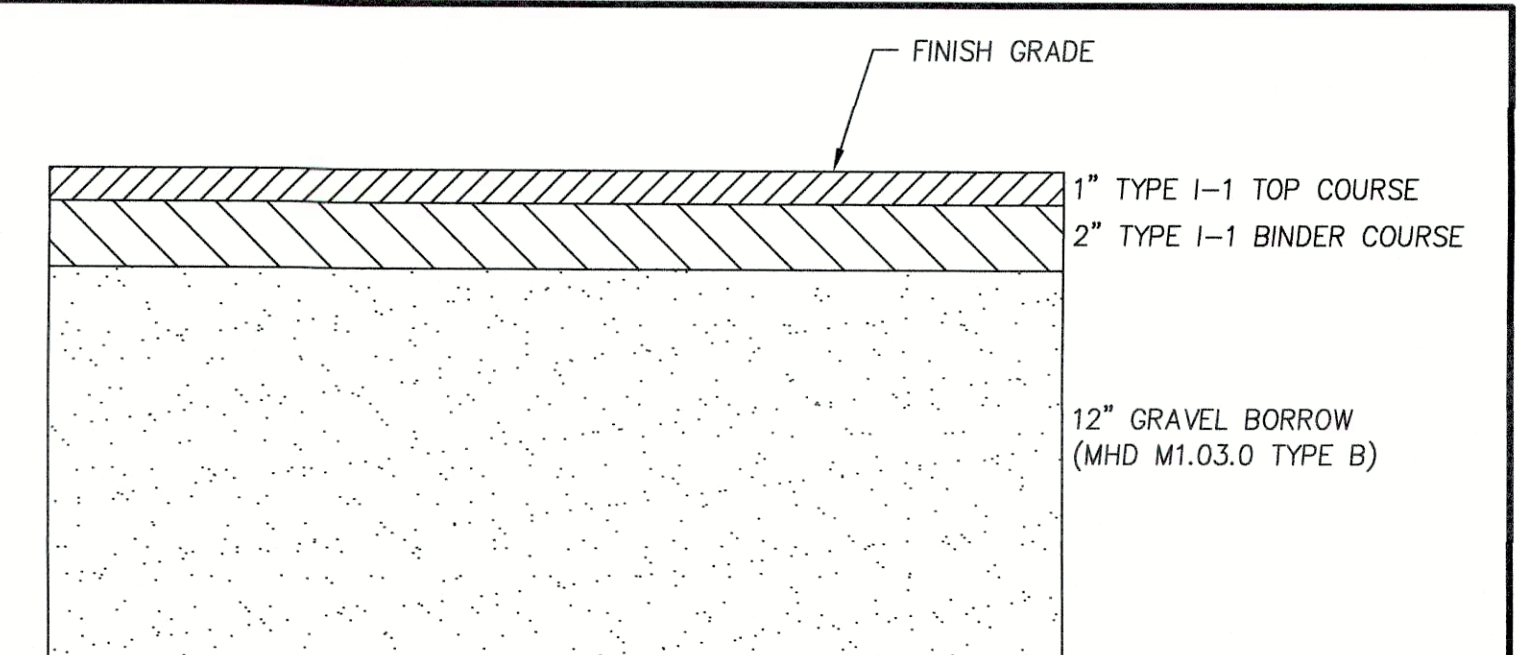
- BERMS SHALL BE CONSTRUCTED OF FILL MATERIAL FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE BERM SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE BERMS SHALL BE CAPABLE OF SUPPORTING THE VEGETATION SPECIFIED ON THE PLANS.
- FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED WITH A MINIMUM REQUIRED DENSITY OF NOT LESS THAN 95% OF MAXIMUM DRY DENSITY.
- PRIOR TO FILL MATERIAL INSTALLATION, ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- AFTER THE INFILTRATION BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL OUTSIDE SLOPES OF STORMWATER BASINS. MATTING SHALL BE A WOVEN JUTE MESH MANUFACTURED BY MACCAFERRI COMPANY, OR APPROVED EQUAL.
- THE INFILTRATION BASIN BOTTOM SHALL BE CONSTRUCTED OF 6" LOAM & CONSERVATION SEED OVER A 12" LAYER OF COARSE SAND.



TYPICAL FIRE
HYDRANT INSTALLATION N.T.S.



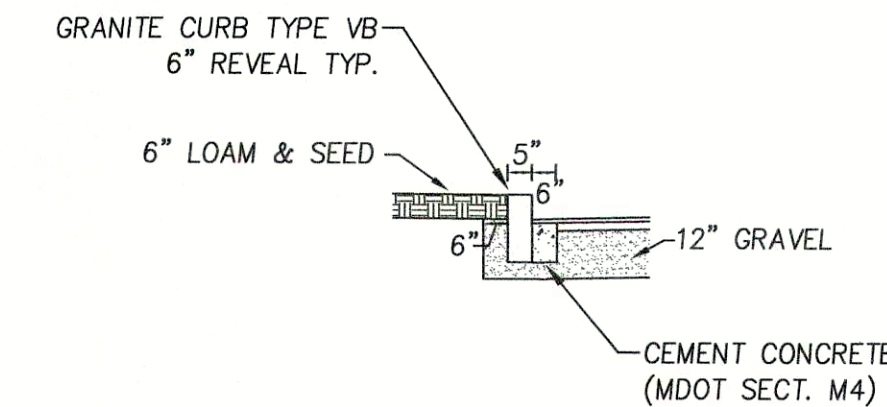
CONCRETE SIDEWALK
DETAIL N.T.S.



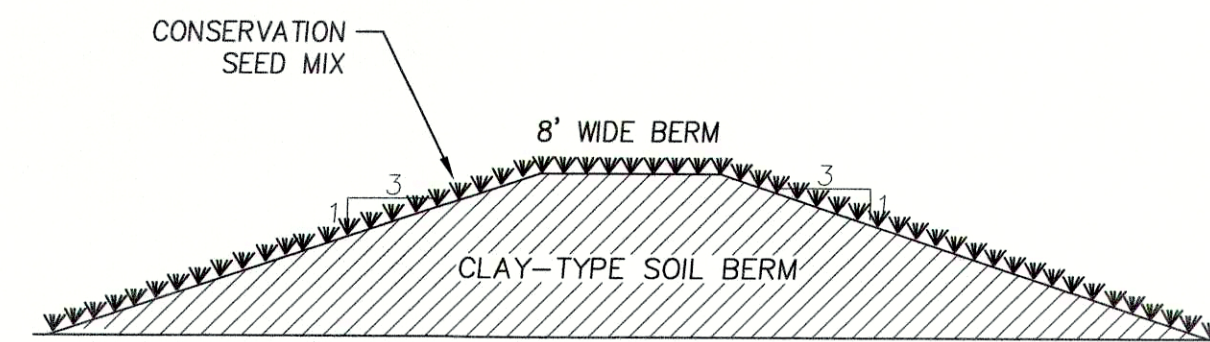
PAVEMENT
DETAIL N.T.S.

