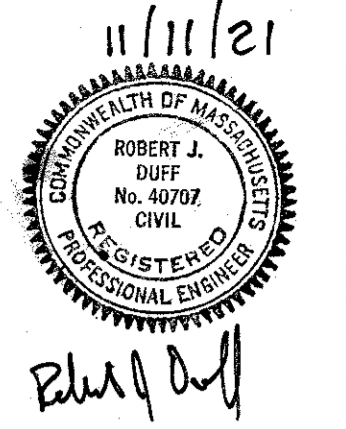
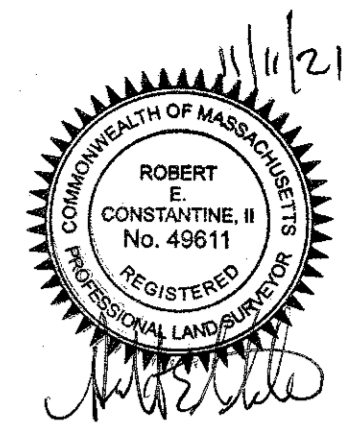


# TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN, MASSACHUSETTS



F4478

APPROVED DATE: \_\_\_\_\_  
FRANKLIN PLANNING BOARD  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
BEING A MAJORITY

**LEGAL NOTES**

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. PRIOR TO EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE(7233).

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

**OWNER**

TAJ ESTATES OF FRANKLIN II, LLC  
95 EAST MAIN STREET, SUITE 100  
WESTBOROUGH, MA. 01581  
  
DEED BOOK 40009 PAGE 445  
ASSESSORS MAP 285 LOT 069

**OWNER/APPLICANT**

MOHIUDDIN AHMED  
95 MAIN STREET, SUITE 100  
WESTBOROUGH, MA. 01581

**TAJ ESTATES OF FRANKLIN II  
SITE PLAN & SPECIAL PERMIT  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS**

**COVER SHEET**

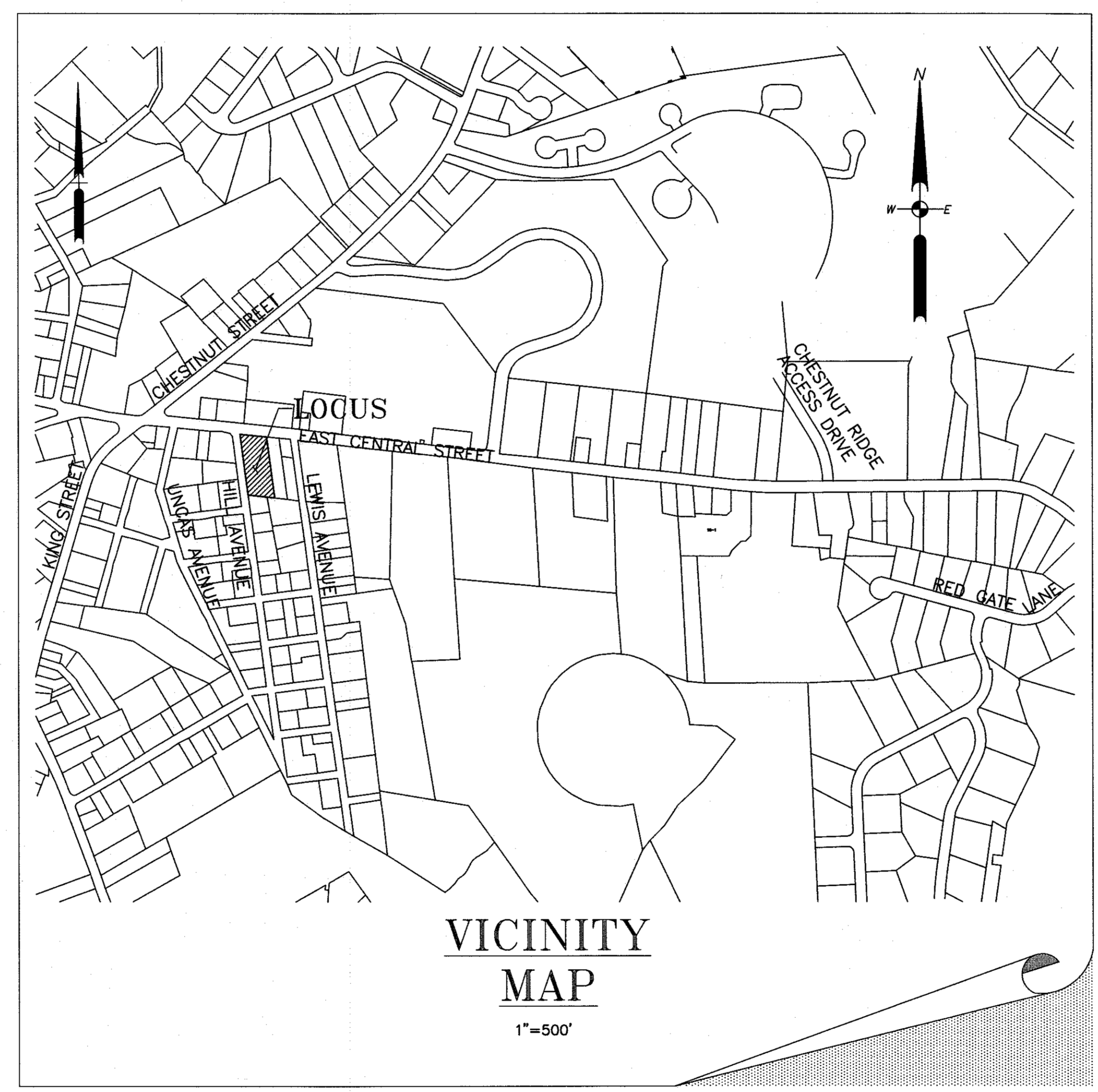
**NOVEMBER 11, 2021**

DATE	REVISION DESCRIPTION

**Guerriere & Halon, Inc.**  
ENGINEERING & LAND SURVEYING  
55 WEST CENTRAL ST. PH. (508) 528-3221  
FRANKLIN, MA 02038 FX. (508) 528-7921  
www.gondengineering.com

**INDEX**

1. COVER SHEET
2. EXISTING CONDITIONS PLAN
3. DEMOLITION & EROSION CONTROL PLAN
4. SITE PLAN
5. GRADING PLAN
6. UTILITY PLAN
7. LANDSCAPING PLAN
8. PHOTOMETRIC PLAN
9. CONSTRUCTION DETAILS
10. CONSTRUCTION DETAILS
11. CONSTRUCTION DETAILS
12. CONSTRUCTION DETAILS



**WAIVER REQUEST**

1. REQUEST A WAIVER FROM SECTION 185-21B(2)(e) TO ALLOW ONE PARKING SPACE PER RESIDENTIAL UNIT WHERE 1.5 SPACES ARE REQUIRED.
2. SITE PLAN AND SPECIAL PERMIT APPROVAL TO CONSTRUCT A MULTIFAMILY BUILDING WITH IN THE COMMERCIAL I ZONING DISTRICT.

**NOTES**

1. THIS LAND IS ZONED COMMERCIAL I.
2. THIS SITE IS NOT LOCATED FLOOD HAZARD ZONE PER FEMA FLOOD MAP 25021C0309E, EFFECTIVE DATE 7/17/2012.
3. NO WETLANDS HAVE BEEN IDENTIFIED.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY.
5. REFER TO FRANKLIN ASSESSORS MAP 285 PARCELS 69.
6. THIS SITE IS LOCATED IN A WATER RESOURCE DISTRICT.
7. ALL REFERENCED DEEDS ARE ON RECORD AT THE NORFOLK COUNTY REGISTRY OF DEEDS.
8. THIS SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM AREA.

**LEGEND**

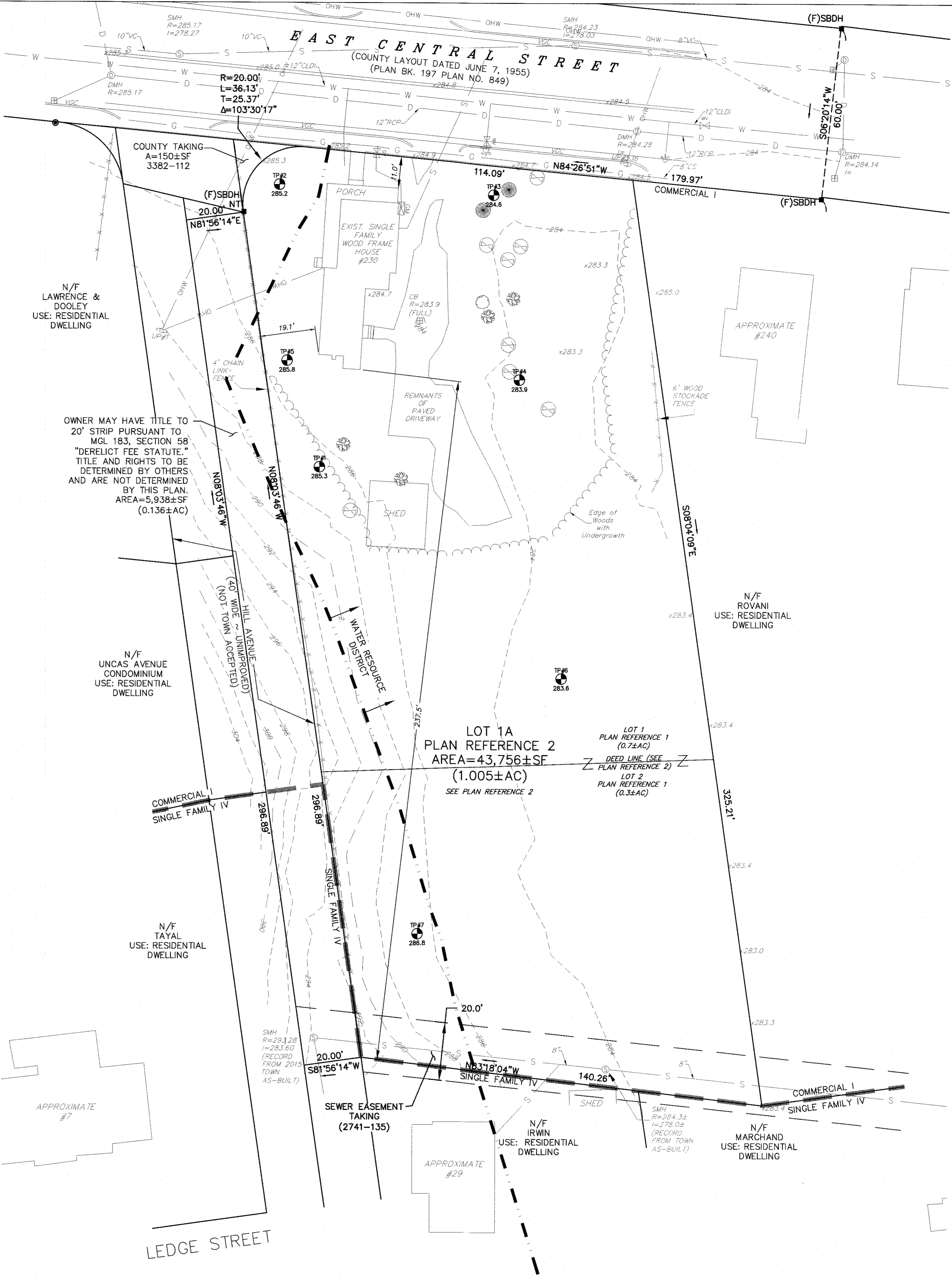
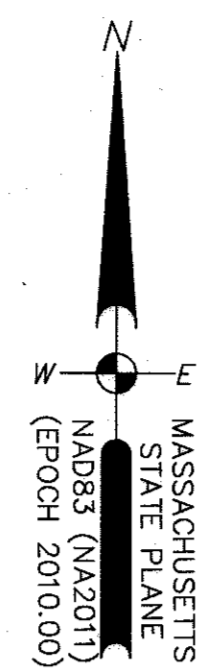
COMMERCIAL I <sup>7</sup>	
FRANKLIN ZONING BYLAW SECTION 185 ATTACHMENT 9; LAST AMENDED 03-13-2019 BY AMENDMENT 19-831	
MINIMUM LOT AREA	5,000 SF
MINIMUM LOT FRONTAGE	50'
MINIMUM LOT DEPTH	50'
MINIMUM LOT WIDTH	45'
BLDG HEIGHT	3 STORIES/40' <sup>15</sup>
MINIMUM YARDS	
FRONT	20' <sup>1</sup>
SIDE	10' <sup>14</sup>
REAR	15'
% OF LOT UPLAND COVERED BY:	
STRUCTURES	80
STRUCTURES+PAVING	90**
<sup>1</sup> BUT NO NEW STRUCTURES SHALL BE REQUIRED TO PROVIDE A DEEPER YARD THAN THAT EXISTING ON THAT PARCEL UPON ADOPTION OF THIS AMENDMENT.	
<sup>7</sup> PERMITTED RESIDENTIAL USES MUST OBSERVE REQUIREMENTS OF THE GENERAL RESIDENTIAL V DISTRICT FOR RESIDENTIAL USE BUILDINGS ONLY. MIXED USE BUILDINGS ARE EXEMPT FROM THIS REQUIREMENT.	
<sup>14</sup> THE 10 FT SIDE SETBACK IS ONLY REQUIRED ON ONE SIDE OF LOT; IF LOT ABUTS A RESIDENTIAL DISTRICT A 20 FT SETBACK IS REQUIRED ON THE ADJUTING SIDE.	
<sup>15</sup> BUILDINGS UP TO 50 FEET IN HEIGHT, REGARDLESS OF THE NUMBER OF STORIES, MAY BE PERMITTED BY SPECIAL PERMIT FROM THE PLANNING BOARD.	
**NON-RESIDENTIAL IMPERVIOUS COVERAGE SHALL NOT EXCEED 80% IN A WATER RESOURCE DISTRICT	

**PLAN REFERENCES:**

1. PLAN NO. 393-1997, PL. BK. 448
2. SEE ANR PLAN ENTITLED "PLAN OF LAND 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS," DATED APRIL 30, 2018, PREPARED BY GUERRIERE & HALNON, INC. PLANNING BOARD ENDORSED MAY 7, 2018 ON WHICH THE INTERIOR DEED LINE IS DEPICTED AS "TO BE REMOVED."

DEEP TESTS TAKEN 11/14/17 BY DN PERC. TESTS TAKEN 11/14/17 BY DN  
 SOIL EVALUATOR DON NIELSEN SOIL EVALUATOR DON NIELSEN

285.3 DTH#1	285.2 DTH#2	284.6 DTH#3	283.9 DTH#4	285.5 DTH#5	283.6 DTH#6	286.8 DTH#7
Ap L 0"-12"	Ap L 0"-24"	Ap L 0"-18"	Ap L 0"-18"	Ap L 0"-10"	Ap L 0"-12"	Ap L 0"-12"
Bw L.S. 7.5Y5/4	Bw L.S. 7.5Y5/4	Bw L.S. 18"-32"	Bw L.S. 18"-30"	Bw L.S. 10"-32"	Bw L.S. 12"-24"	Bw L.S. 12"-24"
C1 M.S. 10YR5/6	C1 F.S. 10YR5/6	C1 S.L. 32"-84"	C1 S.L. 30"-42"	C1 L.S. 32"-48"	C1 L.S. 24"-48"	C1 L.S. 32"-42"
C2 M.S. 10YR4/4	C2 M.S. 10YR5/3	C2 M.F.S. 10YR5/3	C2 F.S. 10YR5/6	C2 F./M.S. 10YR5/6	C2 F./M.S. 10YR5/6	C2 F./M.S. 10YR5/6
NO G.W. NO MOTTLES	NO G.W. NO MOTTLES	NO G.W. MOTTLES 32"-54"	C3 M./C.S. 10YR5/3 SOME STONES	C3 M.S. 10YR5/3 SOME STONES	C3 M.S. 10YR5/3 SOME STONES	C3 M.S. 10YR5/3 SOME STONES
277.3	272.2	272.6	278.9	280.8	273.6	279.8



**F4478**

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APPROVED DATE: \_\_\_\_\_  
 FRANKLIN PLANNING BOARD

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BEING A MAJORITY

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 95 EAST MAIN STREET, SUITE 100  
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DEED BOOK 40009 PAGE 445  
 ASSESSORS MAP 285 LOT 069

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**TAJ ESTATES OF FRANKLIN II  
 SITE PLAN & SPECIAL PERMIT  
 230 EAST CENTRAL STREET  
 FRANKLIN MASSACHUSETTS**

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**EXISTING CONDITIONS**

**NOVEMBER 11, 2021**

DATE	REVISION DESCRIPTION

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GRAPHIC SCALE: 1"=20'

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SHEET **2 OF 12** JOB NO. **F4478**

G:\CDP\Franklin\F4478 (F4478) DWG\F4478 SITE.dwg, 11/11/2021, 1:00:34 PM, [P7]

**GENERAL EROSION CONTROL AND CONSTRUCTION NOTES**

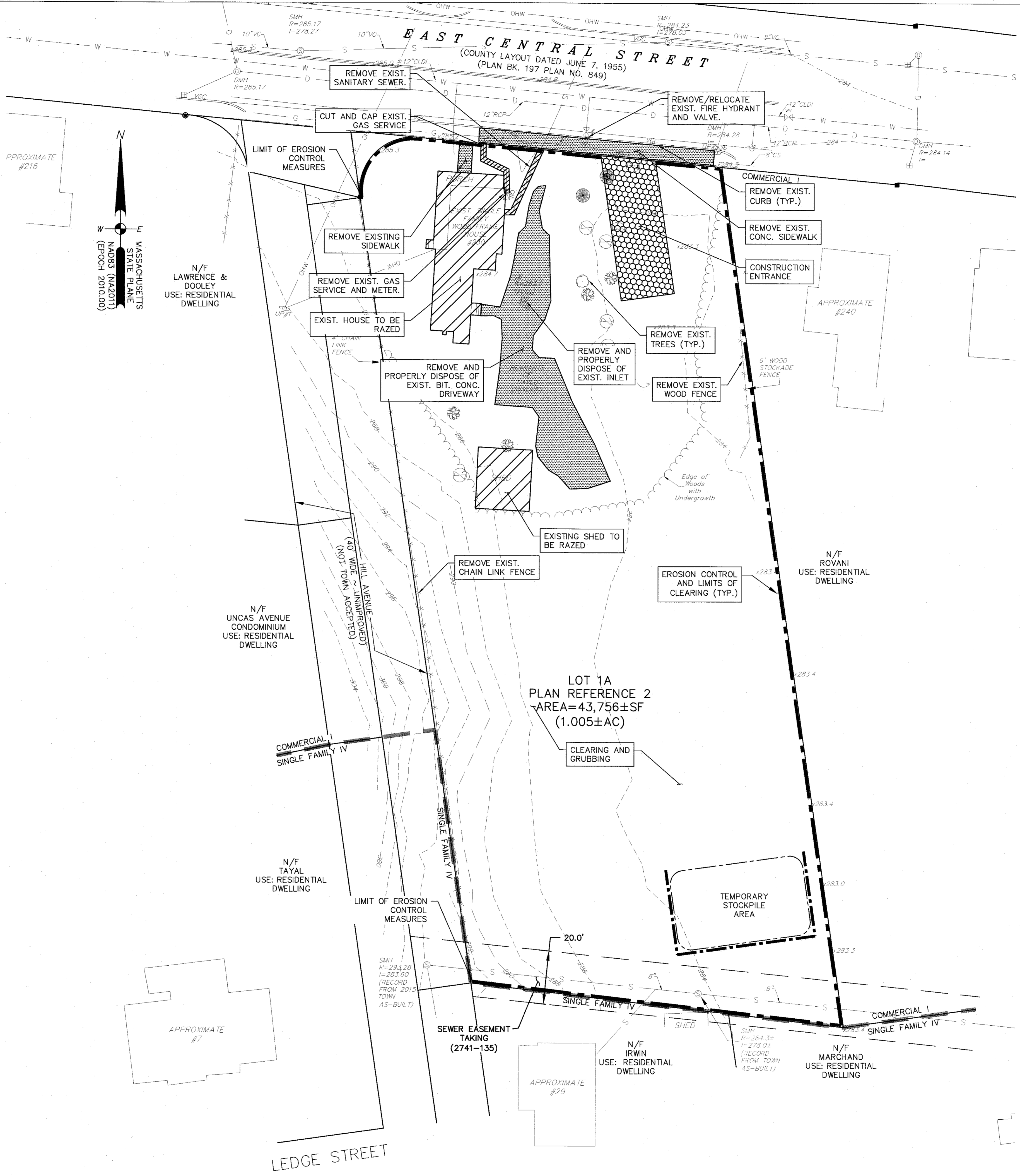
- THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
- INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL EVENT.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION.
- CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION AND SEDIMENT CONTROLS FOUND TO BE FAULTY.
- ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE BASINS SHALL BE REMOVED WEEKLY.
- THE CONTRACTOR SHALL IMPLEMENT ALL REASONABLE EROSION AND SEDIMENT CONTROLS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION ACTIVITIES INCLUDING THE CLEARING AND/OR GRUBBING OF ANY PORTION OF THE PROPERTY. THESE MEASURES SHALL BE MAINTAINED IN EFFECT THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, OR UNTIL THE SITE HAS BECOME STABILIZED WITH AN ADEQUATE VEGETATIVE COVER.
- SEDIMENT BUILD UP BEHIND FILTERMITS SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR INCHES IN DEPTH.
- CATCH BASINS SHALL BE PROTECTED WITH SILT FILTERS (SILT SACKS). INSPECT SEDIMENT FILTERS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER RAINFALL THAT PRODUCES RUNOFF. CLEAN OR REPLACE FILTERS WITHIN 24 HOURS OF INSPECTION WHEN SEDIMENT REACHES ONE HALF OF THE FILTER SACK DEPTH. CATCH BASINS SHALL BE PROTECTED BY SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS SHALL BE CLEANED WHENEVER SEDIMENT HAS ACCUMULATED TO A DEPTH OF 24 INCHES AND IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
- THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE SILT FENCE, MULCH SOCK, STONE FILTER DIKES OR ANY OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
- THE CONTRACTOR IS TO INSPECT ALL CONTROLS NO LESS THAN WEEKLY, AND IN ANTICIPATION OF RAINFALL EVENTS EXPECTED TO EXCEED 1/2 INCH IN DEPTH. ALL DEFICIENCIES NOTED DURING SAID INSPECTION SHALL BE REPAIRED IMMEDIATELY AND IN NO CASE SHALL A DEFICIENCY BE ALLOWED TO GO UNCORRECTED DURING A RAINFALL EVENT. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED, REINFORCED, OR REPLACED IF NECESSARY. ALL ACCUMULATED SEDIMENTS AND OTHER MATERIALS COLLECTED SHALL BE DISPOSED OF.
- BY THE SEDIMENTATION CONTROL SYSTEMS SHALL BE REMOVED AS NECESSARY TO INSURE PROPER FUNCTION OF SYSTEMS AND DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH THE INTENT OF THIS PLAN.
- TEMPORARY EARTH OR STONE DIKES, DRAINAGE SWALES AND/OR TEMPORARY SLOPE DRAINS SHALL BE INSTALLED WHERE OFF-SITE OR ON-SITE RUNOFF IS SUFFICIENT ENOUGH SUCH THAT IT WILL BE NECESSARY TO DIVERT THE FLOW AROUND THE SITE OR PREVENT EROSION WITHIN THE LIMITS OF WORK.
- STORM DRAIN INLET PROTECTION SHALL BE USED FOR ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT AREA. PRIOR TO COMPLETION OF THE PROJECT, ALL CATCH BASINS WITHIN THE PROJECT AREA SHALL BE CLEANED.
- ALL DISTURBED EARTH SLOPES AREA TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER, TO BE ESTABLISHED AS SOON AS POSSIBLE. DISTURBED AREAS THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. TEMPORARY VEGETATIVE COVER IS TO BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REQUIRE ADDITIONAL DISTURBANCE FOR PERIOD OF 30 DAYS OR MORE. IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
- THERE SHALL BE NO DIRECT DISCHARGE OF DEWATERING OPERATIONS INTO ANY DRAINAGE SYSTEM UNLESS THIS DISCHARGE IS CLEAN AND FREE OF SETTLEABLE SOLIDS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL DEVICE (FILTER BAG) TO REMOVE THESE SOLIDS. THE CONTRACTOR IS TO MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE DEWATERING OPERATION AND REPAIR DEFICIENCIES IMMEDIATELY.
- ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
- ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
- EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED.

**INTERIM EROSION CONTROL AND CONSTRUCTION SEQUENCE**

- INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER INSPECT.
- TEMPORARY STONE (3/4" - 1 1/2") SHALL BE PLACED AT THE PROJECT ENTRANCE WHEN ACCESSING EXISTING PAVEMENT. SWEEPING IS REQUIRED IF FINES ARE OBSERVED IN THE PUBLIC WAYS.
- RAZE THE EXISTING BUILDINGS, PAVEMENT, WALKWAYS, ETC
- CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED.
- STOCKPILE LOAM, OR REMOVE LOAM.
- INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DRAINAGE SYSTEM.
- BRING SITE TO SUB-GRADE.
- ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY, IF DISTURBED.
- ALL DISTURBED AREAS NOT TREATED WITH PERMANENT LOAM AND SEED SHALL BE COVERED WITH MULCH, OR OTHER EROSION CONTROL DEVICE.
- ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED TO FLOW INTO THE TEMPORARY BASIN, WHERE POSSIBLE.
- THE SITE MITIGATION OF EROSION IN THOSE AREAS TO BE LANDSCAPED OR MULCHED SHALL BE TO INSTALL AS SOON AS POSSIBLE.
- THE SUBSURFACE DRAINAGE SYSTEM SHALL BE INSTALLED PRIOR TO PAVEMENT INSTALLATION PROPER FILTER FABRIC SHALL BE PLACED AT INLETS TO KEEP THE STORM DRAINAGE CLEAN OF DEBRIS.
- ONCE THE CURB IS INSTALLED, THE PERMANENT MULCH AND LANDSCAPING SHALL BE INSTALLED.
- SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.
- CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING, TEMPORARY BASIN, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
- KEEP SITE SWEEPED AND MAINTAINED PER STORMWATER MANAGEMENT PLAN.

