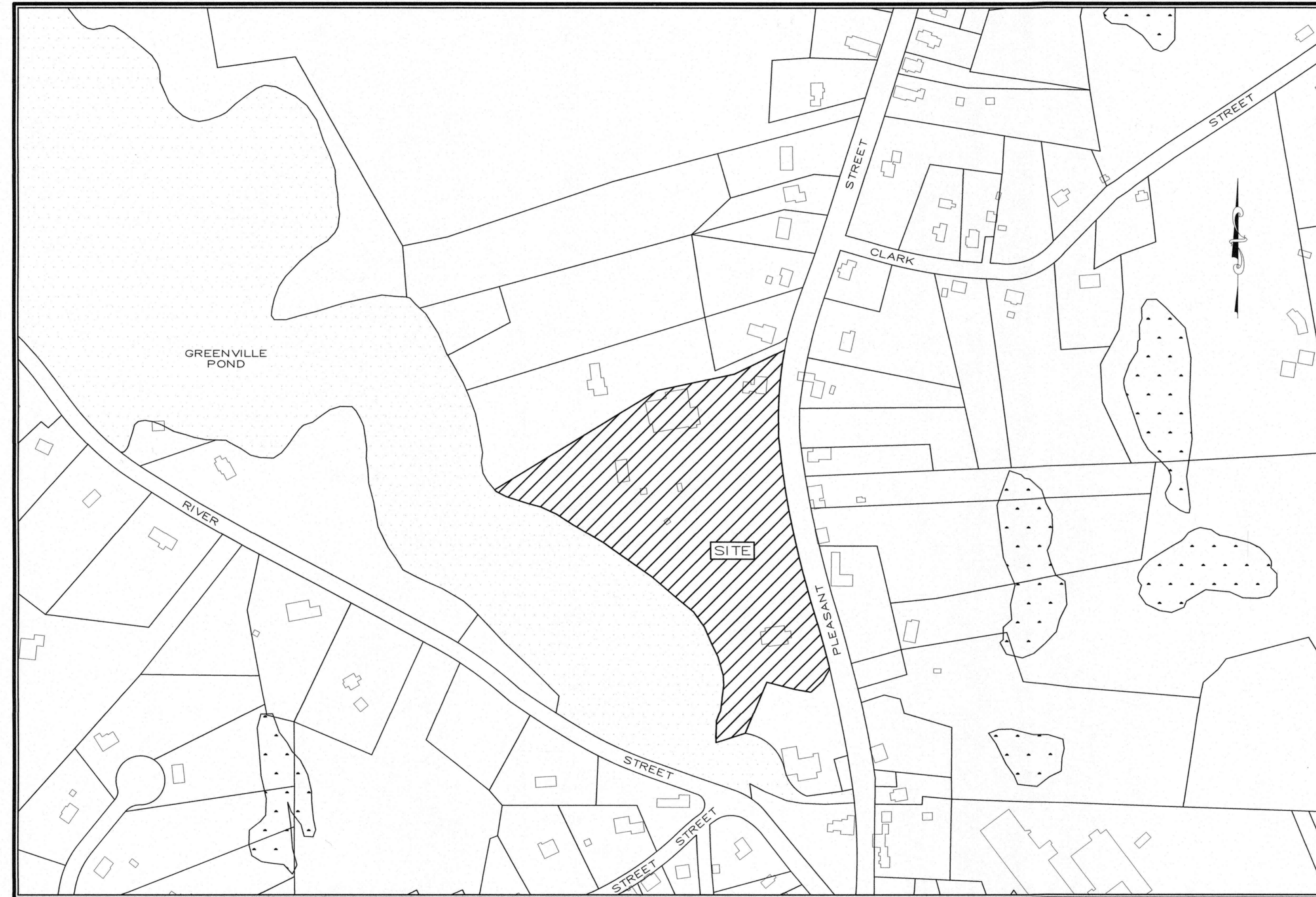


# SITE PLAN MODIFICATION GREENVILLE BAPTIST CHURCH

## 674 PLEASANT STREET LEICESTER, MA 01542

FEBRUARY 14, 2020



**SITE LOCUS**  
1" = 200'

### DRAWING INDEX

C-1	TITLE SHEET
C-2	EXISTING CONDITIONS PLAN
C-3	SITE LAYOUT PLAN
C-4	SEDIMENTATION AND EROSION CONTROL PLAN
C-5	PHOTOMETRIC LIGHTING PLAN
C-6	CONSTRUCTION DETAILS
C-7	CONSTRUCTION DETAILS

**GENERAL SITE NOTES:**

- PURPOSE OF THIS PLAN IS TO SHOW A PROPOSED SITE PLAN MODIFICATION TO THE ORIGINAL APPROVED SITE PLANS DATED 5-27-04 BY CUOCO & CORMIER ENGINEERING ASSOCIATED INC. FOR THE GREENVILLE BAPTIST CHURCH LOCATED AT 674 PLEASANT STREET, LEICESTER, MA.
- EXISTING CONDITIONS AND TOPOGRAPHY ARE BASED ON A FIELD SURVEY BY McCLURE ENGINEERING, INC. IN DEC 2019.
- ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND DERIVED FROM A PLANS DRAWN BY CUOCO AND CORMIER DATED 5-27-2004. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO CONSTRUCTION.
- WETLANDS FLAGGED BY SCOTT MORRISON OF ECOTEC, INC. ON JUNE 25, 2002
- A PORTION OF THE SITE DOES LIE WITHIN THE SPECIAL FLOOD HAZARD AREA AS REFERENCED ON NATIONAL FLOOD INSURANCE RATE MAP NO. 25027C0783E, FOR COMMUNITY NO. AND DATED JULY 4, 2011. NO PROPOSED WORK IS LOCATED WITHIN THE FLOOD AREAS.