PAVEMENT NOTES

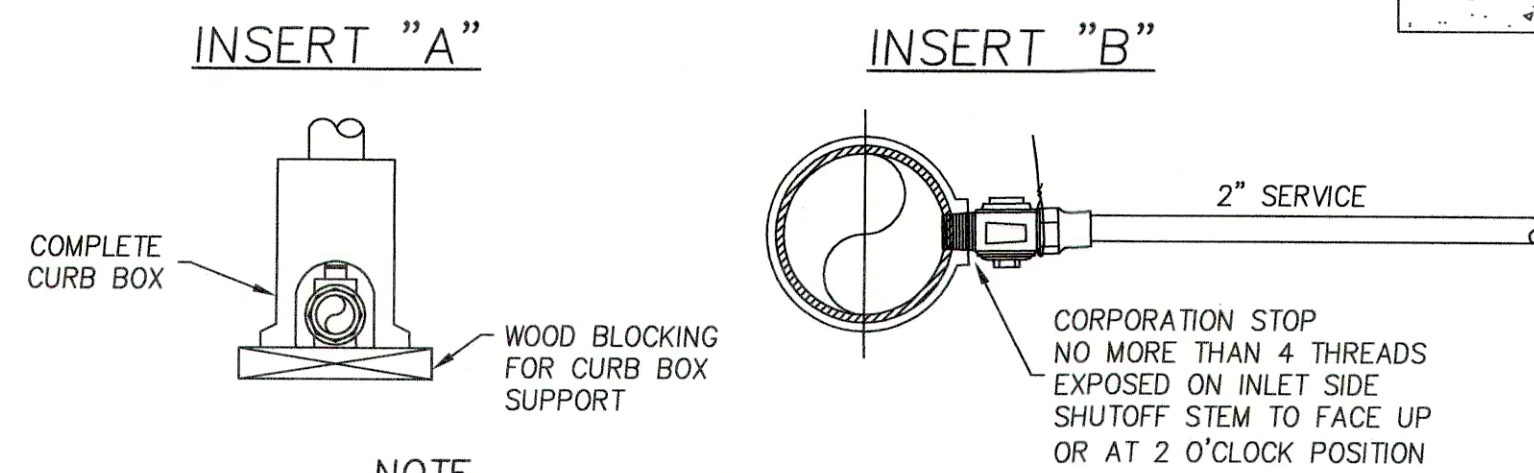
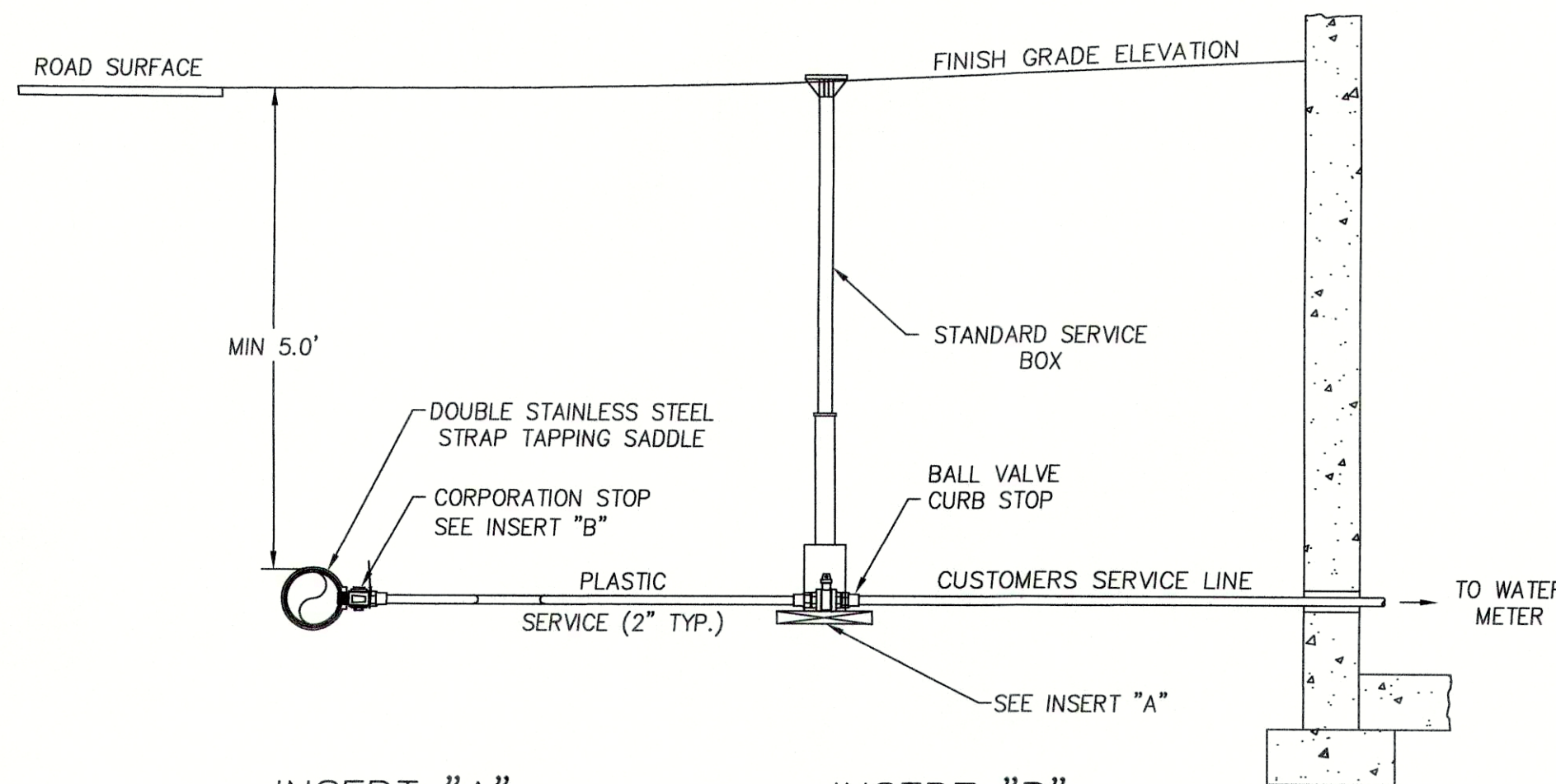
- ALL STUMPS, ROCKS AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- PAVEMENT SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE TRACK WILL EFFECTIVELY BE DRAINED.
- THE CONTRACTOR SHALL REFER TO THE NEWBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, ARTICLES I - VIII.



TYPICAL GRANITE CURBING
INSTALLATION DETAIL N.T.S.

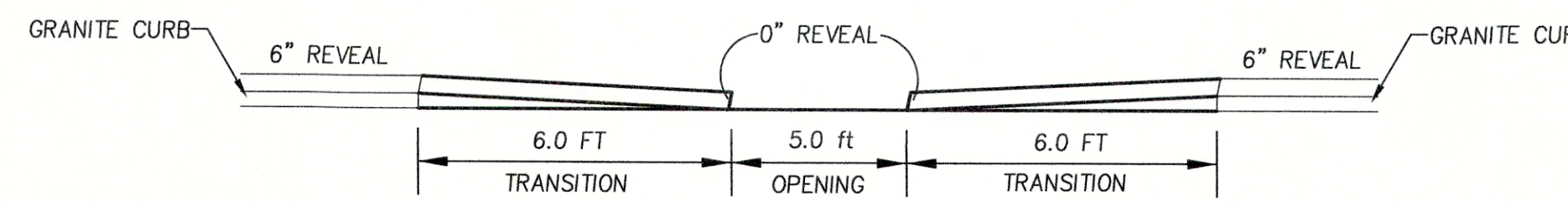


INFILTRATION BASIN
BERM DETAIL N.T.S.

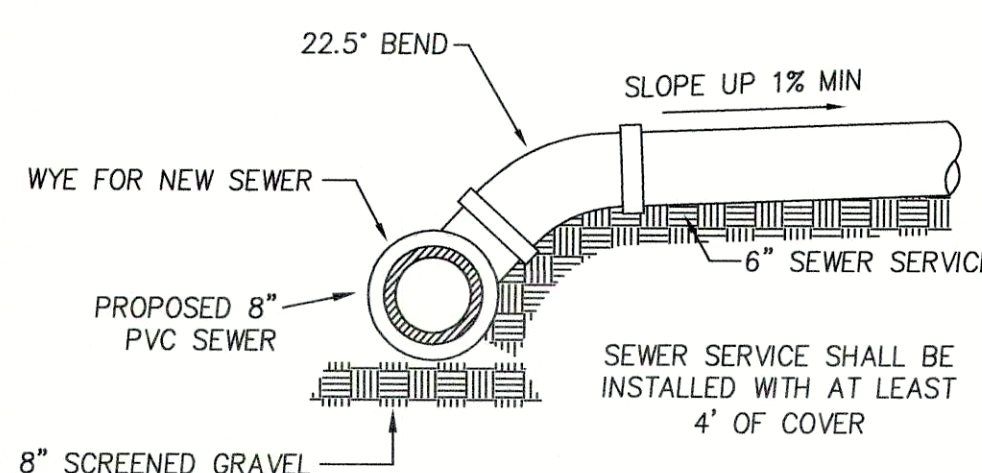


- NOTE**
- SERVICE CONNECTIONS FOR THE VARIOUS LOTS SHALL BE SIZED TO MEET THE REQUIREMENTS OF THE SPECIFIED USE. CONNECTIONS TO THE PROJECT WATER MAIN SHALL BE MADE WITH TAPPING SLEEVES AND VALVES.

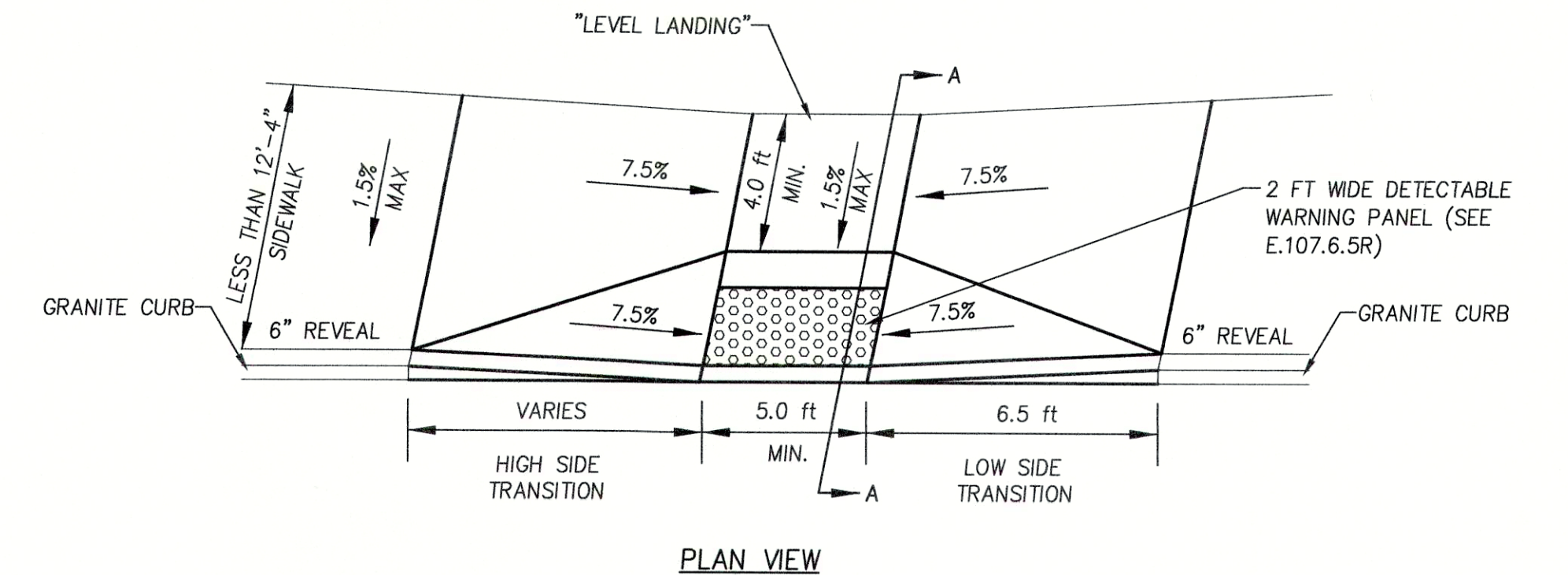
TYPICAL COPPER
SERVICE CONNECTION N.T.S.