**LEGEND**

⊠	CATCH BASIN	☆	LIGHT POLE
⊙	DRAIN MANHOLE	⊕	UTILITY POLE
⊖	ELECTRIC MANHOLE	•	GUY WIRE
⊗	SEWER MANHOLE	—	SIGN
○	MANHOLE	•	WETFLAG
⊕	GAS VALVE	⊕	UTILITY POLE
⊗	GAS METER	☆	PROP. STREET LIGHTING
⊕	GAS SHUT OFF VALVE	X 000.0	SPOT ELEVATION
⊕	WATER VALVE	▨	RIPRAP
⊕	WATER SHUT OFF VALVE		
⊕	FIRE HYDRANT		
— 000 —	EXISTING CONTOUR		
— D —	EXISTING DRAIN LINE		
— W —	EXISTING WATER LINE		
— G —	EXISTING GAS LINE		
— S —	EXISTING SEWER LINE		



F4478

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APPROVED DATE: \_\_\_\_\_

FRANKLIN PLANNING BOARD

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BEING A MAJORITY

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95 EAST MAIN STREET, SUITE 100  
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DEED BOOK 40009 PAGE 445  
ASSESSOR'S MAP 285 LOT 069

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**TAJ ESTATES OF FRANKLIN II  
SITE PLAN & SPECIAL PERMIT  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS**

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**DEMOLITION & EROSION  
CONTROL PLAN**

**NOVEMBER 11, 2021**

DATE	REVISION DESCRIPTION

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GRAPHIC SCALE: 1"=20'

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55 WEST CENTRAL ST. FRANKLIN, MA 02038  
PH. (508) 528-3221  
FX. (508) 528-7921  
www.gandhengineering.com

SHEET **3 OF 12**      JOB NO. **F4478**

NOTES:

1. ALL SIGNAGE AND STRIPING TO CONFORM TO 'THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES'.
2. THE FIRE PROTECTION ENGINEER WILL PROVIDE PLANS AND CALCULATIONS FOR FIRE PROTECTION SYSTEM.
3. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
4. THE OWNER/APPLICANT SHALL LIMIT CONSTRUCTION DEBRIS AND MATERIALS ON THE SITE. IN THE EVENT THAT DEBRIS IS CARRIED OUT ONTO THE PUBLIC WAY, THE OWNER/APPLICANT SHALL BE RESPONSIBLE FOR ALL CLEANUP OF THE ROADWAY.

**ZONING DISTRICT  
COMMERCIAL I**

	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	5,000 SF	43,756±SF (1.005±AC)	43,756±SF (1.005±AC)
MIN. LOT FRONTAGE	50 FT	114.09 FT	114.09 FT
MIN. LOT DEPTH	50 FT	323.31 FT	323.31 FT
MIN. LOT WIDTH	45 FT	135.60 FT	135.60 FT
BLDG HEIGHT	3 STORIES/40 FT <sup>15</sup>	2 STY	3 STY.
MAX. % OF LOT UPLAND COVERED BY: STRUCTURES	80	1,742±SF (3.5%)	14,212±SF (32.5%)
STRUCTURES & PAVING	90**	3,930±SF (7.9%)	34,766±SF (79.5%)

**MIN. YARD SETBACKS**

	20 FT <sup>1</sup>	11.0 FT	20.5 FT
FRONT	20 FT <sup>1</sup>	11.0 FT	20.5 FT
SIDE	10 FT <sup>14</sup>	19.1 FT	27.8/53.8 FT
REAR	15 FT	237.6 FT	85.9 FT

<sup>1</sup> BUT NO NEW STRUCTURES SHALL BE REQUIRED TO PROVIDE A DEEPER YARD THAN THAT EXISTING ON THAT PARCEL UPON ADOPTION OF THIS AMENDMENT.

<sup>7</sup> PERMITTED RESIDENTIAL USES MUST OBSERVE REQUIREMENTS OF THE GENERAL RESIDENTIAL V DISTRICT FOR RESIDENTIAL USE BUILDINGS ONLY. MIXED USE BUILDINGS ARE EXEMPT FROM THIS REQUIREMENT.

<sup>14</sup> THE 10 FT SIDE SETBACK IS ONLY REQUIRED ON ONE SIDE OF LOT; IF LOT ABUTS A RESIDENTIAL DISTRICT A 20 FT SETBACK IS REQUIRED ON THE ADJUTING SIDE.

<sup>15</sup> BUILDINGS UP TO 50 FEET IN HEIGHT, REGARDLESS OF THE NUMBER OF STORIES, MAY BE PERMITTED BY SPECIAL PERMIT FROM THE PLANNING BOARD.

\*\*NON-RESIDENTIAL IMPERVIOUS COVERAGE SHALL NOT EXCEED 80% IN A WATER RESOURCE DISTRICT

**COMMERCIAL I**

185 ATTACHMENT 7-(3) - NO MORE THAN ONE DWELLING UNIT PER 1,000 SF OF LOT AREA MAY BE PERMITTED.

43,756/1,000 SF (UNIT) = 43 UNITS

43 UNITS ALLOWED BY SPECIAL PERMIT  
PROPOSED 41 UNITS

DWELLING/UNIT = 1 BEDROOM

**PARKING REQUIREMENTS**

OFFICE PARKING ONE SPACE PER 500 SF.  
OFFICE SPACE FIRST FLOOR = 900± SF.  
2 PARKING SPACES REQUIRED

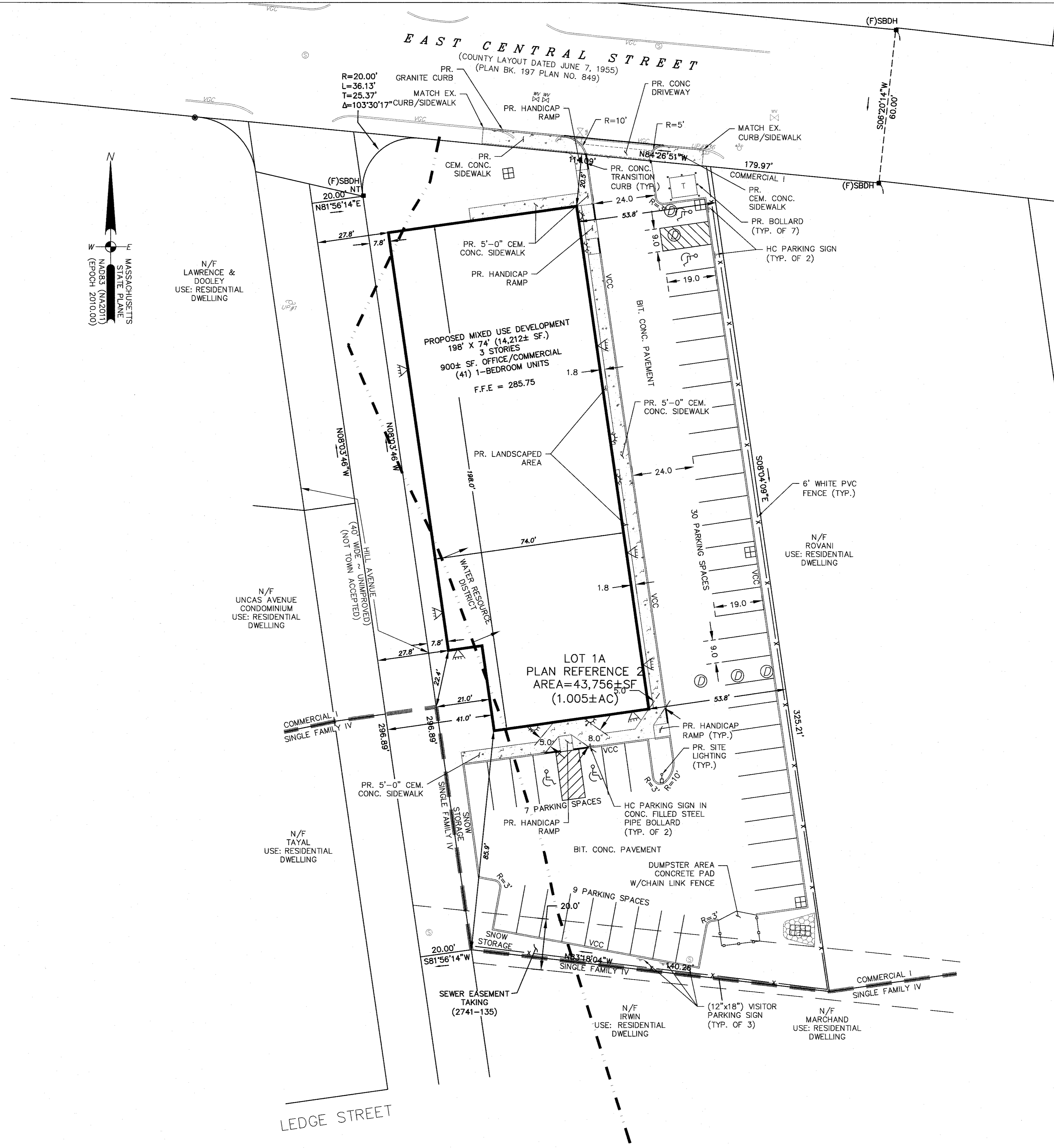
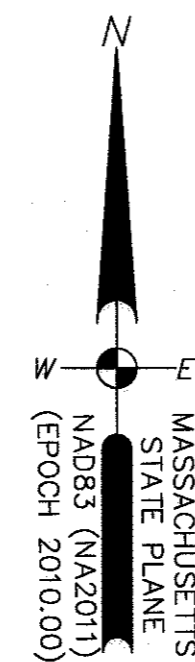
\*UNIT PARKING - 1 SPACE PER UNIT X 41 UNITS  
41 SPACES REQUIRED

TOTAL SPACES REQUIRED = 43  
TOTAL SPACES PROVIDED = 46

\*WAIVER REQUEST

**LEGEND**

⊠	CATCH BASIN	☆	LIGHT POLE
⊙	DRAIN MANHOLE	⊙	UTILITY POLE
⊕	ELECTRIC MANHOLE	•	GUY WIRE
⊗	SEWER MANHOLE	▽	SIGN
○	MANHOLE	•	WETFLAG
⊗	GAS VALVE	⊙	UTILITY POLE
⊗	GAS METER	☆	PROP. STREET LIGHTING
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— G —	EXISTING GAS LINE		
— S —	EXISTING SEWER LINE		



Professional seals for Robert J. Duff, No. 49811, and Robert J. Duff, No. 40707, both registered professional engineers in the Commonwealth of Massachusetts. The date 4/11/21 is stamped on the right seal.

APPROVED DATE: \_\_\_\_\_  
FRANKLIN PLANNING BOARD

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**OWNER**

TAJ ESTATES OF FRANKLIN II, LLC  
95 EAST MAIN STREET, SUITE 100  
WESTBOROUGH, MA. 01581

DEED BOOK 40009 PAGE 445  
ASSESSORS MAP 285 LOT 069

**OWNER/APPLICANT**

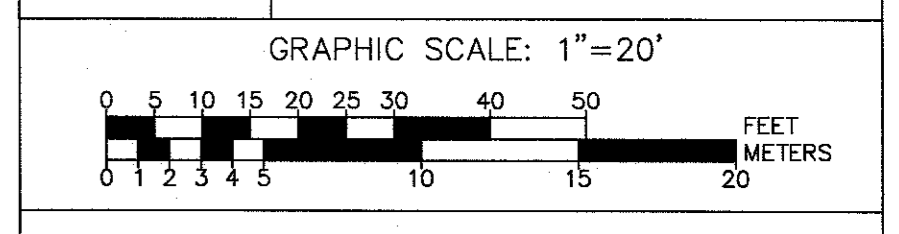
MOHIUDDIN AHMED  
95 MAIN STREET, SUITE 100  
WESTBOROUGH, MA. 01581

**TAJ ESTATES OF FRANKLIN II  
SITE PLAN & SPECIAL PERMIT  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS**

**SITE PLAN**

**NOVEMBER 11, 2021**

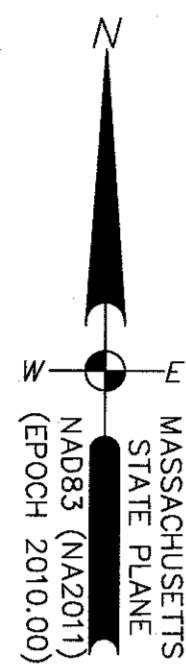
DATE	REVISION DESCRIPTION



**Guerriere & Halon, Inc.**  
ENGINEERING & LAND SURVEYING  
55 WEST CENTRAL ST. PH. (508) 528-3221  
FRANKLIN, MA 02038 FX. (508) 528-7921  
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EAST CENTRAL STREET  
(COUNTY LAYOUT DATED JUNE 7, 1955)  
(PLAN BK. 197 PLAN NO. 849)



N/F  
LAWRENCE &  
DOOLEY  
USE: RESIDENTIAL  
DWELLING

N/F  
UNCAS AVENUE  
CONDOMINIUM  
USE: RESIDENTIAL  
DWELLING

HILL AVENUE  
(40' WIDE - UNIMPROVED)  
(NOT TOWN ACCEPTED)

N/F  
TAYAL  
USE: RESIDENTIAL  
DWELLING

N/F  
IRWIN  
USE: RESIDENTIAL  
DWELLING

N/F  
MARCHAND  
USE: RESIDENTIAL  
DWELLING

PROPOSED MIXED USE DEVELOPMENT  
198' X 74' (14,212± SF.)  
3 STORIES  
900± SF. OFFICE/COMMERCIAL  
(41) 1-BEDROOM UNITS  
F.F.E. = 285.75

CB #1  
RIM=283.65'  
DMH #1  
RIM=282.20'  
DMH #2  
RIM=284.10'

N/F  
ROVANI  
USE: RESIDENTIAL  
DWELLING  
CB #2  
RIM=283.65'

DMH #3  
RIM=284.20'

DMH #4  
RIM=284.50'

CB #3  
RIM=283.65'

OUTLET STRUCTURE  
(DOUBLE GRATE)  
RIM=283.40'

SEWER EASEMENT-  
TAKING  
(2741-135)

1:1 ARMORED SLOPE.  
SLOPE STABILIZATION TO  
BE DESIGNED BY OTHERS

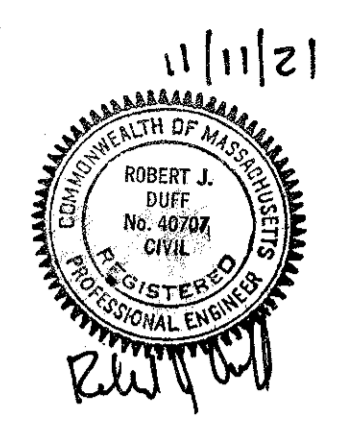
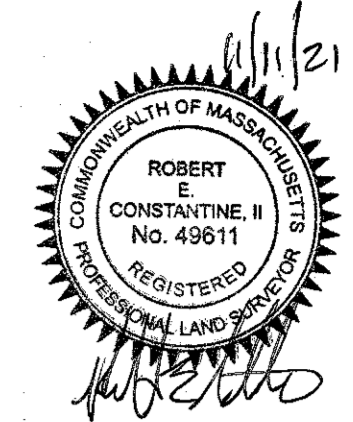
END 1:1 SLOPE. BEGIN  
TRANSITION TO 1.50:1  
SLOPE

1:1 TO 1.50:1 SLOPE  
TRANSITION AREA.  
SLOPE STABILIZATION TO  
BE DESIGNED BY OTHERS

1.50:1 SLOPE.  
SLOPE STABILIZATION TO  
BE DESIGNED BY OTHERS

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WEIFLAG
	GAS VALVE		UTILITY POLE
	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE		SPOT ELEVATION
	WATER VALVE		RIPRAP
	WATER SHUT OFF VALVE		
	FIRE HYDRANT		
	EXISTING CONTOUR		
	EXISTING DRAIN LINE		
	EXISTING WATER LINE		
	EXISTING GAS LINE		
	EXISTING SEWER LINE		



F4478

APPROVED DATE: \_\_\_\_\_  
FRANKLIN PLANNING BOARD  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
BEING A MAJORITY

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WESTBOROUGH, MA. 01581  
DEED BOOK 40009 PAGE 445  
ASSESSORS MAP 285 LOT 069

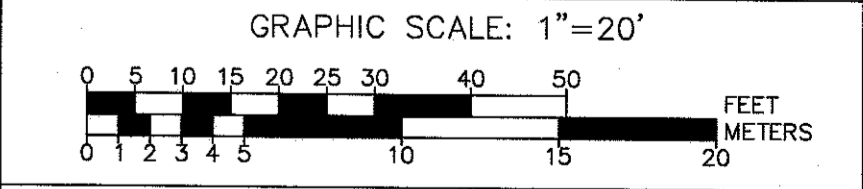
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230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS

GRADING PLAN

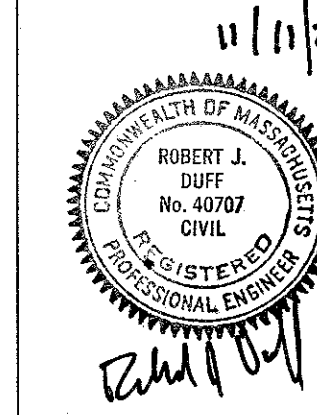
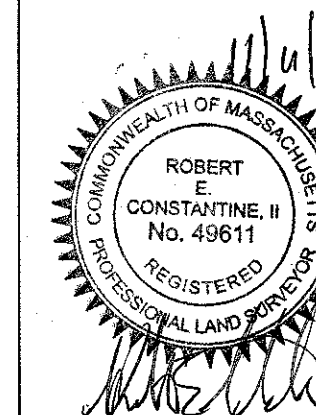
NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION



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APPROVED DATE: \_\_\_\_\_  
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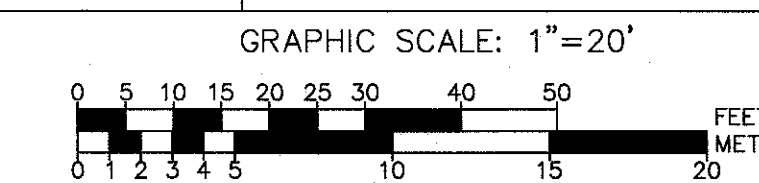
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 FRANKLIN MASSACHUSETTS**

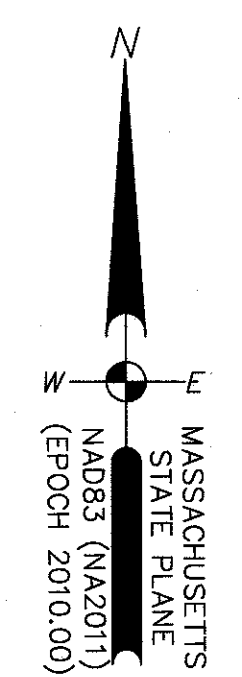
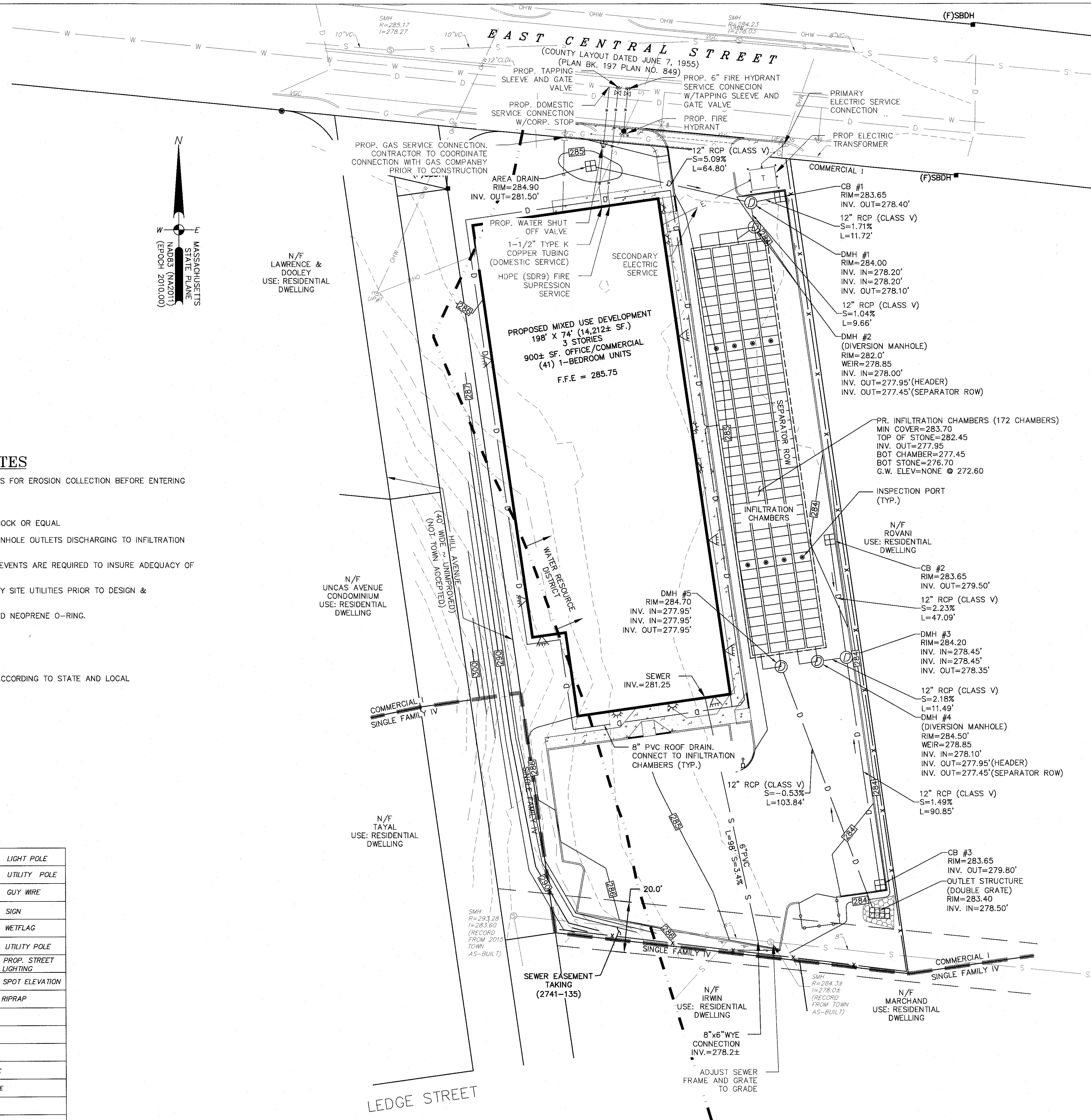
UTILITY PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION



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STORM DRAINAGE NOTES

SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM:

1. INSTALL SILT SACKS.
2. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL
3. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION SYSTEM.
4. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
5. CONTRACTOR & ARCHITECT ARE TO VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
6. ALL PIPE GASKETS SHALL BE PRE-MOLDED NEOPRENE O-RING.

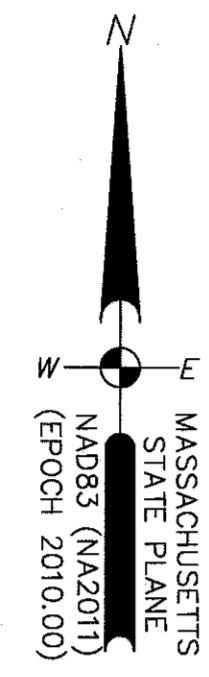
UTILITY NOTE

1. ALL UTILITIES SHALL BE CONSTRUCTED ACCORDING TO STATE AND LOCAL REGULATIONS.

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WEIR FLAG
	GAS VALVE		UTILITY POLE
	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE		SPOT ELEVATION
	WATER VALVE		RIPRAP
	WATER SHUT OFF VALVE		
	FIRE HYDRANT		
	EXISTING CONTOUR		
	EXISTING DRAIN LINE		
	EXISTING WATER LINE		
	EXISTING GAS LINE		
	EXISTING SEWER LINE		

EAST CENTRAL STREET  
(COUNTY LAYOUT DATED JUNE 7, 1955)  
(PLAN BK. 197 PLAN NO. 849)



N/F LAWRENCE & DOOLEY  
USE: RESIDENTIAL DWELLING

N/F UNCAS AVENUE CONDOMINIUM  
USE: RESIDENTIAL DWELLING

HILL AVENUE  
(40' WIDE - UNIMPROVED)  
(NOT TOWN ACCEPTED)

1:1 ARMORED SLOPE.  
SLOPE STABILIZATION TO BE DESIGNED BY OTHERS

END 1:1 SLOPE. BEGIN  
TRANSITION TO 1.50:1 SLOPE

N/F TAYAL  
USE: RESIDENTIAL DWELLING

1:1 TO 1.50:1 SLOPE  
TRANSITION AREA.  
SLOPE STABILIZATION TO BE DESIGNED BY OTHERS

BEGIN 1.50:1 SLOPE

1.50:1 SLOPE.  
SLOPE STABILIZATION TO BE DESIGNED BY OTHERS

LEDGE STREET

PROPOSED MIXED USE DEVELOPMENT  
198' X 74' (14,212± SF.)  
3 STORIES  
900± SF. OFFICE/COMMERCIAL  
(41) 1-BEDROOM UNITS  
F.F.E. = 285.75

PR. BOLLARD  
(TYP. OF 7)

6" WHITE PVC  
FENCE (TYP.)