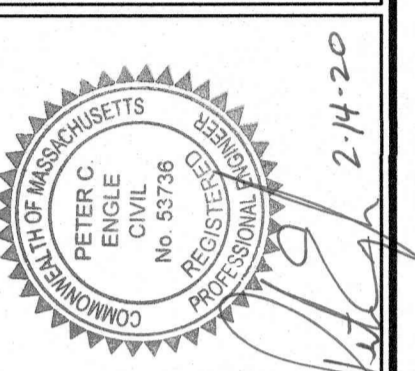
LEICESTER PLANNING BOARD  
SITE PLAN APPROVAL

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

HOR. SCALE IN FEET: 1"=400'				
400	800			
0	1200			
REV	DATE	DESCRIPTION	MADE	APVD

PETER C. ENGLE, P.E.  
PROFESSIONAL ENGINEER  
MA LIC. NO. 53736



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SITE PLAN MODIFICATION  
674 PLEASANT STREET  
LEICESTER, MA 01542  
PREPARED FOR  
GREENVILLE BAPTIST CHURCH  
674 PLEASANT STREET  
LEICESTER, MA 01542

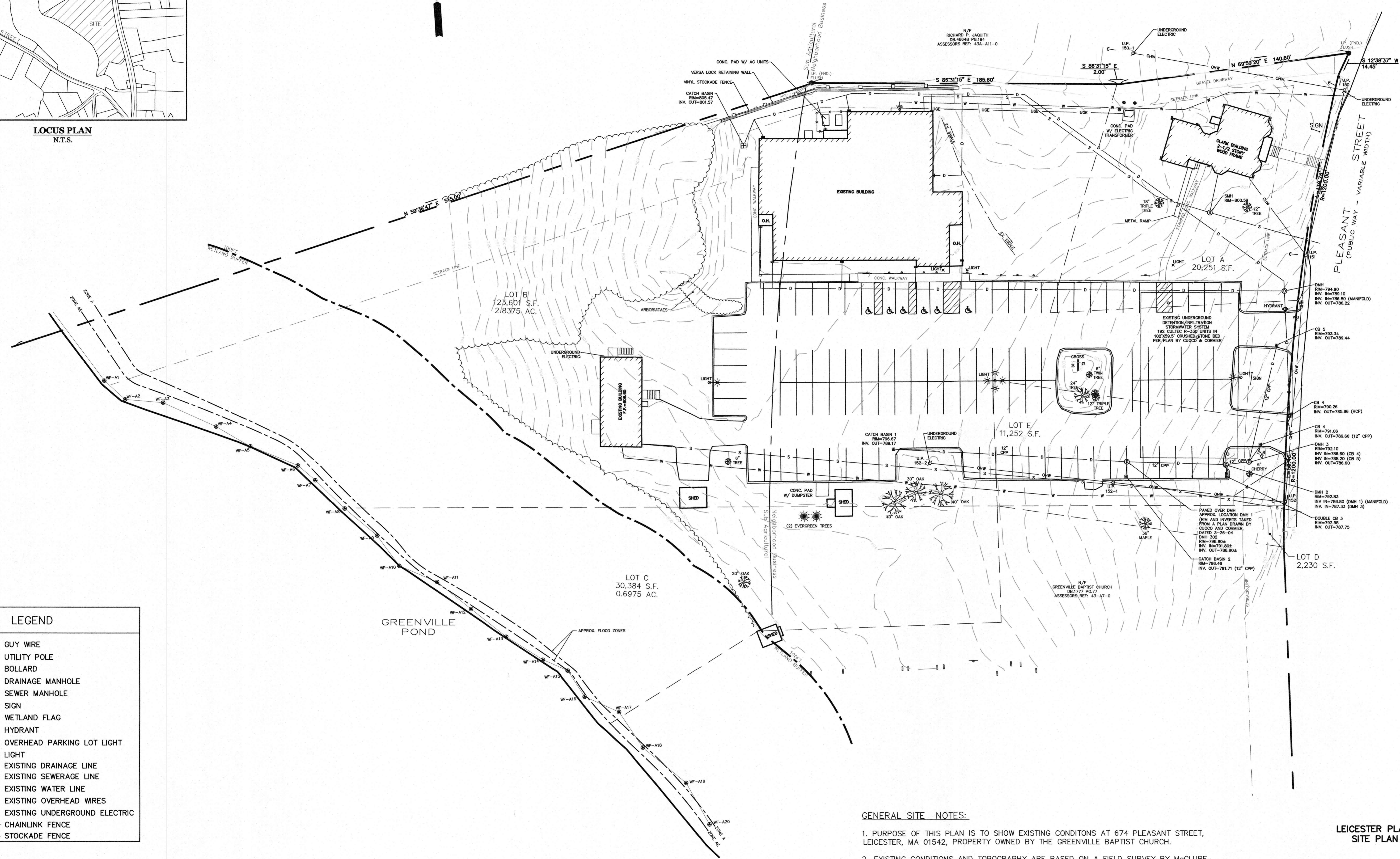
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DATE:	2/14/2020
CHK BY:	PE
SCALE:	1" = 200'
PROJ. NO.	151-2058-K

TITLE SHEET

# C-1



**LOCUS PLAN**  
N.T.S.



**LEGEND**

- GUY WIRE
- UTILITY POLE
- BOLLARD
- DRAINAGE MANHOLE
- SEWER MANHOLE
- SIGN
- WETLAND FLAG
- HYDRANT
- OVERHEAD PARKING LOT LIGHT
- LIGHT
- EXISTING DRAINAGE LINE
- EXISTING SEWERAGE LINE
- EXISTING WATER LINE
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRIC
- CHAINLINK FENCE
- STOCKADE FENCE

DISTRICT	GREENVILLE VILLAGE NB
MIN. LOT SIZE	10,000 sq.ft.
MIN. FRONTAGE	120'
MIN. FRONT YARD DEPTH	25'
MIN. SIDE YARD DEPTH	15'
MIN. REAR YARD DEPTH	25'
MAX. BUILDING HEIGHT	25' (2.0 STORIES)
MAX. LOT COVERAGE	40%