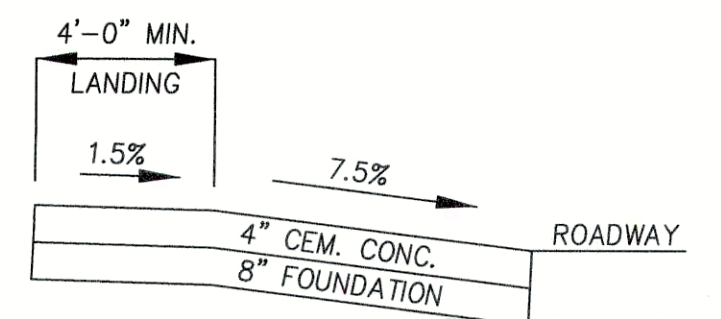
CURB OPENING
DETAIL N.T.S.



SEWER SERVICE
DETAIL N.T.S.



PLAN VIEW



SECTION A-A

NOTES:

- RAMP CROSS SECTION TO BE SAME AS SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
- BASE OF RAMP SHALL MEET PAVEMENT GUTTER SUCH THAT THERE IS NO DIFFERENCE IN ELEVATION. RAMP SHALL BE CONSTRUCTED SUCH THAT WATER DOES NOT "PUDDLE" AT THE BASE OF THE RAMP.
- THE PAVEMENT AT THE BASE OF THE RAMP SHALL BE PART OF THE CONTINUOUS TOP COURSE. THE USE OF A "PAVEMENT PATCH" TO COMPLY WITH THE CONDITIONS IN NOTE 2, ABOVE IS PROHIBITED.
- RAMPS SHALL CONFORM TO MASS DOT WHEELCHAIR RAMP STANDARDS - LATEST REVISIONS.

CEMENT CONCRETE WHEELCHAIR
RAMP DETAIL N.T.S.



PREPARED FOR
BAVARO FAMILY REALTY TWO, LLC
 18 GRAF ROAD UNIT #31
 NEWBURYPORT, MA



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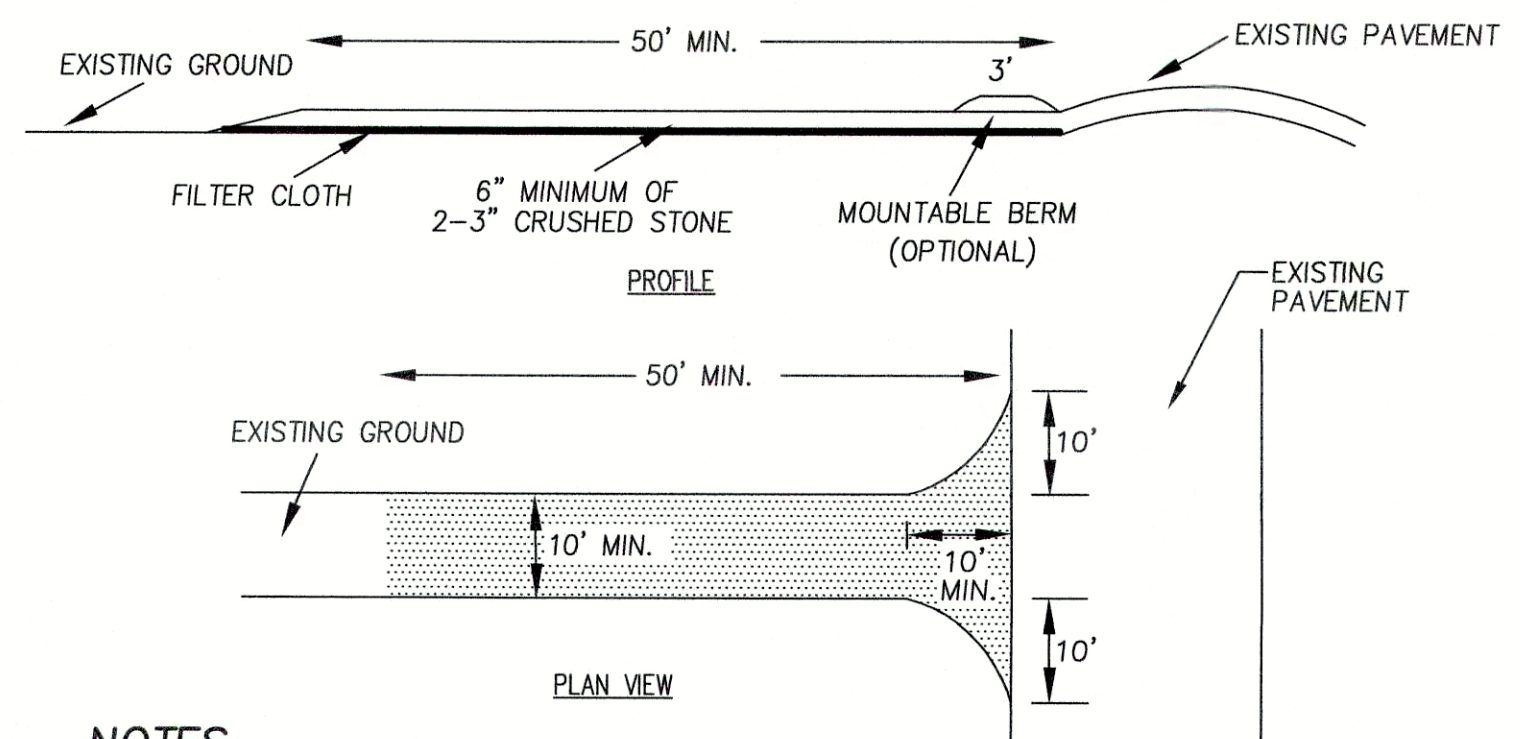
SITE PLAN
 IN
NEWBURYPORT, MA
 SHOWING
PROPOSED SITE IMPROVEMENTS
 AT
177 STATE STREET

CONSTRUCTION
DETAILS

SHEET: 6 OF 8

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| | | | |

SCALE: 1"=20' DESG. BY: J.T.M.
 DATE: SEP. 22, 2020 CHKD. BY: E.W.B. PROJECT: M193668



NOTES

- STONE SHALL BE 2-3" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50'.
- THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6".
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD 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.
- 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 TOP-DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
- WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION

ENTRANCE

N.T.S.

GENERAL EROSION

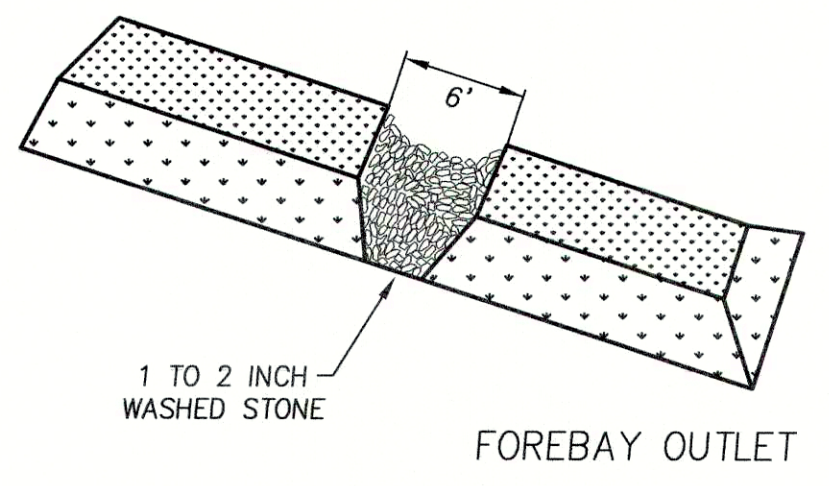
CONTROL NOTES

- ALL SILT FENCE SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL SOIL.
- ALL FILL SHALL BE FREE OF STUMPS AND LARGE STONES. LEDGE ENCOUNTERED ONSITE CAN BE GROUND UP TO A MAXIMUM 3" SIZE AND USED FOR FILL.
- ANY STANDING BODIES OF WATER CREATED DURING EXCAVATION SHALL BE ELIMINATED.
- EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY.
- ACCUMULATED SEDIMENT DEPOSITS UPSTREAM OF BARRIERS SHALL BE PROPERLY DISPOSED OF ON A REGULAR BASIS.
- AREAS OUTSIDE THE LIMITS OF WORK (EROSION CONTROL/SILT FENCE LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND/OR SEDIMENT CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM EVENTS. REPAIRS, IF REQUIRED, SHALL BE MADE IMMEDIATELY.
- TEMPORARY GROUND COVER SHALL BE ESTABLISHED IN AREAS OF CONSTRUCTION WHERE REQUIRED BY THE NEWBURY PLANNING BOARD AND CONSERVATION COMMISSION.
- ANY DISTURBED AREAS OF THE SITE NOT USED FOR ROADWAY OR UTILITY CONSTRUCTION SHALL BE STABILIZED WITH LOAM AND SEED UNTIL FURTHER DISTURBANCE IS REQUIRED FOR BUILDING CONSTRUCTION.
- AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED: BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED; A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- THE CONTRACTOR SHALL IDENTIFY TO THE TOWN HIS/HER TOPSOIL STOCKPILING OPERATIONS AND LOCATIONS.
- PROVIDE SILTSACK (OR APPROVED EQUAL) SEDIMENT FILTER AT ALL CATCH BASINS.
- A MINIMUM OF 6" OF LOAM SHALL BE INSTALLED ON ALL DISTURBED UNPAVED SURFACES.
- SEED MIX SHALL BE NO LESS THAN 4 LBS./1000 S.F. OF LAND AREA. SEED SHALL CONSIST OF A MAXIMUM OF 10% RYE GRASS AND A MINIMUM OF 90% PERMANENT BLUEGRASS AND/OR FESCUE. LIME SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
- NO MORE THAN 6 ACRES SHALL BE DISTURBED AT ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- WHERE PLACEMENT OF FILL IS REQUIRED FOR THE CONSTRUCTED WETLAND, FILL SHALL BE PLACED IN AN UNFROZEN STATE UPON UNFROZEN GROUND.