N/F ROVANI  
USE: RESIDENTIAL DWELLING

DUMPSTER AREA  
CONCRETE PAD  
W/CHAIN LINK FENCE

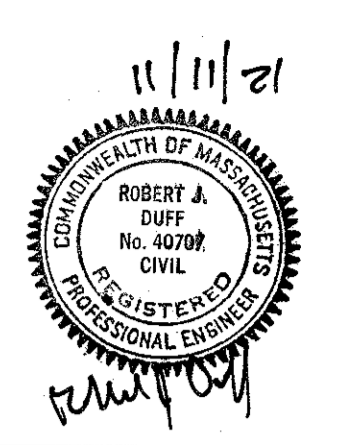
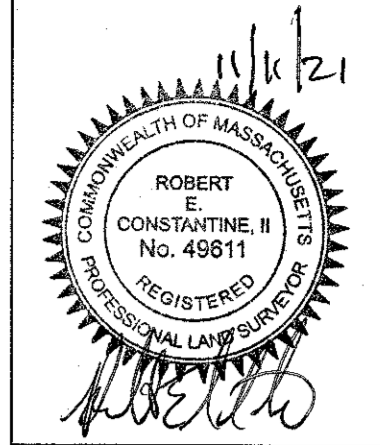
SEWER EASEMENT  
TAKING  
(2741-135)

N/F IRWIN  
USE: RESIDENTIAL DWELLING

N/F MARCHAND  
USE: RESIDENTIAL DWELLING

PLANTING LEGEND			
SYMBOL	NAME	SIZE	QUANTITY
	RED MAPLE ACER RUBRUM	4" MIN. 2.5" CAL.	3
	JUNIPER PLUMROSA COMPACTA	3 GAL.	16
	HERMOCADIS DAYLILIES	2 GAL.	6
	PYRAMIDAL ARBORVITAE THUJA OCCIDENTALIS PYRAMIDALIS	3 GAL.	9
	RHODODENDRON RHODODENDRON-KEISKEI	3 GAL.	6

LEGEND			
	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
	GAS VALVE		UTILITY POLE
	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE		SPOT ELEVATION
	WATER VALVE		RIPRAP
	WATER SHUT OFF VALVE		
	FIRE HYDRANT		
	EXISTING CONTOUR		
	EXISTING DRAIN LINE		
	EXISTING WATER LINE		
	EXISTING GAS LINE		
	EXISTING SEWER LINE		



F4478

APPROVED DATE: \_\_\_\_\_  
FRANKLIN PLANNING BOARD  
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WESTBOROUGH, MA. 01581  
DEED BOOK 40009 PAGE 445  
ASSESSORS MAP 285 LOT 069

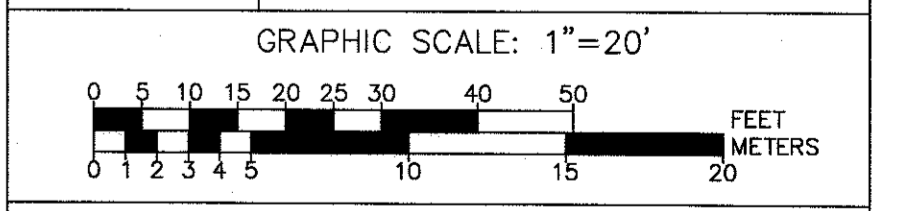
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SITE PLAN & SPECIAL PERMIT  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS

LANDSCAPING PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION



**Guerriere & Halnon, Inc.**  
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THIS PHOTOMETRIC PLAN IS BASED SOLELY UPON PROPRIETARY INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND CLIENT RECOMMENDATION.

LUMINAIRE LOCATIONS, LIGHTING PATTERNS, AND ILLUMINATION LEVELS WERE PREPARED UTILIZING INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND THE SOFTWARE PACKAGE SIMPLY OUTDOOR. ITS VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMINAIRE MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINATION VALUES MAY VARY DUE TO VARIATIONS IN LIGHT HEIGHT, ELECTRICAL VOLTAGE, LAMP WATTAGE, AND OTHER VARIABLE FIELD CONDITIONS, OR USING A LUMINAIRE OTHER THAN SPECIFICALLY NOTED HEREON.

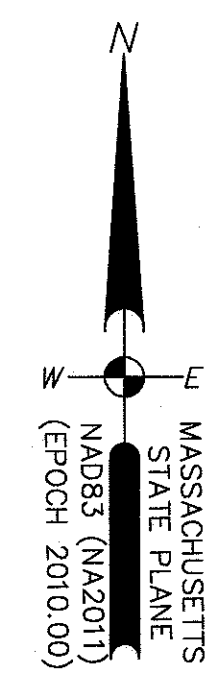
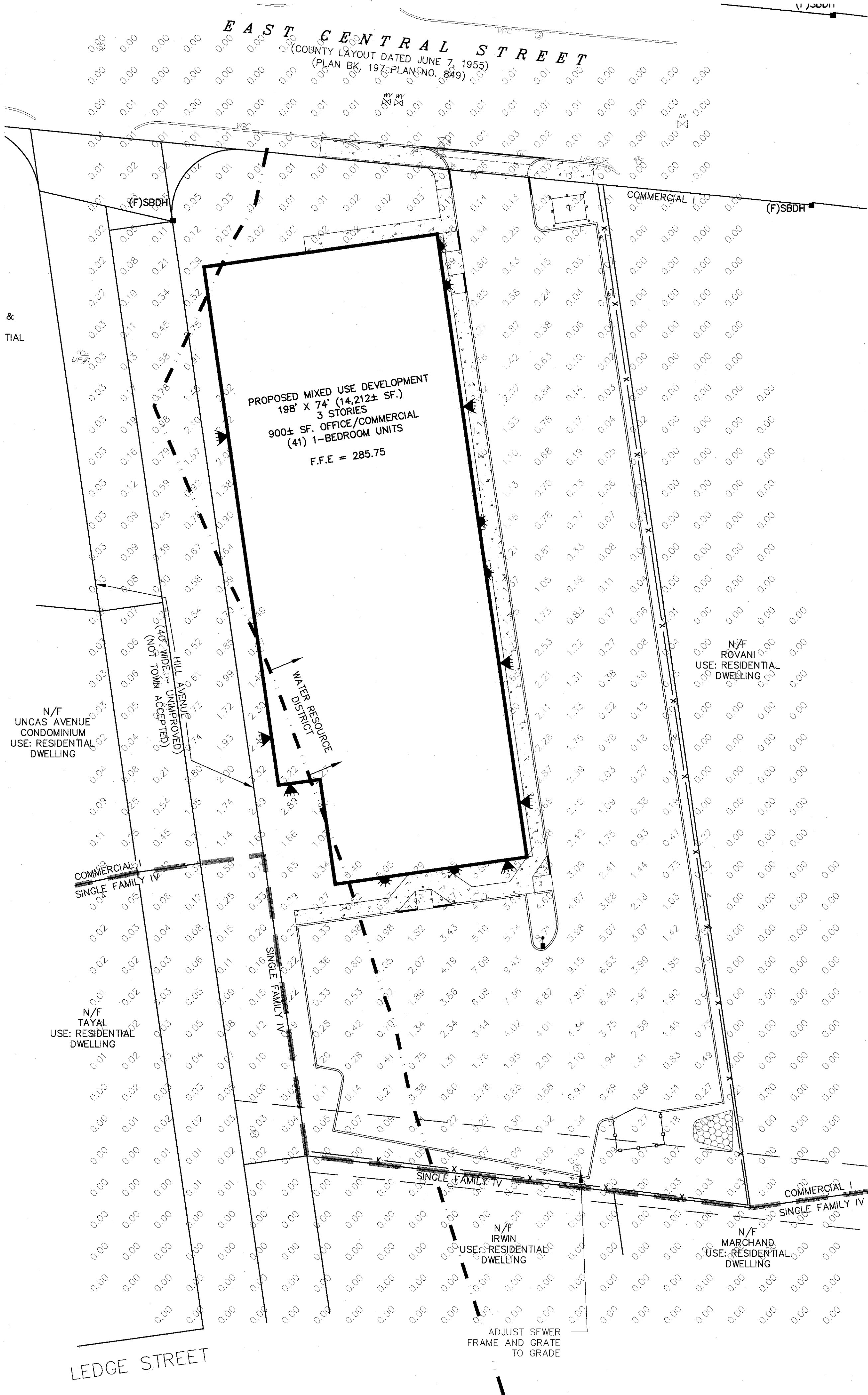
GUERRIERE & HALNON, INC ASSUMES NO RESPONSIBILITY FOR ANY SAFETY AND/OR SECURITY RISKS DUE TO INADEQUATE LIGHT LEVELS WHICH MAY OCCUR AFTER INSTALLATION.

**LIGHT LEGEND**

- PEDESTRIAN LIGHTING- LITHONIA LIGHTING MODEL OLLWD- LED WALL CYLINDER LIGHT MOUNTING HEIGHT 6.5'
- SECURITY LIGHTING-LITHONIA LIGHTING MODEL WSR LED ARCHITECTURAL WALL SCONCE MOUNTING HEIGHT 14'
- PARKING LIGHTING- LITHONIA LIGHTING MODEL ESX1 LED AREA LUMINAIRE MOUNTING HEIGHT 20'

**LEGEND**

☐	CATCH BASIN	☆	LIGHT POLE
⊕	DRAIN MANHOLE	☉	UTILITY POLE
⊙	ELECTRIC MANHOLE	→	GUY WIRE
⊝	SEWER MANHOLE	▽	SIGN
○	MANHOLE	•	WETFLAG
⊗	GAS VALVE	☉	UTILITY POLE
⊗	GAS METER	☆	PROP. STREET LIGHTING
⊕	GAS SHUT OFF VALVE	X	SPOT ELEVATION
⊗	WATER VALVE		RIPRAP
⊕	WATER SHUT OFF VALVE		
⊕	FIRE HYDRANT		
---	OOO---		EXISTING CONTOUR
---	D---		EXISTING DRAIN LINE
---	W---		EXISTING WATER LINE
---	G---		EXISTING GAS LINE
---	S---		EXISTING SEWER LINE



**D-Series Size 1 LED Wall Luminaire**

**Specifications Luminaire**

**Back Box (BBW, E20WC)**

Width: 13-3/4" (34.9 cm)	Weight: 12 lbs (5.4 kg)	Width: 13-3/4" (34.9 cm)	BBW Weight: 5 lbs (2.3 kg)
Depth: 10" (25.4 cm)		Depth: 4" (10.2 cm)	E20WC Weight: 10 lbs (4.5 kg)
Height: 6-3/8" (16.2 cm)		Height: 6-3/8" (16.2 cm)	

For 24" NPT side-entry conduit (BBW only)

Catalog Number: \_\_\_\_\_  
Notes: \_\_\_\_\_  
Spec: \_\_\_\_\_

**Introduction**  
The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

**SECURITY LIGHTING**

**ESX1 LED Area Luminaire**

**Specifications**

EPA 0.40 ft<sup>2</sup> (0.04 m<sup>2</sup>)  
Length: 19.9" (50.5 cm)  
Width: 12" (30.5 cm)  
Height: 2.9" (7.4 cm)  
Weight: 11.2 lbs (5.1 kg)

Catalog Number: \_\_\_\_\_  
Notes: \_\_\_\_\_  
Spec: \_\_\_\_\_

**Introduction**  
The ESX1 LED area luminaire provides the combination of best product, best price and best delivery. ESX1 is ideal for one-for-one replacement of HID area lighting and provides up to 76% energy savings, long service life and fast payback. The ESX1 delivers 8,000 to 25,000 lumens allowing it to replace 150W to 400W HID luminaires. All ESX luminaires feature adjustable light output, providing two light levels from one product, allowing greater flexibility in the field and on distributors' shelves. All luminaires feature a reversible arm that allows for mounting on both round and square poles. Eight configurations of ESX1 luminaires are stocked in Acuity Brands distribution centers.

**PARKING LIGHTING**

**LITHONIA LIGHTING**

**FEATURES & SPECIFICATIONS**

OUTDOOR GENERAL PURPOSE  
**OLLWD & OLLWU**

**INSTALLATION**

Example: OLLWD 180-P1 40W 4000K 20'

Code	Power/Wattage	Color Temperature	Height	Mount	Notes
OLLWD 180	40W	4000K	20'	WB	Back view
OLLWU 180	40W	4000K	20'	WB	Side view

**PEDESTRIAN LIGHTING**

APPROVED DATE: 11/11/21

FRANKLIN PLANNING BOARD

BEING A MAJORITY

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DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT: MOHUIDDIN AHMED  
95 MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

**TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT**  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS

**PHOTOMETRIC PLAN**  
NOVEMBER 11, 2021

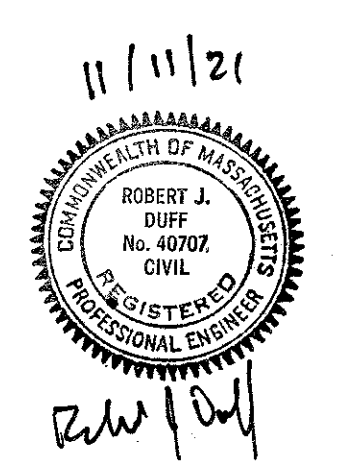
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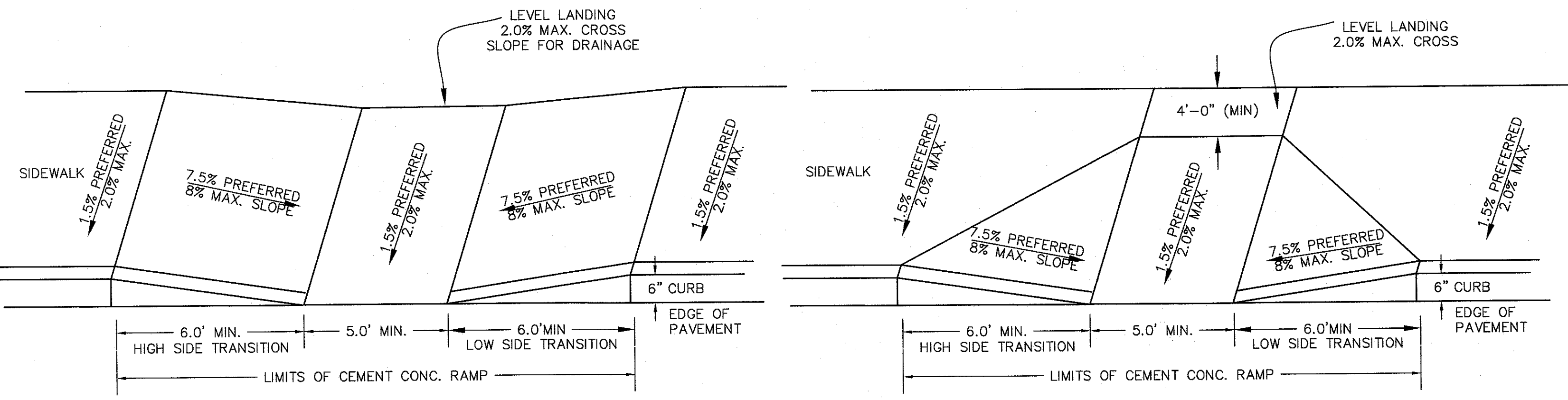
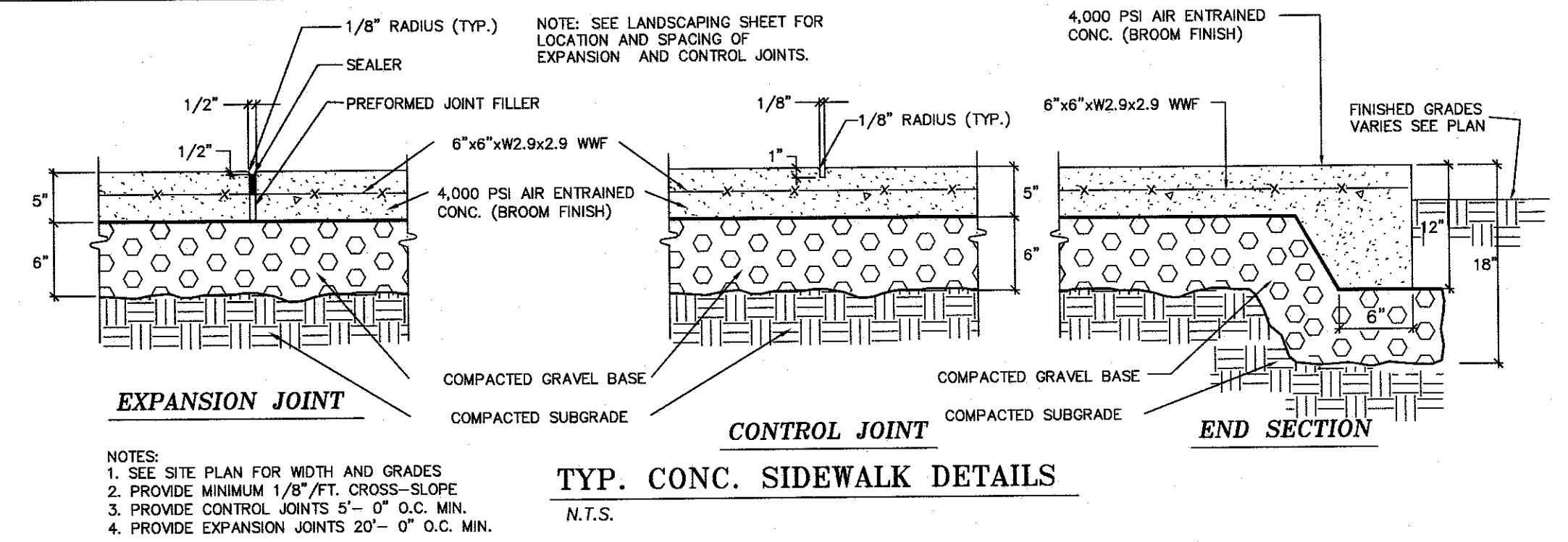
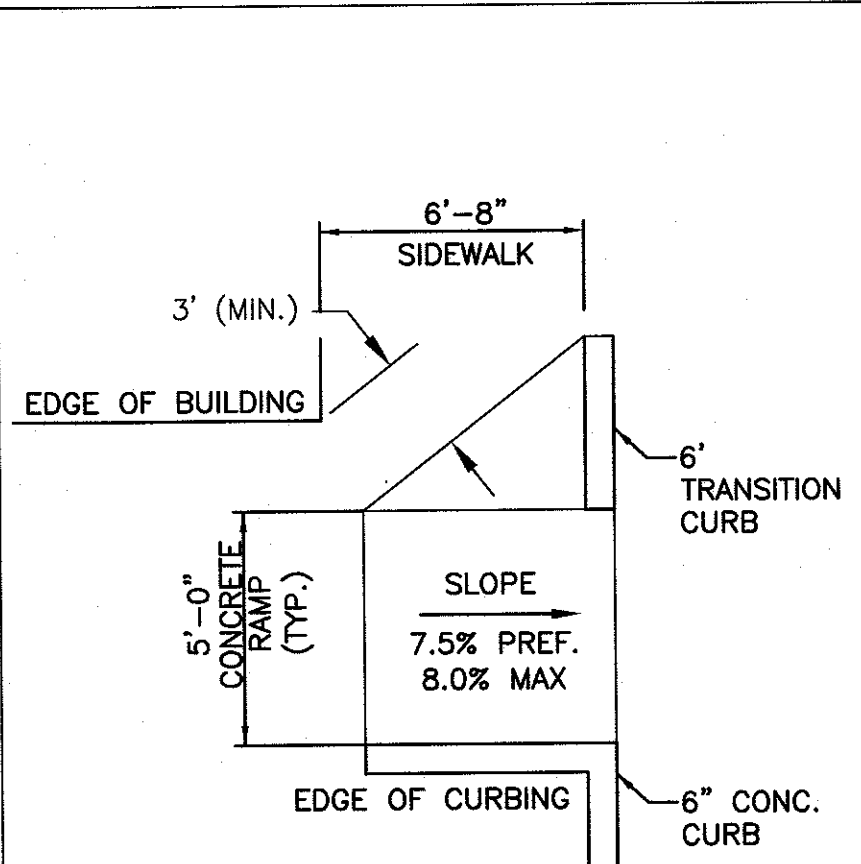
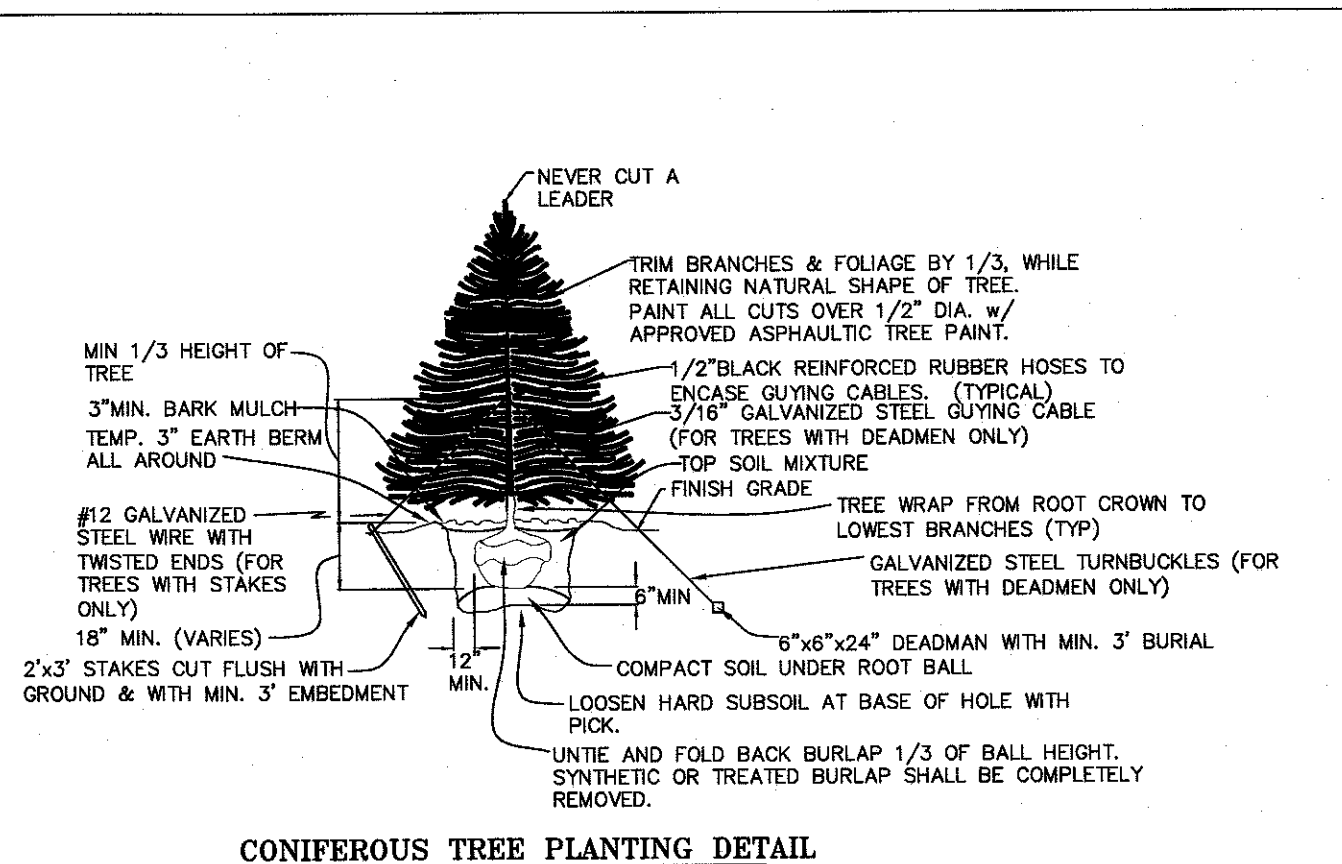
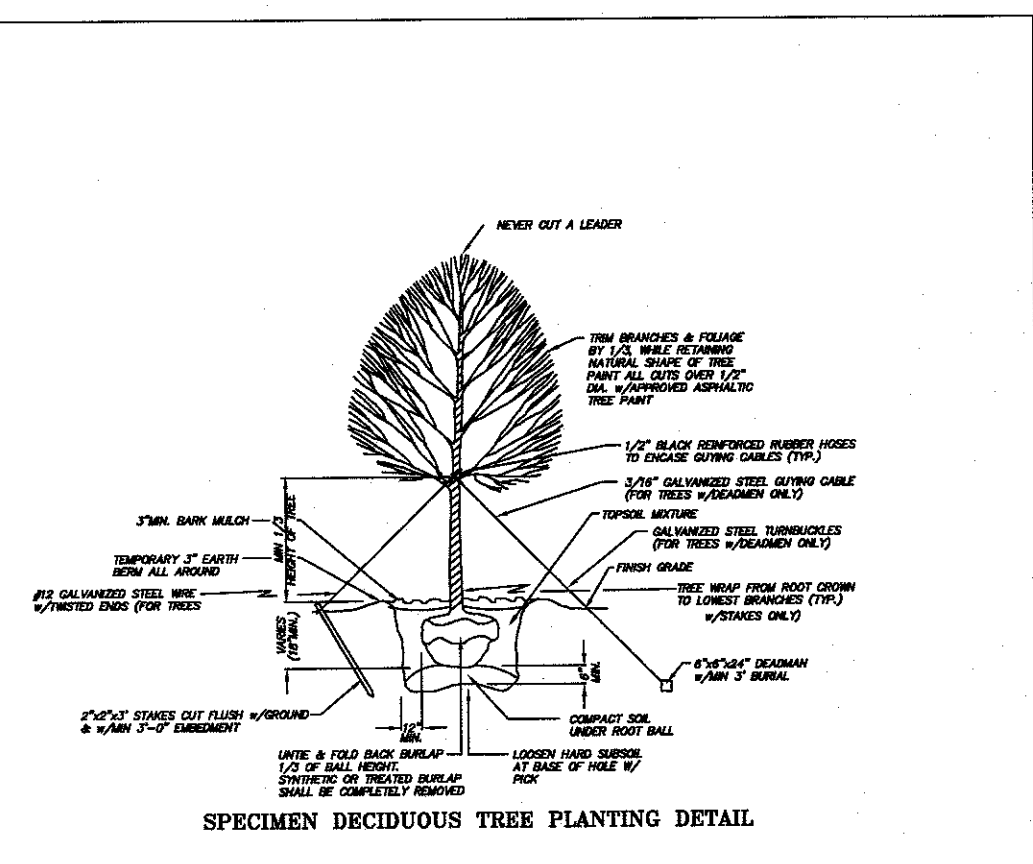
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ENGINEERING & LAND SURVEYING  
55 WEST CENTRAL ST. PH. (508) 528-3221  
FRANKLIN, MA 02038 FX. (508) 528-7921  
www.gandengineering.com