DISTRICT	SUB-AGRICULTURAL
MIN. LOT SIZE	80,000 sq.ft.
MIN. FRONTAGE	200'
MIN. FRONT YARD DEPTH	40'
MIN. SIDE YARD DEPTH	40'
MIN. REAR YARD DEPTH	40'
MAX. BUILDING HEIGHT	35' (2.5 STORIES)
MAX. LOT COVERAGE	30%

**TAX MAP REFERENCES:**  
MAP 43A, PARCEL A13 AND A14  
MAP 43, PARCEL A7

**RECORD OWNER:**  
GREENVILLE BAPTIST CHURCH  
674 PLEASANT STREET  
LEICESTER, MA 01542

**DEED REFERENCES:**  
(WORCESTER COUNTY REGISTRY OF DEEDS)  
LOCUS DEED:  
DEED BOOK 3907 PAGE 106  
DEED BOOK 1777 PAGE 77

**PLAN REFERENCES:**  
(WORCESTER COUNTY REGISTRY OF DEEDS)  
PLAN BOOK 518 PLAN 47  
PLAN BOOK 643 PLAN 40 (LOCUS)

**GENERAL SITE NOTES:**

- PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS AT 674 PLEASANT STREET, LEICESTER, MA 01542, PROPERTY OWNED BY THE GREENVILLE BAPTIST CHURCH.
- EXISTING CONDITIONS AND TOPOGRAPHY ARE BASED ON A FIELD SURVEY BY McCLURE ENGINEERING, INC. IN DEC 2019.
- ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND DERIVED FROM A PLANS DRAWN BY CUOCO AND CORMIER DATED 5-26-2004. CONTRACTOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
- WETLANDS FLAGGED BY SCOTT MORRISON OF ECOTEC, INC. ON JUNE 25, 2002.
- A PORTION OF THE PROPERTY DOES LIE WITHIN THE SPECIAL FLOOD HAZARD AREA AS REFERENCED ON NATIONAL FLOOD INSURANCE RATE MAP NO. 25027C0783E, FOR COMMUNITY NO. AND DATED JULY 4, 2011.

**LEICESTER PLANNING BOARD**  
**SITE PLAN APPROVAL**

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

HOR. SCALE IN FEET: 1"=30'

**PETER C. ENGLE P.E.**  
PROFESSIONAL ENGINEER  
MA LIC. NO. 59736



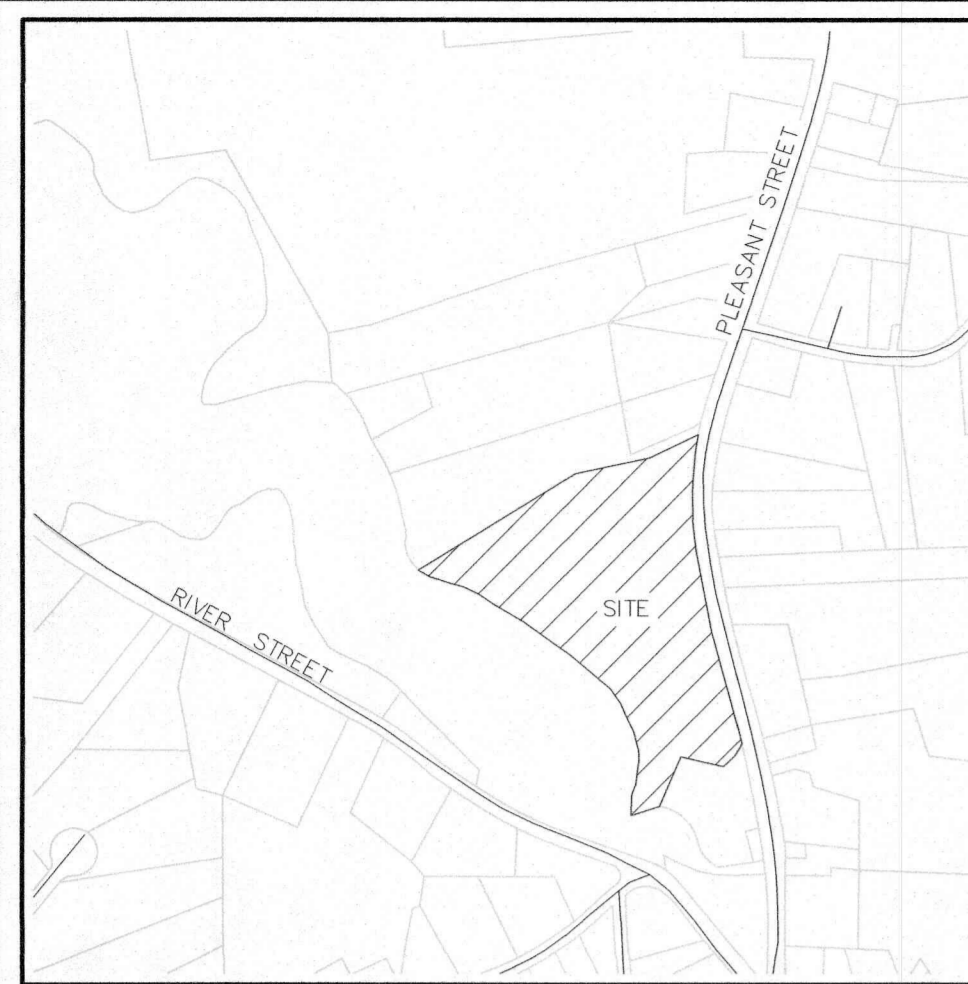
**McCLURE ENGINEERING, INC**  
119 Worcester Road  
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Tel: (508) 248-2005  
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**SITE PLAN MODIFICATION**  
**PLAN**  
674 PLEASANT STREET  
LEICESTER, MA 01542  
PREPARED FOR  
GREENVILLE BAPTIST CHURCH  
674 PLEASANT STREET  
LEICESTER, MA 01542

