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

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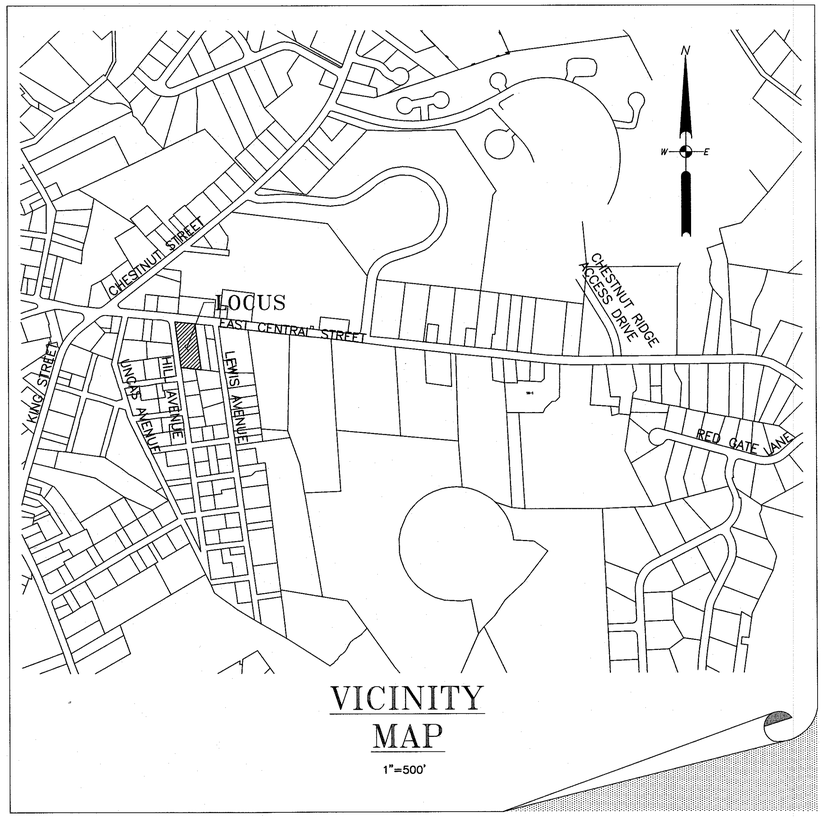

VICINITY MAP

1"=500'

PURPOSE OF PLAN

1. SITE PLAN AND SPECIAL PERMIT APPROVAL TO CONSTRUCT A MULTIFAMILY BUILDING WITH IN THE COMMERCIAL I ZONING DISTRICT.

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. LACKING 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

APPLICANT

TAJ ESTATES OF FRANKLIN II, LLC
MOHIUDDIN AHMED, MANAGER
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WESTBOROUGH, MA. 01581

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FRANKLIN MASSACHUSETTS

COVER SHEET

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS – REV1
01/28/22	TOWN COMMENTS – REV2
02/17/22	TOWN COMMENTS – REV3
04/12/22	ADDED RET. WALL – REV4
05/31/22	TOWN COMMENTS – REV5
7/14/22	TOWN COMMENTS – REV6

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SHEET 1 OF 12

JOB NO. F4478

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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.

COMMERCIAL I[7]

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'[15]
MINIMUM YARDS	
FRONT	20'[1]
SIDE	10'[14]
REAR	15'
% OF LOT UPLAND COVERED BY:	
STRUCTURES	80
STRUCTURES+PAVING	90**

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

[7] 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.

[14] 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 ABUTTING SIDE.

[15] 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

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
GM	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE	x 000.0	SPOT ELEVATION
WV	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

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 — SOIL EVALUATOR DON NIELSEN

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

DTH#1 (285.3)		
Ap L.	284.3	0"-12"
Bw L.S. 7.5Y5/4	282.3	12"-36"
C1 M.S. 10YR	280.3	36"-60"
C2 M.S. 10YR4/4	277.3	60"-96"

DTH#2 (285.2)		
Ap L.	283.2	0"-24"
Bw L.S. 7.5Y5/4	281.7	24"-42"
C1 F.S. 10YR5/6	278.2	42"-84"
C2 M.S. 10YR5/3	272.2	84"-156"

MOIST BOT HOLE NO G.W. NO MOTTLES

DTH#3 (284.6)		
Ap L.	283.1	0"-18"
Bw L.S.	281.9	18"-32"
C1 S.L.	277.6	32"-84"
C2 M./F.S. 10YR5/3	272.6	84"-144"

NO G.W. MOTTLES 32"-54"

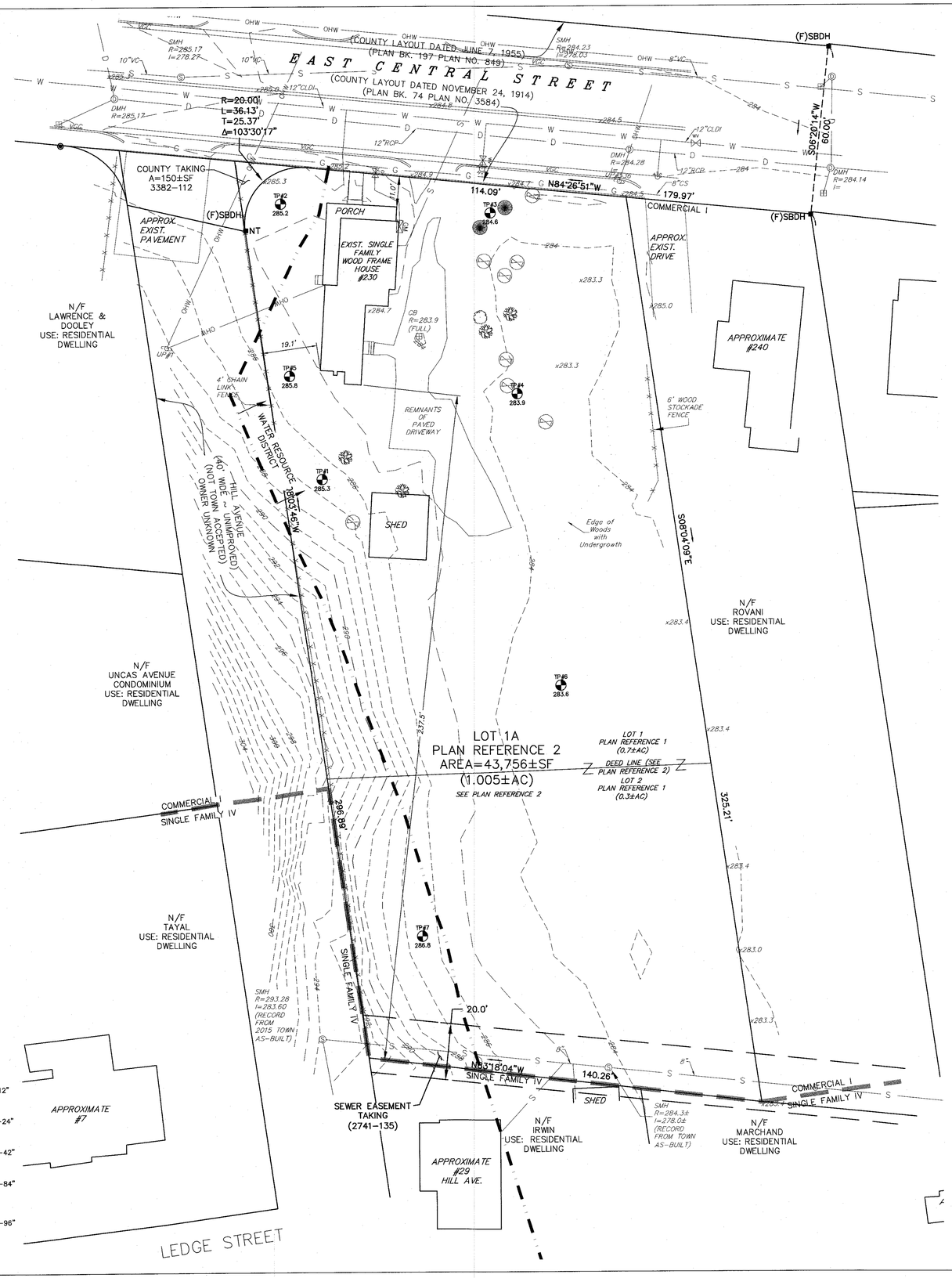
DTH#4 (283.9)		
Ap L.	282.4	0"-18"
Bw L.S.	281.4	18"-30"
C1 S.L.	280.4	30"-42"
C2 F.S. 10YR5/6	278.9	42"-60"
C3 M./C.S. 10YR5/3 F.S. 10YR5/6	272.6	60"-136"

NO G.W. NO MOTTLES

DTH#5 (285.8)		
Ap L.	285.0	0"-10"
Bw L.S.	283.2	10"-32"
C1 L.S.	281.8	32"-48"
C2 F./M.S. 10YR5/6	280.8	48"-60"
C3 M.S. 10YR5/3 SOME STONES	277.8	60"-96"

DTH#6 (283.6)		
Ap L.	282.6	0"-12"
Bw L.S.	281.6	12"-24"
C1 L.S.	279.6	24"-48"
C2 F./M.S. 10YR5/6	273.6	48"-120"
C3 M.S. 10YR5/3 SOME STONES	272.6	120"-132"

DTH#7 (286.8)		
Ap L.	286.0	0"-12"
Bw L.S.	284.8	12"-24"
C1 L.S.	283.3	32"-42"
C2 F./M.S. 10YR5/6	279.8	42"-84"
C3 M.S. 10YR5/3 SOME STONES	278.8	84"-96"



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

EXISTING CONDITIONS

NOVEMBER 11, 2021

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GRAPHIC SCALE: 1"=20'

0 5 10 15 20 25 30 40 50 FEET
0 1 2 3 4 5 10 15 20 METERS

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SHEET 2 OF 12

JOB NO. F4478

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GENERAL EROSION CONTROL AND CONSTRUCTION NOTES

1. 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.
2. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL EVENT.
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION.
4. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION AND SEDIMENT CONTROLS FOUND TO BE FAULTY.
5. ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE BASINS SHALL BE REMOVED WEEKLY.
6. 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.
7. SEDIMENT BUILD UP BEHIND FILTERMITT SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR INCHES IN DEPTH.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
18. ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
19. EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED.