SHEET 8 OF 12 JOB NO. F4478

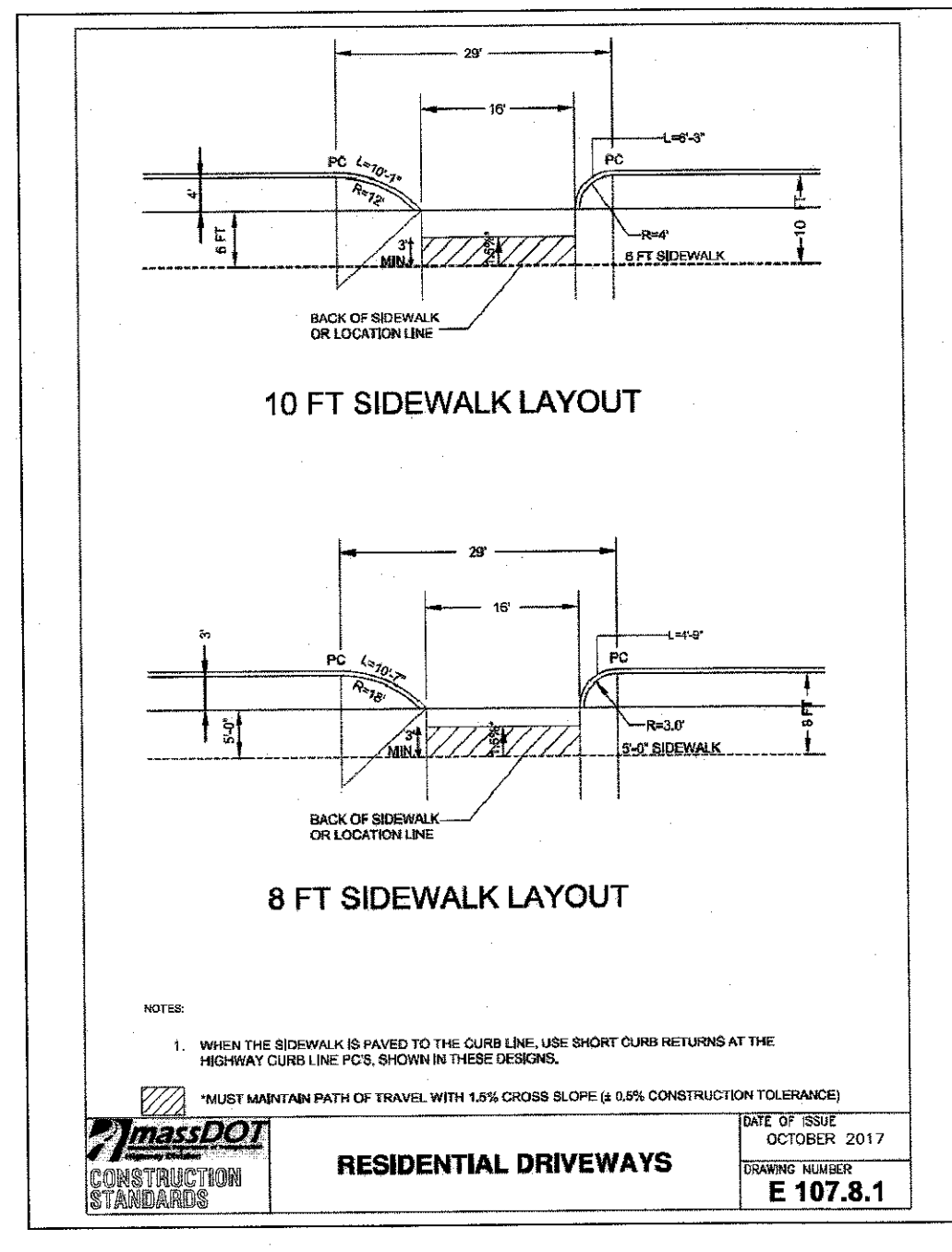
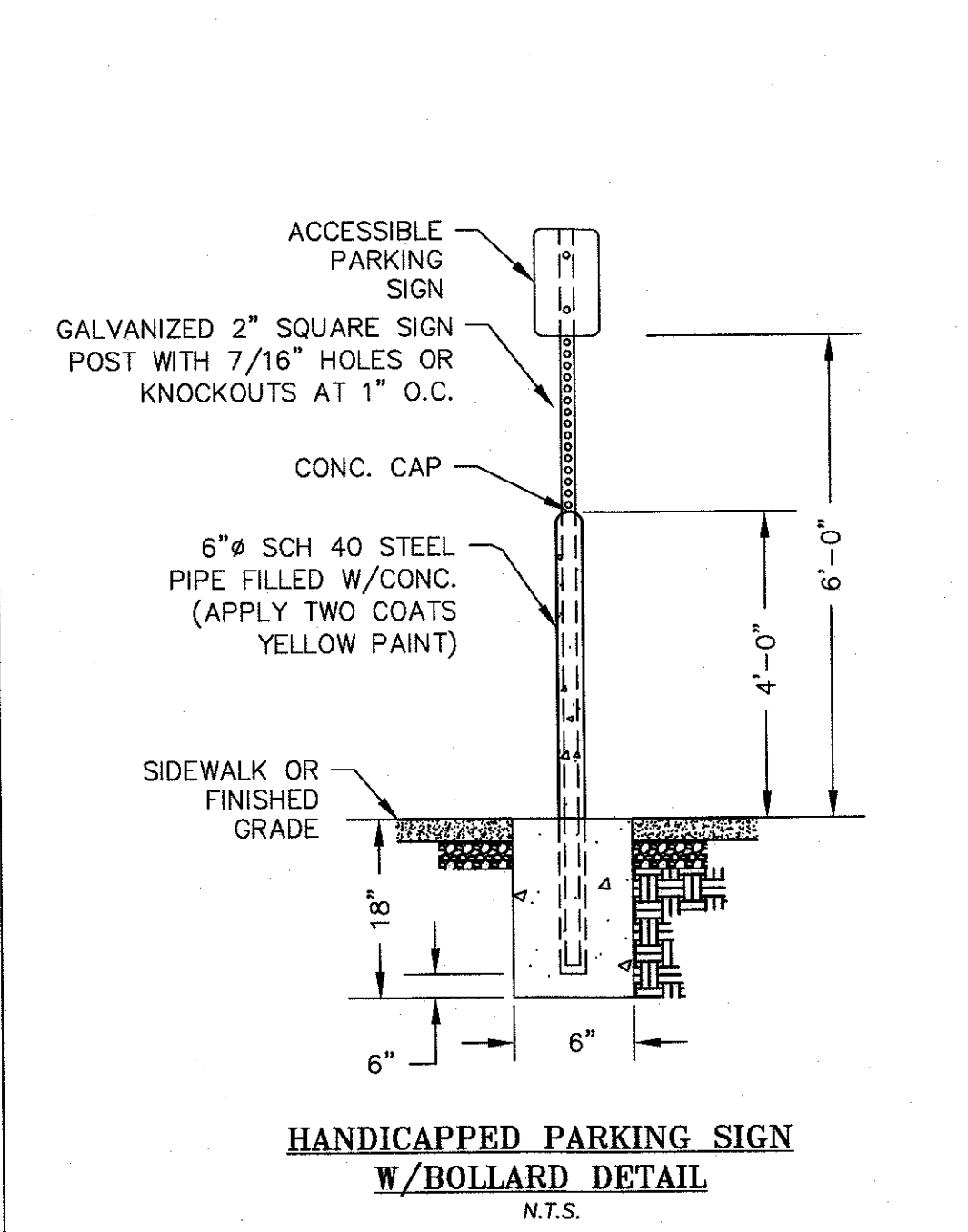




F4478



CEMENT CONCRETE WHEELCHAIR RAMPS NOT TO SCALE



APPROVED DATE: FRANKLIN PLANNING BOARD BEING A MAJORITY

LEGAL NOTES UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS... CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

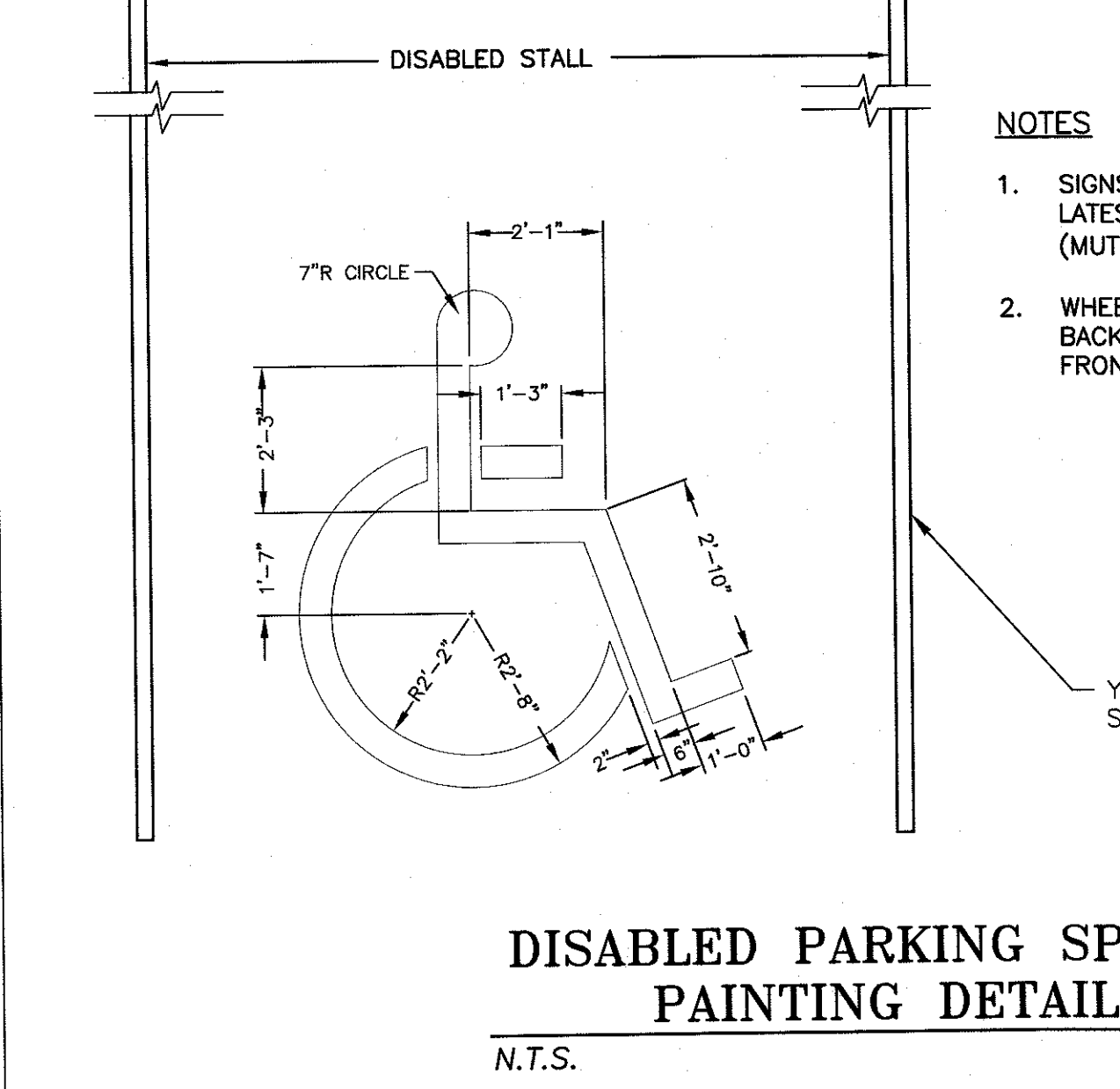
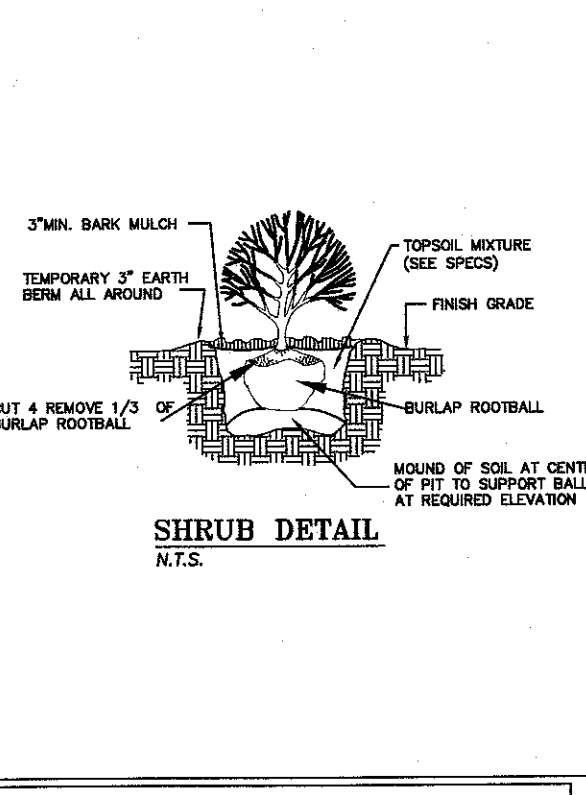
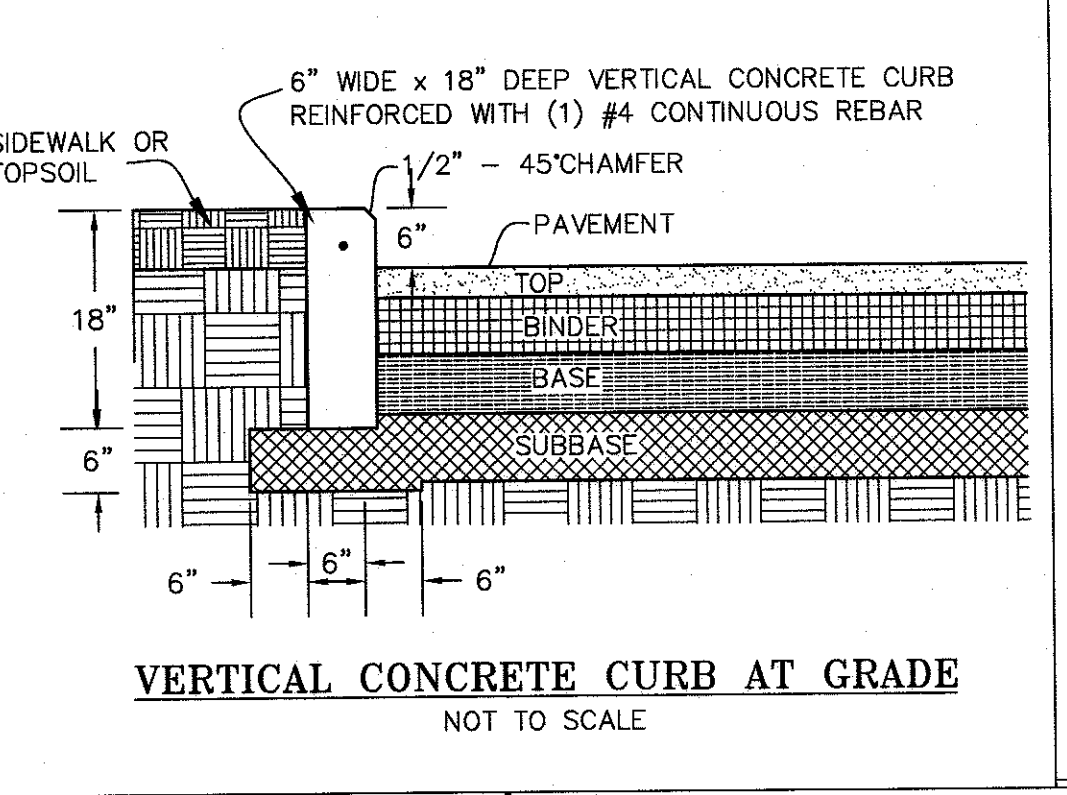
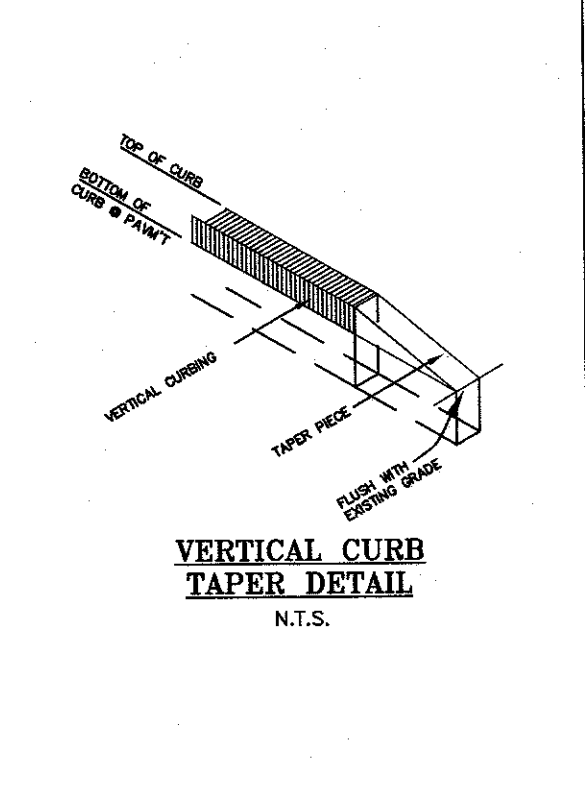
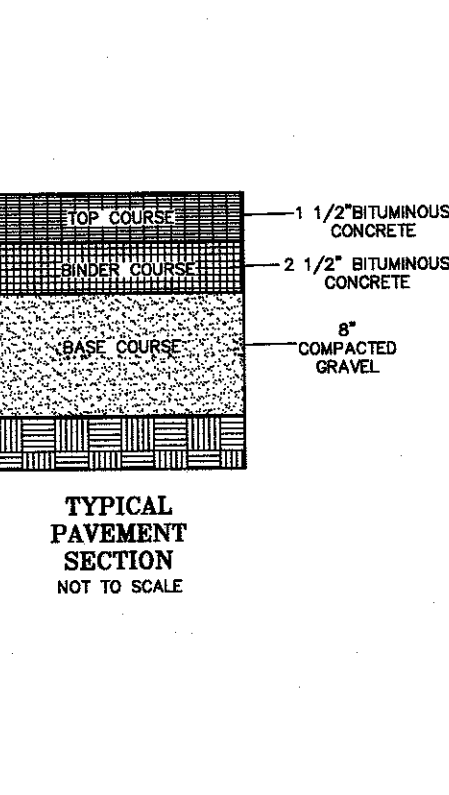
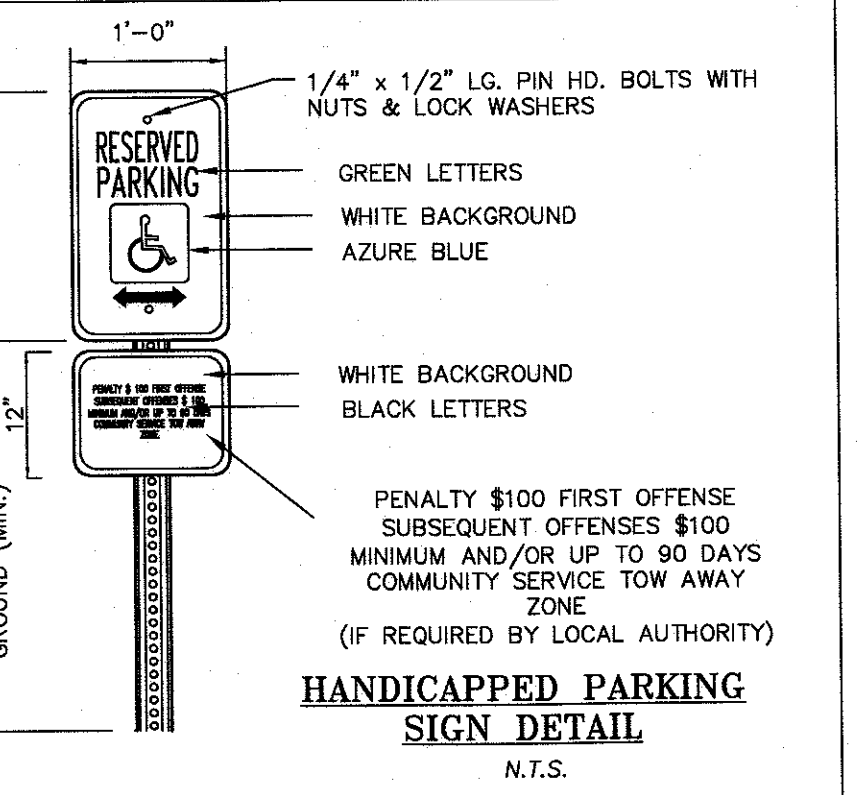
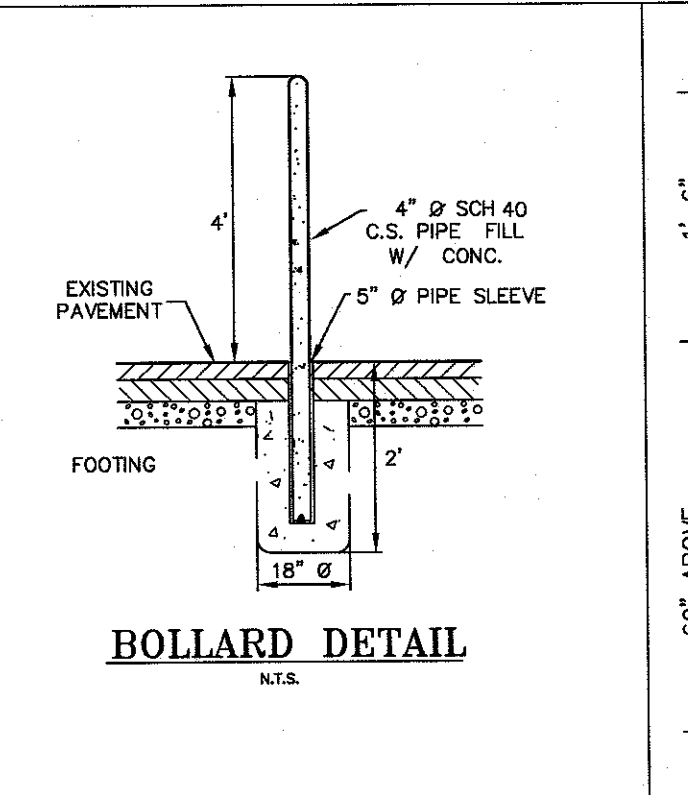
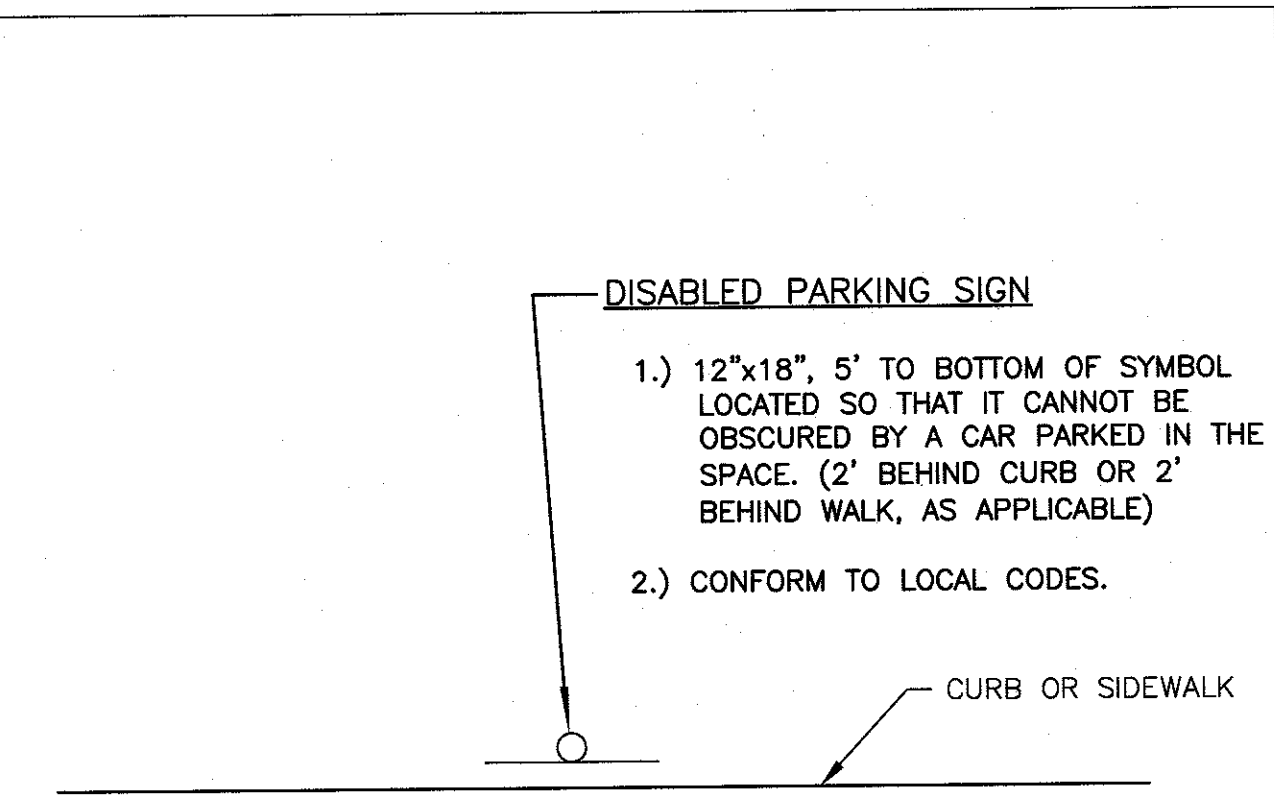
OWNER TAJ ESTATES OF FRANKLIN II, LLC 95 EAST MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581 DEED BOOK 40009 PAGE 445 ASSESSORS MAP 285 LOT 069 OWNER/APPLICANT MOHIUDDIN AHMED 95 MAIN STREET, SUITE 100 WESTBOROUGH, MA. 01581

TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

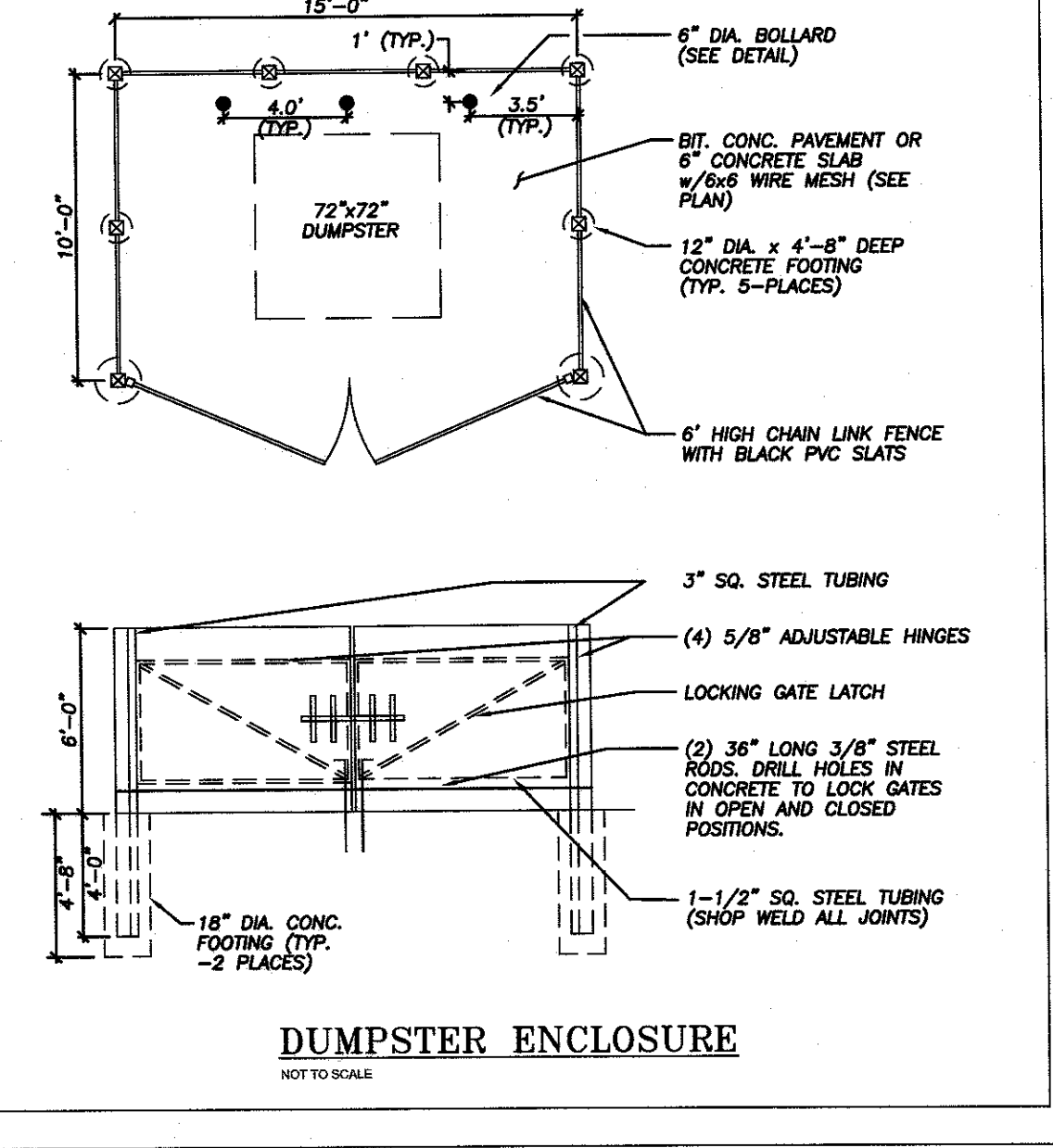
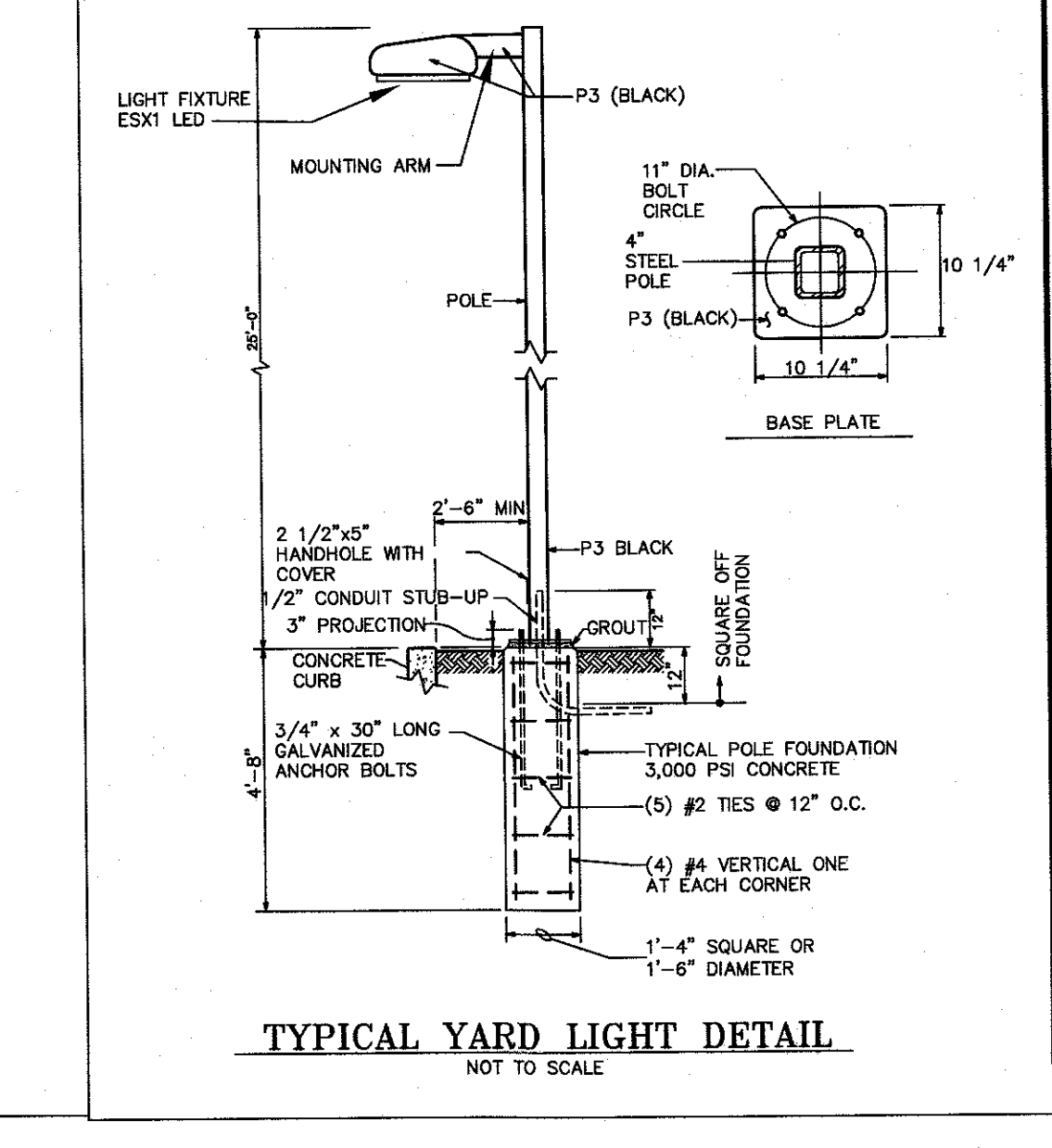
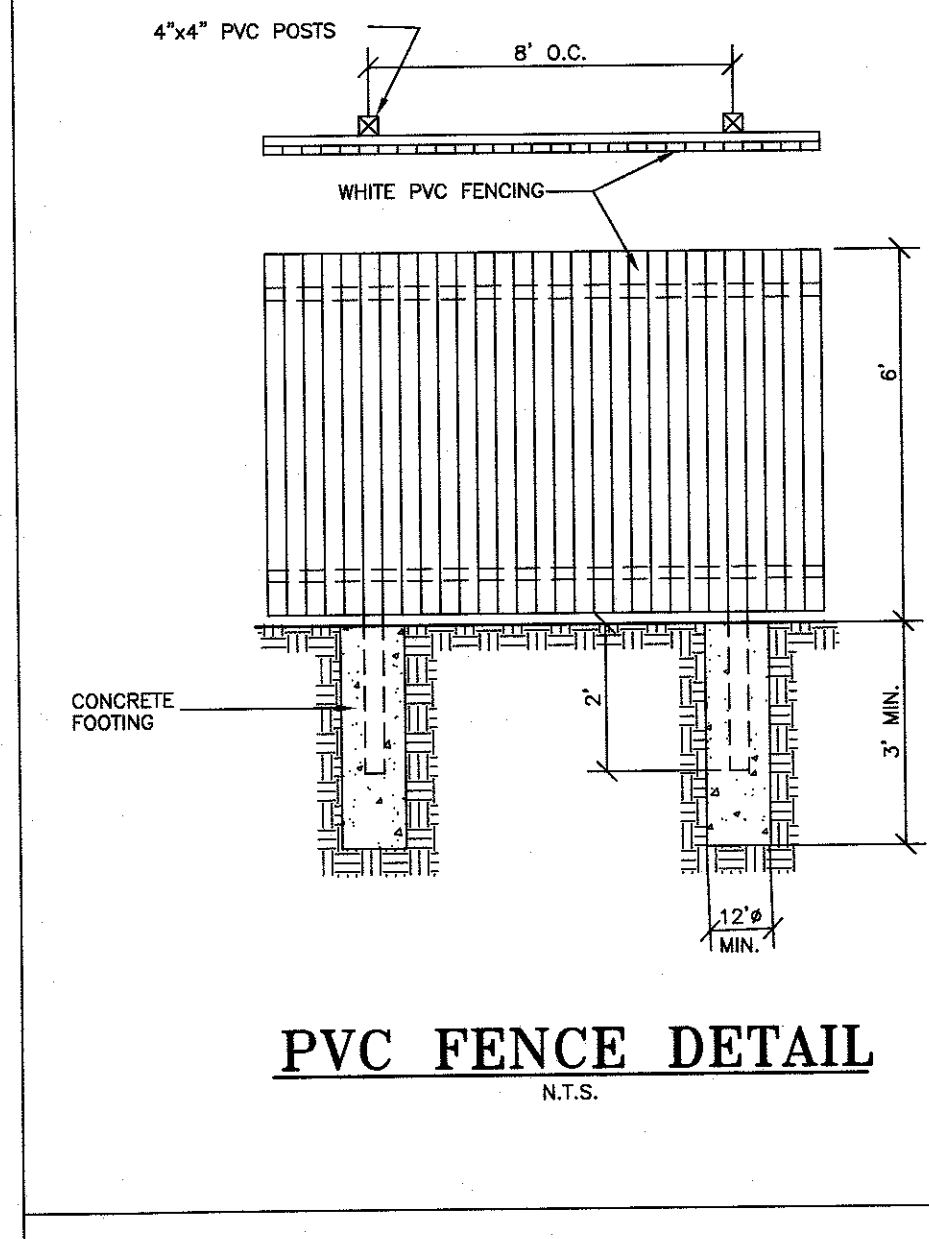
CONSTRUCTION DETAILS

NOVEMBER 11, 2021

Table with 2 columns: DATE, REVISION DESCRIPTION

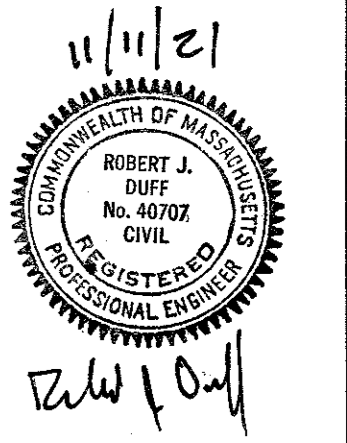


NOTES 1. SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND SPECIFICATIONS. 2. WHEELCHAIR SYMBOL SHALL BE WHITE W/AZURE BLUE BACKGROUND. SYMBOL SHALL BE CENTERED AT THE FRONT OF THE STALL.

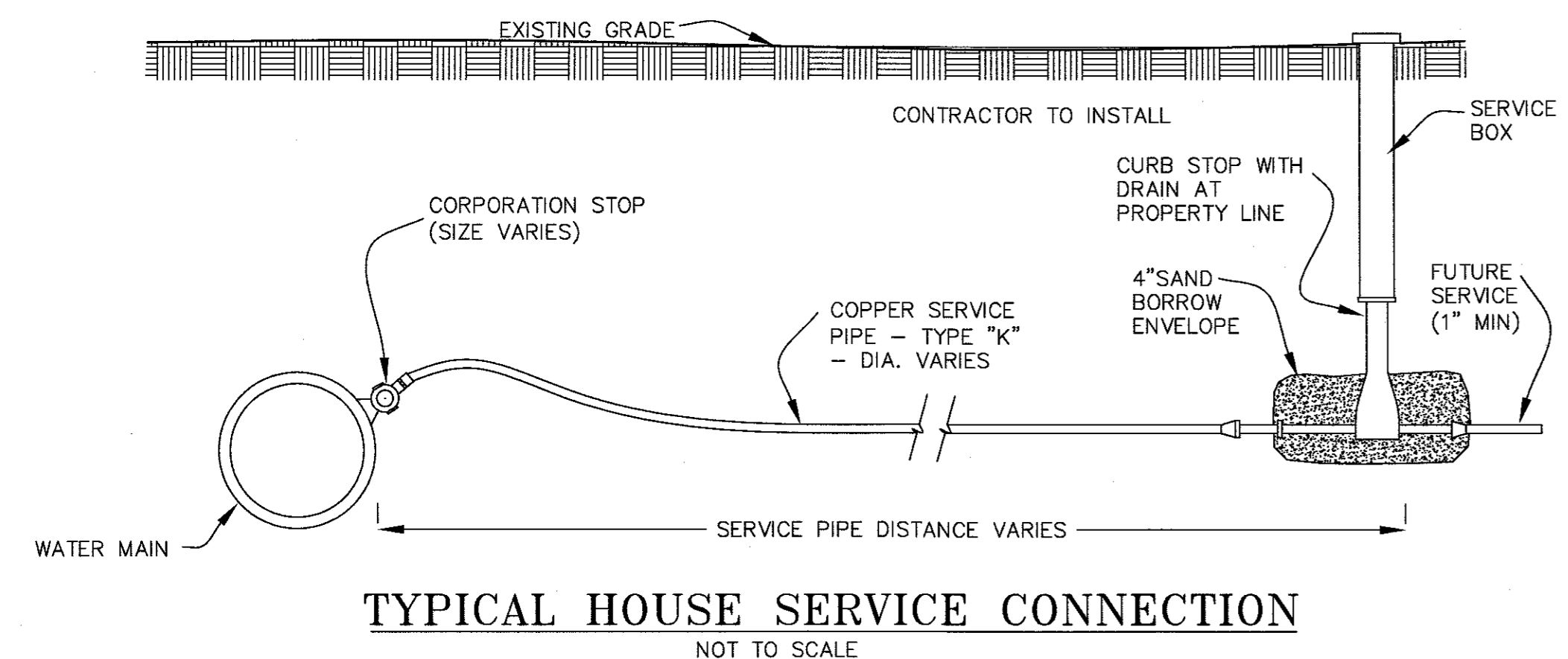


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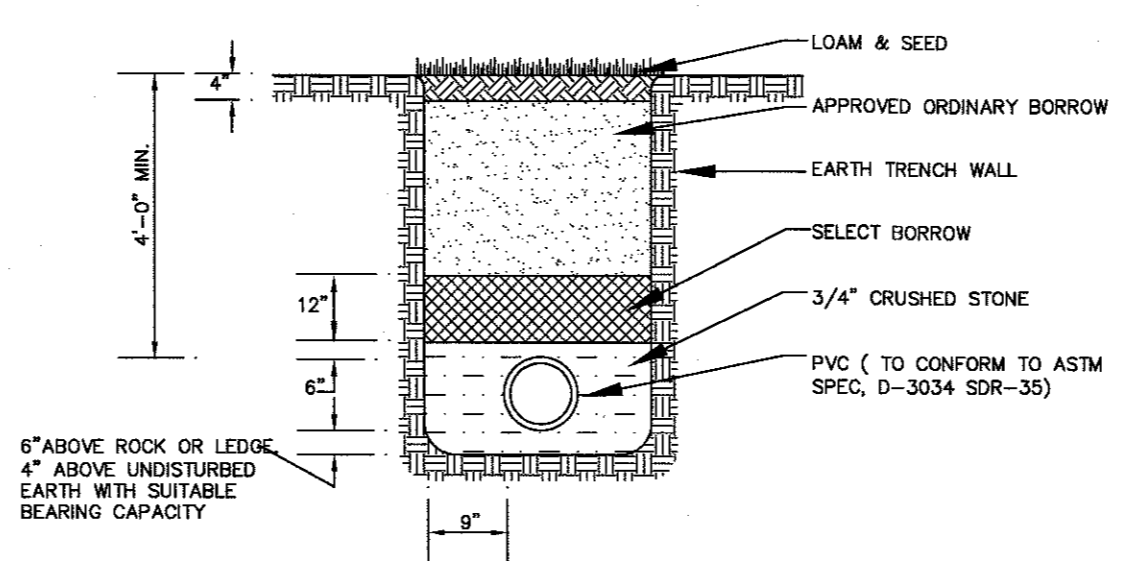


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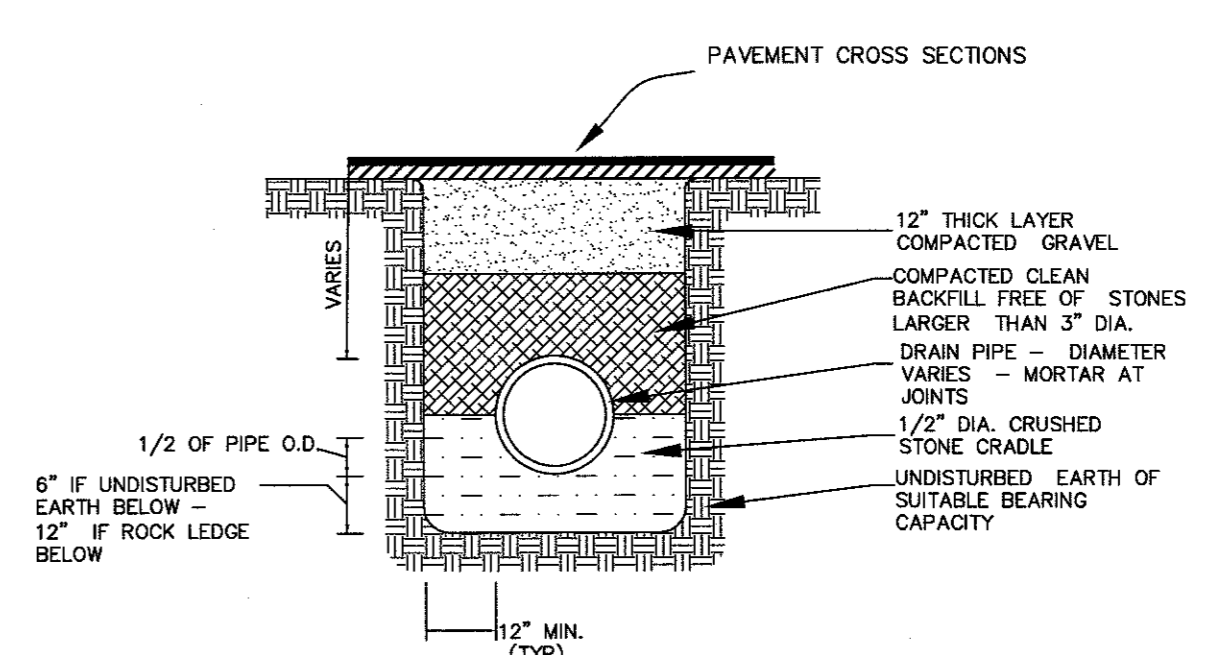


**TYPICAL HOUSE SERVICE CONNECTION**  
NOT TO SCALE

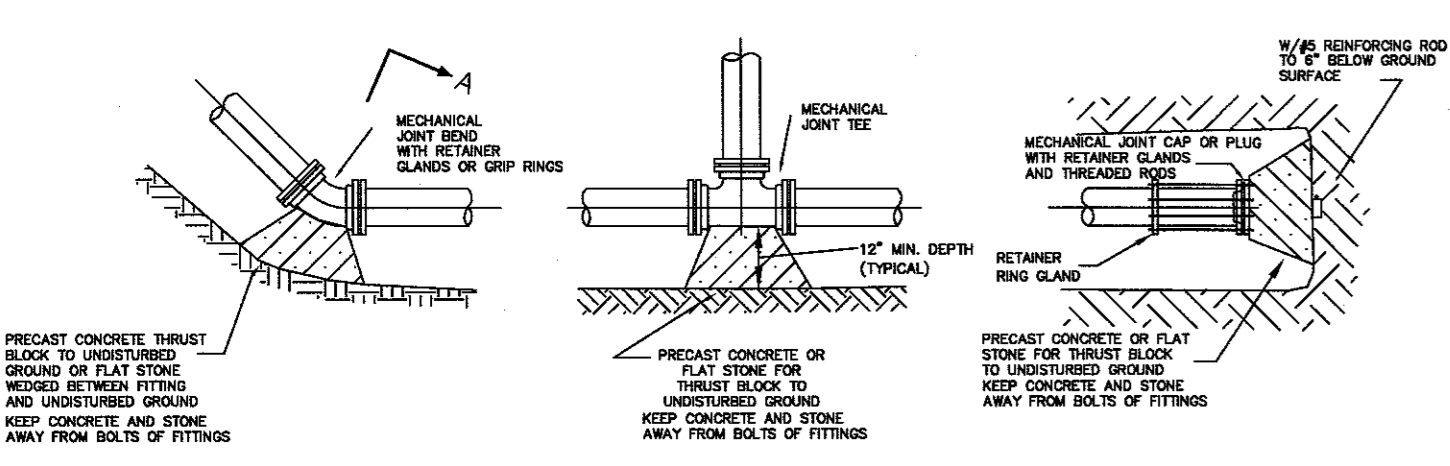
- NOTE:**
- CORPORATION COCKS SHALL BE BRONZE AND SHALL BE THE APPROVED EQUAL OF MUELLER VALVE CO. DECATUR, ILL. OR FORD METER BOX CO., WABASH, IND., FOR COPPER SERVICE TUBE. END JOINTS SHALL BE COMPRESSION FITTINGS.
  - CURB STOPS SHALL BE BRONZE WITH A LAPPED GROUND KEY, AND SHALL BE THE APPROVED EQUAL OF MUELLER VALVE CO., DECATUR, ILL. OR FORD METER BOX CO., WABASH, IND. FOR COPPER TUBE SERVICE. COMPRESSION JOINT.