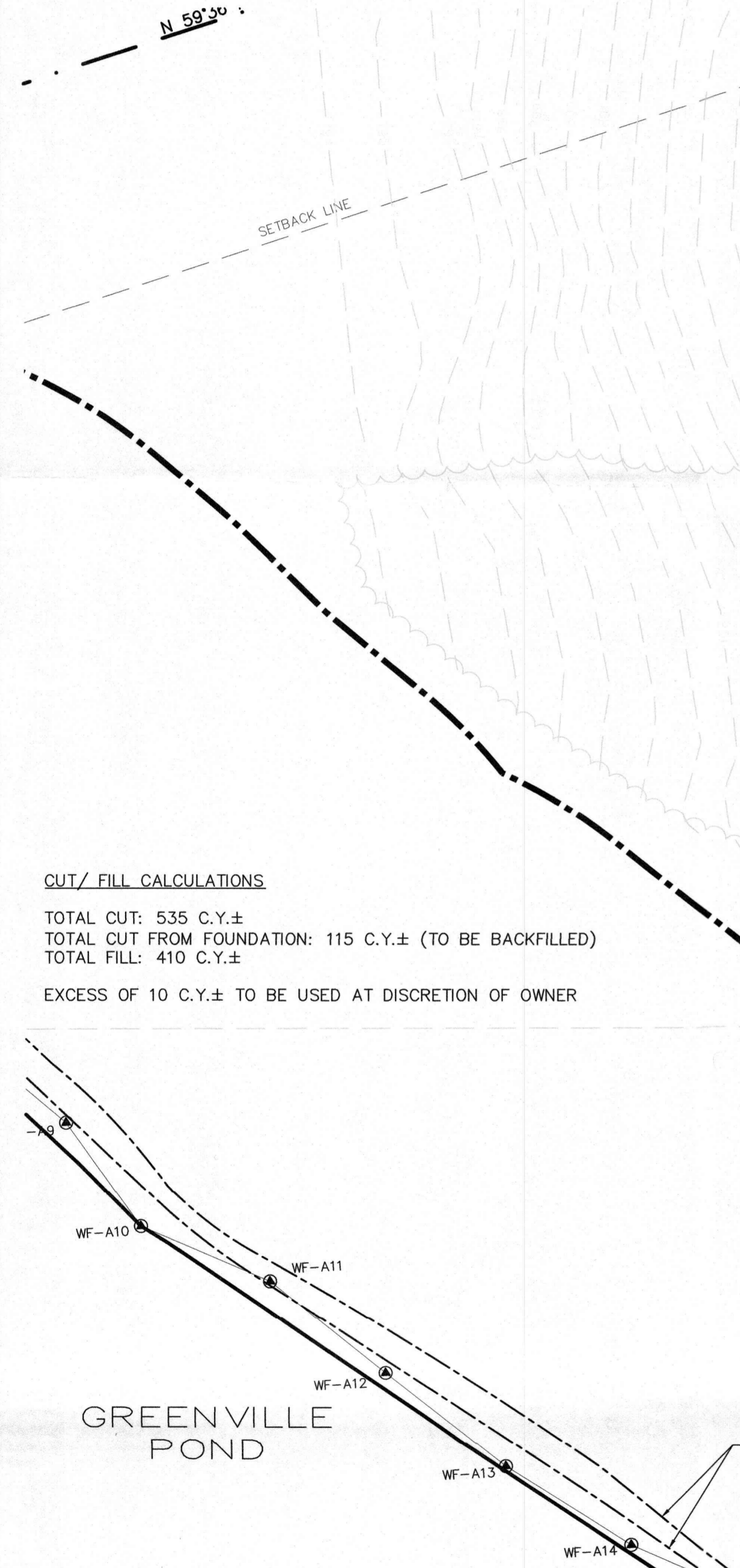
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DATE: 2/14/2020  
CHK BY: PE  
SCALE: 1" = 30'  
PROJ. NO. 151-2058-K

**EXISTING**  
**CONDITIONS**

**C-2**



**LOCUS PLAN**  
N.T.S.



**CUT/FILL CALCULATIONS**  
 TOTAL CUT: 535 C.Y.±  
 TOTAL CUT FROM FOUNDATION: 115 C.Y.± (TO BE BACKFILLED)  
 TOTAL FILL: 410 C.Y.±  
 EXCESS OF 10 C.Y.± TO BE USED AT DISCRETION OF OWNER

**GREENVILLE POND**

DISTRICT DIMENSIONAL REGULATIONS			
DISTRICT USE	NEIGHBORHOOD BUSINESS/ CHURCH	SUBURBAN AGRICULTURAL	
	REQUIRED	EXISTING	PROPOSED
MIN. LOT SIZE	20,000 S.F./ 80,000 S.F.	187,720 S.F.±	187,720 S.F.±
MIN. FRONTAGE	100' / 200'	750'±	750'±
MIN. FRONT YARD DEPTH	25' / 40'	32.5'±	32.5'±
MIN. SIDE YARD DEPTH	15' / 40'	17'±	17'±
MIN. REAR YARD DEPTH	25' / 40'	129'±	129'±
MAX. BUILDING HEIGHT	25' / 35'	25'±	25'±
MAX. BUILDING COVERAGE	40% / 30%	6.8%	7.5%

**ADA PARKING CALCULATIONS**  
 TOTAL EXISTING PARKING SPACES: 106  
 TOTAL PROPOSED PARKING SPACES: 129  
 TOTAL ADA SPACES REQUIRED: 5 (1 VAN)  
 TOTAL ADA SPACES PROVIDED (EXISTING): 6 (2 VAN)