INTERIM EROSION CONTROL AND CONSTRUCTION SEQUENCE

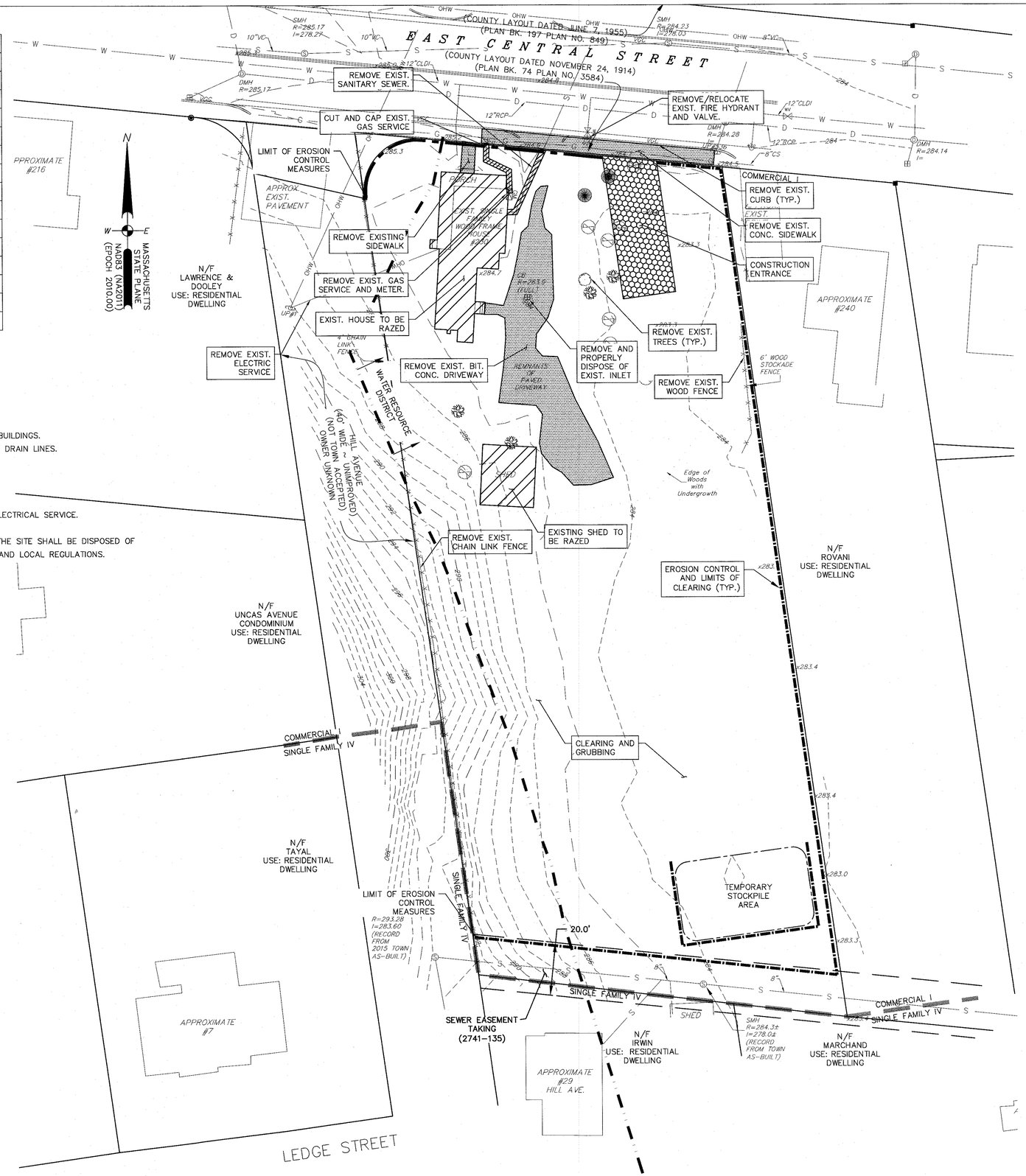
1. INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER INSPECT.
2. TEMPORARY STONE (3/4" – 1 ½") SHALL BE PLACED AT THE PROJECT ENTRANCE WHEN ACCESSING EXISTING PAVEMENT. SWEEPING IS REQUIRED IF FINES ARE OBSERVED IN THE PUBLIC WAYS.
3. RAZE THE EXISTING BUILDINGS, PAVEMENT, WALKWAYS, ETC
4. CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED.
5. STOCKPILE LOAM, OR REMOVE LOAM.
6. INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DRAINAGE SYSTEM.
7. BRING SITE TO SUB-GRADE.
8. ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY, IF DISTURBED.
9. ALL DISTURBED AREAS NOT TREATED WITH PERMANENT LOAM AND SEED SHALL BE COVERED WITH MULCH, OR OTHER EROSION CONTROL DEVISE.
10. ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED TO FLOW INTO THE TEMPORARY BASIN, WHERE POSSIBLE.
11. THE SITE MITIGATION OF EROSION IN THOSE AREAS TO BE LANDSCAPED OR MULCHED SHALL BE TO INSTALL AS SOON AS POSSIBLE.
12. 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.
13. ONCE THE CURB IS INSTALLED, THE PERMANENT MULCH AND LANDSCAPING SHALL BE INSTALLED.
14. SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.
15. CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING, TEMPORARY BASIN, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
16. KEEP SITE SWEPT AND MAINTAINED PER STORMWATER MANAGEMENT PLAN.

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
GM	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE	X 000.0	SPOT ELEVATION
WV	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		

DEMOLITION NOTE:

1. RAZE AND REMOVE ALL EXISTING PAVEMENT AND BUILDINGS.
2. REMOVE ALL EXISTING DRAINAGE STRUCTURES AND DRAIN LINES.
3. REMOVE EXISTING GAS METER
4. REMOVE AND RELOCATE EXISTING HYDRANT.
5. REMOVE ALL EXISTING LIGHTING
6. CAP EXISTING WATER SERVICE.
7. COORDINATE WITH NATIONAL GRID TO RELOCATE ELECTRICAL SERVICE.
8. CAP AND REMOVE EXISTING SEWER SERVICE.
9. ALL DEMOLITION DEBRIS THAT IS REMOVED FROM THE SITE SHALL BE DISPOSED OF PROPERLY PER ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.



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DEMOLITION & EROSION CONTROL PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
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GRAPHIC SCALE: 1"=20'

0 5 10 15 20 25 30 40 50 FEET
0 1 2 3 4 5 10 15 20 METERS

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SHEET 3 OF 12

JOB NO. F4478

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NOTES:

1. ALL SIGNAGE AND STRIPING TO CONFORM TO LATEST "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.
5. NO UTILITY COMPONENTS SHALL BE INSTALLED ON THE BUILDING ROOF OR AROUND THE EXTERIOR OF THE BUILDING.

ZONING DISTRICT
COMMERCIAL I[7]

	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[15]	2 STY	3 STY. 40FT.
MAX. % OF LOT UPLAND COVERED BY:			
STRUCTURES	80	1,742±SF (3.5%)	13,079±SF (29.9%)
STRUCTURES & PAVING	90*	3,930±SF (7.9%)	31,570±SF. (72.2%)
TOTAL AREA WITHIN THE WATER RESOURCE DISTRICT:			
WATER RESOURCE DISTRICT AREA: 38,590±SF	>80	3,930±SF (7.9%)	30,183±SF. (78.2%)
MIN. YARD SETBACKS			
FRONT	20 FT[1]	11.0 FT	18.9 FT
SIDE	10 FT[14]	19.1 FT	10.8/55.8 FT
REAR	15 FT	237.6 FT	90.0 FT

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

[7] 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.

[14] 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 ABUTTING SIDE.

[15] 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.

DWELLING/UNIT = 1 BEDROOM

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

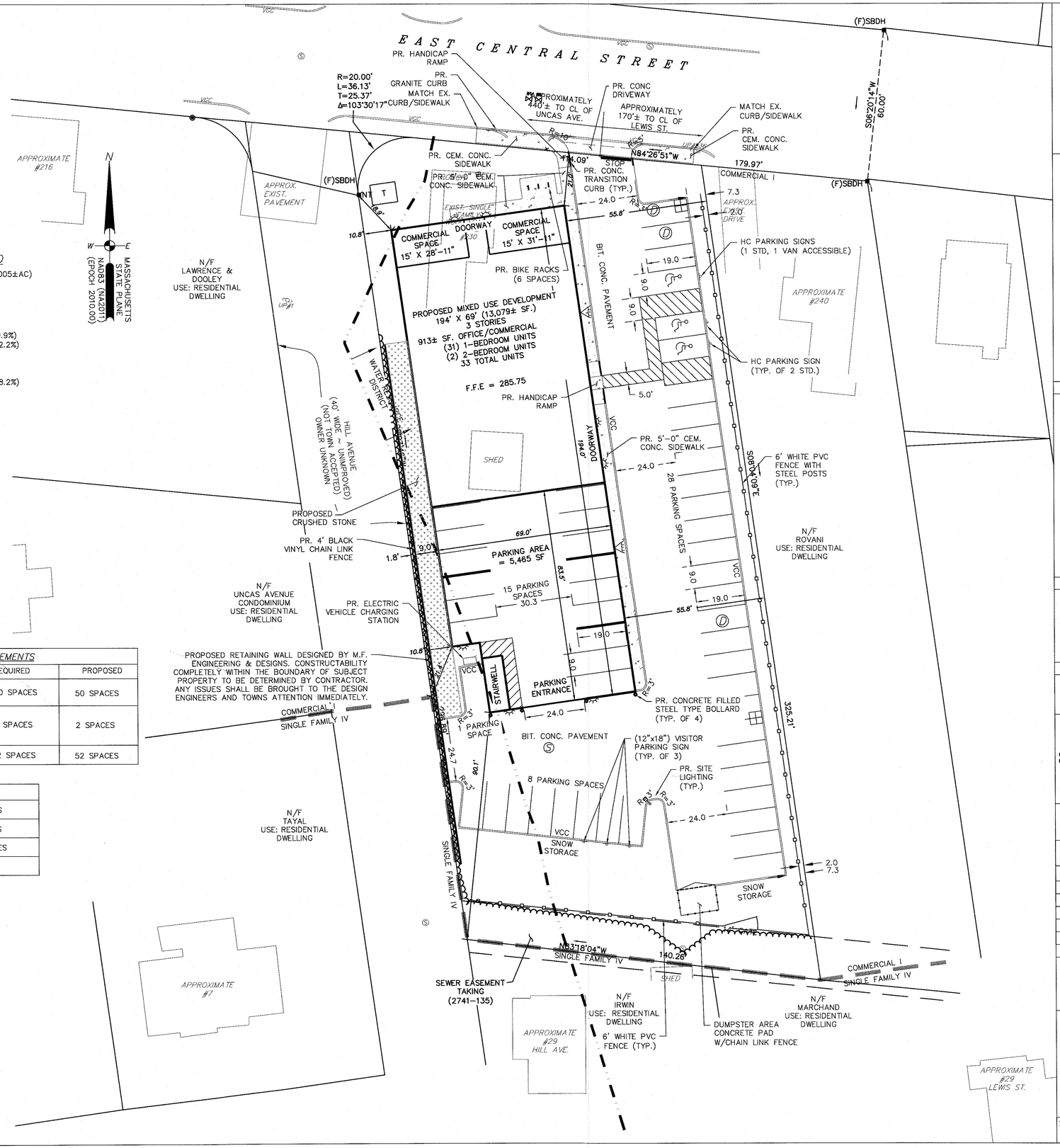
ALLOWED BY SPECIAL PERMIT – 43 UNITS
PROPOSED – 33 UNITS
(31) ONE BEDROOM UNITS
(2) TWO BEDROOM UNITS

PARKING REQUIREMENTS	REQUIRED	PROPOSED
RESIDENTIAL UNIT PARKING 1.5 SPACES PER UNIT (33 UNITS)	50 SPACES	50 SPACES
OFFICE PARKING 1 SPACE PER 500 SF. (TOTAL OFFICE SPACE = 913± SF.)	2 SPACES	2 SPACES
TOTAL SPACES	52 SPACES	52 SPACES

DESIGNATED PARKING	
VISITOR PARKING	3 SPACES
HANDICAP PARKING	3 SPACES
STANDARD PARKING	45 SPACES
ELECTRIC VEHICLE PARKING	1 SPACE

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
GM	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE	X 000.0	SPOT ELEVATION
WV	WATER VALVE		RIPRAP
	WATER SHUT OFF VALVE		PVC FENCE
	FIRE HYDRANT	VCC – VERTICAL CONCRETE CURB	
000		EXISTING CONTOUR	
D		EXISTING DRAIN LINE	
W		EXISTING WATER LINE	
G		EXISTING GAS LINE	
S		EXISTING SEWER LINE	



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APPROVED DATE:

FRANKLIN PLANNING BOARD

BEING A MAJORITY

LEGAL NOTES

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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

APPLICANT

TAJ ESTATES OF FRANKLIN II, LLC
MOHIUDDIN AHMED, MANAGER
95 EAST 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
01/17/22	TOWN COMMENTS – REV1
01/28/22	TOWN COMMENTS – REV2
02/17/22	TOWN COMMENTS – REV3
04/12/22	ADDED RET. WALL – REV4
05/31/22	TOWN COMMENTS – REV5
7/14/22	TOWN COMMENTS – REV6

GRAPHIC SCALE: 1"=20'