CONSTRUCTION

SEQUENCE

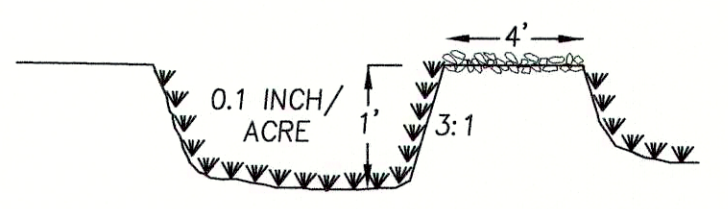
- INSTALL SILT FENCE AT LIMIT OF WORK & STAKE OUT INFILTRATION BASIN.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS DEPICTED.
- CLEAR AND GRUB DEBRIS TO PHASE LINE AND DISPOSE OF PROPERLY.
- STRIP, SCREEN AND STOCKPILE TOPSOIL. TOPSOIL CAN BE TEMPORARILY STOCKPILED ON SITE PROVIDING THAT THE PERIMETER OF THE STOCKPILES ARE PROPERLY STAKED WITH SILT FENCE AT THE TOE OF SLOPE.
- ROUGH GRADE INFILTRATION BASIN.
- GRADE PAVEMENT TO TOP OF SUBGRADE ELEVATIONS. ALL ROADWAYS MUST BE STABILIZED IMMEDIATELY AFTER GRADING.
- BEGIN BUILDING CONSTRUCTION.
- INSTALL UTILITIES/DRAINAGE STRUCTURES.
- PLACE RIPRAP WHERE SHOWN ON PLANS. LOAM AND HYDROSEED SIDESLOPES AND ALL DISTURBED AREAS WITHIN 72 HOURS.
- SPREAD, SHAPE, AND COMPACT PAVEMENT SUBBASE AS PER TYPICAL PAVEMENT SECTION TO ATTAIN FINAL DESIGN ELEVATIONS.
- PERFORM BINDER COURSE PAVING.
- LOAM AND HYDROSEED ANY DISTURBED SURFACES ALONG EDGES OF PAVEMENT AS REQUIRED.
- PERFORM FINAL PAVING (TOP COURSE).
- REMOVE EROSION CONTROL.



VOLUME OF SEDIMENT FOREBAY

| FOREBAY # | DRAINAGE AREA (ACRES) | VOLUME (CU. YD) | VOLUME (CU. FT) | DIMENSIONS (L x W x H) | OUTLET LENGTH |
|------------|-----------------------|-----------------|-----------------|------------------------|---------------|
| FOREBAY #1 | 0.24 | 3.3 | 89 | 10'x10'x1.0' | 6.0' |
| FOREBAY #2 | 0.15 | 2.0 | 55 | 8'x8'x1.0' | 6.0' |

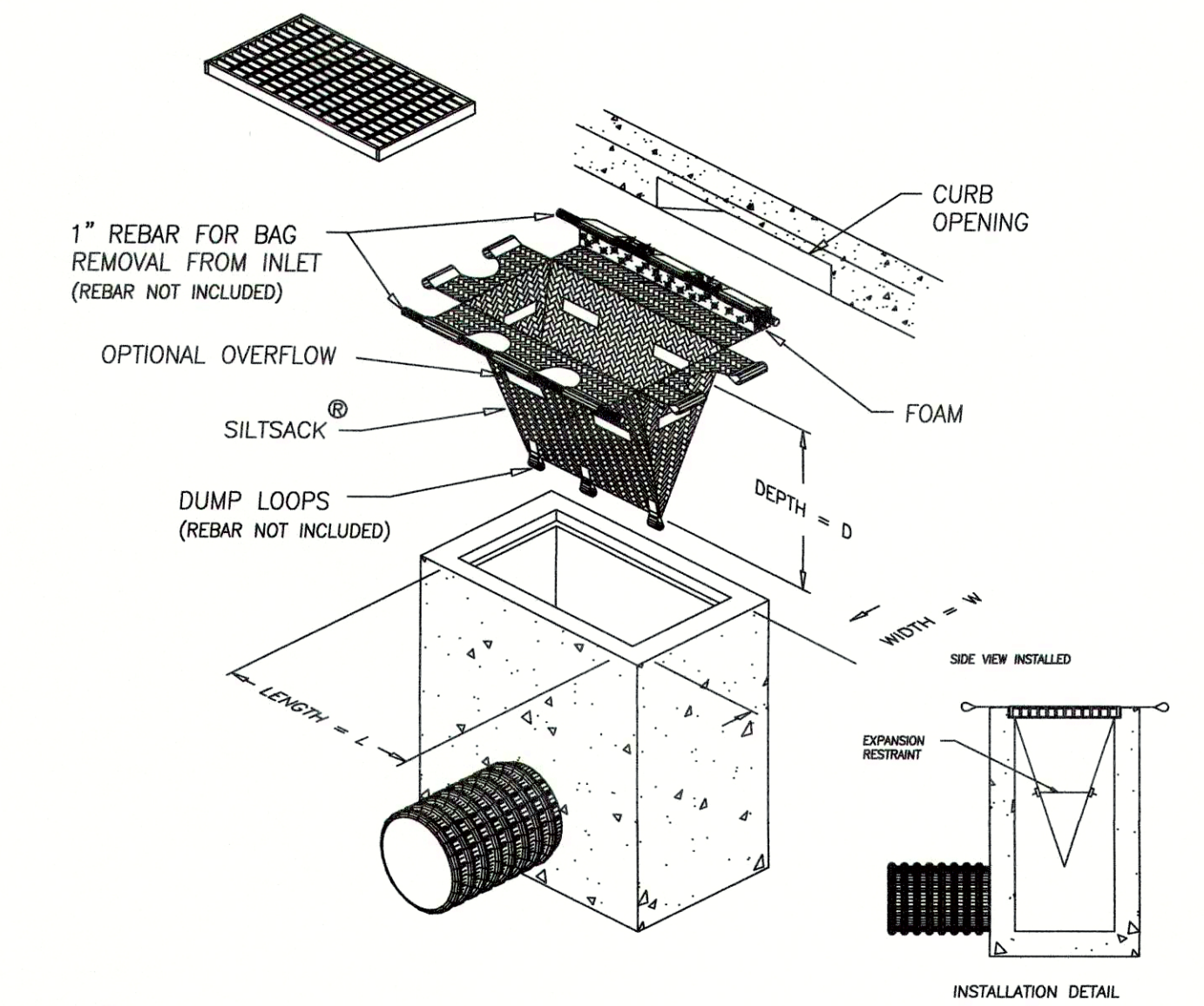
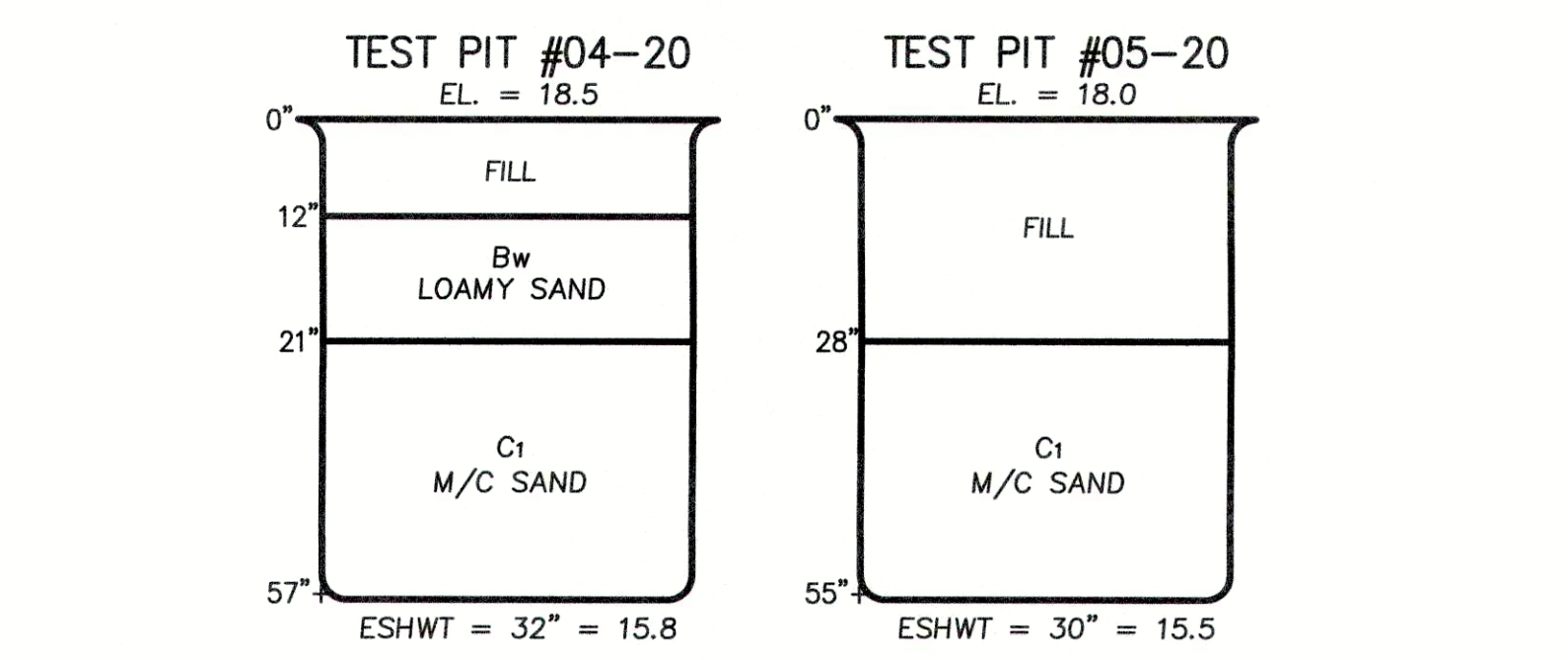
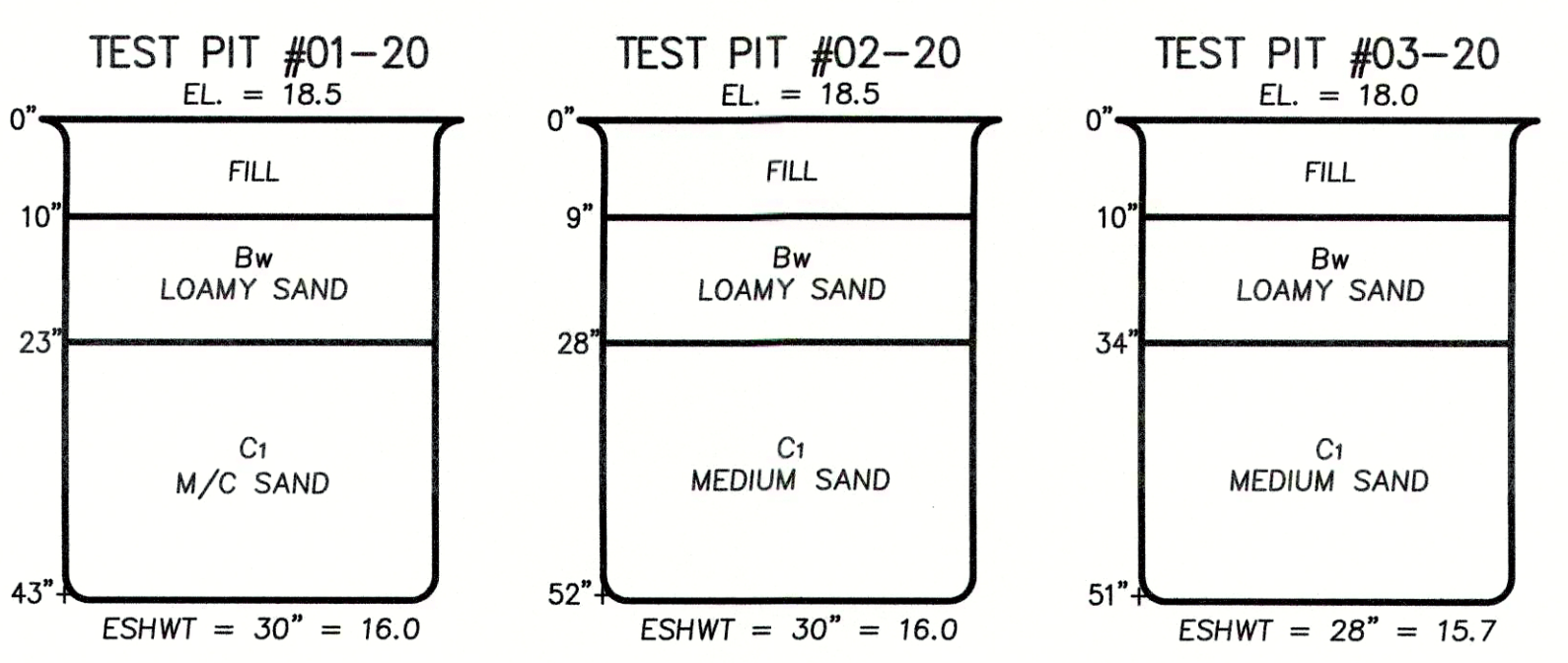
CROSS-SECTION