**GENERAL SITE NOTES:**

- PURPOSE OF THIS PLAN IS TO SHOW THE LOCATION OF A PROPOSED 1,300 S.F. DRY STORAGE BUILDING, SIDEWALK RECONFIGURATION, AND PROPOSED PARKING LOT EXPANSION LOCATED AT 674 PLEASANT STREET, LEICESTER, MA ON PROPERTY OWNED BY THE GREENVILLE BAPTIST CHURCH.
- EXISTING CONDITIONS AND TOPOGRAPHY ARE BASED ON A FIELD SURVEY BY McCLURE ENGINEERING, INC. IN DEC 2019.
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**LEICESTER PLANNING BOARD**  
**SITE PLAN APPROVAL**

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

LEGEND	
	GUY WIRE
	UTILITY POLE
	BOLLARD
	DRAINAGE MANHOLE
	SEWER MANHOLE
	SIGN
	WETLAND FLAG
	HYDRANT
	OVERHEAD PARKING LOT LIGHT
	LIGHT
	EXISTING DRAINAGE LINE
	EXISTING SEWERAGE LINE
	EXISTING WATER LINE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND ELECTRIC
	CHAINLINK FENCE
	STOCKADE FENCE

**SITE PLAN MODIFICATION**  
**674 PLEASANT STREET**  
**LEICESTER, MA 01542**  
 PREPARED FOR  
**GREENVILLE BAPTIST CHURCH**  
**674 PLEASANT STREET**  
**LEICESTER, MA 01542**

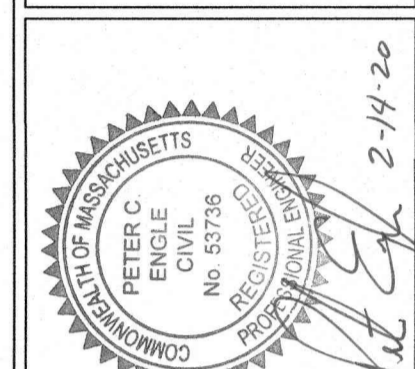
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 DATE: 2/14/2020  
 CHK BY: PE  
 SCALE: 1" = 20'  
 PROJ. NO. 151-2056-K

**SITE LAYOUT PLAN**

**C-3**

REV	DATE	DESCRIPTION	MADE BY

**PETER C. ENGLE P.E.**  
 PROFESSIONAL ENGINEER  
 MA LIC. NO. 53736



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**RESPONSIBILITIES OF OWNER/PERMITEE**

- THE OWNER/ PERMITEE SHALL:  
A. PROVIDE THE CONTRACTOR WITH COPIES OF LAND-USE PERMITS THAT THE OWNER HAS ACQUIRED.  
B. INFORM ALL PARTIES INVOLVED WITH THE PROPOSED SITE WORK OF THIS PLAN'S OBJECTIVES AND REQUIREMENTS.

**RESPONSIBILITIES OF CONTRACTOR**

THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION OF THE SITE AND FOR PROTECTING ADJACENT PROPERTIES, STORM SEWERS AND WATERWAYS FROM SEDIMENTATION.

**THE CONTRACTOR SHALL:**

- A. INSTALL, MONITOR, AND MAINTAIN ALL OF THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THIS PLAN  
B. COMPLY WITH ALL PERMIT REQUIREMENTS.

**PRE-CONSTRUCTION CONFERENCE**

THE PERMITEE, OWNER-OF-RECORD, CONTRACTOR, ENGINEER, AND THE TOWN SHALL HOLD A "PRE-CONSTRUCTION" CONFERENCE REVIEW THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL MEASURES.

**GENERAL CONTROLS**

- CLEANING OF STORMWATER STRUCTURES:**  
CLEAN ALL STORMWATER STRUCTURES INCLUDING, BUT NOT LIMITED TO, PIPES, SWALES, SUBSURFACE RETENTION BASINS, SEDIMENT TRAPS, AND RIPRAP APRONS OF SEDIMENT UPON COMPLETION OF THE PROJECT.
- CONSTRUCTION ENTRANCE:**  
PLACE CLEAN WASHED STONE AT THE SITE ENTRANCES TO THE LENGTH, WIDTH AND DEPTH INDICATED ON THE PLANS AND DETAILS TO HELP REMOVE MUD AND/OR CLODS OF SOIL FROM CONSTRUCTION VEHICLES EXITING FROM THE SITE. ADD ADDITIONAL STONE AS NECESSARY TO MAINTAIN ADEQUATE SERVICEABILITY.
- PAVEMENT MAINTENANCE:**  
THE CONTRACTOR SHALL SWEEP PAVED ROADWAYS ADJACENT TO THE SITE ON A ROUTINE BASIS TO PREVENT TRACKING OF MUD ONTO PUBLIC ROADWAYS AND WASHING OF MUD INTO WATERWAYS. IF THE CONTRACTOR'S SCHEDULE FOR CLEANING THE PAVEMENT IS FOUND TO BE INADEQUATE BY THE OWNER, OWNER'S REPRESENTATIVE, OR TOWN, THE CONTRACTOR SHALL INCREASE THE FREQUENCY AT NO ADDITIONAL COST TO THE OWNER.

- WASTE DISPOSAL:**  
THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF COVERED WASTE CONTAINERS TO ENSURE THAT NO LITTER, DEBRIS, BUILDING MATERIALS, OR SIMILAR MATERIALS ARE DISCHARGED TO WETLANDS OR WATERCOURSES. THE CONTRACTOR SHALL INSTRUCT SUBCONTRACTORS TO USE THE CONTAINERS FOR WASTE MATERIAL. THE CONTAINERS SHALL BE PROMPTLY EMPTIED WHEN FULL.