0 5 10 15 20 25 30 40 50 FEET
0 1 2 3 4 5 10 15 20 METERS

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SHEET 4 OF 12

JOB NO. F4478

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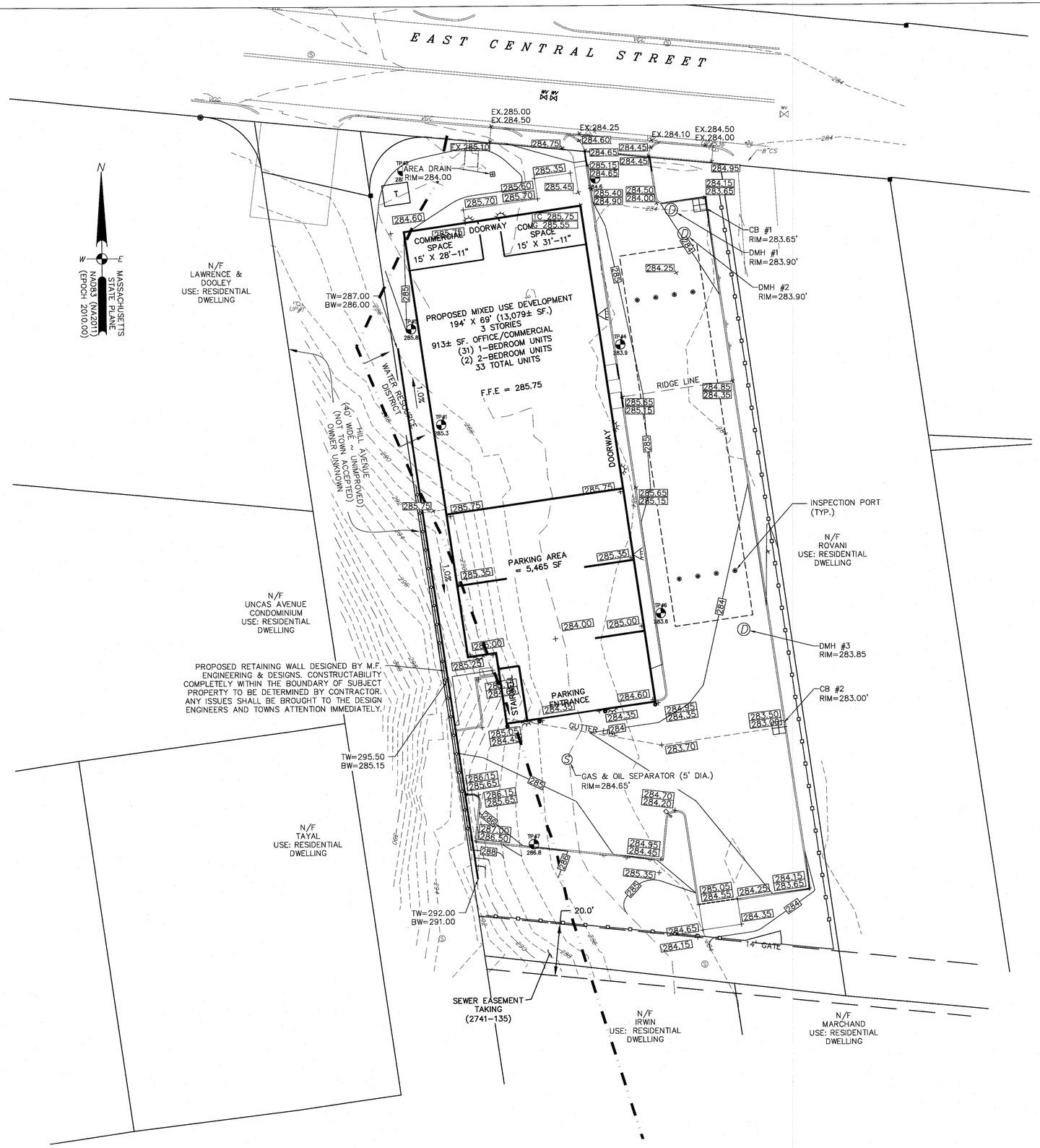

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
GM	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE	X 000.0	SPOT ELEVATION
WV	WATER VALVE		RIPRAP
	WATER SHUT OFF VALVE		PVC FENCE
	FIRE HYDRANT	VCC – VERTICAL CONCRETE CURB	
000	EXISTING CONTOUR		
D	EXISTING DRAIN LINE		
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TAJ ESTATES OF FRANKLIN II SITE PLAN & SPECIAL PERMIT 230 EAST CENTRAL STREET FRANKLIN MASSACHUSETTS

GRADING PLAN

NOVEMBER 11, 2021

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02/17/22	TOWN COMMENTS – REV3
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05/31/22	TOWN COMMENTS – REV5
7/14/22	TOWN COMMENTS – REV6

GRAPHIC SCALE: 1"=20'

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0 1 2 3 4 5 10 15 20 METERS

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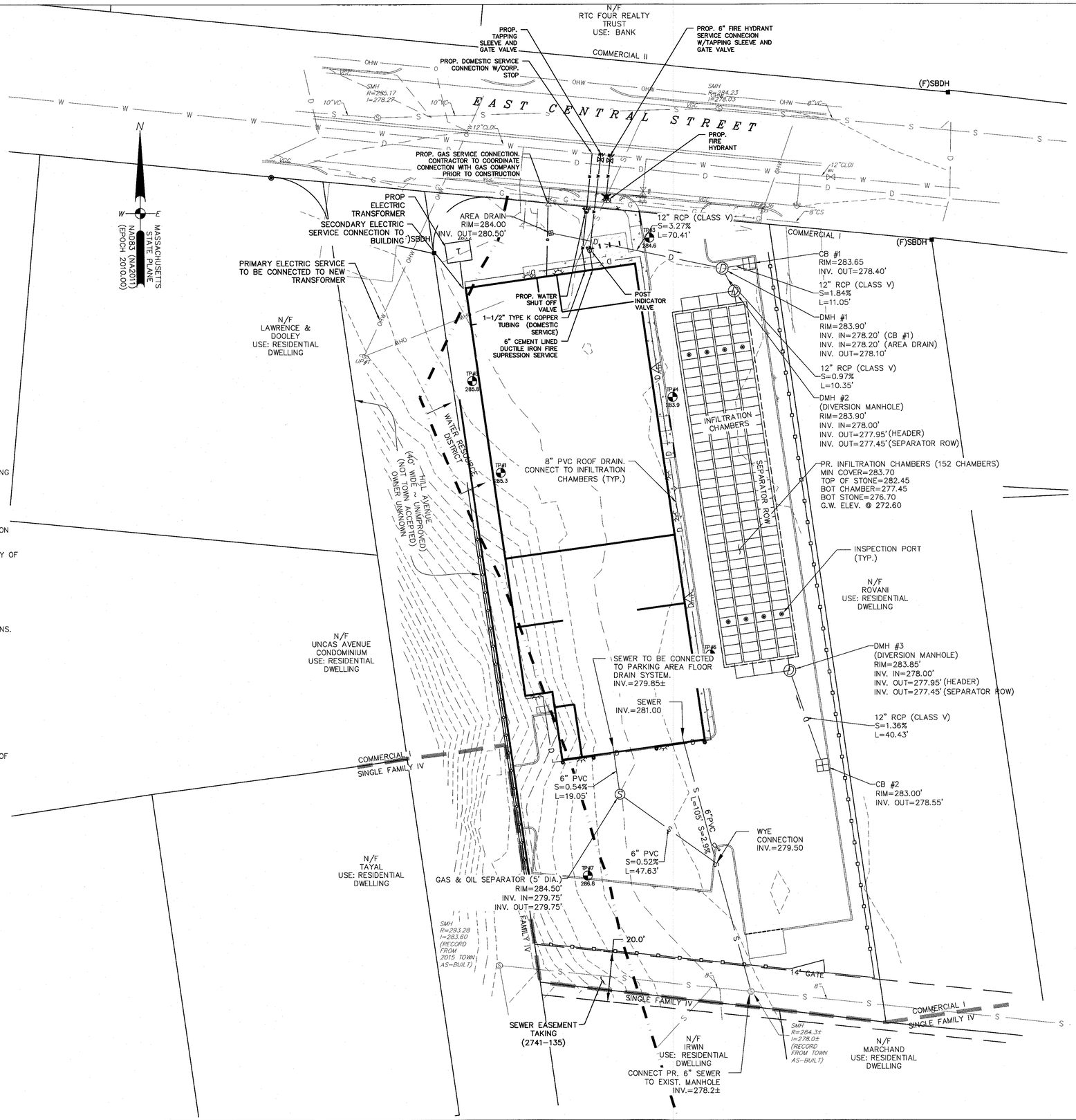

STORM DRAINAGE NOTES

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 DURING CONSTRUCTION. TO BE REMOVED AFTER SITE IS STABILIZED.
4. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
5. ALL PIPE GASKETS SHALL BE PRE-MOLDED NEOPRENE O-RING.

UTILITY NOTE

1. ALL UTILITIES SHALL BE CONSTRUCTED ACCORDING TO STATE AND LOCAL REGULATIONS.
2. ALL WATER AND SEWER MATERIALS AND TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE TOWN OF FRANKLIN DEPARTMENT OF PUBLIC WORKS.
3. CONTRACTOR IS TO VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.

SPECIAL UTILITY NOTE:

1. THE EXISTING ELECTRIC LINE AND GASLINES TO BE CAPPED AT THE PROPERTY LINE.
2. NATIONAL GRID WILL RELOCATE THE ELECTRIC SERVICE AS SHOWN AFTER APPROVAL OF THE SITE PLAN.
3. THE GAS LINE WILL BE INSTALLED BY EVERSOURCE GAS.

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
GV	GAS VALVE		UTILITY POLE
GM	GAS METER		PROP. STREET LIGHTING
	GAS SHUT OFF VALVE	X 000.0	SPOT ELEVATION
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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

UTILITY PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
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7/14/22	TOWN COMMENTS – REV6

GRAPHIC SCALE: 1"=20'

0 5 10 15 20 25 30 40 50 FEET
0 1 2 3 4 5 10 15 20 METERS

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SHEET 6 OF 12

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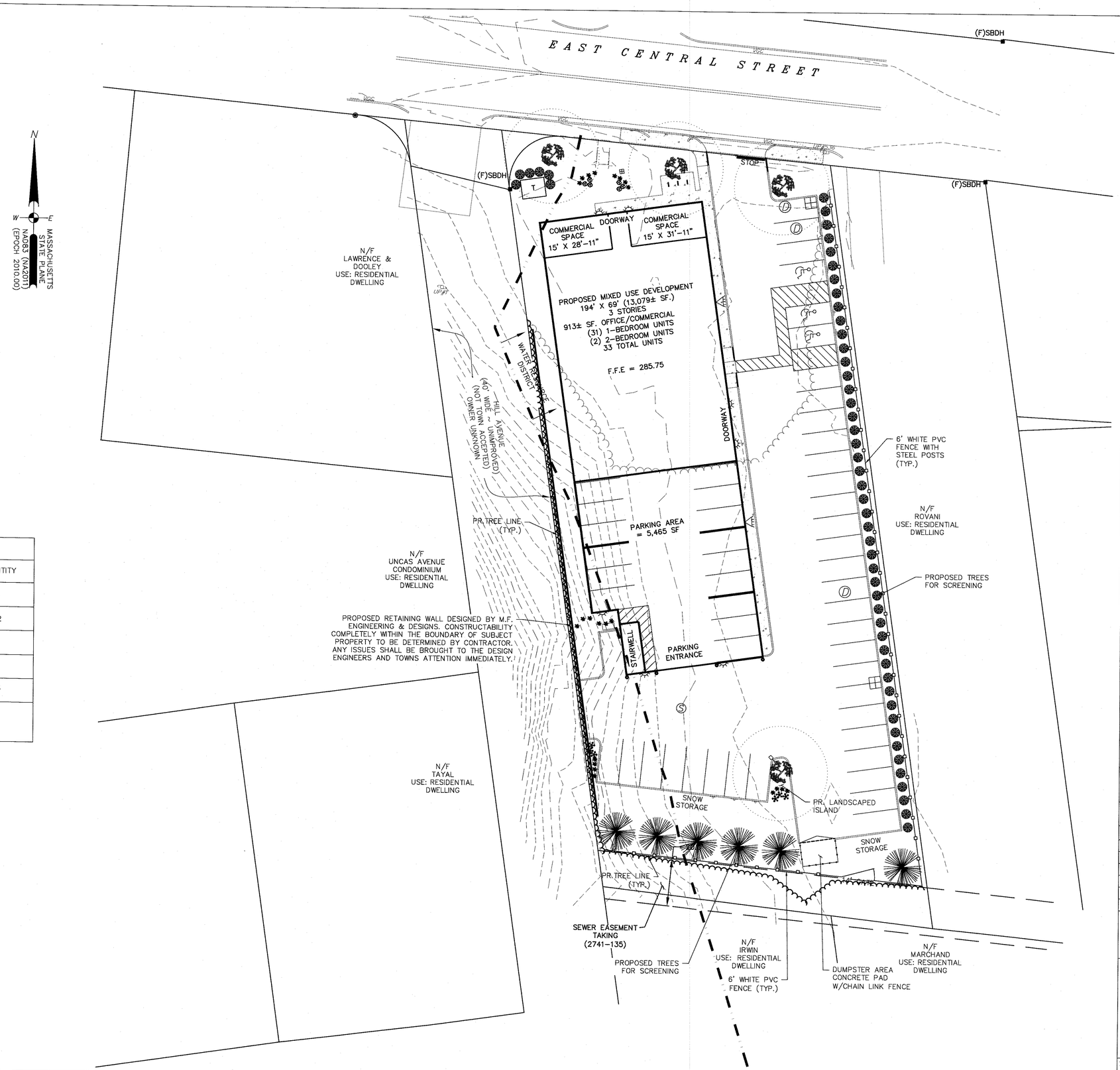