SEDIMENT FOREBAY

DETAIL

N.T.S.



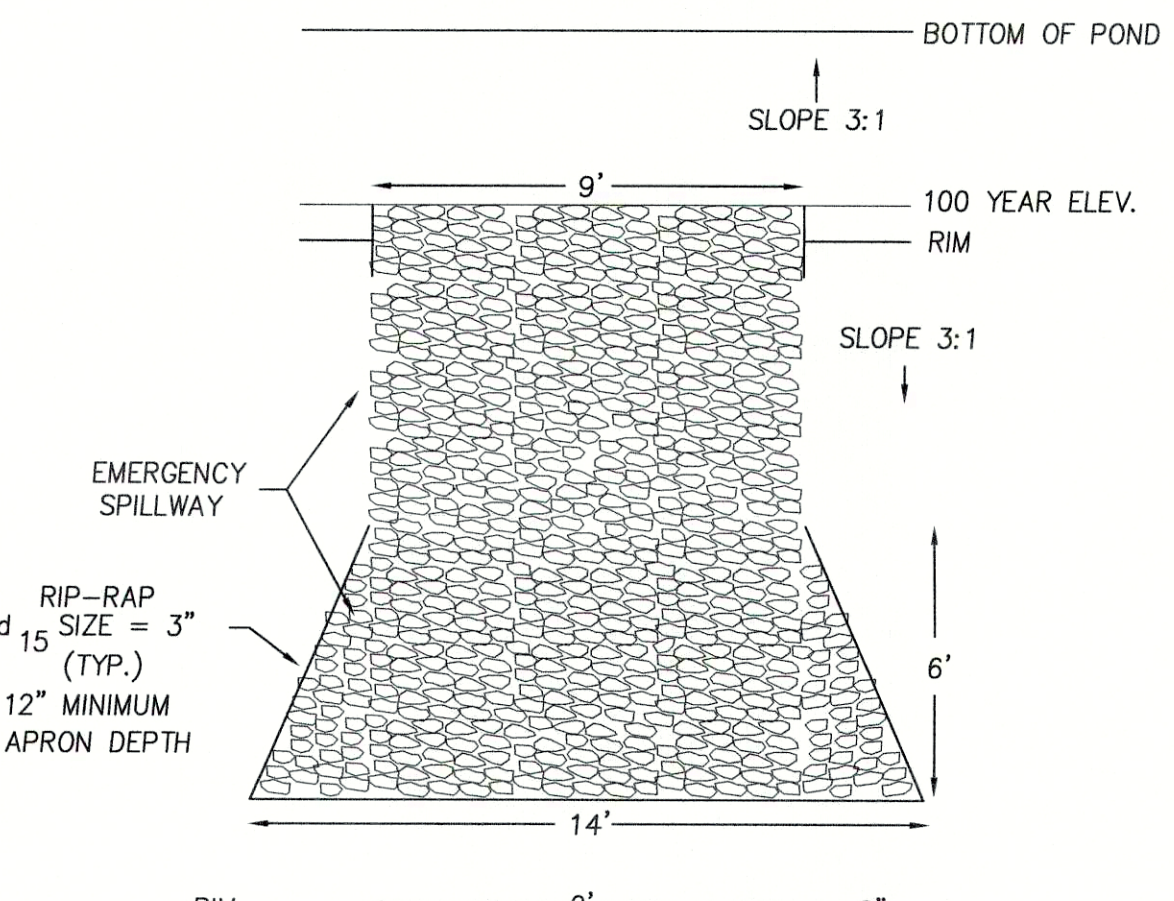
NOTES

- TO INSTALL SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
- WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED.
- TO REMOVE SILTSACK, TAKE TWO PIECES OF 1" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING OF SILTSACK.
- TO EMPTY SILTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SILTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.
- SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

SILT SACK

DETAIL

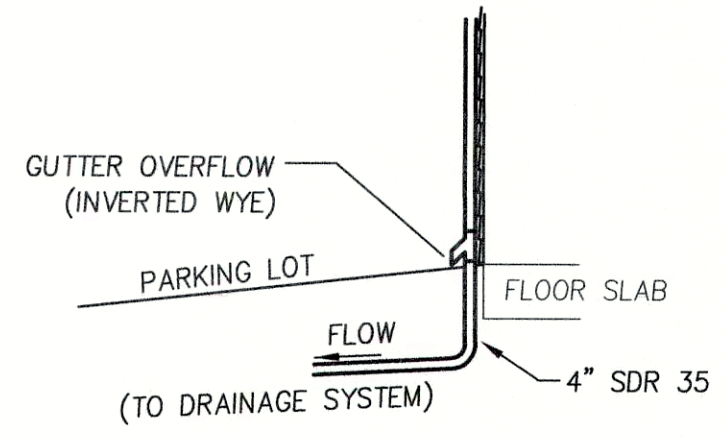
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TYPICAL SPILLWAY