**DESCRIPTION AND MAINTENANCE OF EROSION CONTROL MEASURES**

**TEMPORARY STABILIZATION MEASURES**

**STRAW WATTLE TUBES:**  
INSTALL STRAW WATTLES AT VARIOUS LOCATIONS AS SHOWN ON THE PLANS AND DETAILS. EMBED THE STRAW WATTLES INTO THE GROUND AND FIRMLY ANCHOR IT AS SHOWN IN THE DETAILS. REMOVE SEDIMENT ONCE LEVELS HAVE REACHED 1/4 OF THE EFFECTIVE HEIGHT. REPAIR AND/OR REPLACE STRAW WATTLES IMMEDIATELY IF DAMAGED OR DETERIORATED.

**INLET PROTECTION:**  
INSTALL INLET PROTECTION/ SILT SACKS AT VARIOUS EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLAN AND DETAILS.

**STOCKPILING OR STORAGE OF EXCAVATED MATERIALS:**  
COMPLETELY SURROUND TEMPORARY MATERIAL STOCKPILES WITH STRAW WATTLES TO PREVENT TRANSPORTATION OF SEDIMENT.

**DUST CONTROL:**  
TAKE PRECAUTIONS TO PREVENT DUST FROM BECOMING A NUISANCE TO ADJUTING PROPERTY OWNERS. BROOM OFF PAVEMENT AREAS ADJOINING THE EXCAVATION ON A DAILY BASIS. COVER AND/OR KEEP MOIST ALL EARTH STOCKPILES AT ALL TIMES. USE CALCIUM CHLORIDE TO CONTROL DUST OVER CERTAIN AREAS OF THE SITE AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. CALCIUM CHLORIDE SHALL CONFORM TO ASTM D-98, TYPE I. THE CONTRACTOR SHALL MAINTAIN AND INSPECT, ON A DAILY BASIS, THE ADEQUACY OF DUST CONTROL MEASURES AND CORRECT ANY DEFICIENCIES IMMEDIATELY.

**PERMANENT STABILIZATION MEASURES**

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LANDSCAPED AREAS, IF TOPSOIL, SEE, AND/OR MULCH IS WASHED AWAY BY RAINFALL, THE CONTRACTOR SHALL RESTORE THE AREA.

**DEWATERING**

- AT NO TIME SHALL EXCAVATION "DEWATERING BE DIRECTLY DISCHARGED TO: CATCH BASIN, DRAIN PIPE, WETLAND, STREAM, OR FLOOD PLAIN AREA.
- TRENCH & EXCAVATION DE-WATERING WASTEWATER SHALL BE DISCHARGED THROUGH AN "ULTRA PIPESOCK" OR EQUIVALENT SEDIMENT/OIL FILTER TRAP WITH 12" DEPTH GRAVEL FILTER BERM.
- DE-WATERING DISCHARGES SHALL BE DIRECTED TO ON-SITE SEDIMENT CONTROL SYSTEMS AND/OR DRAINAGE SWALES.