PLANTING LEGEND

SYMBOL	NAME	SIZE	QUANTITY
	RED MAPLE ACER RUBRUM MATURE HEIGHT= 40±' DIA.=40±'	4' MIN. 2.5" CAL.	4
	JUNIPER PLUMROSA COMPACTA	3 GAL.	22
	HERMOCADIS DAYLILIES	2 GAL.	6
	RHODODENDRON RHODODENDRON-KEISKEI	3 GAL.	6
	PYRAMIDAL ARBORVITAE THUJA OCCIDENTALIS PYRAMIDALIS MATURE HEIGHT TO 25±' DIA.=4±'	3 GAL.	53
	GREEN GIANT ARBORVITAE THUJA STANDISHII X PLICATA MATURE HEIGHT TO 60' DIA.TO 20'	4' MIN. 2.5" CAL.	6

LEGEND

	CATCH BASIN		LIGHT POLE
	DRAIN MANHOLE		UTILITY POLE
	ELECTRIC MANHOLE		GUY WIRE
	SEWER MANHOLE		SIGN
	MANHOLE		WETFLAG
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LANDSCAPING PLAN

NOVEMBER 11, 2021

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01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3
04/12/22	ADDED RET. WALL - REV4
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SHEET 7 OF 12

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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. IT'S VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMIN MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINANCE 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 ARCHITECHURAL WALL SCONCE MOUNTING HEIGHT 9.5'

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
GV	GAS VALVE		UTILITY POLE
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W		EXISTING WATER LINE	
G		EXISTING GAS LINE	
S		EXISTING SEWER LINE	

D-Series Size 1
LED Wall Luminaire

Buy American

d^series

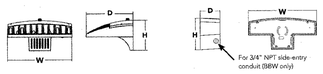
Specifications

Luminaire

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

Back Box (BBW, E20WC)

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



Catalog Number
Notes
Type

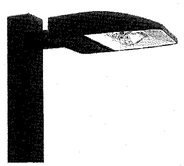
Hit the Tab key or mouse over this page to see all interactive elements.

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

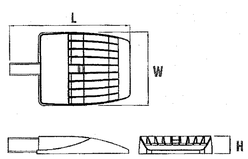


ESX1 LED
Area Luminaire

Catalog Number
Notes
Type

Specifications

EPA 0.40 ft² (0.04 m²)
Length: 19.9" (50.5 cm)
Width: 12" (30.5 cm)
Height: 2.9" (7.4 cm)
Weight: 11.2 lbs (5.1 kg)



Introduction

The ESX LED area luminaire provides the combination of best product, best price and best delivery. ESX 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

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE
Provides years of maintenance-free illumination for outdoor use in residential & commercial applications, ideal for applications such as lighting walkways and stairways for safety and security.

CONSTRUCTION
Cast aluminum housing with corrosion-resistant polyester other dark bronze or white finish.

IDA compliant.

OPTICS
UNIQUE ICE LENS.

Polycarbonate lens protects the LED from moisture, dirt and other contaminants.

LUMEN MAINTENANCE: The LED will deliver 70% of its initial lumens at 50,000 hour average LED life. See Lighting Facts label for proper time performance details.

ELECTRICAL
DRIVE drives operates on any line voltage from 120-277V

Operating temperature -40ºC to 40ºC.

SPD surge protection standard.

INSTALLATION
Surface mounts to standard junction box (provided by others).

LISTINGS
UL Listed to U.S. and Canadian safety standards for wet locations.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/Customer/Terms-Conditions.aspx

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

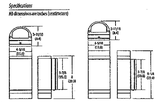
Note: Specifications subject to change without notice.

Outdoor General Purpose

OLLWD & OLLWU

LED WALL CYLINDER LIGHT

Specifications
All dimensions are inches (centimeters)

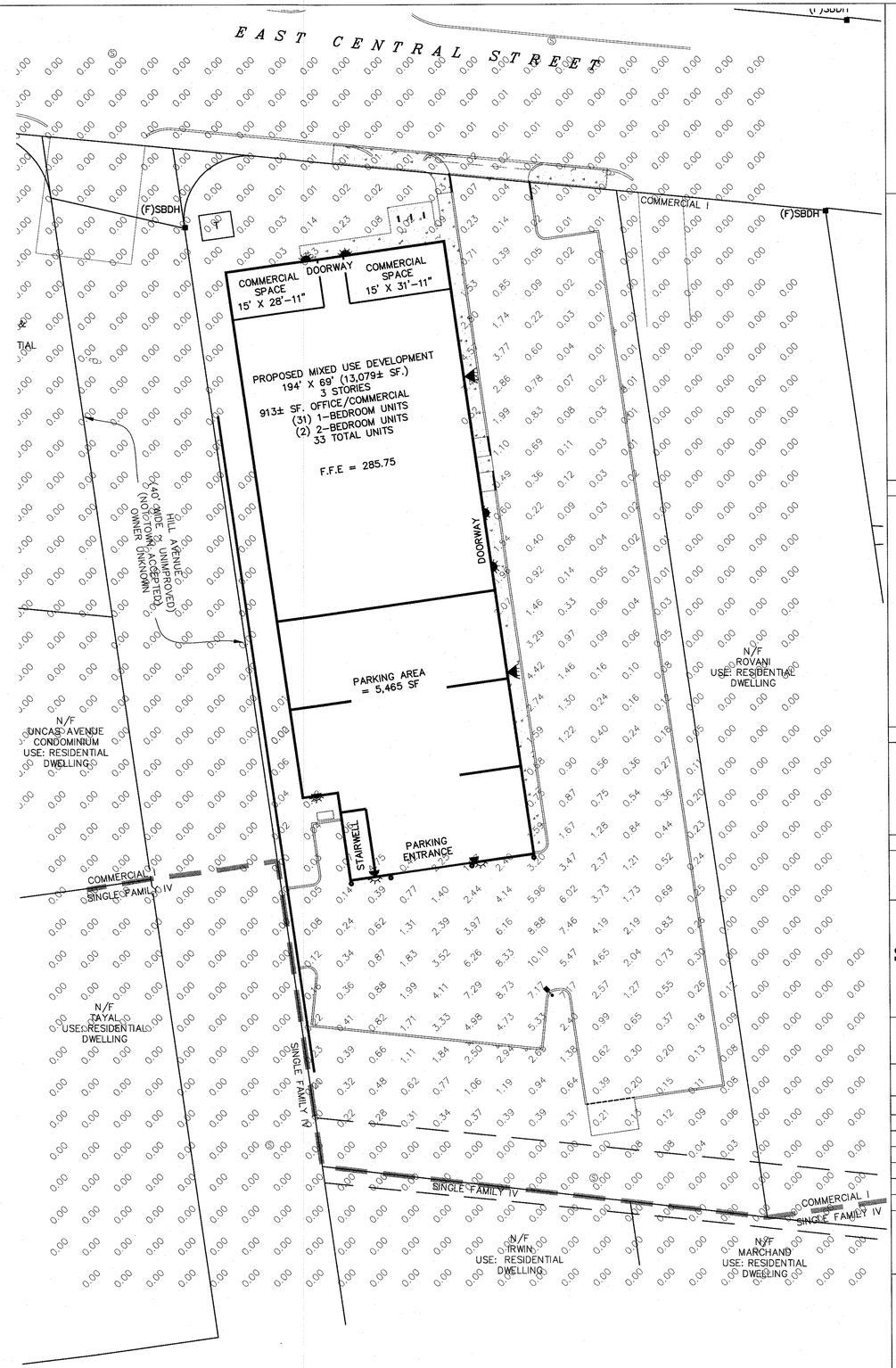


ORDERING INFORMATION For shorter lead times, configure products using highlighted options.

Example: OLLWD LED P1 40K MVOLT DDB

Series	Performance Package	Color temperature (CCT)	Voltage	Finish
OLLWD LED Downlight OLLWU LED Up & Downlight	P1	40K 4000K	MVOLT 120V-277V 120 120V	DDB Dark bronze WH White

PEDESTRIAN LIGHTING



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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

PHOTOMETRIC PLAN

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS – REV1
01/28/22	TOWN COMMENTS – REV2
02/17/22	TOWN COMMENTS – REV3
04/12/22	ADDED RET. WALL – REV4
05/31/22	TOWN COMMENTS – REV5
7/14/22	TOWN COMMENTS – REV6

GRAPHIC SCALE: 1"=20'

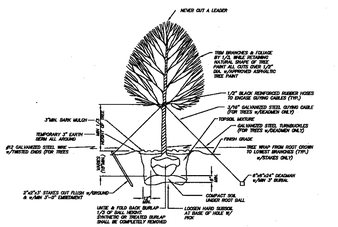
0 5 10 15 20 25 30 40 50 FEET
0 1 2 3 4 5 10 15 20 METERS

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

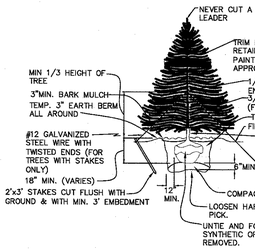
SHEET 8 OF 12

JOB NO. F4478

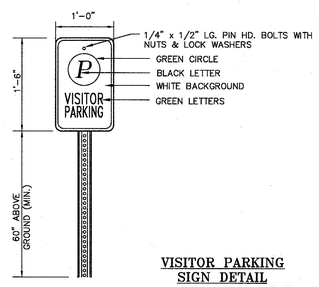
G:\C3DFranklin\F4478 (F4194)\DWGS\F4478 SITE.dwg, 7/18/2022 8:04:00 AM, [KP]



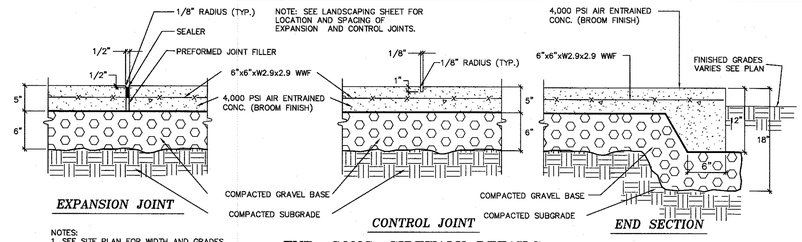
SPECIMEN DECIDUOUS TREE PLANTING DETAIL



CONIFEROUS TREE PLANTING DETAIL
N.T.S.

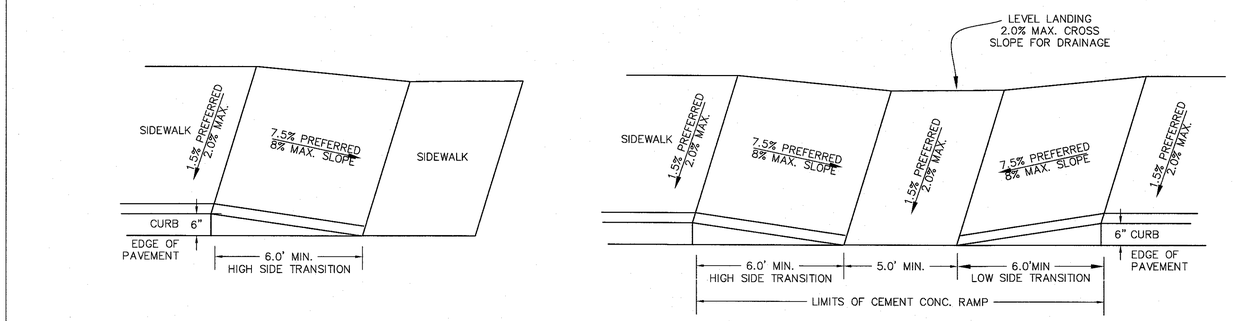


VISITOR PARKING SIGN DETAIL
N.T.S.

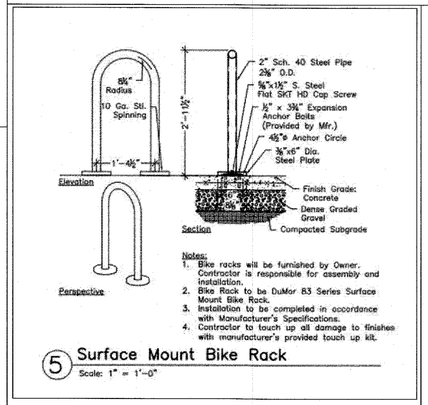


NOTES:
1. SEE SITE PLAN FOR WIDTH AND GRADES
2. PROVIDE MINIMUM 1/8"/FT. CROSS-SLOPE
3. PROVIDE CONTROL JOINTS 5'– 0" O.C. MIN.
4. PROVIDE EXPANSION JOINTS 20'– 0" O.C. MIN.