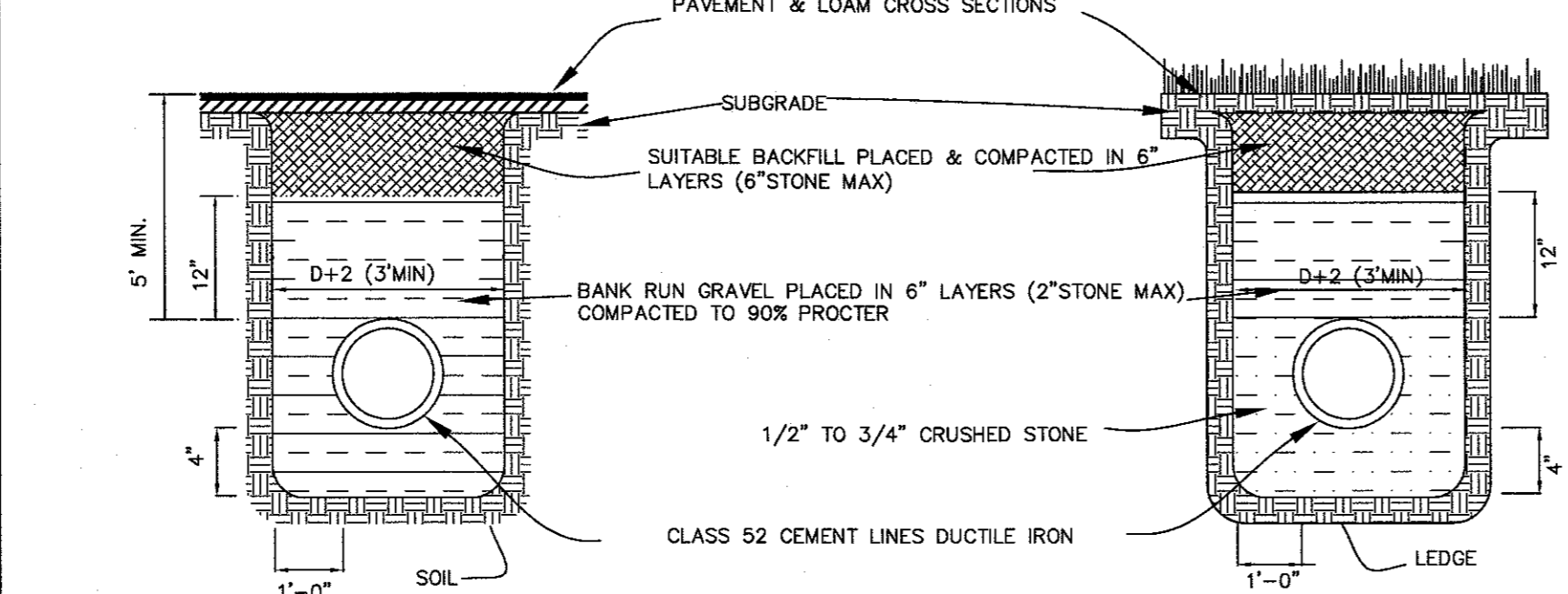
**TYPICAL P.V.C. TRENCH SECTION**  
NOT TO SCALE



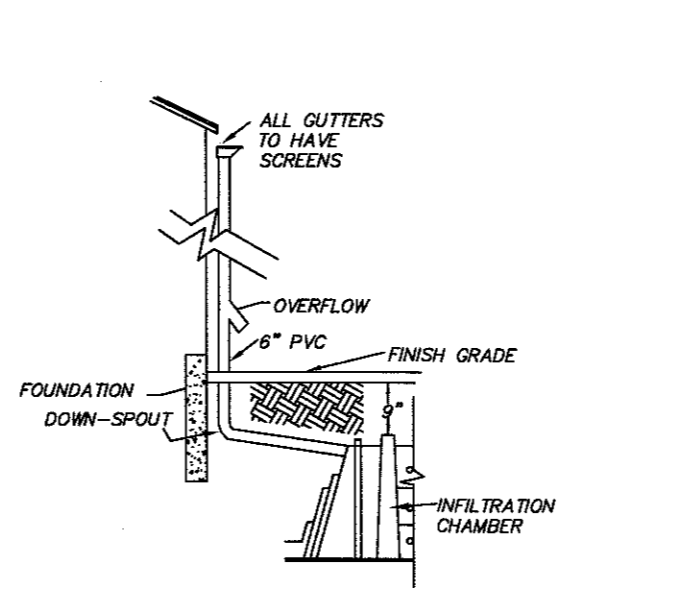
**TYPICAL RCP TRENCH SECTION**  
NOT TO SCALE



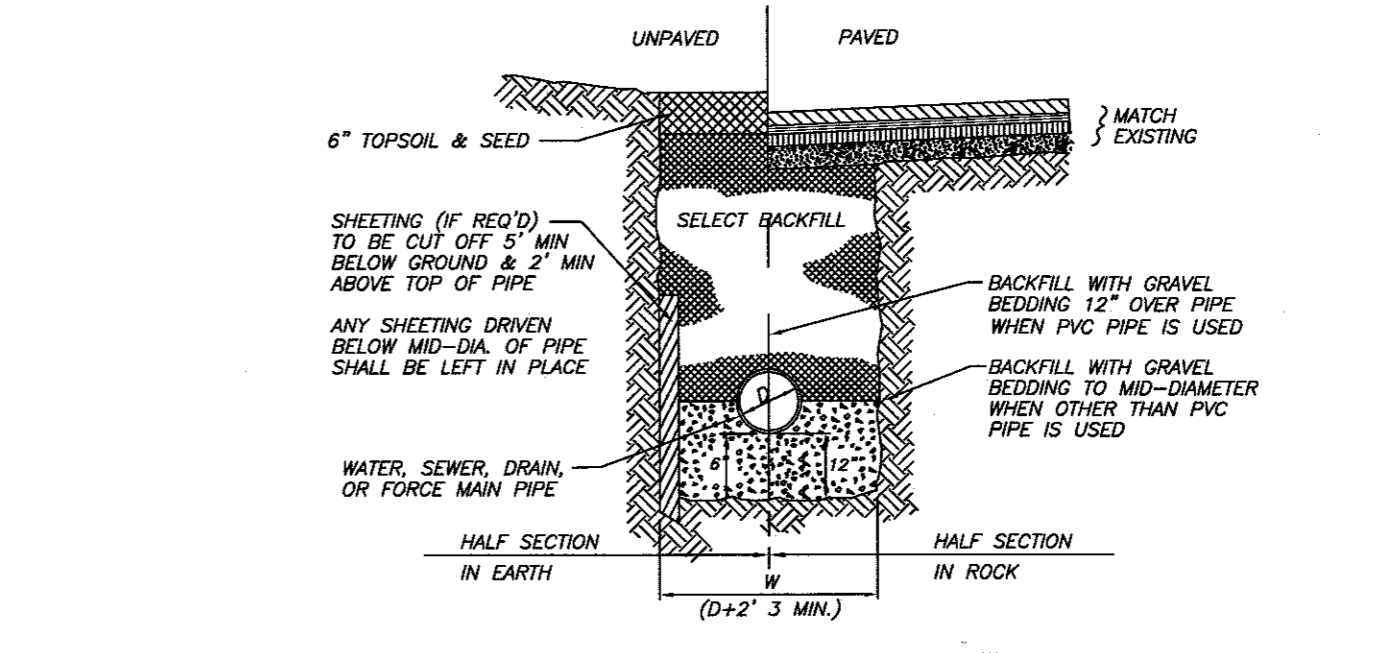
**TYPICAL THRUST BLOCK DETAILS**  
NOT TO SCALE



**TYPICAL TRENCH SECTION FOR D.I. WATER MAIN (TYPE 5 BEDDING AWWAC-600)**



**ROOF DRAIN DETAIL**  
N.T.S.



**TYPICAL UTILITY TRENCH**  
N.T.S.

APPROVED DATE: \_\_\_\_\_  
FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. ANY EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE(7233).

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

TAJ ESTATES OF FRANKLIN II, LLC  
95 EAST MAIN STREET, SUITE 100  
WESTBOROUGH, MA 01581

DEED BOOK 40009 PAGE 445  
ASSESSORS MAP 285 LOT 069

OWNER/APPLICANT

MOHUDDIN AHMED  
95 MAIN STREET, SUITE 100  
WESTBOROUGH, MA 01581

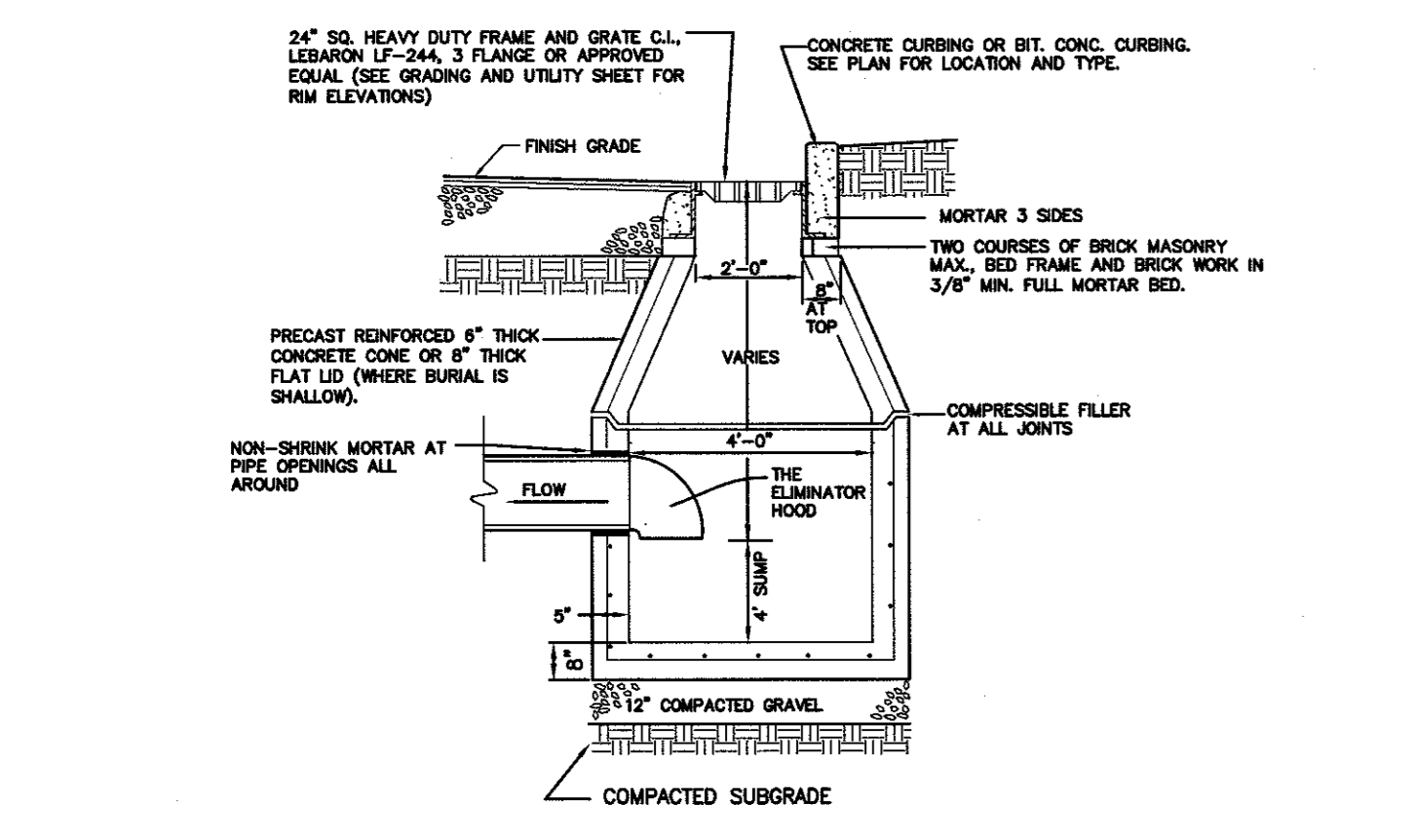
**TAJ ESTATES OF FRANKLIN II  
SITE PLAN & SPECIAL PERMIT  
230 EAST CENTRAL STREET  
FRANKLIN MASSACHUSETTS**

**CONSTRUCTION DETAILS**

NOVEMBER 11, 2021

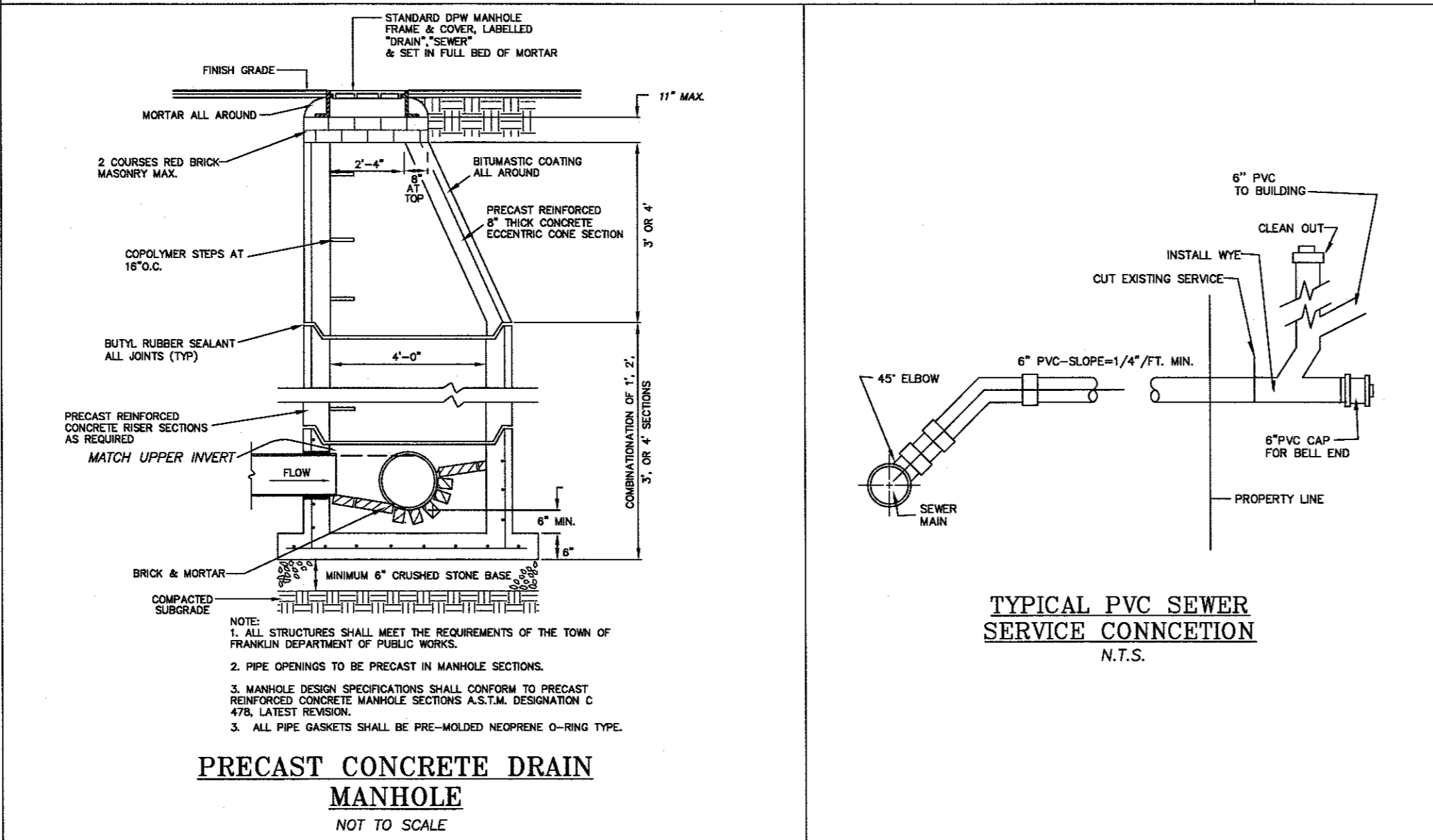
DATE	REVISION DESCRIPTION

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55 WEST CENTRAL ST. PH. (508) 528-3221  
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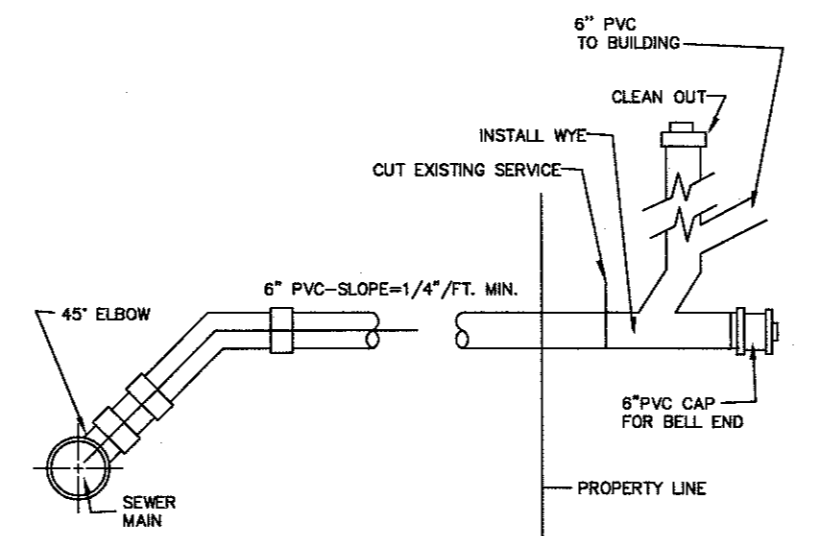


**TYP. PRECAST CONCRETE CATCH BASIN DETAIL**  
NOT TO SCALE

**NOTE:**  
ALL STRUCTURES SHALL BE SUITABLE FOR H=20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.



**PRECAST CONCRETE DRAIN MANHOLE**  
NOT TO SCALE



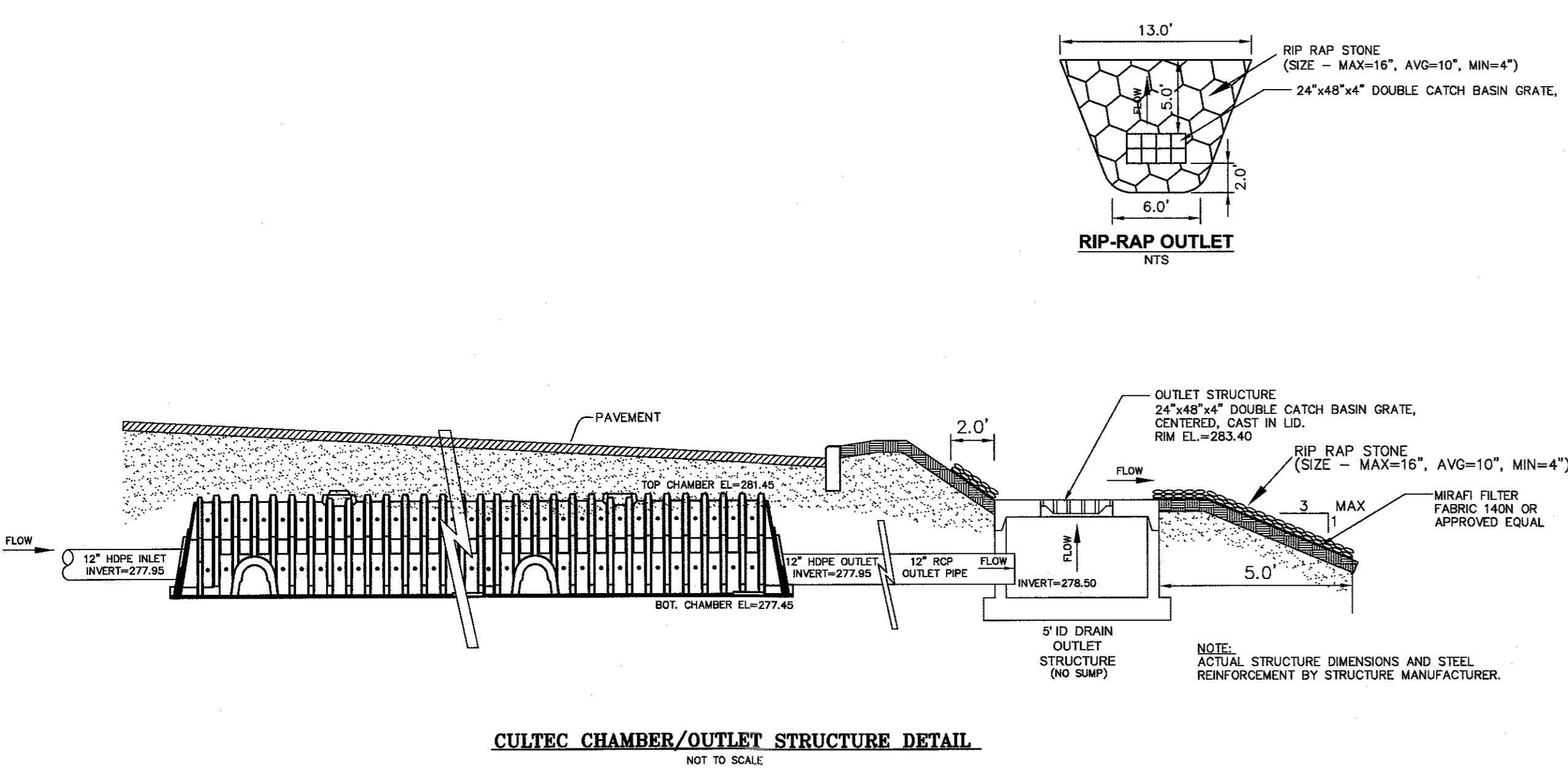
**TYPICAL PVC SEWER SERVICE CONNECTION**  
N.T.S.

**NYLOPLAST 18" DRAIN BASIN: 2818AG \_X**

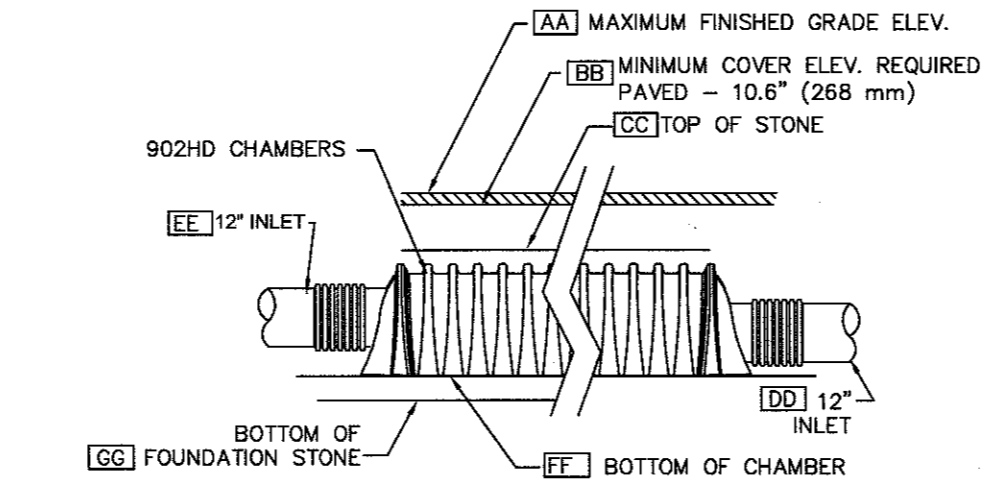
**GRATE OPTIONS**

GRATE	LOAD RATING	PART #	DRAWING #
PRECIPITATION	INVERTS 15-20	18B00CP	1061-1102-01
STANDARD	INVERTS 15-20	18B00	1061-1102-02
SOLID COVER	INVERTS 15-20	18B00C	1061-1102-04
NOISE	INVERTS 15-20	18B00N	1061-1102-03
DRIP TRAY/SLAT	LIGHT DUTY	18B03	1061-1102-05

**NYloplast**  
310 VERONA AVE.  
MILWAUKEE, WI 53212  
PH: (414) 764-4400  
FAX: (414) 764-4401  
www.nyloplast.com



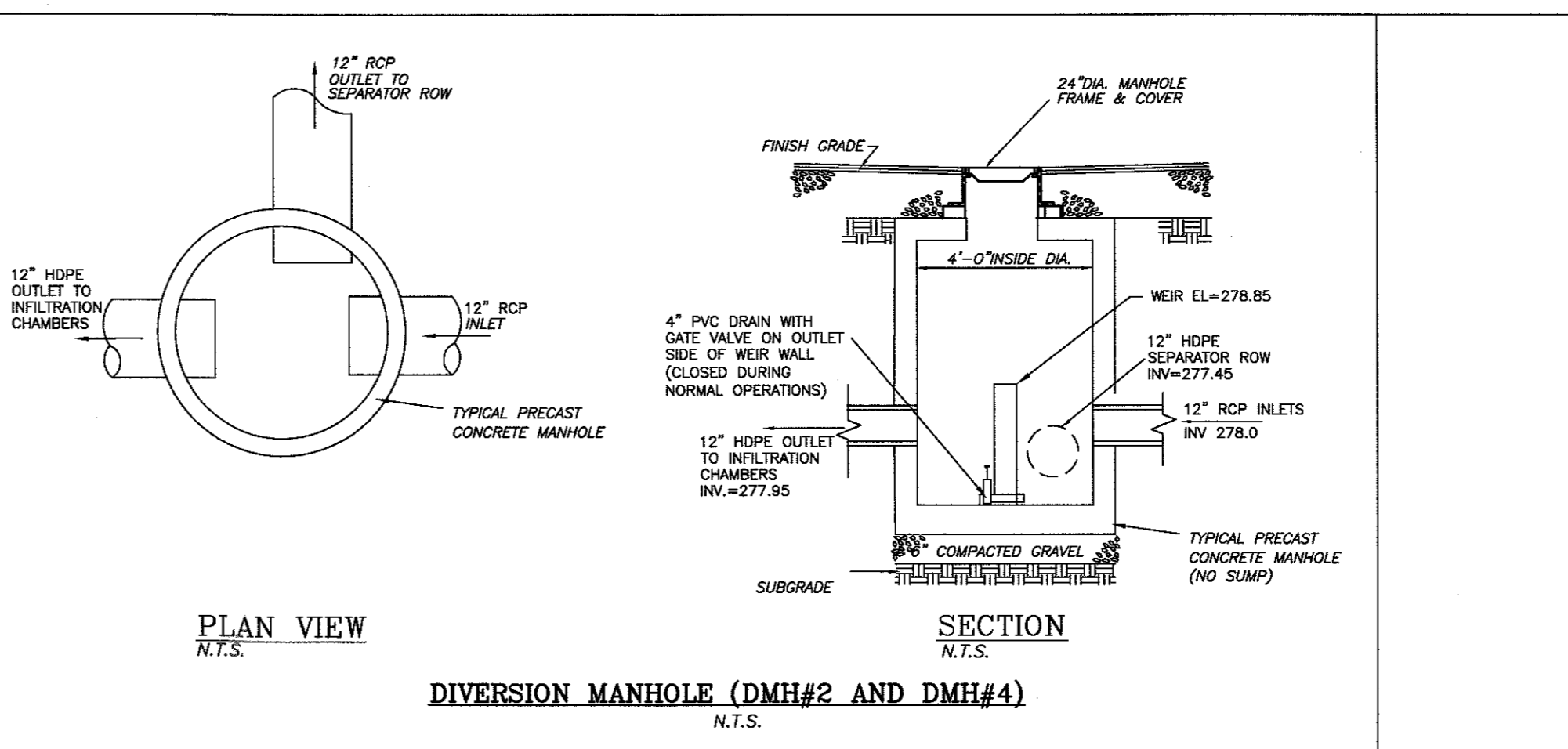
**CULTEC CHAMBER/OUTLET STRUCTURE DETAIL**  
NOT TO SCALE



AA	MAXIMUM FINISHED GRADE ELEV.	285.10
BB <td>MINIMUM COVER ELEV.</td> <td>283.70</td>	MINIMUM COVER ELEV.	283.70
CC <td>TOP OF STONE</td> <td>282.45</td>	TOP OF STONE	282.45
DD <td>12" OUTLET</td> <td>277.95</td>	12" OUTLET	277.95
EE <td>12" INLET</td> <td>277.95</td>	12" INLET	277.95
FF <td>BOTTOM OF CHAMBER</td> <td>277.45</td>	BOTTOM OF CHAMBER	277.45
GG <td>BOTTOM OF FOUNDATION STONE</td> <td>276.70</td>	BOTTOM OF FOUNDATION STONE	276.70
HH <td>ESTIMATED GROUNDWATER</td> <td>N/A</td>	ESTIMATED GROUNDWATER	N/A