PLAN VIEW

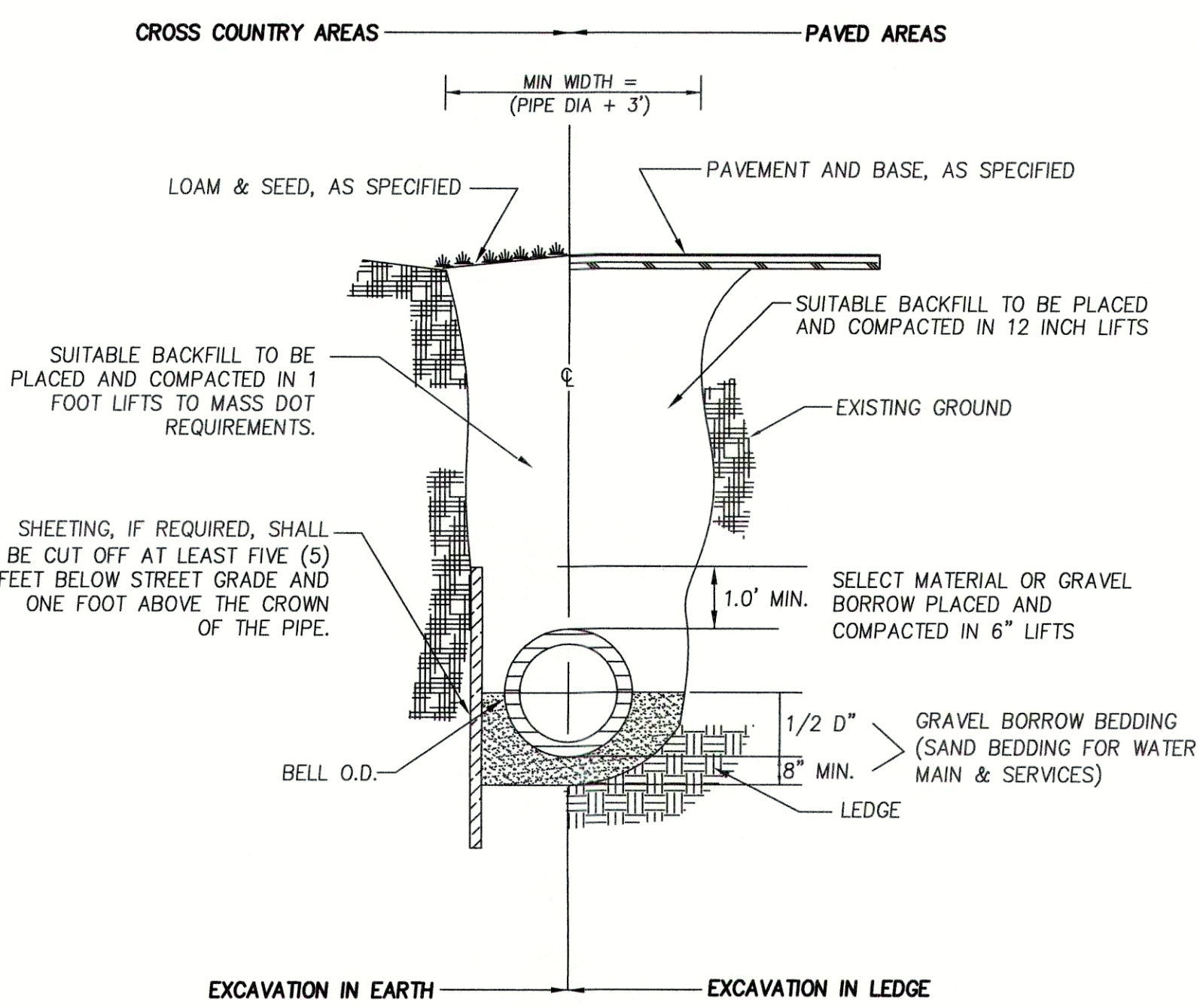
N.T.S.



GUTTER DOWN

SPOUT DETAIL

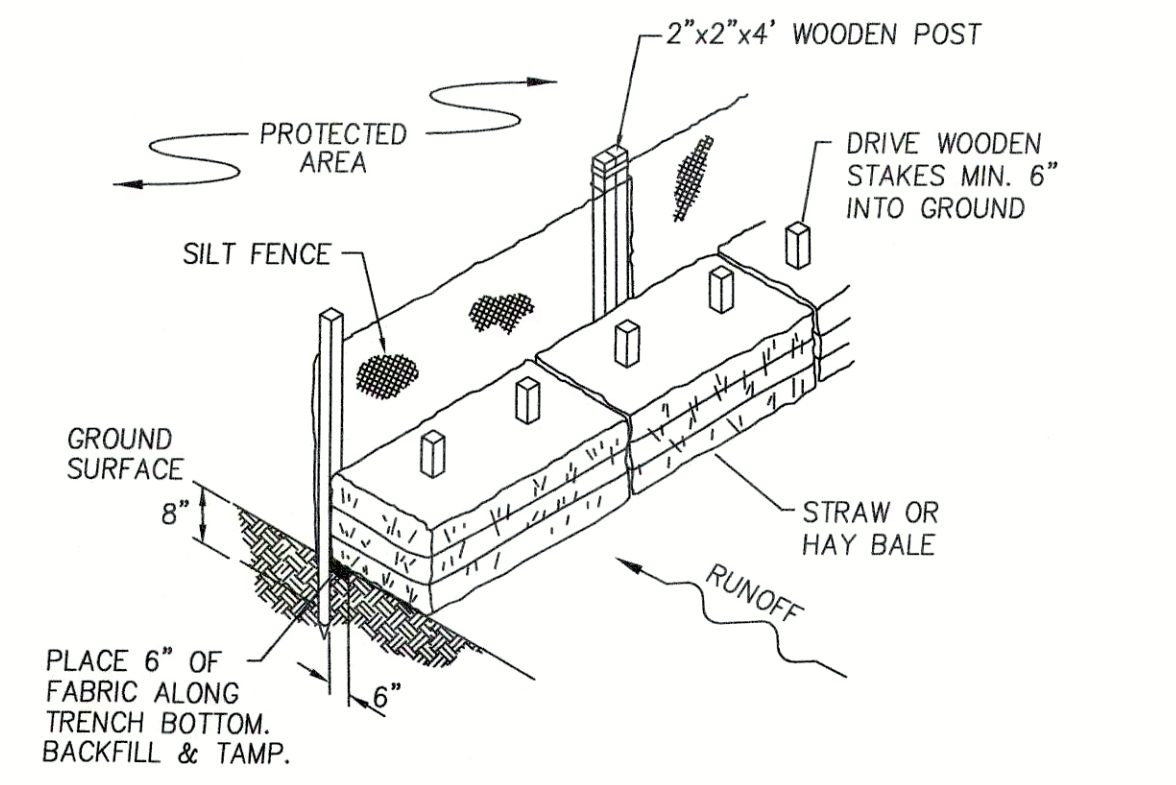
N.T.S.



TYPICAL TRENCH

DETAIL

N.T.S.



NOTES

- POSTS SHALL BE DOUBLED AND COUPLED AT FILTER CLOTH SEAMS.
- FILTER CLOTH TO BE FASTENED SECURELY TO SUPPORT NETTING WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

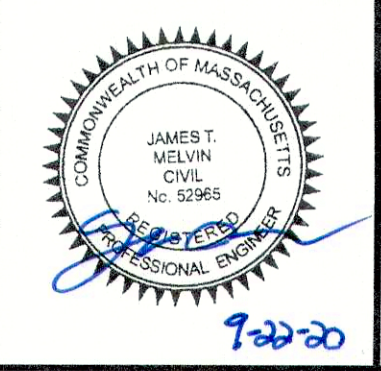
MAINTENANCE

- SILT FENCE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON THE SILT FENCE SHALL DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHALL BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SILT FENCE/

HAYBALE INSTALLATION

N.T.S.



PREPARED FOR
BAVARO FAMILY REALTY TWO, LLC
 18 GRAF ROAD UNIT #31
 NEWBURYPORT, MA



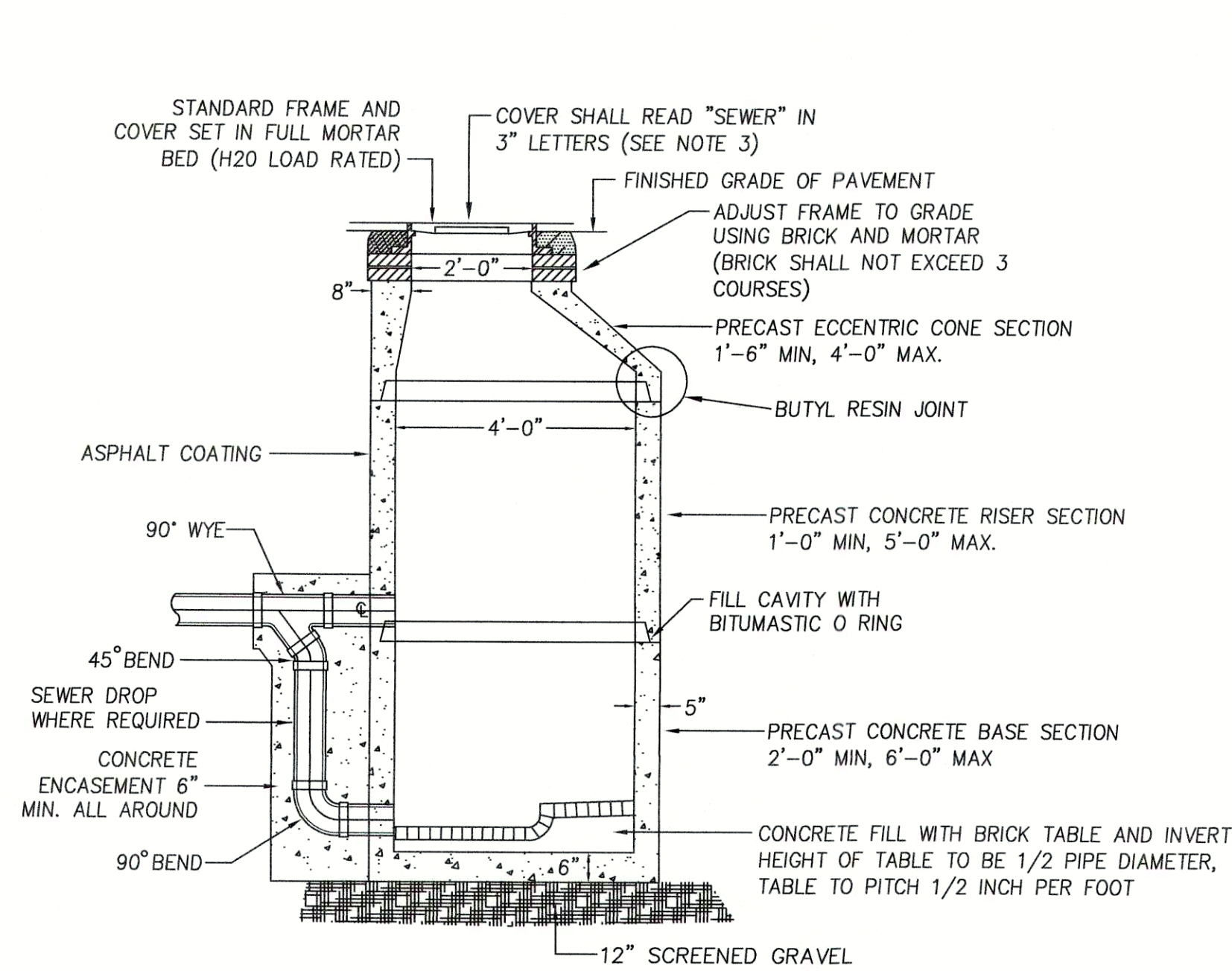
MILLENNIUM ENGINEERING, INC.
 ENGINEERING AND LAND SURVEYING
 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