TYP. CONC. SIDEWALK DETAILS
N.T.S.

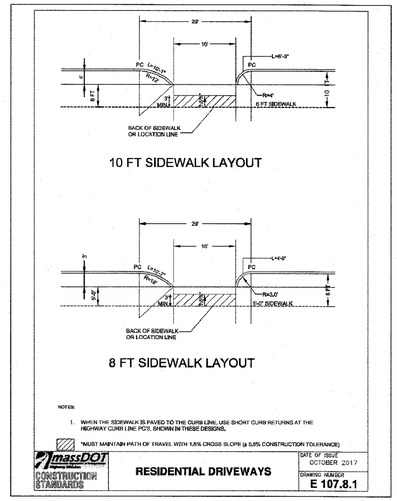


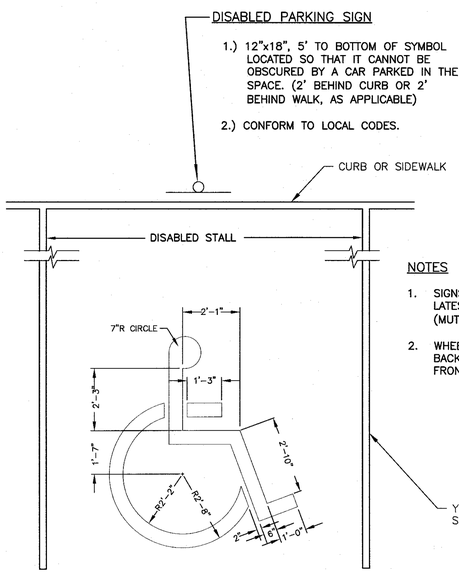
CEMENT CONCRETE WHEELCHAIR RAMPS
NOT TO SCALE



Notes:
1. Bike racks will be furnished by Owner. Contractor is responsible for assembly and installation.
2. Bike Rack to be DuMor 83 Series Surface Mount Bike Rack.
3. Installation to be completed in accordance with Manufacturer's Specifications.
4. Contractor to touch up all damage to finishes with manufacturer's provided touch up kit.

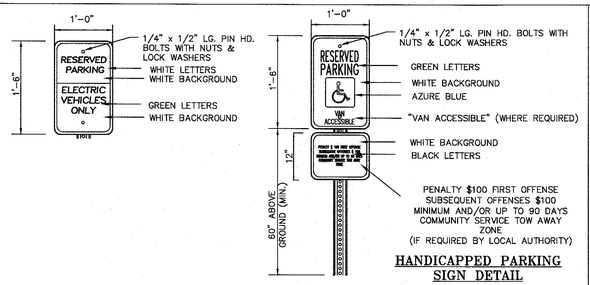
5 Surface Mount Bike Rack
Scale: 1" = 1'-0"



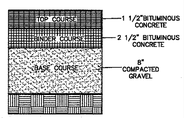


NOTES
1. SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND SPECIFICATIONS.
2. WHEELCHAIR SYMBOL SHALL BE WHITE W/AZURE BLUE BACKGROUND. SYMBOL SHALL BE CENTERED AT THE FRONT OF THE STALL.

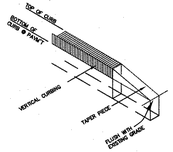
DISABLED PARKING SPACE PAINTING DETAIL
N.T.S.



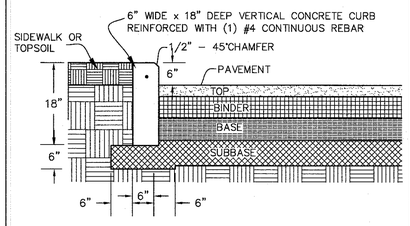
HANDICAPPED PARKING SIGN DETAIL
N.T.S.



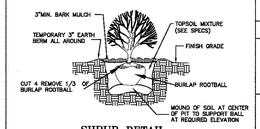
TYPICAL PAVEMENT SECTION
NOT TO SCALE



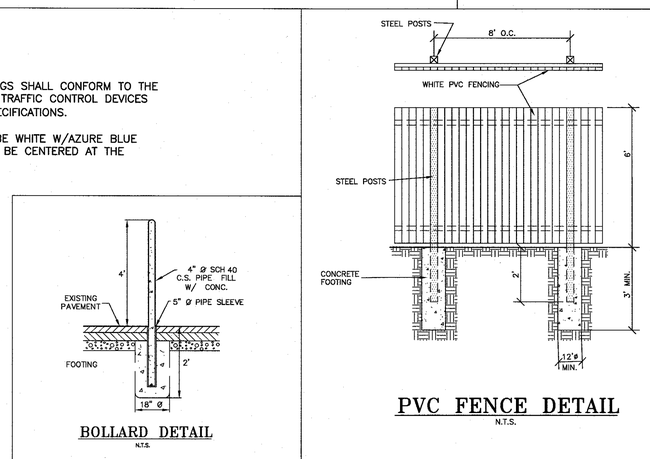
VERTICAL CURB TAPER DETAIL
N.T.S.



VERTICAL CONCRETE CURB AT GRADE
NOT TO SCALE

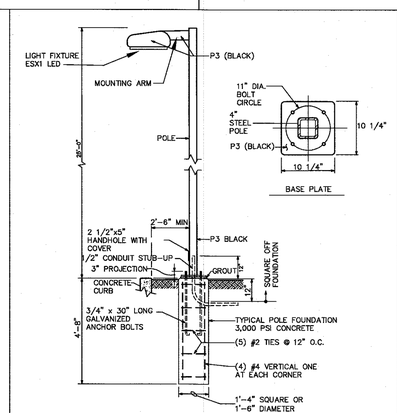


SHRUB DETAIL
N.T.S.

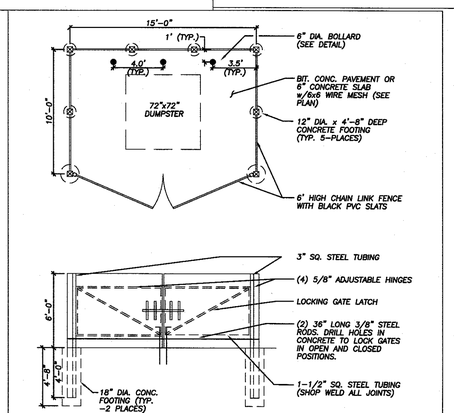


BOLLARD DETAIL
N.T.S.

PVC FENCE DETAIL
N.T.S.



TYPICAL YARD LIGHT DETAIL
NOT TO SCALE



DUMPSTER ENCLOSURE
NOT TO SCALE

F4478

APPROVED DATE:

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LEGAL NOTES

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OWNER

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95 EAST MAIN STREET, SUITE 100
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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

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS – REV1
01/28/22	TOWN COMMENTS – REV2
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SHEET 9 OF 12 JOB NO. F4478

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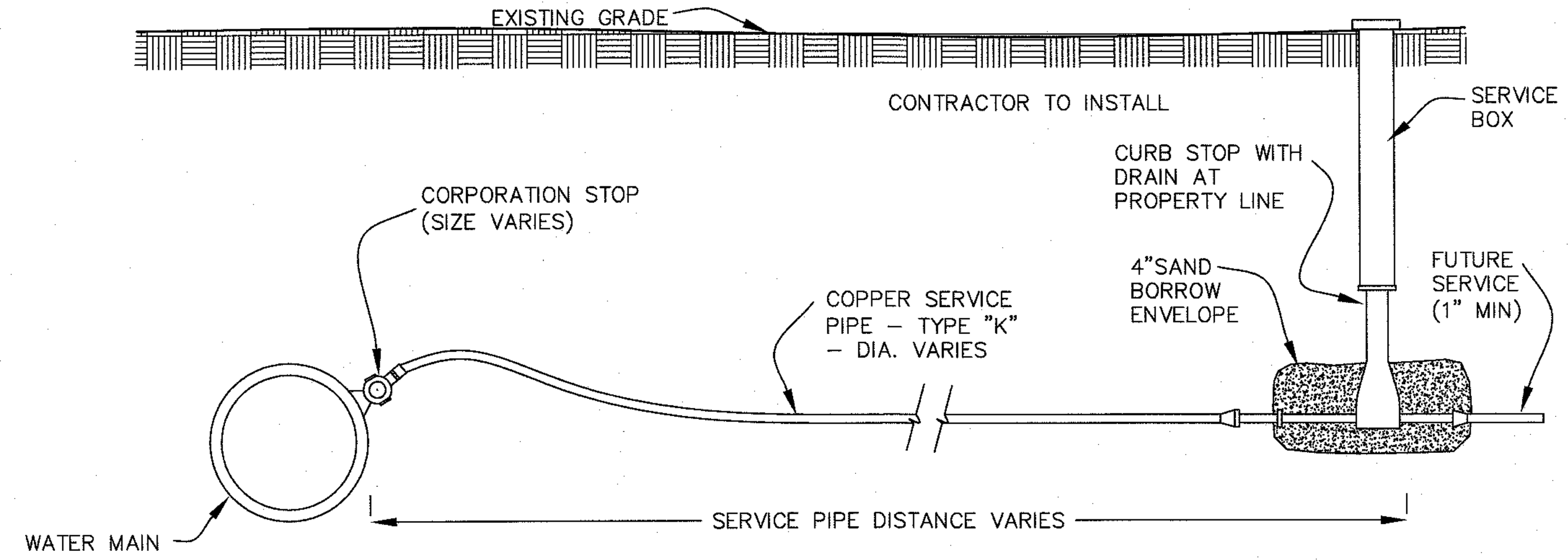
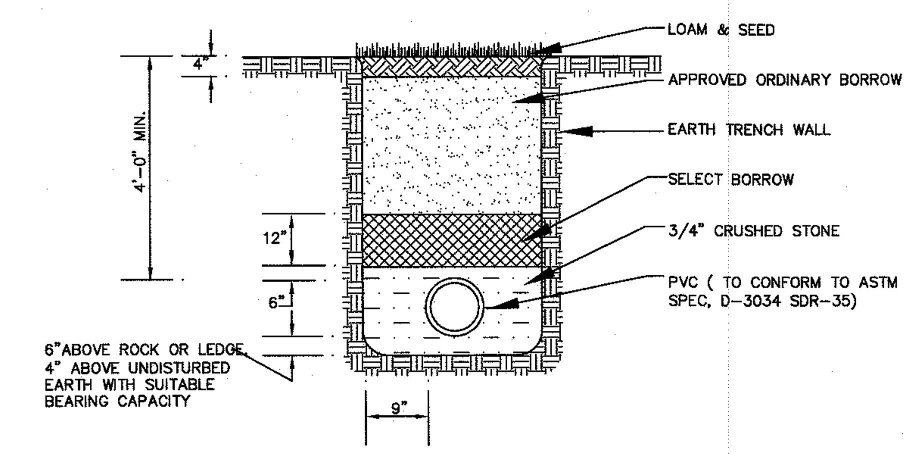


TYPICAL SERVICE CONNECTION

NOT TO SCALE

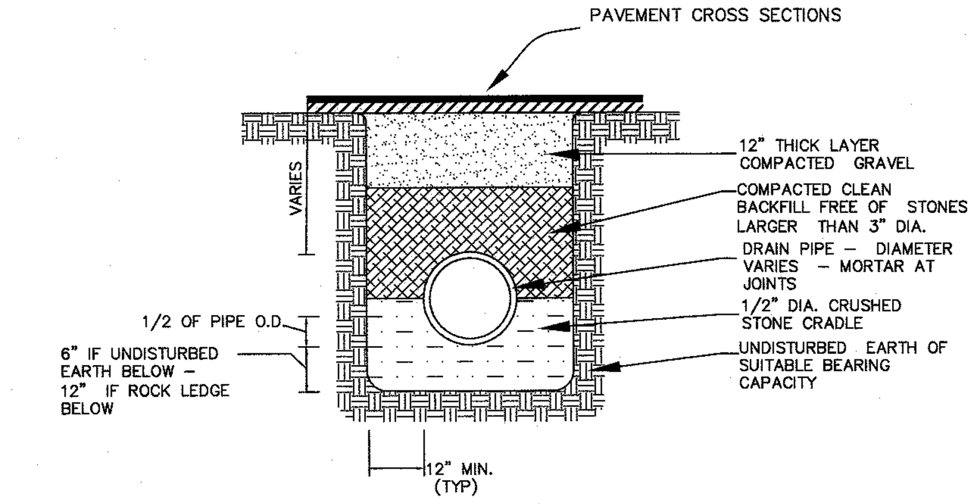
NOTE:

1. 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
2. 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.