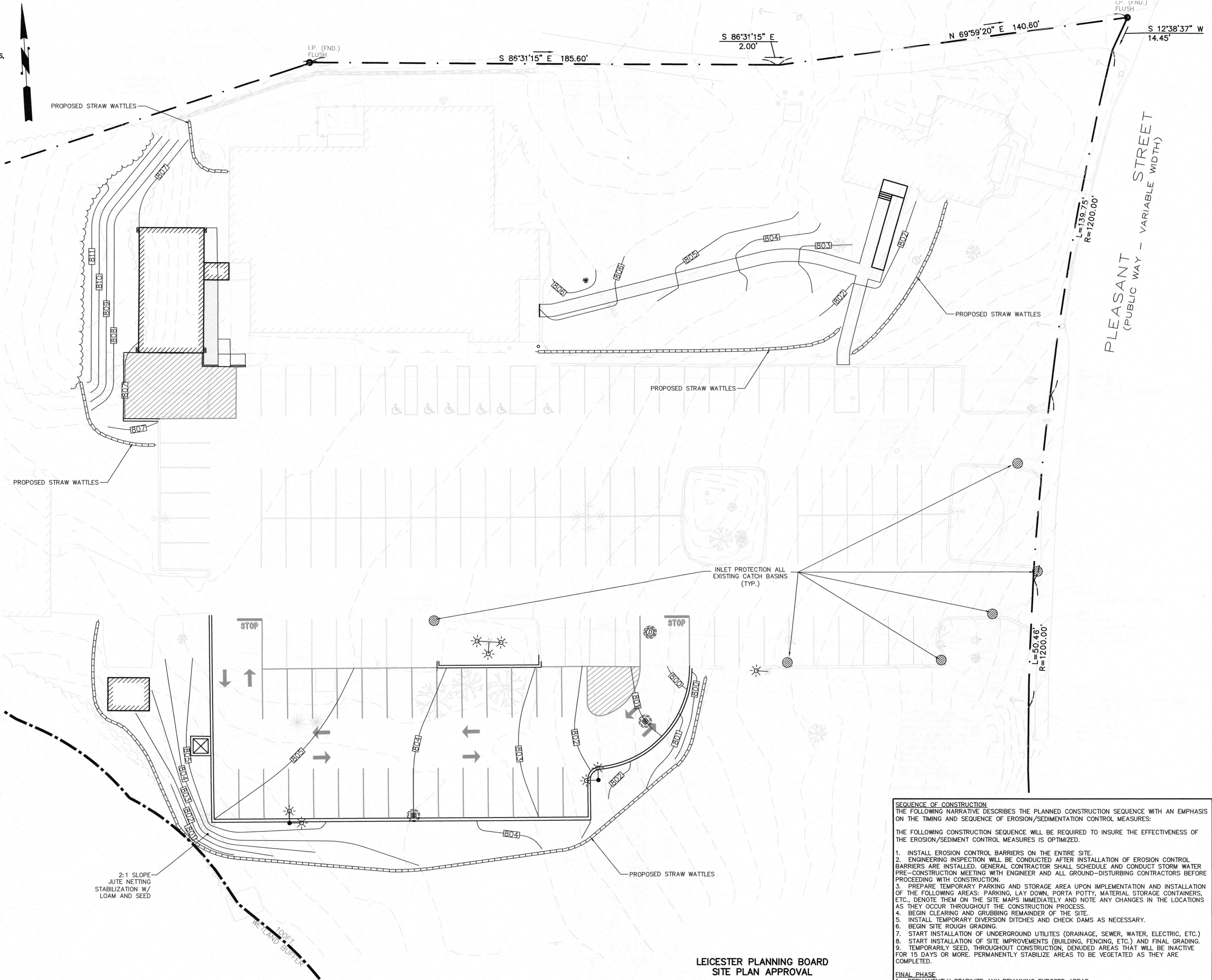
**GENERAL CONDITIONS**

- IF EROSION CONTROL MEASURES ARE DAMAGED BY CONSTRUCTION VEHICLES, ACTS OF VANDALISM, OR SEVERE WEATHER CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY REMOVE SEDIMENT IN THE VICINITY OF THE EROSION CONTROL MEASURES AND REPAIR THESE MEASURES TO A FUNCTIONAL CONDITION.
- IF, DURING OR AFTER CONSTRUCTION, IT BECOMES APPARENT THAT EXISTING EROSION CONTROL MEASURES ARE INCAPABLE OF CONTROLLING EROSION, THE ENGINEER OR THE TOWN MAY REQUIRE ADDITIONAL CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO: ADDITIONAL STRAW WATTLES, HAYBALES, SILT FENCE, SEDIMENT BASINS, MECHANICALLY ANCHORED MULCH, OR ENHANCED DEWATERING FILTRATION.
- NO CONSTRUCTION SHALL PROCEED UNTIL A WRITTEN PROPOSAL OF METHODS TO PREVENT CONSTRUCTION DEBRIS, PAINT, OR OTHER SUCH CONTAMINATED MATERIALS FROM ENTERING A STORM SEWER, THE WETLAND, OR WATERCOURSE HAS BEEN SUBMITTED BY THE CONTRACTOR TO THE OWNER, APPROVED BY THE OWNER AND SUCH METHODS HAVE BEEN IMPLEMENTED AS THE OWNER DIRECTS. THESE MATERIALS SHALL BE COLLECTED AND DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS. THE OWNER MAY ORDER THE CONTRACTOR TO CEASE SUCH ACTIVITY TEMPORARILY IF, IN THE JUDGMENT OF THE OWNER, WIND OR STORM CONDITIONS THREATEN TO CAUSE THE DEPOSIT OF SUCH MATERIAL IN A WATERWAY.
- ALL TEMPORARY FILL SHALL BE STABILIZED DURING USE TO PREVENT EROSION AND SHALL BE SUITABLY CONTAINED TO PREVENT SEDIMENT OF OTHER PARTICULATE MATTER FROM REENTERING A WETLAND OR WATERCOURSE. ALL AREAS AFFECTED BY TEMPORARY FILLS MUST BE RESTORED TO THEIR ORIGINAL CONTOURS OR AS DIRECTED BY THE OWNER, AND REVEGETATED. THE AREA EXTENT OF TEMPORARY FILL OR EXCAVATION SHALL BE CONFINED TO THAT AREA NECESSARY TO PERFORM THE WORK, AS APPROVED BY THE OWNER.
- DUMPING OF OIL, CHEMICALS OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING, AND PROPERLY DISPOSING OF DRAINED OIL, REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL. ALL SPILLS OF SUCH MATERIALS SHALL BE REPORTED IMMEDIATELY BY THE CONTRACTOR TO APPROPRIATE TOWN AND STATE AGENCIES.
- INSPECTIONS:** EROSION CONTROL SHOULD BE INSPECTED DAILY OR AFTER A LEGITIMATE STORM EVENT.

TOTAL LAND DISTURBANCE: 26,500 S.F.±

**GENERAL SITE NOTES:**

- EXISTING CONDITIONS AND TOPOGRAPHY ARE BASED ON A FIELD SURVEY BY McCLURE ENGINEERING, INC. IN DEC 2019.
- ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND DERIVED FROM A PLANS DRAWN BY CLORCO AND CORMIER DATED 5-26-2004. CONTRACTOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
- WETLANDS FLAGGED BY SCOTT MORRISON OF ECOTEC, INC. ON JUNE 25, 2002
- PROPERTY DOES, WORK DOES NOT LIE WITHIN THE SPECIAL FLOOD HAZARD AREA AS REFERENCED ON NATIONAL FLOOD INSURANCE RATE MAP NO. 25027C0783E, FOR COMMUNITY NO. AND DATED JULY 4, 2011.



LEICESTER PLANNING BOARD  
SITE PLAN APPROVAL

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

**SEQUENCE OF CONSTRUCTION**  
THE FOLLOWING NARRATIVE DESCRIBES THE PLANNED CONSTRUCTION SEQUENCE WITH AN EMPHASIS ON THE TIMING AND SEQUENCE OF EROSION/SEDIMENTATION CONTROL MEASURES:

THE FOLLOWING CONSTRUCTION SEQUENCE WILL BE REQUIRED TO INSURE THE EFFECTIVENESS OF THE EROSION/SEDIMENT CONTROL MEASURES IS OPTIMIZED.

- INSTALL EROSION CONTROL BARRIERS ON THE ENTIRE SITE.
- ENGINEERING INSPECTION WILL BE CONDUCTED AFTER INSTALLATION OF EROSION CONTROL BARRIERS ARE INSTALLED. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
- PREPARE TEMPORARY PARKING AND STORAGE AREA UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA POTTY, MATERIAL STORAGE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- BEGIN CLEARING AND GRUBBING REMAINDER OF THE SITE.
- INSTALL TEMPORARY DIVERSION DITCHES AND CHECK DAMS AS NECESSARY.
- BEGIN SITE ROUGH GRADING.
- START INSTALLATION OF UNDERGROUND UTILITIES (DRAINAGE, SEWER, WATER, ELECTRIC, ETC.)
- START INSTALLATION OF SITE IMPROVEMENTS (BUILDING, FENCING, ETC.) AND FINAL GRADING.
- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 15 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE COMPLETED.