PLAN OF LAND
 IN
NEWBURYPORT, MA

SHOWING
PROPOSED SITE IMPROVEMENTS
 AT
177 STATE STREET

CONSTRUCTION
DETAILS

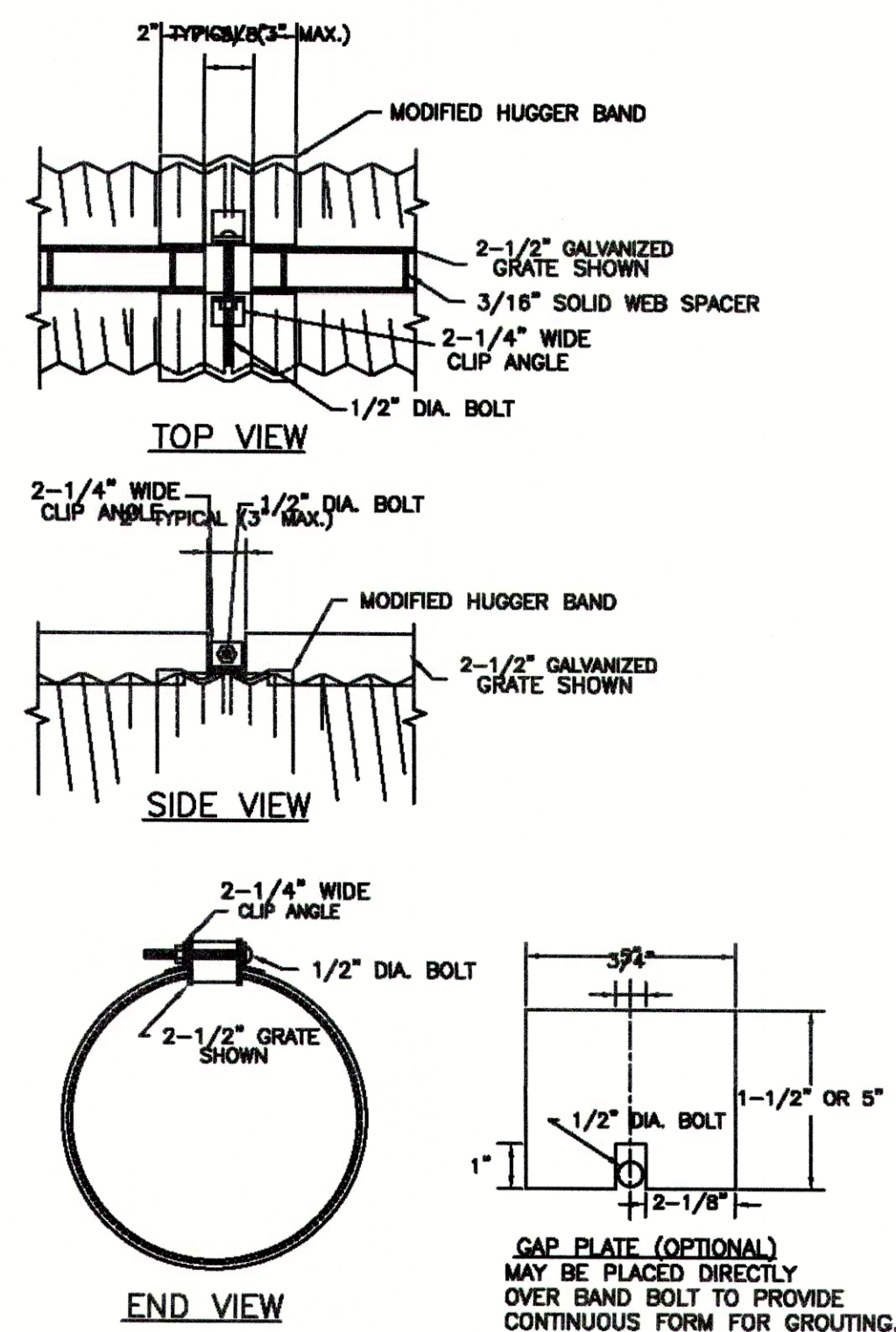
SHEET: 7 OF 8



NOTES: 1) SEWER MANHOLES SHALL CONFORM TO ASTM C478 AND ASTM C185
 2) COVER SHALL BE LEBARON FOUNDRY (MODEL NO. LA246), MECHANICS IRON FOUNDRY, NEEHAN FOUNDRY, OR EQUAL.

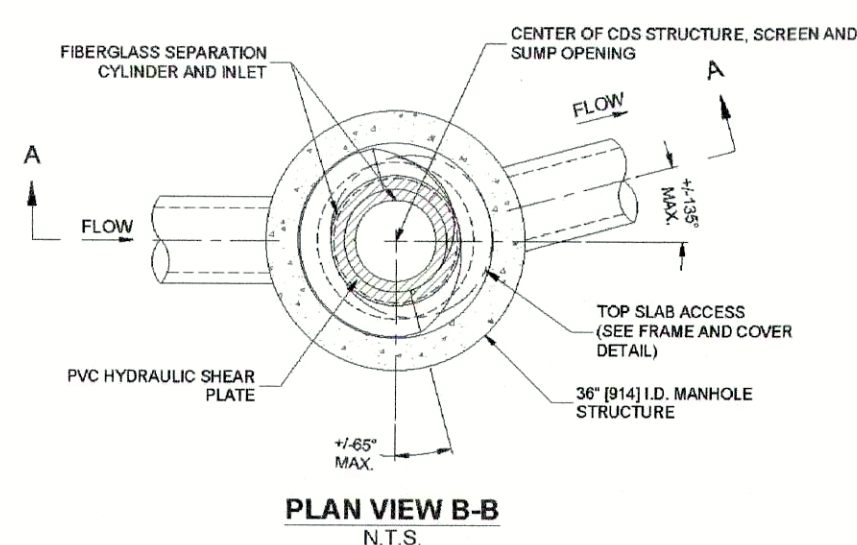
PRECAST SEWER MANHOLE DETAIL

N.T.S.

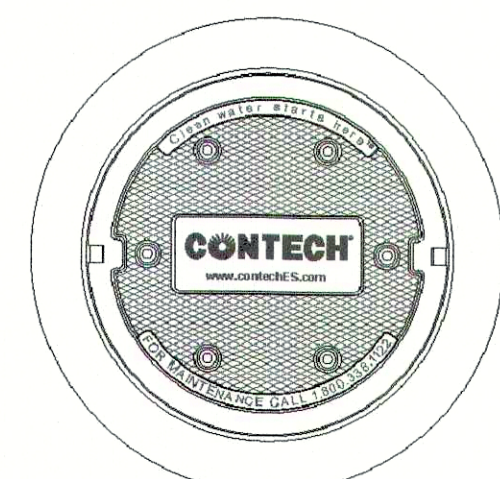


SLOTTED DRAIN DETAIL

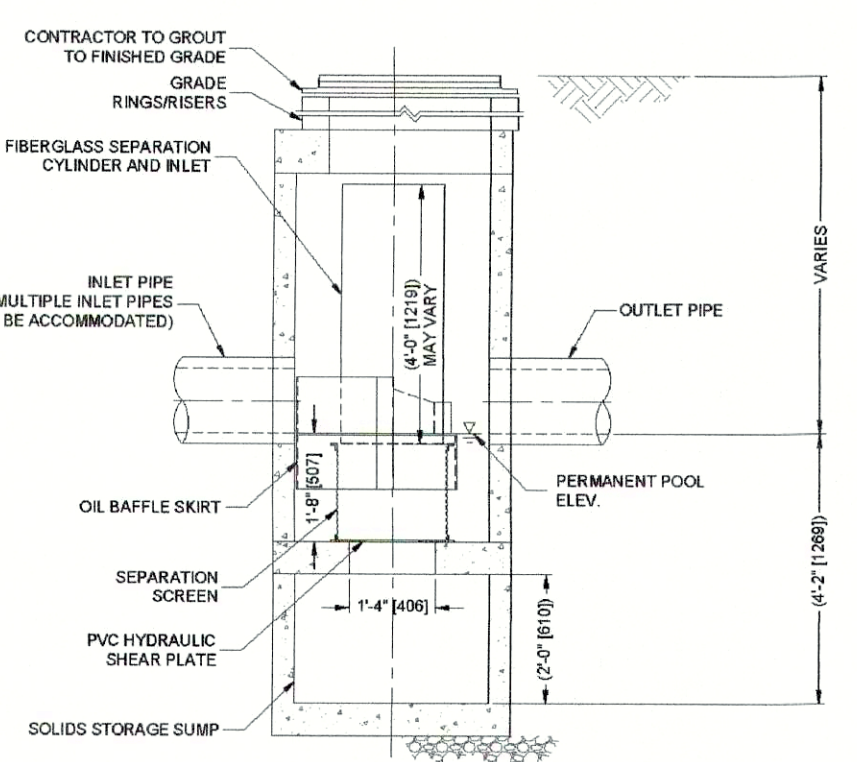
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PLAN VIEW B-B
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