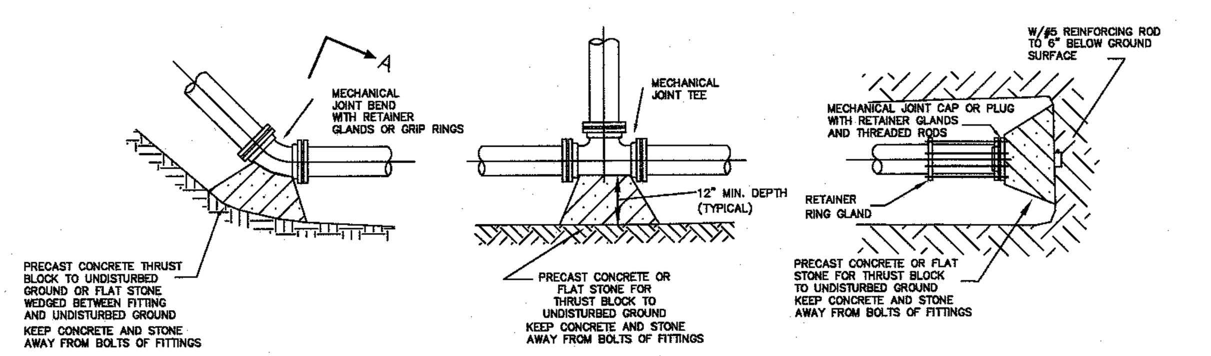
TYPICAL P.V.C. TRENCH SECTION

NOT TO SCALE



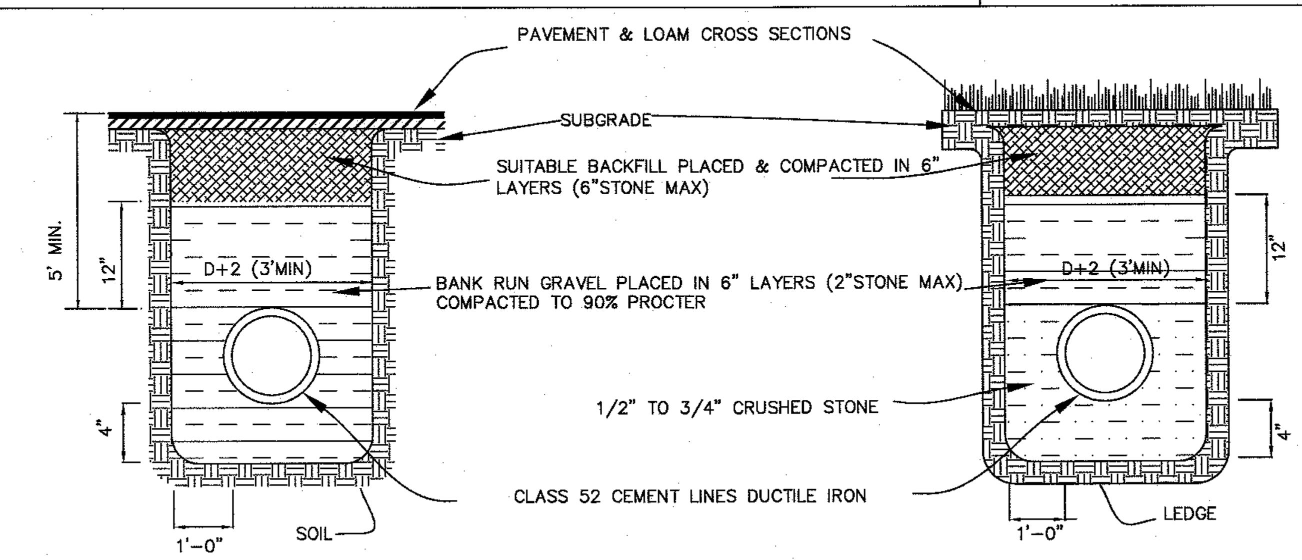
TYPICAL RCP TRENCH SECTION

NOT TO SCALE

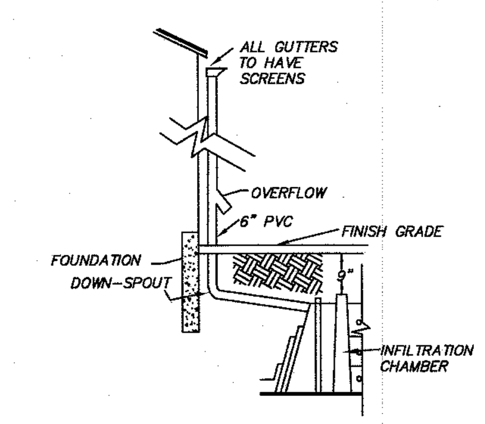


TYPICAL THRUST BLOCK DETAILS

NOT TO SCALE

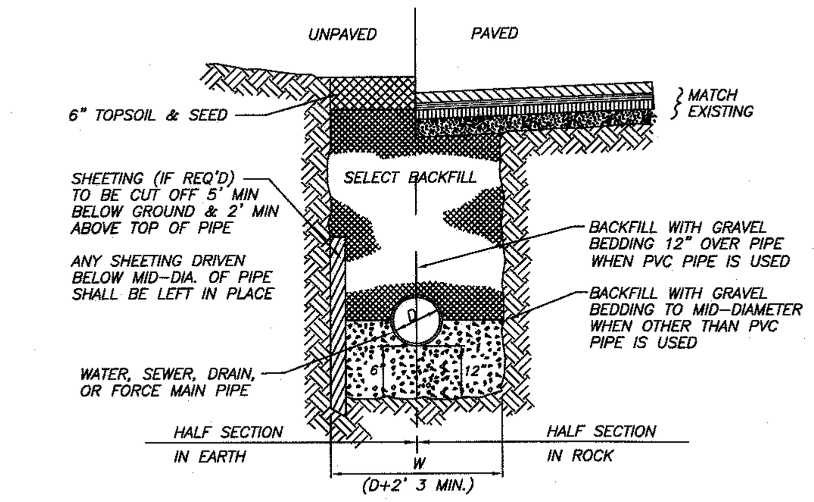


TYPICAL TRENCH SECTION FOR D.I. WATER MAIN (TYPE 5 BEDDING AWWAC-600)



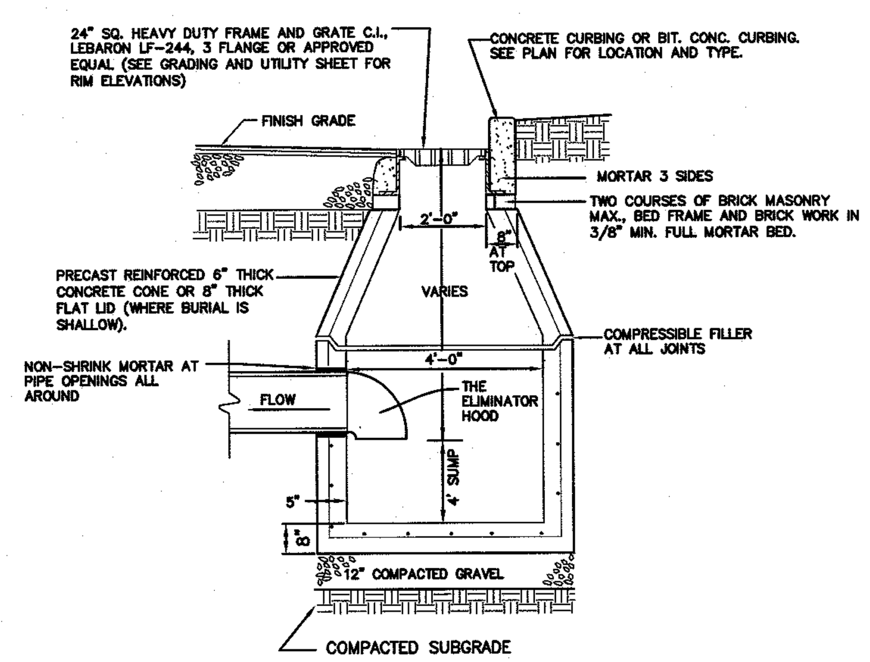
ROOF DRAIN DETAIL

N.T.S.



TYPICAL UTILITY TRENCH

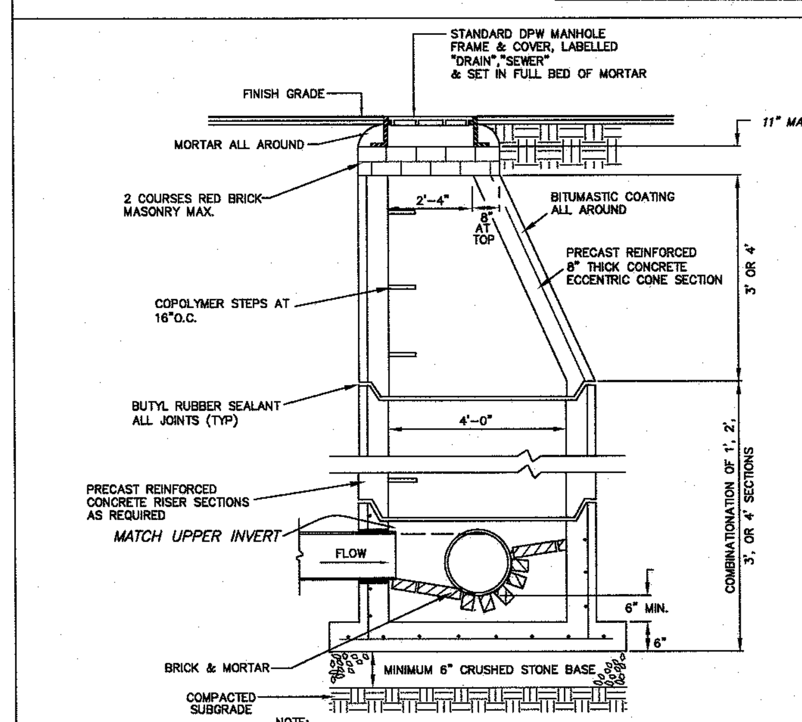
N.T.S.



TYP. PRECAST CONCRETE CATCH BASIN DETAIL

NOT TO SCALE

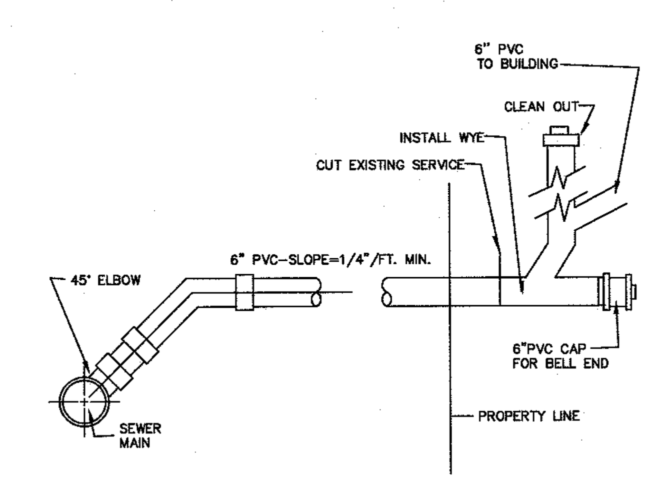
NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.



NOTE:
1. ALL STRUCTURES SHALL MEET THE REQUIREMENTS OF THE TOWN OF FRANKLIN DEPARTMENT OF PUBLIC WORKS.
2. PIPE OPENINGS TO BE PRECAST IN MANHOLE SECTIONS.
3. MANHOLE DESIGN SPECIFICATIONS SHALL CONFORM TO PRECAST REINFORCED CONCRETE MANHOLE SECTIONS A.S.T.M. DESIGNATION C 478, LATEST REVISION.
3. ALL PIPE GASKETS SHALL BE PRE-MOLDED NEOPRENE O-RING TYPE.