- NOTES:**
- CHAMBERS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE STORMWATER REPORT FOR INSTALLATION INSTRUCTIONS AND DETAILS.
  - ISOLATOR ROW TO BE PROVIDED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

**CULTEC 902HD CHAMBER SYSTEM ELEVATIONS**  
NOT TO SCALE



**PLAN VIEW**  
N.T.S.

**SECTION**  
N.T.S.

**DIVERSION MANHOLE (DMH#2 AND DMH#4)**  
N.T.S.

**CULTEC RECHARGER 902HD<sup>®</sup> SPECIFICATIONS**  
**GENERAL**  
 CULTEC RECHARGER<sup>®</sup> 902HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

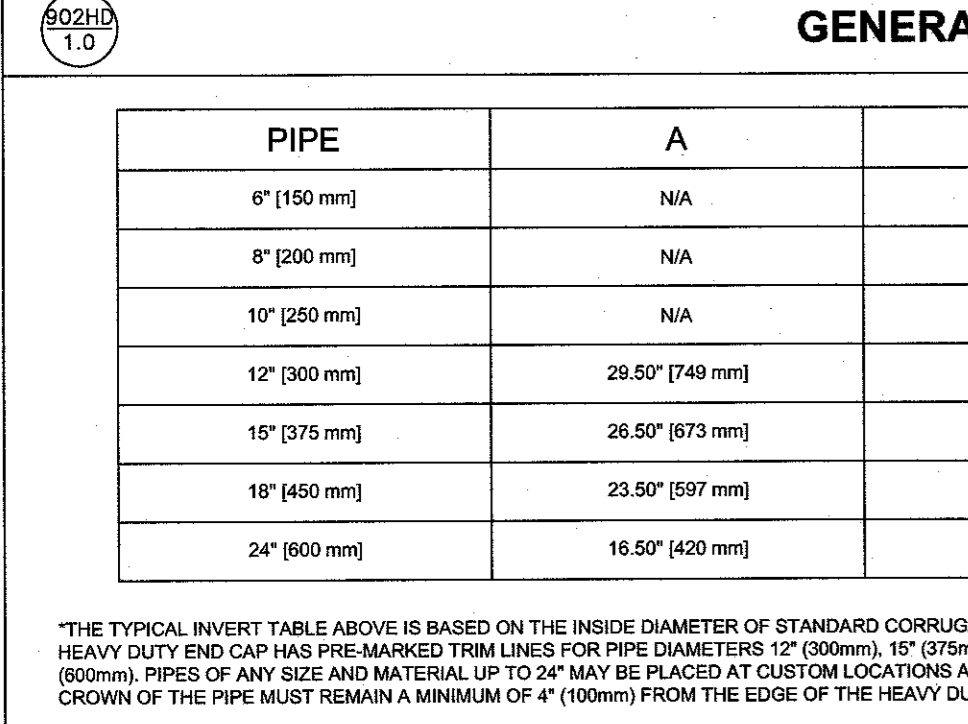
**CHAMBER PARAMETERS**  
 1. THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).  
 2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:  
 A. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER  
 B. MAXIMUM PERMANENT (60-YEAR) COVER LOAD  
 C. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD  
 3. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".  
 4. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:  
 A. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430  
 B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75  
 C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95  
 5. THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.  
 6. THE CHAMBER SHALL BE ARCHED IN SHAPE.  
 7. THE CHAMBER SHALL BE OPEN-BOTTOMMED.  
 8. THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.  
 9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER<sup>®</sup> 902HD SHALL BE 48 INCHES (1219MM) TALL, 78 INCHES (1981MM) WIDE AND 4.25 FEET (1.30 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 902HD SHALL BE 3.07 FEET (1.12 M).  
 10. MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER<sup>®</sup> 902HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (762MM) HOPE OR 36 INCHES (914MM) PVC.  
 11. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV<sup>™</sup> FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (254MM) HOPE AND 12 INCHES (305MM) PVC.  
 12. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV<sup>™</sup> FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305MM) TALL, 16 INCHES (406MM) WIDE AND 49 INCHES (1245MM) LONG.  
 13. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 902HD CHAMBER SHALL BE 17.31 FT<sup>3</sup> (1.81 M<sup>3</sup>) / (1.81 M<sup>3</sup>) / (1.81 M<sup>3</sup>) WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 902HD SHALL BE 65.47 FT<sup>3</sup> (1.86 M<sup>3</sup>) / (1.86 M<sup>3</sup>) WITHOUT STONE.  
 14. THE NOMINAL STORAGE VOLUME OF THE HVLV<sup>™</sup> FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> (0.085 M<sup>3</sup>) / (0.085 M<sup>3</sup>) WITHOUT STONE.  
 15. THE RECHARGER 902HD CHAMBER SHALL HAVE 4 CORRUGATIONS.  
 16. THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 8 INCH (150MM) INSPECTION PORT OPENING AT THE TOP CENTER OF EACH CHAMBER, CENTERED ON THE CORRUGATION CREST.  
 17. THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.  
 18. MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 8.3 FEET (2.53 M).

**END CAP PARAMETERS**  
 1. THE CULTEC RECHARGER<sup>®</sup> 902HD END CAP (REFERRED TO AS END CAP) SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).  
 2. THE END CAP SHALL BE TWIN-SHEET THERMOFORMED OF VIRGIN HIGH MOLECULAR WEIGHT POLYETHYLENE.  
 3. THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.  
 4. THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 48.5 INCHES (1231MM) TALL, 78 INCHES (1981MM) WIDE AND 8.7 INCHES (246MM) LONG. WHEN JOINED WITH A RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157MM).  
 5. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.34 FT<sup>3</sup> (0.50 M<sup>3</sup>) / (0.50 M<sup>3</sup>) WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 2.78 FT<sup>3</sup> (0.28 M<sup>3</sup>) / (0.28 M<sup>3</sup>) WITHOUT STONE.  
 6. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (762MM) HOPE OR 36 INCHES (914MM) PVC.  
 7. THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

**GENERAL NOTES**

PIPE	A	B
6" [150mm]	N/A	N/A
8" [200mm]	N/A	N/A
10" [250mm]	N/A	N/A
12" [300mm]	28.50" [749mm]	2.25" [57mm]
15" [375mm]	26.50" [673mm]	2.25" [57mm]
18" [450mm]	23.50" [597mm]	2.50" [64mm]
24" [600mm]	16.50" [420mm]	3.00" [76mm]

"THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MARKED TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 15" (375mm), 18" (450mm) AND 24" (600mm). PIPES OF ANY SIZE AND MATERIAL UP TO 24" MAY BE PLACED AT CUSTOM LOCATIONS AND CROWN INVERTS. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 4" (100mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.



**CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS**

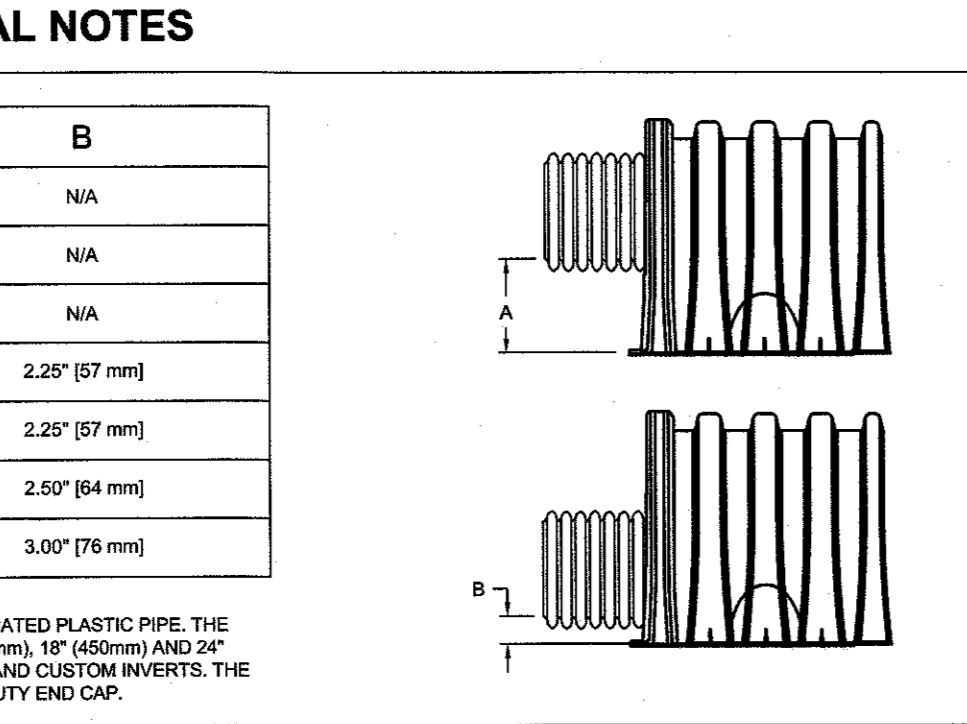
**CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS**  
**GENERAL**  
 CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 902HD STORMWATER CHAMBERS.

**FEED CONNECTOR PARAMETERS**  
 1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)  
 2. THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).  
 3. THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.  
 4. THE FEED CONNECTOR SHALL BE OPEN-BOTTOMMED.  
 5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305MM) TALL, 16 INCHES (406MM) WIDE AND 49 INCHES (1245MM) LONG.  
 6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup> / FT (0.085 M<sup>3</sup> / M) - WITHOUT STONE.  
 7. THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.  
 8. THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.  
 9. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 DEFINED LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.  
 10. THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY

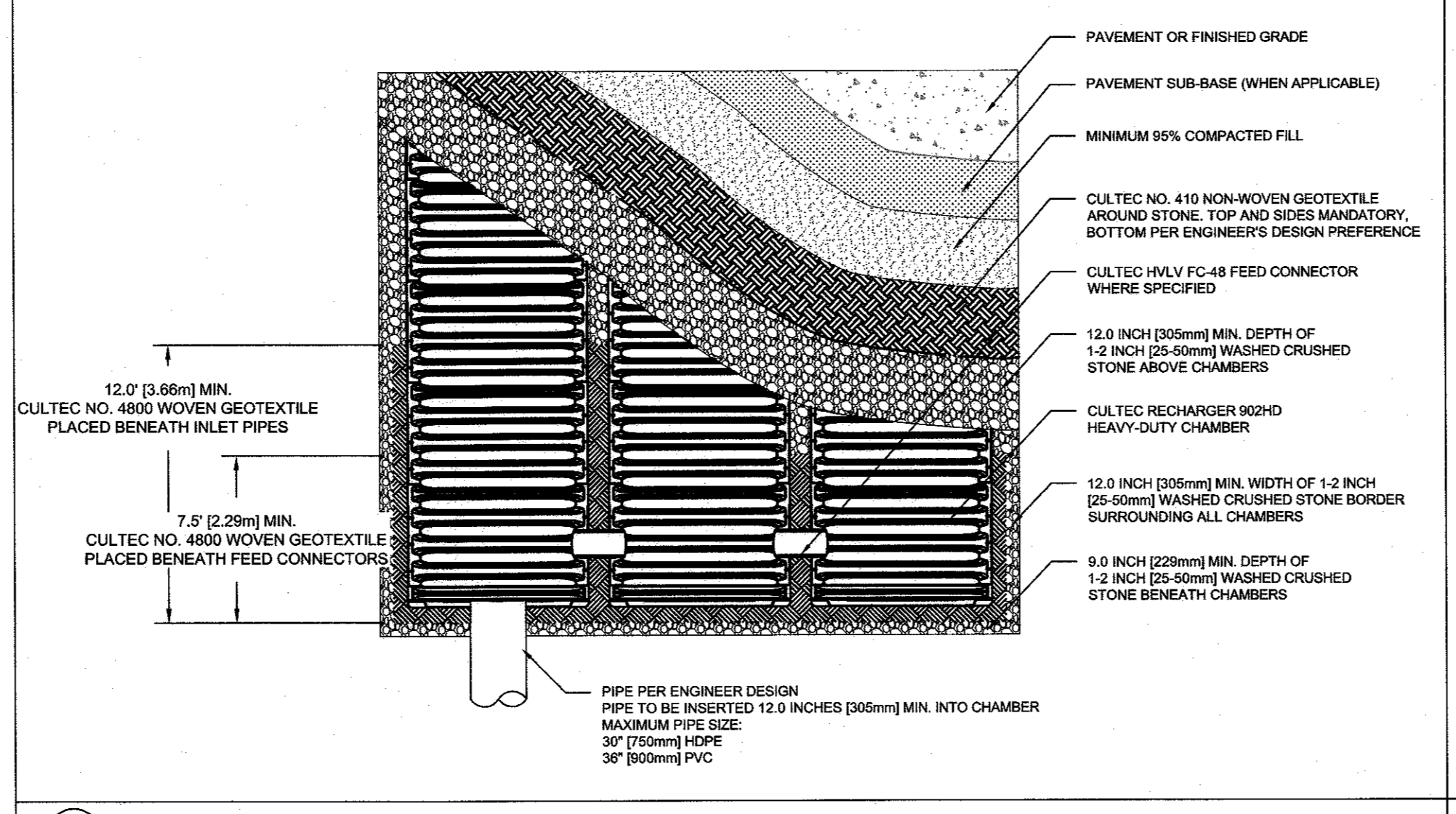
**GEOTEXTILE PARAMETERS**  
 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832)  
 2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.  
 3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 GM).  
 4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (53 N) PER ASTM D4632 TESTING METHOD.  
 5. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.  
 6. THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSF (1051 KPA) PER ASTM D3786 TESTING METHOD.  
 7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4632 TESTING METHOD.  
 8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.  
 9. THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.  
 10. THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U .3. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.  
 11. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.  
 12. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 LPM/M2) PER ASTM D4491 TESTING METHOD.  
 13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4555 TESTING METHOD.

**CULTEC NO. 4800<sup>™</sup> WOVEN GEOTEXTILE**  
 CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.

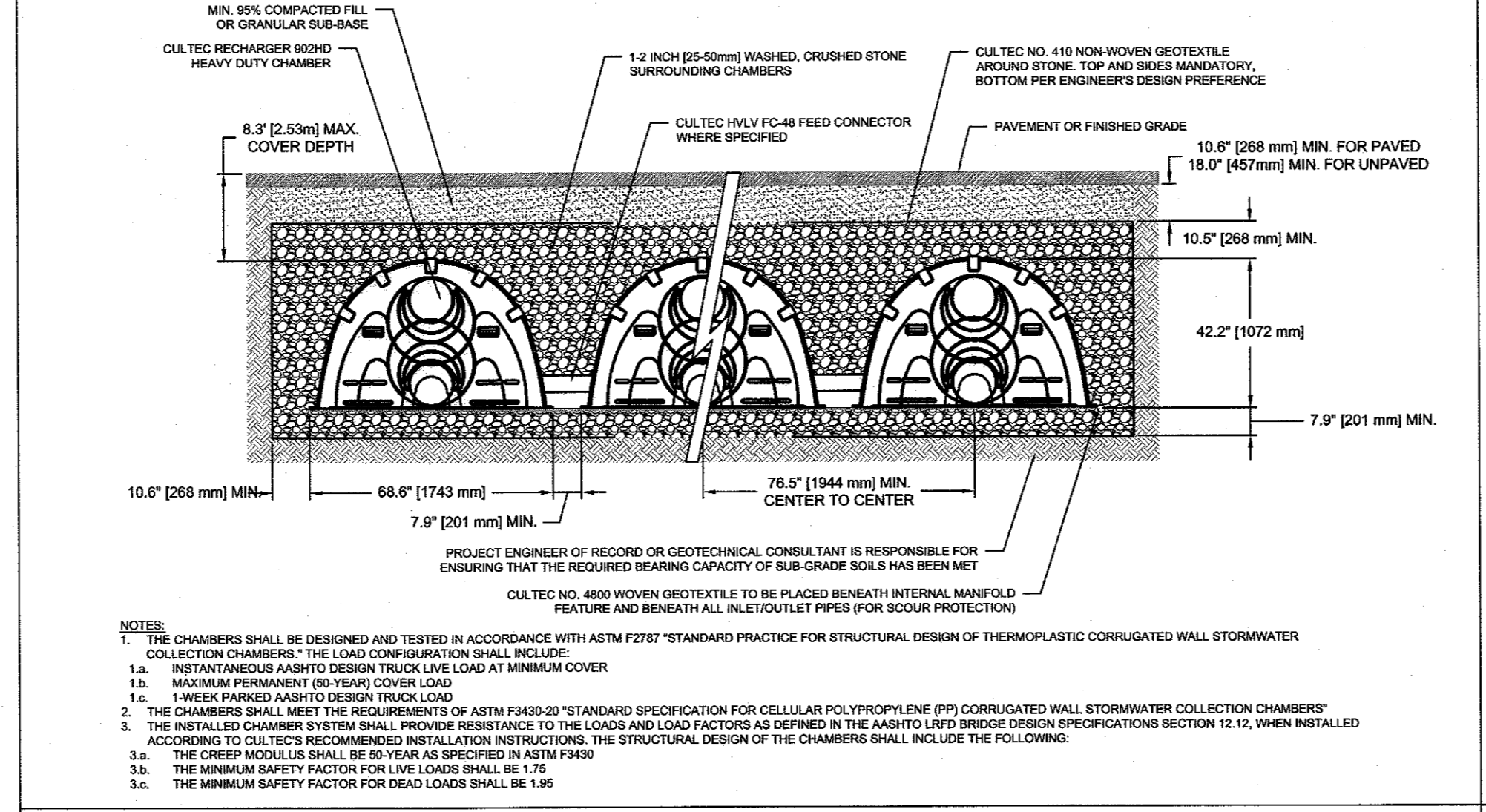
**GEOTEXTILE PARAMETERS**  
 1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832)  
 2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.  
 3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.  
 4. THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK RESISTANCE OF 20 X 20% PER ASTM D4632 TESTING METHOD.  
 5. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 5,070 X 6,070 LBS/FT (74 X 74 KN/M) PER ASTM D4595 TESTING METHOD.  
 6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 900 X 1,096 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.  
 7. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 5% STRAIN OF 2,740 X 2,740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.  
 8. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.  
 9. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,590 N) PER ASTM D6241 TESTING METHOD.  
 10. THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.  
 11. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.  
 12. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.16 SEC-1 PER ASTM D4491 TESTING METHOD.  
 13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT<sup>2</sup> (470 LPM/M2) PER ASTM D4491 TESTING METHOD.  
 14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4555 TESTING METHOD.



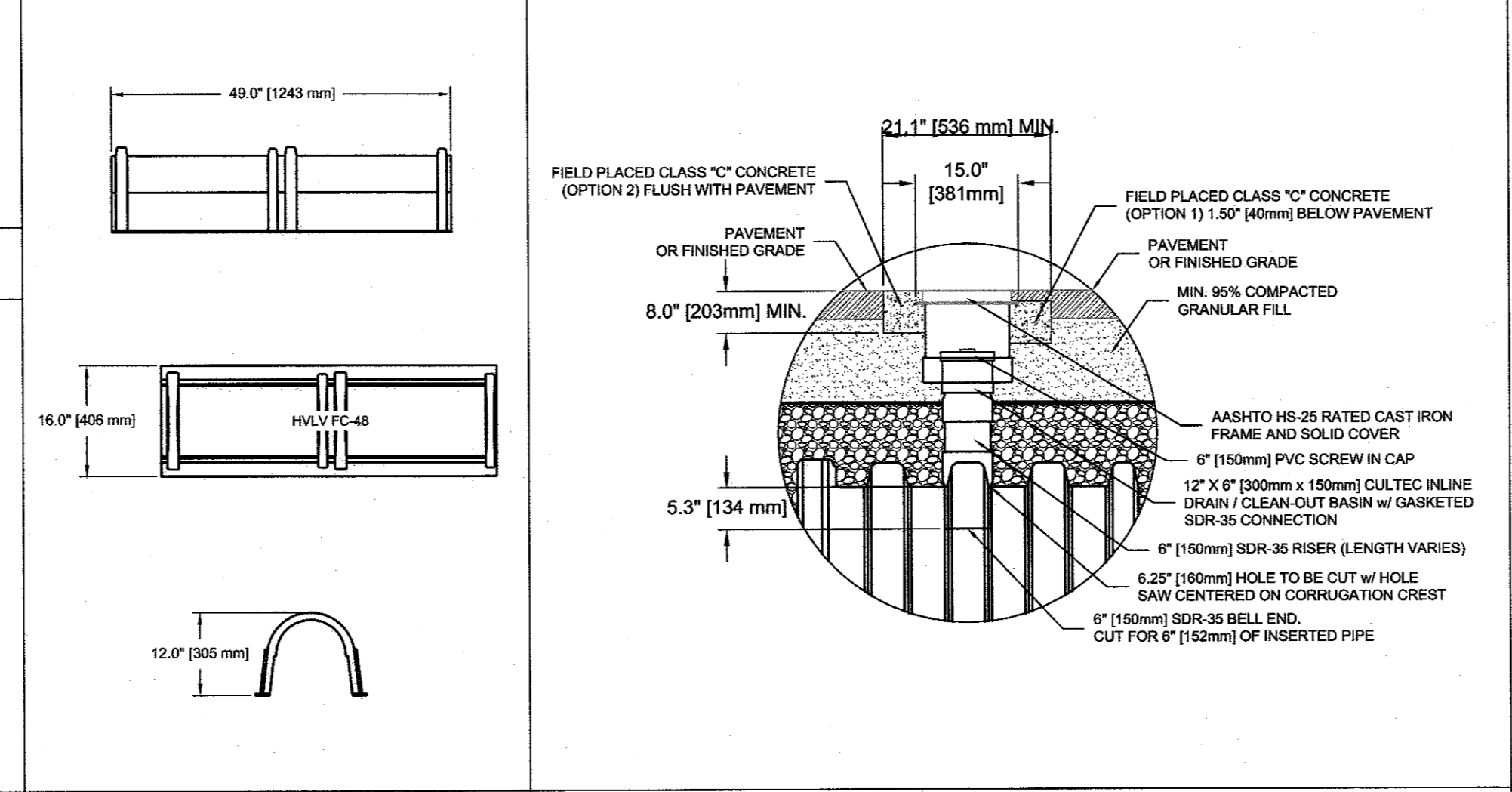
**CULTEC RECHARGER 902HD HEAVY DUTY PLAN VIEW**