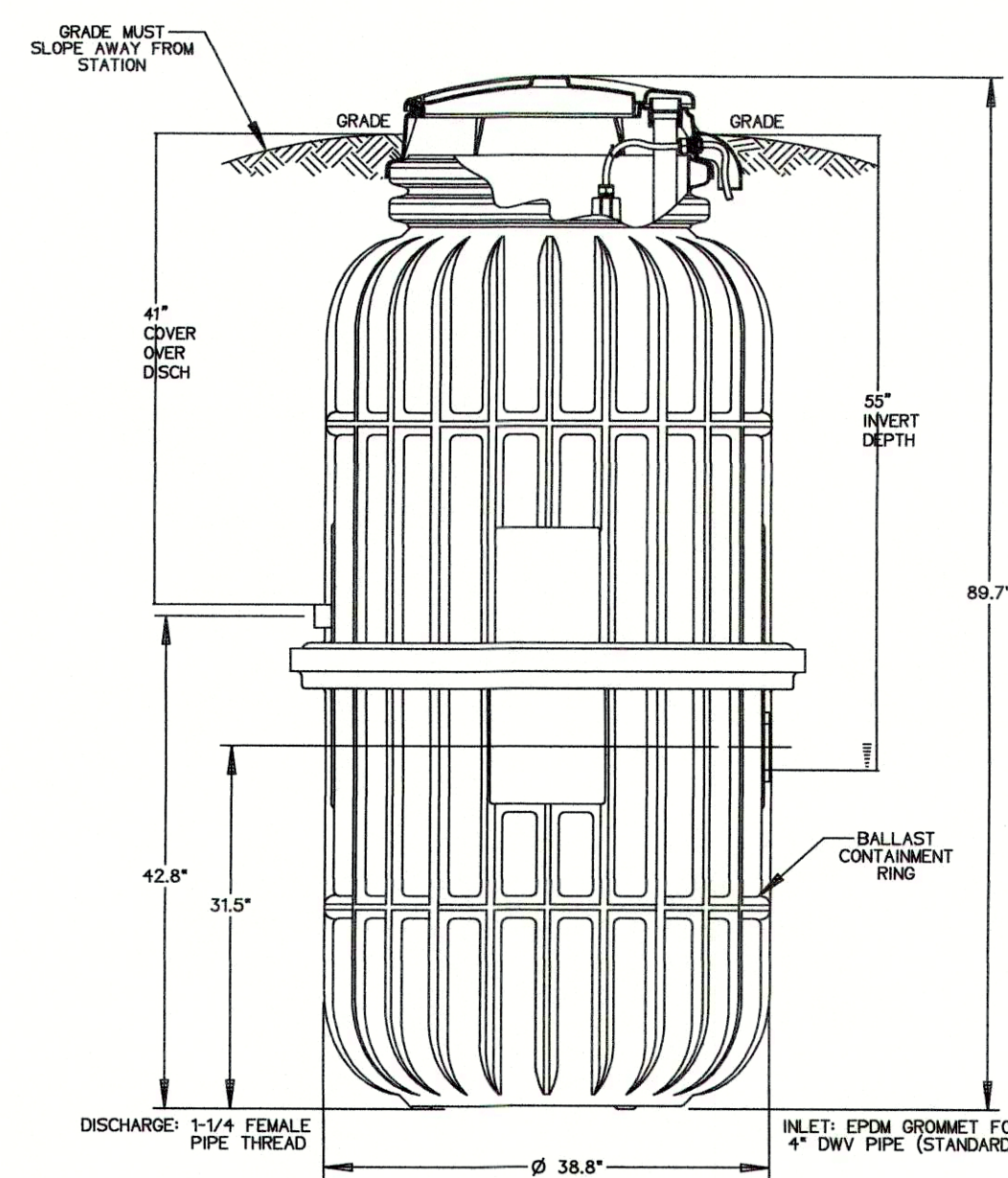
ELEVATION A-A
N.T.S.

GENERAL NOTES

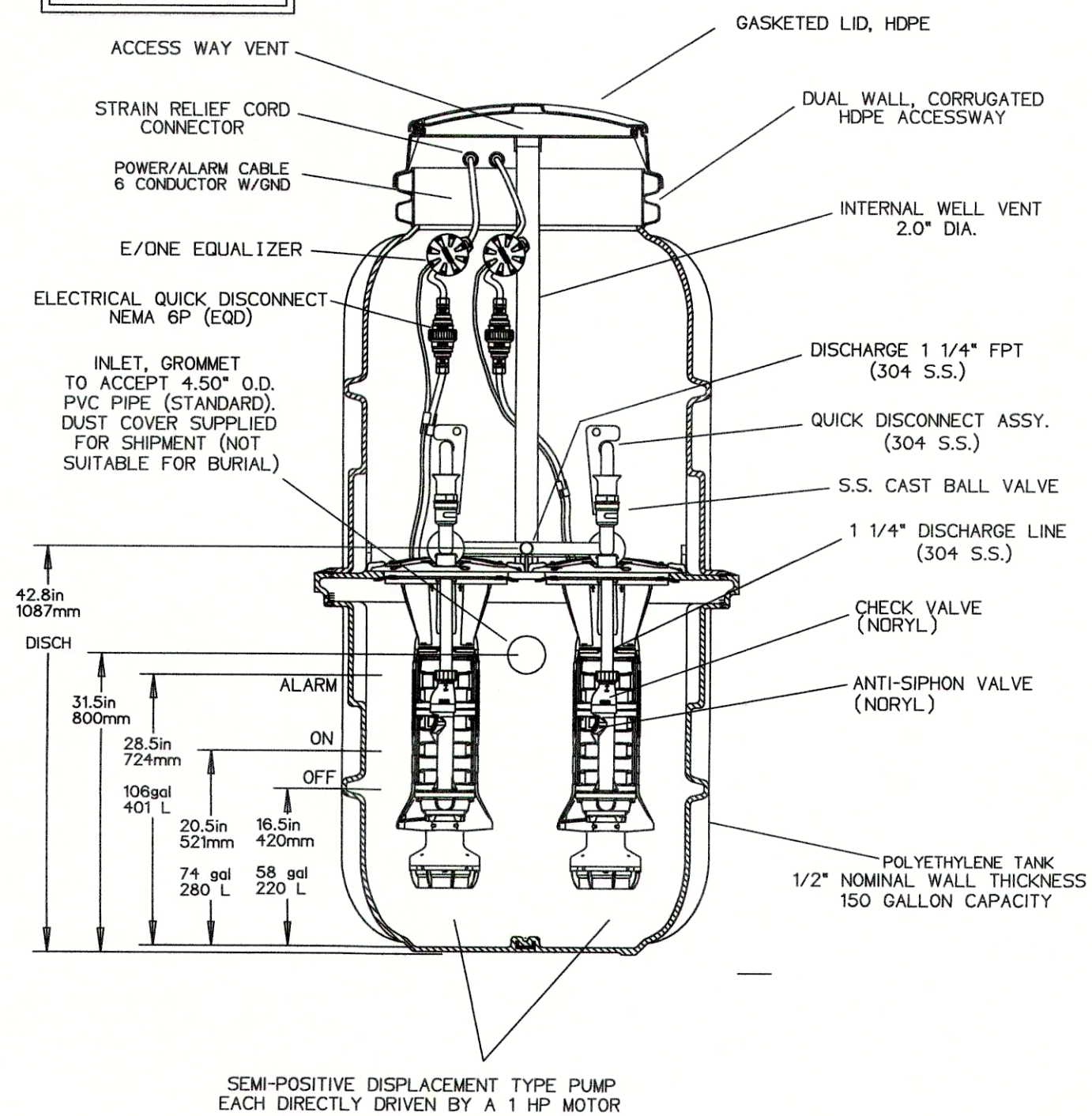
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M206 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



FIELD JOINT REQUIRED FOR MODELS DH152-129 / DR152-129 & DH152-160 / DR152-160



E-ONE SEWER PUMP MODEL DH152 DETAIL

N.T.S.



PREPARED FOR
BAVARO FAMILY REALTY TWO, LLC
 18 GRAF ROAD UNIT #31
 NEWBURYPORT, MA



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SITE PLAN
 IN
NEWBURYPORT, MA
 SHOWING
PROPOSED SITE IMPROVEMENTS
 AT
177 STATE STREET

CONSTRUCTION DETAILS

SHEET: 8 OF 8

SCALE: 1"=20'
 DATE: SEP. 22, 2020
 DESG. BY: J.T.M.
 CHKD. BY: E.W.B.
 PROJECT: M193668

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| | | | |