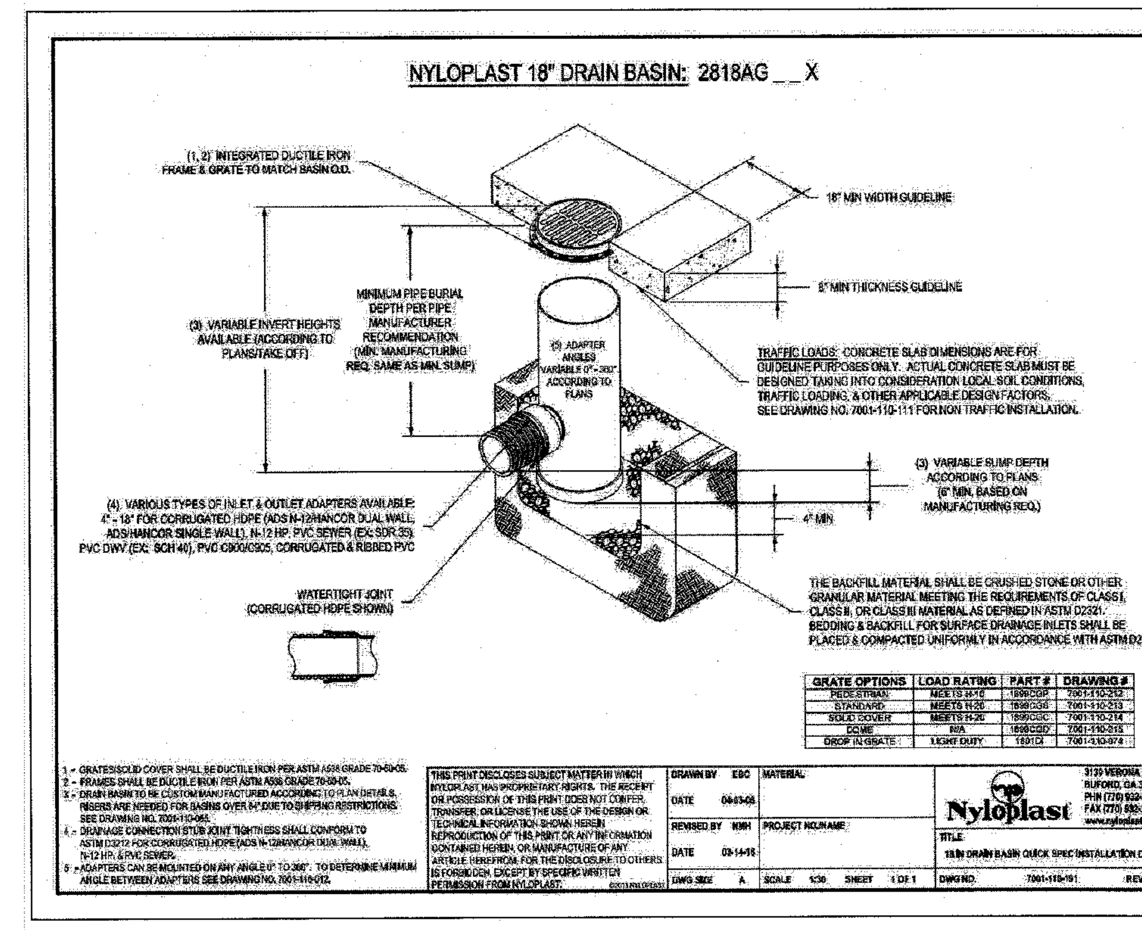
PRECAST CONCRETE DRAIN MANHOLE

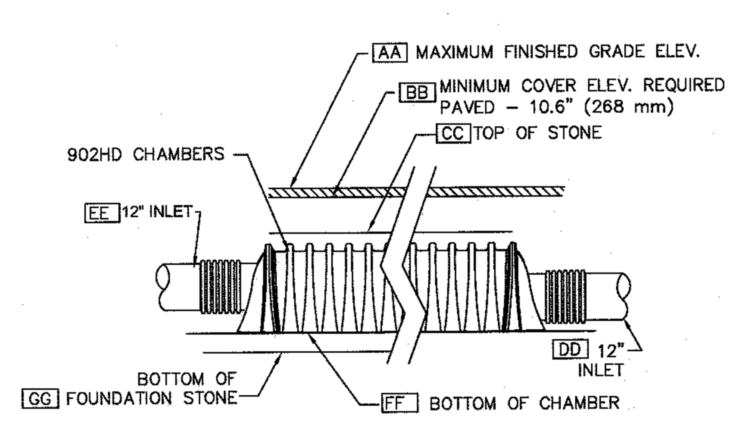
NOT TO SCALE



TYPICAL PVC SEWER SERVICE CONNECTION

N.T.S.





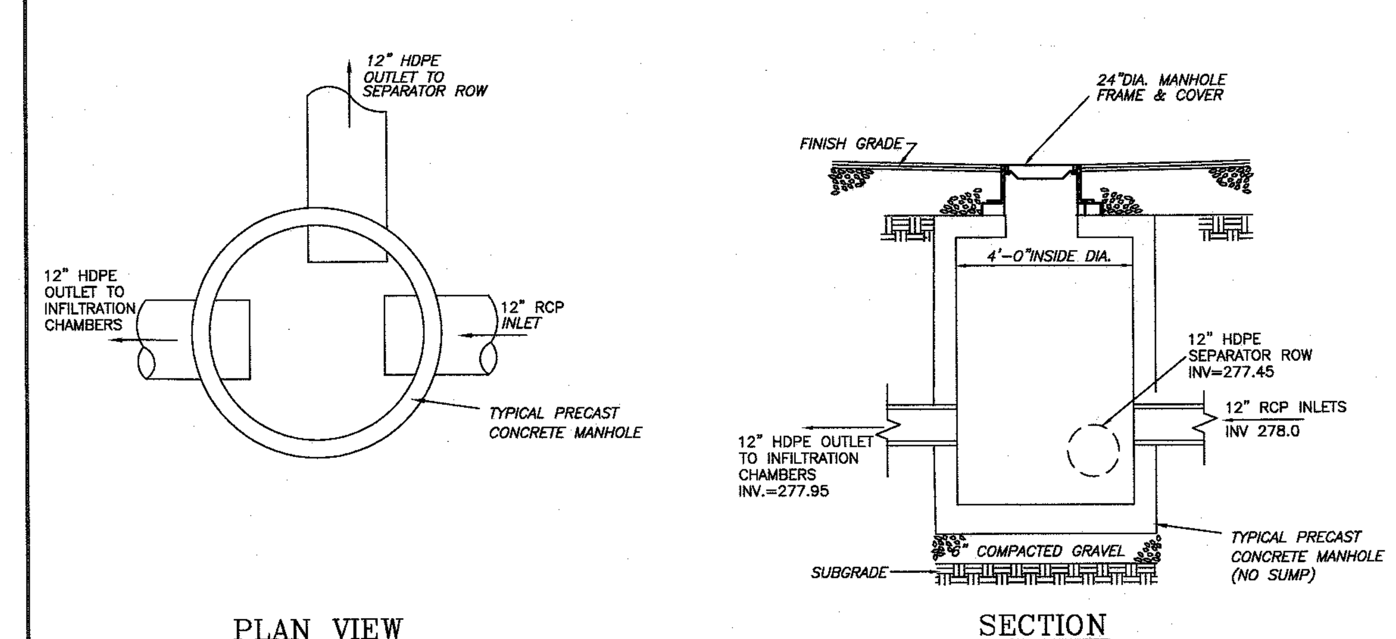
AA	MAXIMUM FINISHED GRADE ELEV.	285.05
BB	MINIMUM COVER ELEV.	283.70
CC	TOP OF STONE	282.45
DD	12" OUTLET	277.95
EE	12" INLET	277.95
FF	BOTTOM OF CHAMBER	277.45
GG	BOTTOM OF FOUNDATION STONE	276.70
HH	ESTIMATED GROUNDWATER	N/A

NOTES:

1. CHAMBERS ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE STORMWATER REPORT FOR INSTALLATION INSTRUCTIONS AND DETAILS.
2. ISOLATOR ROW TO BE PROVIDED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

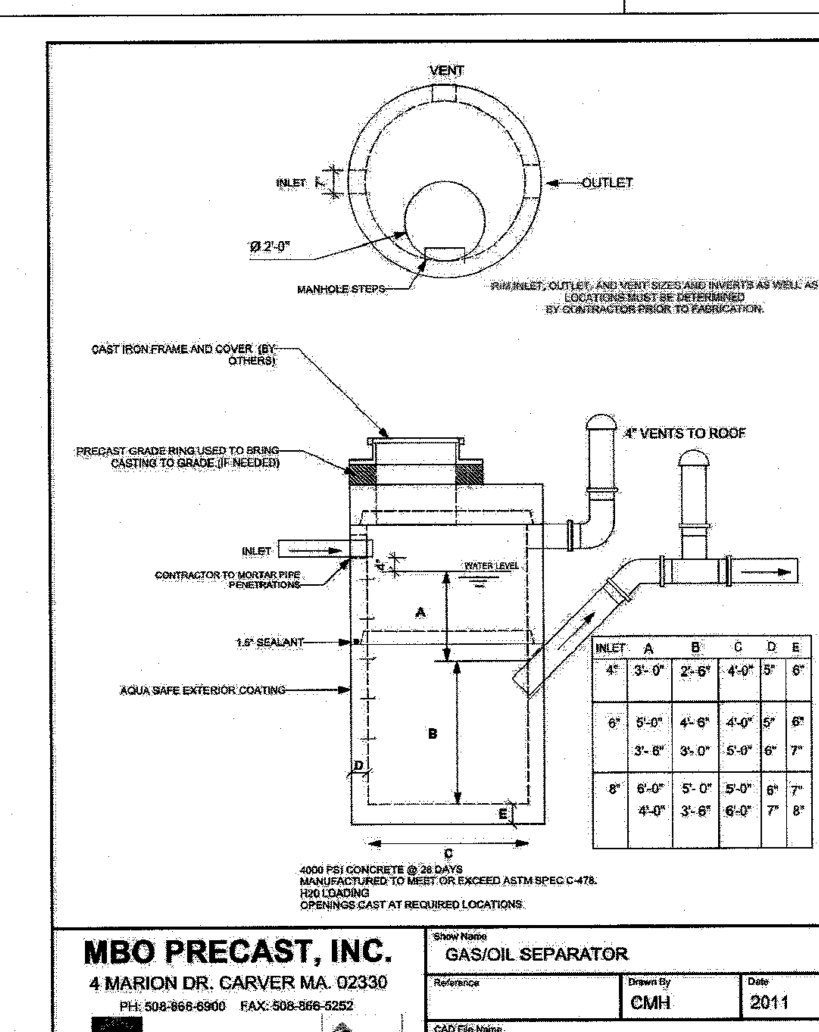
CULTEC 902HD CHAMBER SYSTEM ELEVATIONS

NOT TO SCALE



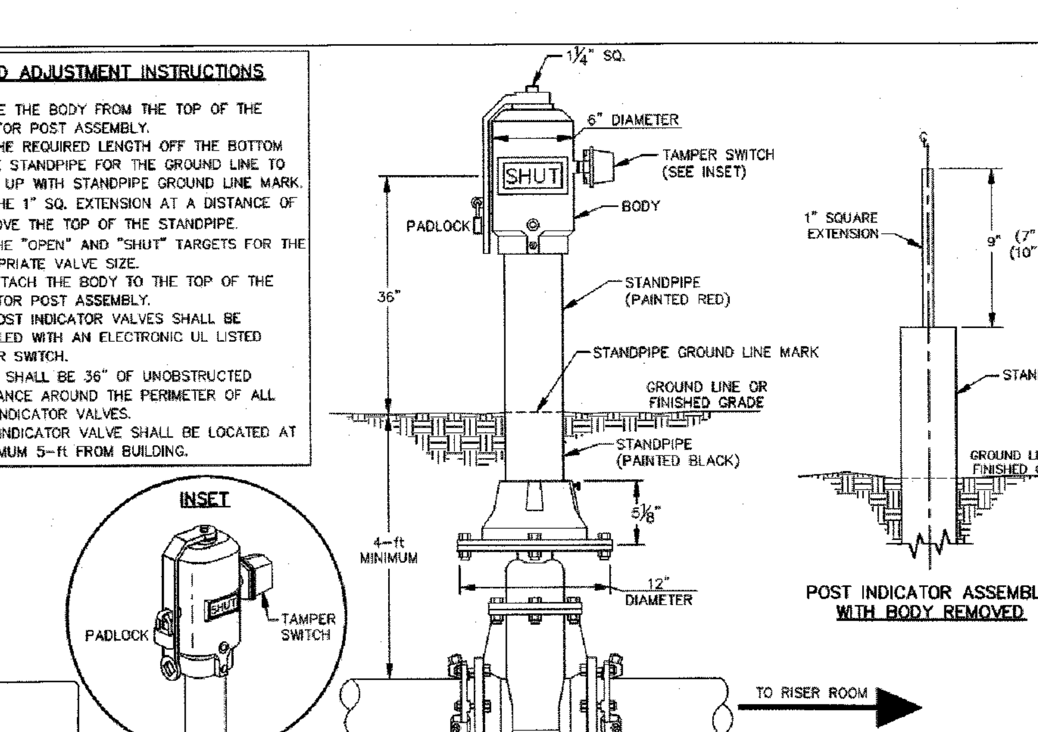
DIVERSION MANHOLE (DMH#2 AND DMH#3)

N.T.S.