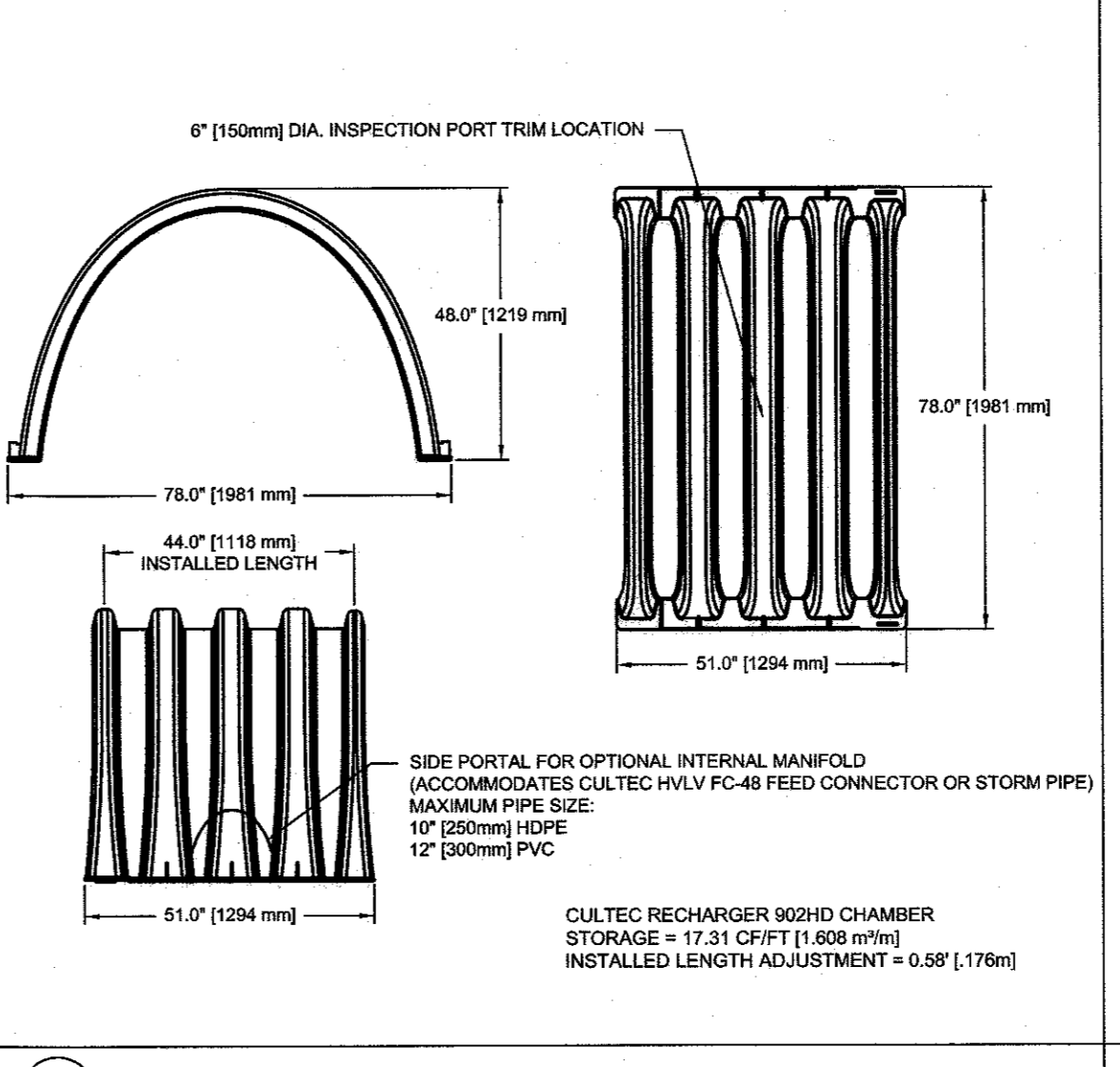
**CULTEC RECHARGER 902HD HEAVY DUTY CROSS SECTION**



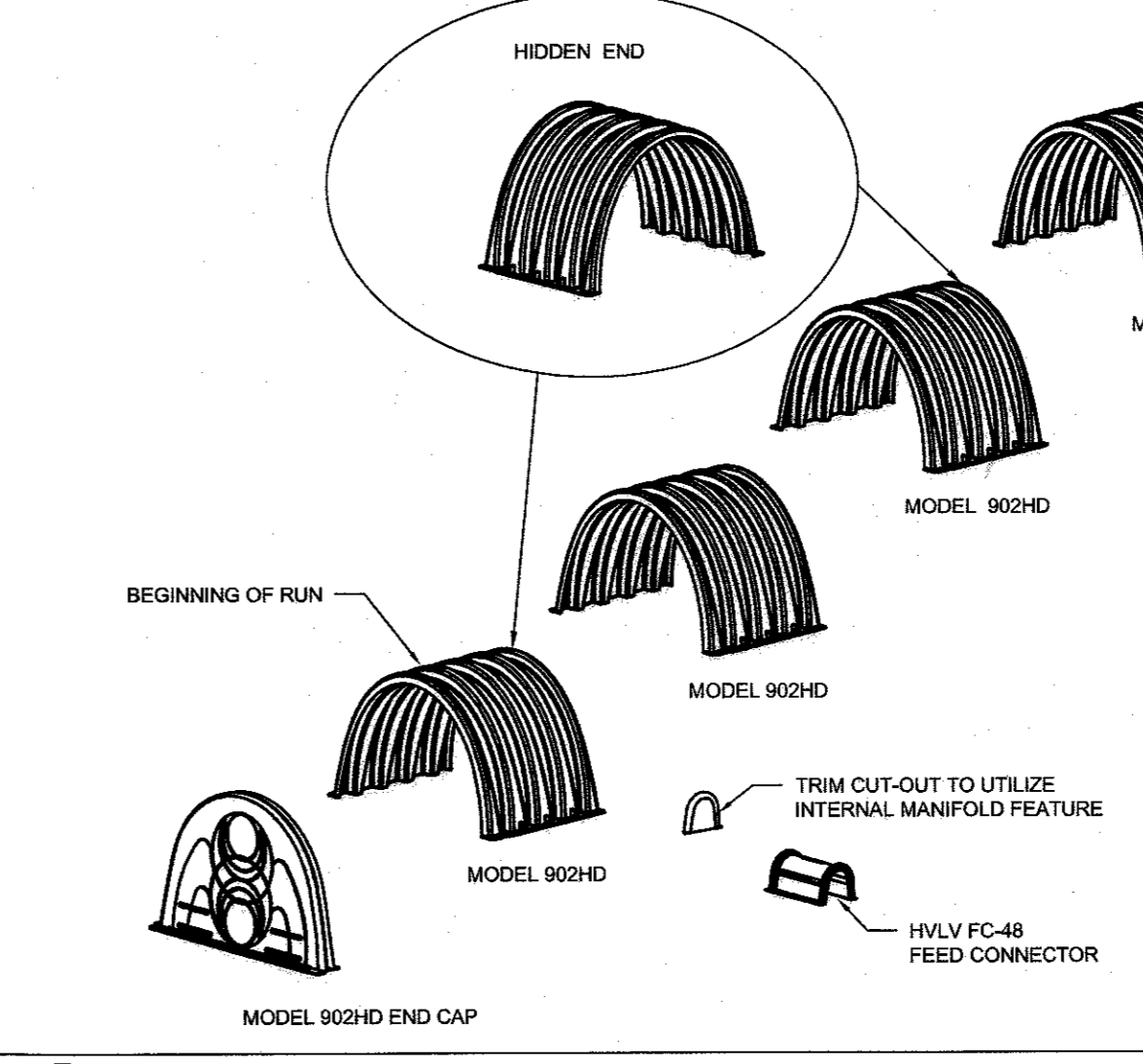
**CULTEC RECHARGER 902HD HEAVY DUTY TYPICAL INTERLOCK**



**CULTEC HVLV FC-48 FEED CONNECTOR THREE VIEW**



**CULTEC RECHARGER 902HD HEAVY DUTY THREE VIEW**



**CULTEC RECHARGER 902HD HEAVY DUTY OPTIONAL INSPECTION PORT DETAIL**

APPROVED DATE: \_\_\_\_\_

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE. TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 92 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT (888)DIG-SAFE[7233].

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

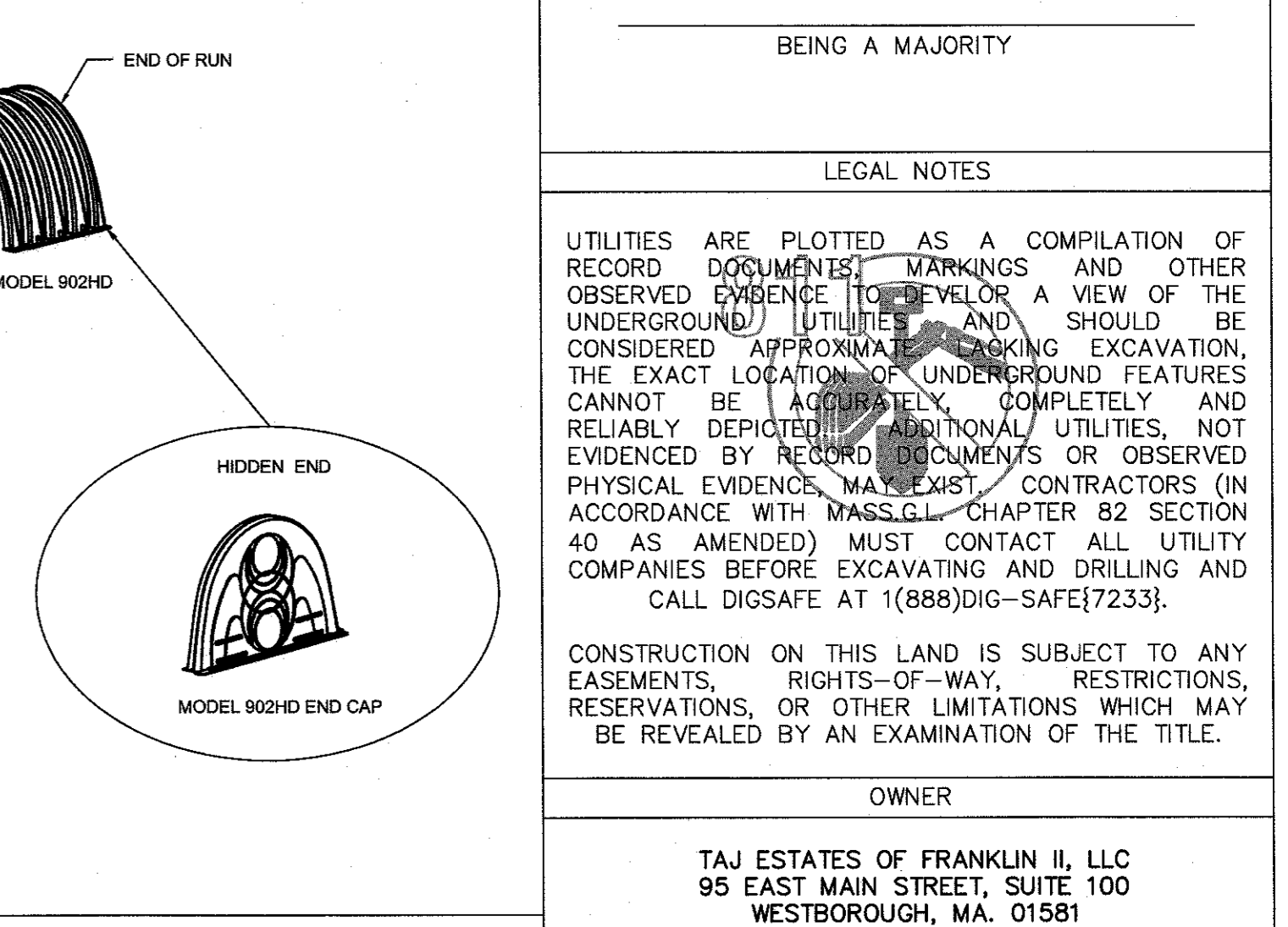
TAJ ESTATES OF FRANKLIN II, LLC  
 95 EAST MAIN STREET, SUITE 100  
 WESTBOROUGH, MA. 01581

OWNER/APPLICANT

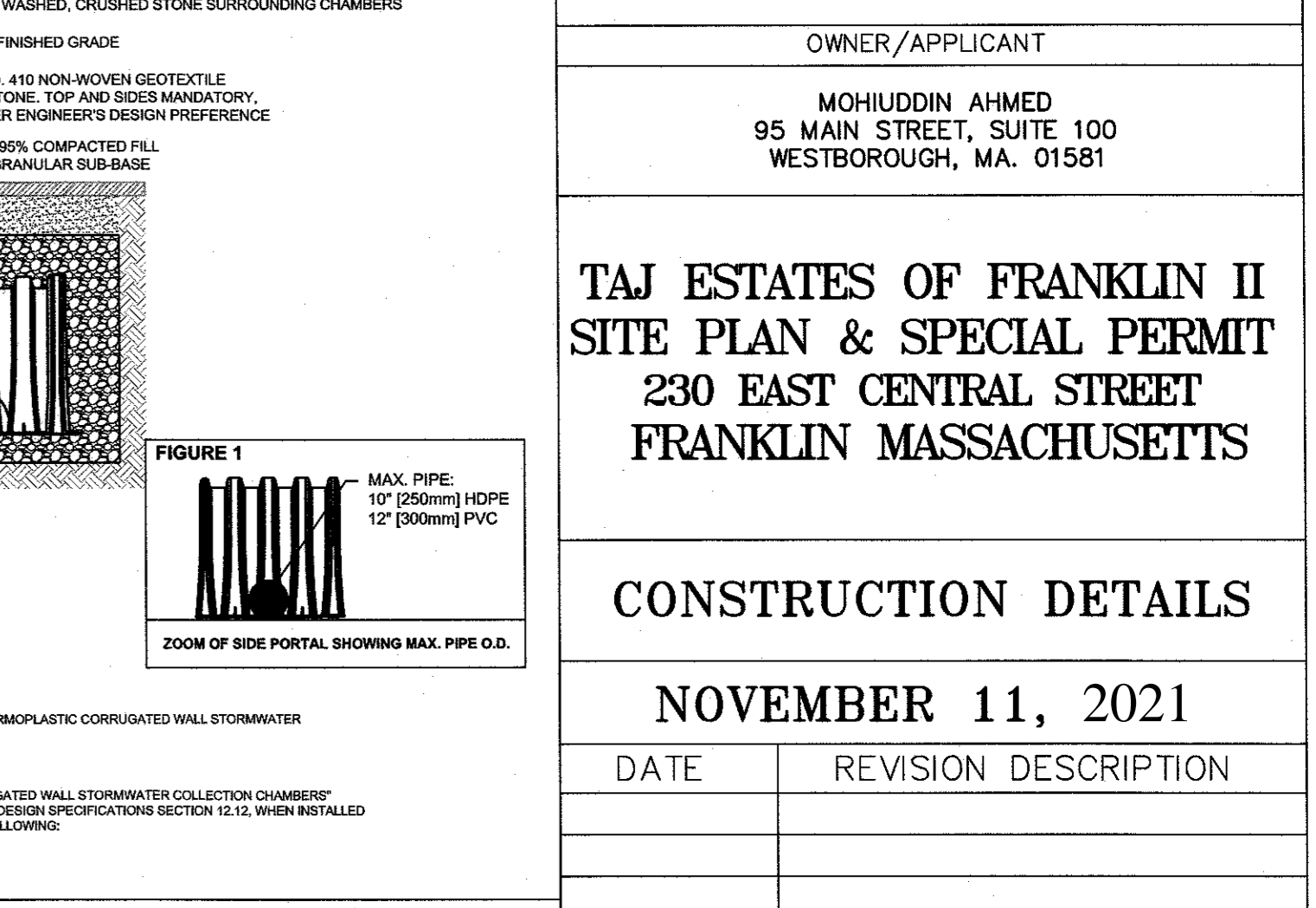
DEED BOOK 40009 PAGE 445  
 ASSESSORS MAP 285 LOT 069

MOHUDDIN AHMED  
 95 MAIN STREET, SUITE 100  
 WESTBOROUGH, MA. 01581

**CULTEC RECHARGER 902HD HEAVY DUTY END CAP THREE VIEW**



**CULTEC RECHARGER 902HD HEAVY DUTY END CAP THREE VIEW**



**CULTEC RECHARGER 902HD HEAVY DUTY INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL**

**TAJ ESTATES OF FRANKLIN II  
 SITE PLAN & SPECIAL PERMIT  
 230 EAST CENTRAL STREET  
 FRANKLIN MASSACHUSETTS**

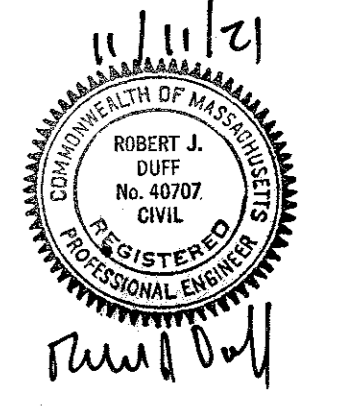
**CONSTRUCTION DETAILS**

**NOVEMBER 11, 2021**

DATE	REVISION DESCRIPTION

SHEET	NO	OF	TOTAL	JOB NO.	NO
	11	OF	12	F4478	

**Guerriere & Halnon, Inc.**  
 ENGINEERING & LAND SURVEYING  
 55 WEST CENTRAL ST. PH. (508) 528-3221  
 FRANKLIN, MA 02038 FX. (508) 528-7921  
 www.gandhengineering.com

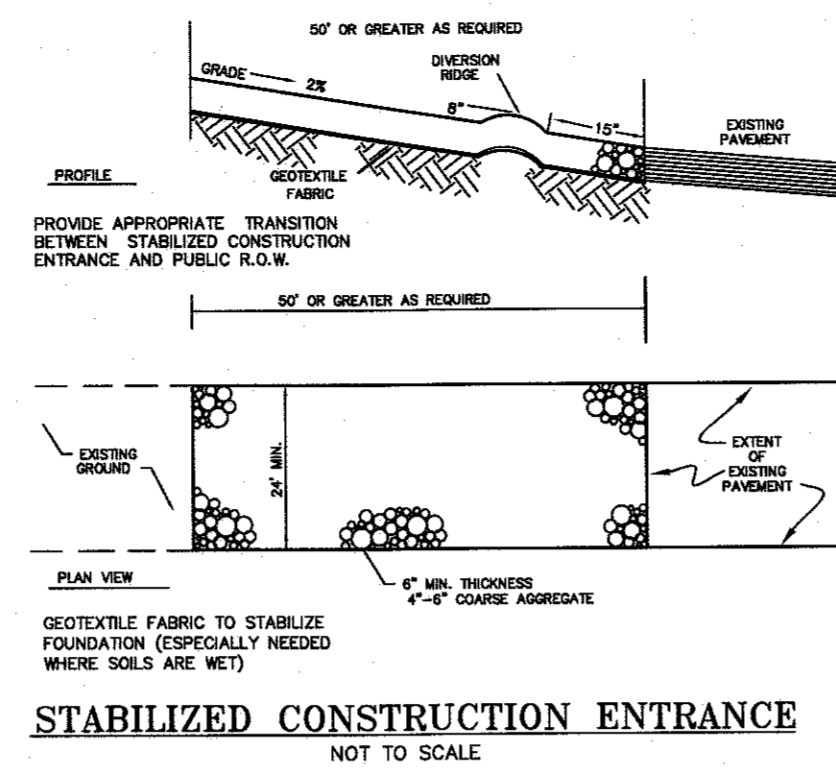


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**EROSION CONTROL NOTES:**

1. TAKE EVERY PRECAUTION TO MINIMIZE AND CONTROL EROSION WITHIN THE PROJECT AREA.
2. STOCKPILES OF EXCAVATED MATERIALS AND EXPOSED CUT AND FILL SLOPES SHALL BE KEPT TO MINIMUM GRADIENTS WHENEVER POSSIBLE. THESE AREAS SHALL BE PROTECTED WITH HAY, MULCH, GRASS SEED OR COMBINATION OF THE ABOVE TO SLOW DOWN THE RATE OF SURFACE RUN-OFF AND TO REDUCE THE VOLUME OF SUSPENDED SOLIDS IN THE RUN OFF WATER.
3. SILTATION BARRIERS SHALL BE STAKED IN PLACE DOWN GRADIENT FROM ALL EXPOSED AREAS OR MATERIAL STORAGE AREAS IN ORDER TO REDUCE THE AMOUNT OF SUSPENDED SOLIDS IN RUNOFF WATER. THE EXACT LOCATION OF THE SILTATION BARRIERS MAY VARY FROM THAT SHOWN ON THE PLANS AND MAY BE ADJUSTMENT IN THE FIELD AS WORK PROGRESSES. SEDIMENTATION BUILDUP OVER SIX INCHES IN DEPTH THAT ACCUMULATES BEHIND THE SILTATION BARRIERS SHALL BE REMOVED. BARRIERS SHALL BE CHECKED AFTER EVERY STORM AND AT REGULAR WEEKLY INTERVALS.
4. SILTATION BARRIER SHALL BE INSTALLED WITH WOODEN STAKES IN ACCORDANCE WITH MANUFACTURER DIRECTIONS. BOTTOM 6 INCHES OF FABRIC SHALL BE TOED IN OR BACKFILLED SO THAT TOP OF FABRIC SHALL BE 2 FEET 6 INCHES ABOVE FINISH GRADE.
5. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE LOAMED (4" MIN.) AND SEEDED IN ORDER TO MINIMIZE DUST AND EROSION.
6. FILTER FABRIC IS TO BE PLACED UNDER ALL RIP-RAP AREAS SHOWN ON DESIGN PLANS.
7. EROSION CONTROL BARRIERS ARE TO BE PLACED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
8. THE PROPOSED STORMWATER BASIN IS TO BE UTILIZED AS A SEDIMENTATION POND DURING CONSTRUCTION. IT IS TO BE CONSTRUCTED FIRST IN ORDER TO CONTROL / PREVENT SILTATION FROM DISCHARGING FROM THE SITE AND/OR DISTURBING WETLAND AREAS.
9. ALL TEMPORARY SEDIMENT POND(S) AND SUMPS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION, INSPECTED PRIOR TO AND AFTER STORM EVENTS AND CLEANED AS NEEDED.
10. TEMPORARY BERM SHALL BE PLACED ALONG THE ENTIRE EDGE OF ROADWAY WITH THE BINDER COURSE AND SHALL REMAIN IN PLACE UNTIL FINISH COURSE IS PLACED.



11/11/21  
 ROBERT J. DUFF  
 No. 40702  
 CIVIL  
 PROFESSIONAL ENGINEER  
 State of Massachusetts  
 Robert J. Duff

F4478

APPROVED DATE: \_\_\_\_\_  
 FRANKLIN PLANNING BOARD  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 BEING A MAJORITY

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 FRANKLIN MASSACHUSETTS**

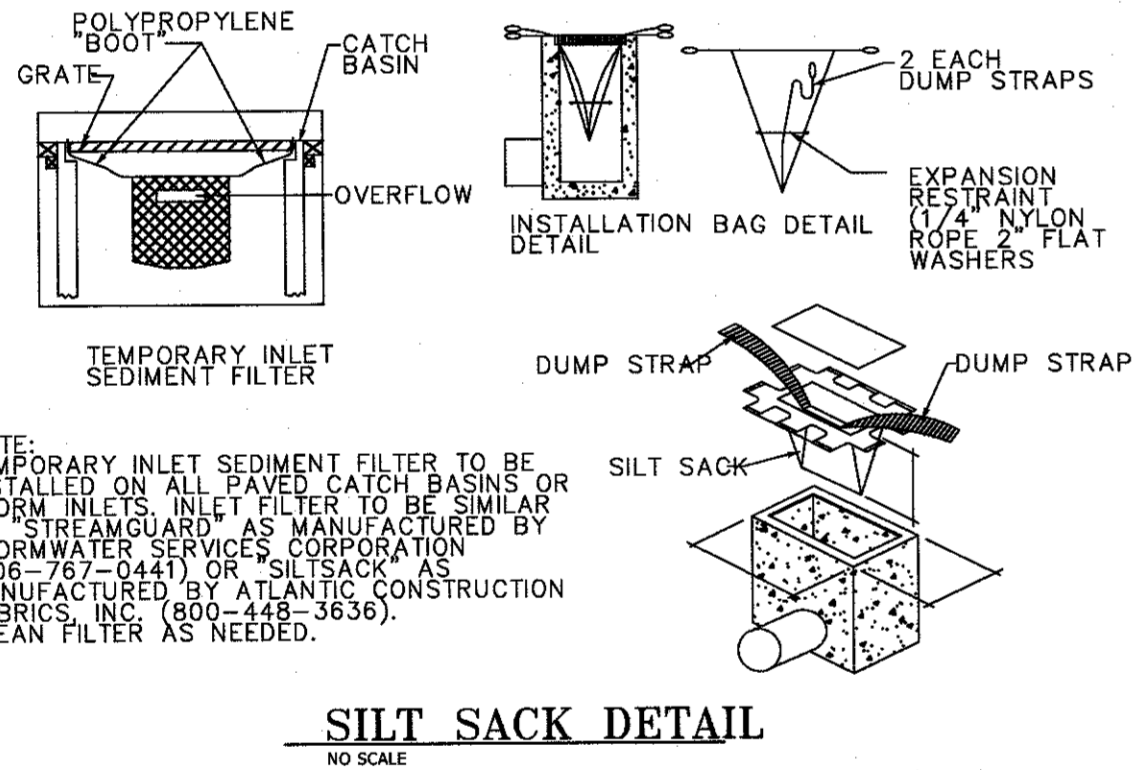
**CONSTRUCTION DETAILS**

**NOVEMBER 11, 2021**

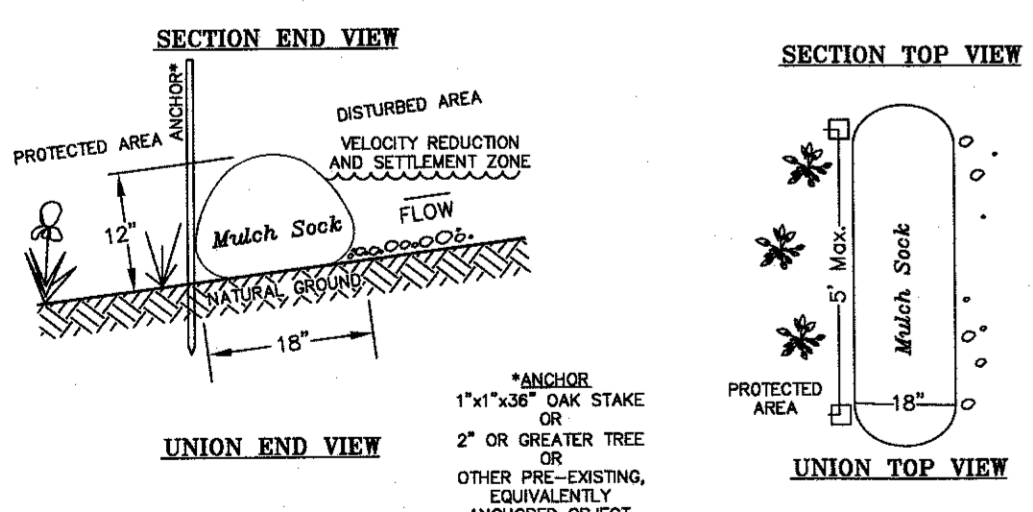
DATE	REVISION DESCRIPTION

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 55 WEST CENTRAL ST. PH. (508) 528-3221  
 FRANKLIN, MA 02038 FX. (508) 528-7921  
 www.gandhengineering.com

SHEET 12 OF 12 JOB NO. F4478



**NOTE:**  
 TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. THIS FILTER TO BE SIMILAR TO STREAMGUARD AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (708-757-0441) OR SILT SACK AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.



1. WHERE SECTION ENDS MEET, THERE SHALL BE AN OVERLAP OF 6" OR GREATER. BOTH SIDES SHALL BE ANCHORED (OAK STAKES, TREES, ETC.) TO STABILIZE THE UNION.
  2. NO ADDITIONAL ANCHORS ARE REQUIRED ON SLOPES LESS THAN 2:1.
  3. ADDITIONAL ANCHORS ARE REQUIRED AT 5' INTERVALS (MAX.) ON THE DOWNSLOPE OR PROTECTED SIDE ON SLOPES GREATER THAN 2:1 TO PREVENT MOVEMENT.
- Mulch Stock COMPONENTS:**
- OUTSIDE CASING: 100% organic heather.
  - FILLER INGREDIENT: FiberRoot Mulch. A blend of coarse and fine compost and shredded wood.
  - Particle sizes: 100% passing a 3" screen; 90-100% passing a 1" screen; 70-100% passing a 0.75" screen; 30-75% passing a 0.25" screen.
  - Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./f.t.)