FIELD ADJUSTMENT INSTRUCTIONS

1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-ft FROM BUILDING.



POST INDICATOR VALVE DETAIL

N.T.S.

F4478

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DEED BOOK 40009 PAGE 445
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SHEET 10 OF 12 JOB NO. F4478

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CULTEC RECHARGER 902HD ® SPECIFICATIONS

GENERAL

CULTEC RECHARGER® 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 (50-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-BOTTOMED.
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 ® 902HD SHALL BE 48 INCHES (1219 MM) TALL, 78 INCHES (1981 MM) WIDE AND 4.25 FEET (1.30 M) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 902HD SHALL BE 3.67 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 ® 902HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36 INCHES (900 MM) PVC.
11. THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM) HDPE AND 12 INCHES (300 MM) PVC.
12. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245 MM) LONG.
13. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 902HD CHAMBER SHALL BE 17.31 FT^3/FT (1.61 M^3/M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 902HD SHALL BE 63.47 FT^3/UNIT (1.80 M^3/UNIT) - WITHOUT STONE.
14. THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT^3/FT (0.085 M^3/M) - WITHOUT STONE.
15. THE RECHARGER 902HD CHAMBER SHALL HAVE 5 CORRUGATIONS.
16. THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 6 INCH (150 MM) 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® 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 (1231 MM) TALL, 78 INCHES (1982 MM) WIDE AND 9.7 INCHES (246 MM) LONG. WHEN JOINED WITH A RECHARGER 902HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 6.2 INCHES (157 MM).
5. THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.34 FT^3/FT (0.50 M^3/M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 2.76 FT^3/UNIT (0.08 M^3/UNIT) - WITHOUT STONE.
6. MAXIMUM INLET OPENING ON THE END CAP IS 30 INCHES (750 MM) HDPE OR 36 INCHES (900 MM) 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.

902HD 1.0

GENERAL NOTES

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-BOTTOMED.
5. THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT^3/FT (0.085 m^3/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

CULTEC NO. 410™ NON-WOVEN GEOTEXTILE

CULTEC NO. 410™ NON -WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER® STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.

GEOTEXTILE PARAMETERS

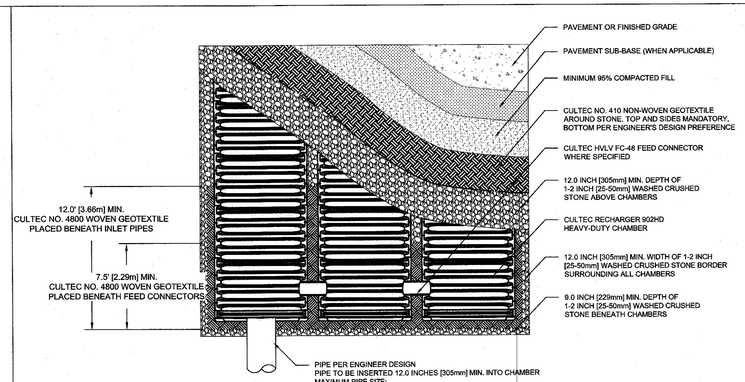
1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT . (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 GM).
4. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM 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 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 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 .S. 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 L/MIN/SM) PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

CULTEC NO. 4800™ WOVEN GEOTEXTILE

CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS A 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 A 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 5,070 LBS/FT (94 X 74 KN/M) PER ASTM D4595 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE @ 2% STRAIN OF 960 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 (7,560 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 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
14. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



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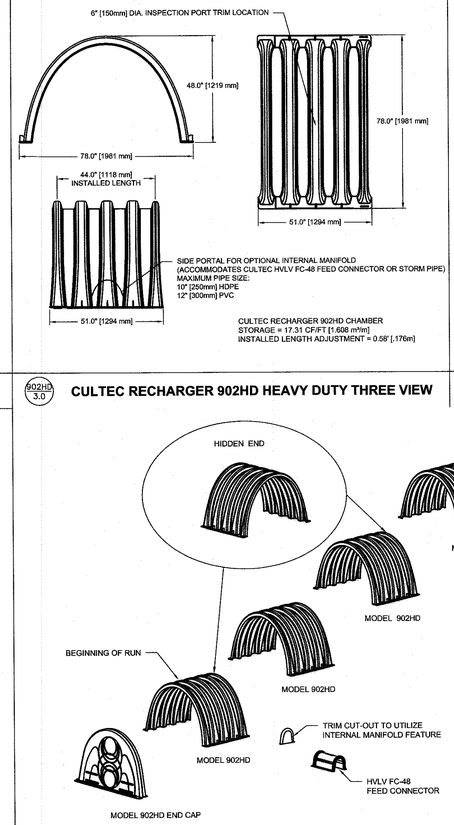
CULTEC RECHARGER 902HD HEAVY DUTY PLAN VIEW



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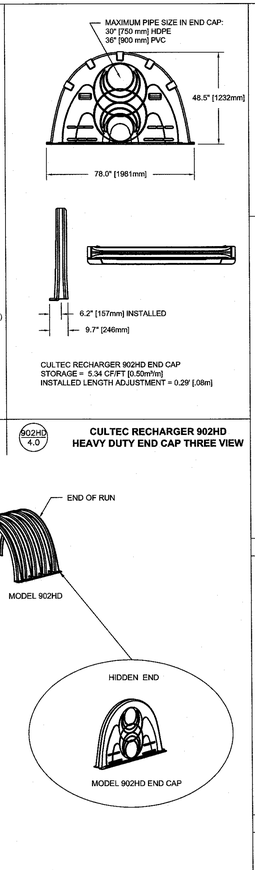
CULTEC RECHARGER 902HD HEAVY DUTY THREE VIEW



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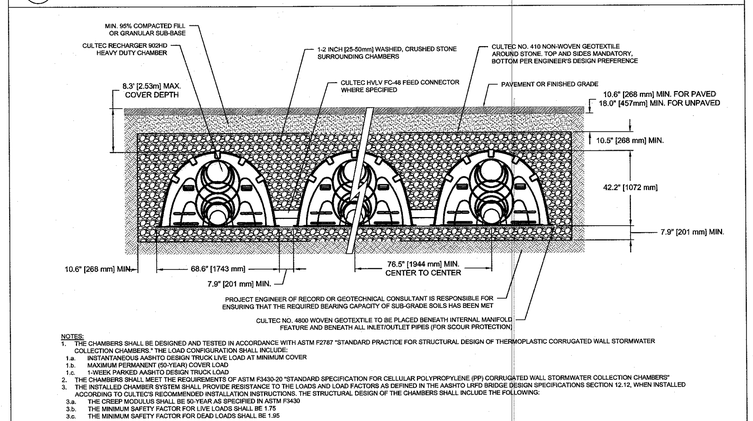
CULTEC RECHARGER 902HD HEAVY DUTY END CAP THREE VIEW



NOTES:
1. 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:
   1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
   1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
   1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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:
   3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
   3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
   3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

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CULTEC RECHARGER 902HD HEAVY DUTY CROSS SECTION

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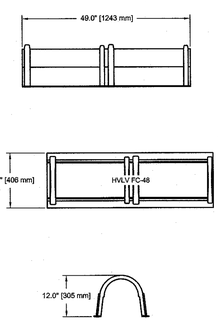
CULTEC RECHARGER 902HD HEAVY DUTY TYPICAL INTERLOCK



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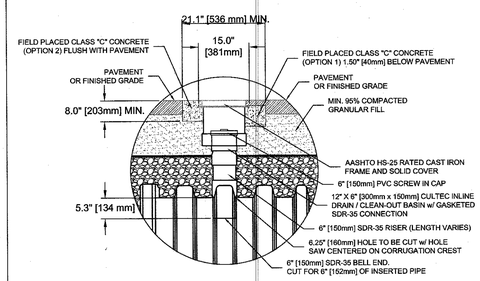
CULTEC HVLV FC-48 FEED CONNECTOR THREE VIEW



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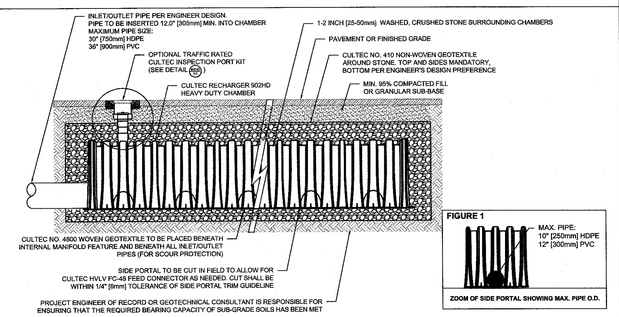
CULTEC INSPECTION PORT - ZOOM DETAIL



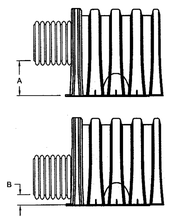
NOTES:
1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:
   1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
   1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
   1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
3. 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:
   3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
   3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
   3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

902HD 10.0

CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

PIPE	A	B
6" [150 mm]	N/A	N/A
8" [200 mm]	N/A	N/A
10" [250 mm]	N/A	N/A
12" [300 mm]	29.50" [749 mm]	2.25" [57 mm]
15" [375 mm]	26.50" [673 mm]	2.25" [57 mm]
18" [450 mm]	23.50" [597 mm]	2.50" [64 mm]
24" [600 mm]	16.50" [420 mm]	3.00" [76 mm]

*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 CUSTOM INVERTS. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 4" (100mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.



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CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS

F4478

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LEGAL NOTES

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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

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS – REV1
01/28/22	TOWN COMMENTS – REV2
02/17/22	TOWN COMMENTS – REV3
04/12/22	ADDED RET. WALL – REV4
05/31/22	TOWN COMMENTS – REV5
7/14/22	TOWN COMMENTS – REV6

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

SHEET 11 OF 12

JOB NO. F4478

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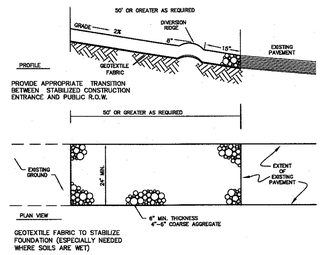
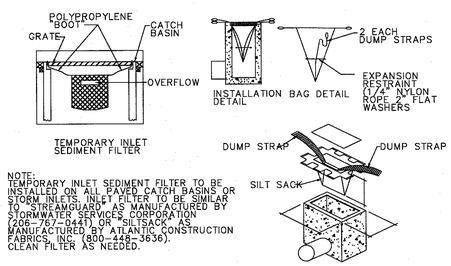
EROSION CONTROL NOTES:

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.

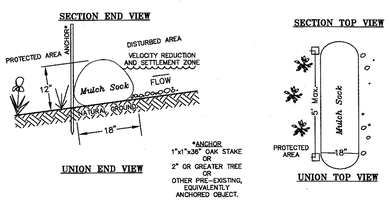


STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTE:
TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.

SILT SACK DETAIL
NO SCALE



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 THAT 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 Sock* COMPONENTS:**

- OUTSIDE CASING: 100% organic hessian.
- 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./l.f.)

EROSION CONTROL BARRIER
NOT TO SCALE

F4478

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

CONSTRUCTION DETAILS

NOVEMBER 11, 2021

DATE	REVISION DESCRIPTION
01/17/22	TOWN COMMENTS - REV1
01/28/22	TOWN COMMENTS - REV2
02/17/22	TOWN COMMENTS - REV3
04/12/22	ADDED RET. WALL - REV4
05/31/22	TOWN COMMENTS - REV5
7/14/22	TOWN COMMENTS - REV6

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
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

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