**FINAL PHASE**

- PERMANENTLY STABILIZE ANY REMAINING EXPOSED AREAS
- TEMPORARY DRAINAGE DITCHES TO BE REMOVED AND STABILIZED.
- ONCE ENTIRE SITE IS STABILIZED, CALL FOR FINAL INSPECTION FROM SITE MONITOR.

**NOTES:**

- ONCE CONSTRUCTION IS COMPLETED, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH LOAM AND SEED UNLESS OTHERWISE SPECIFIED.
- INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.25 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE KEPT ON FILE AND MADE AVAILABLE UPON REQUEST AT THE TOWN OR TOWNS CONSULTANT.
- EXTRA EROSION CONTROL MATERIALS (WATTLES) EQUAL TO 100 LF SHALL BE KEPT ON SITE FOR EMERGENCY REPAIRS. THESE MATERIALS SHALL BE KEPT COVERED.

HOR. SCALE IN FEET: 1"=20'

**PETER C. ENGLE P.E.**  
PROFESSIONAL ENGINEER  
MA LIC. NO. 53736



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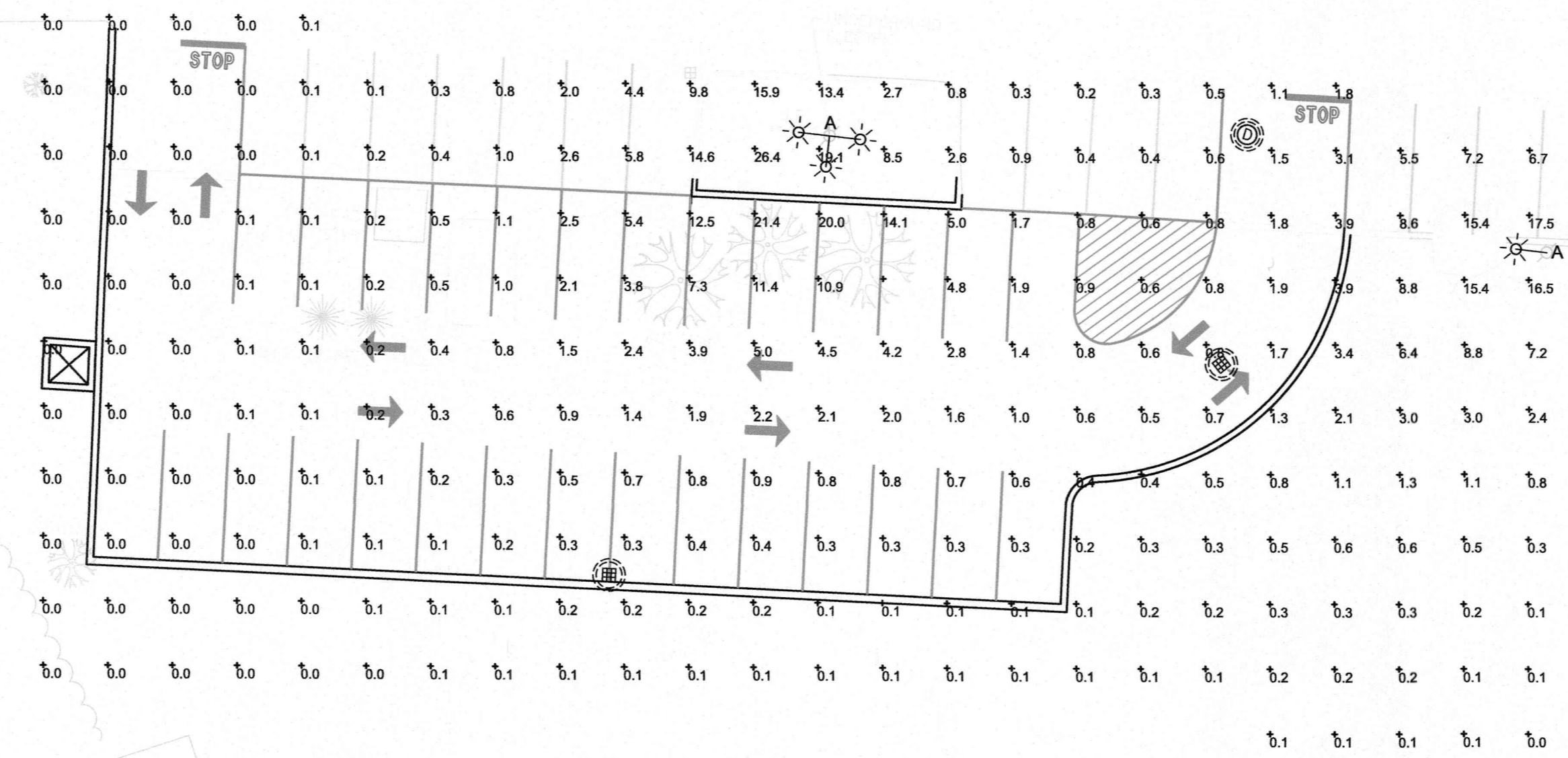
**SITE PLAN MODIFICATION**  
674 PLEASANT STREET  
LEICESTER, MA 01542  
PREPARED FOR  
GREENVILLE BAPTIST CHURCH  
674 PLEASANT STREET  
LEICESTER, MA 01542

DRAWN BY: PE  
DATE: 2/14/2020  
CHK BY: PE  
SCALE: 1" = 20'  
PROJ. NO. 151-2058-K

**SEDIMENT AND EROSION CONTROL**  
**C-4**

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE THE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

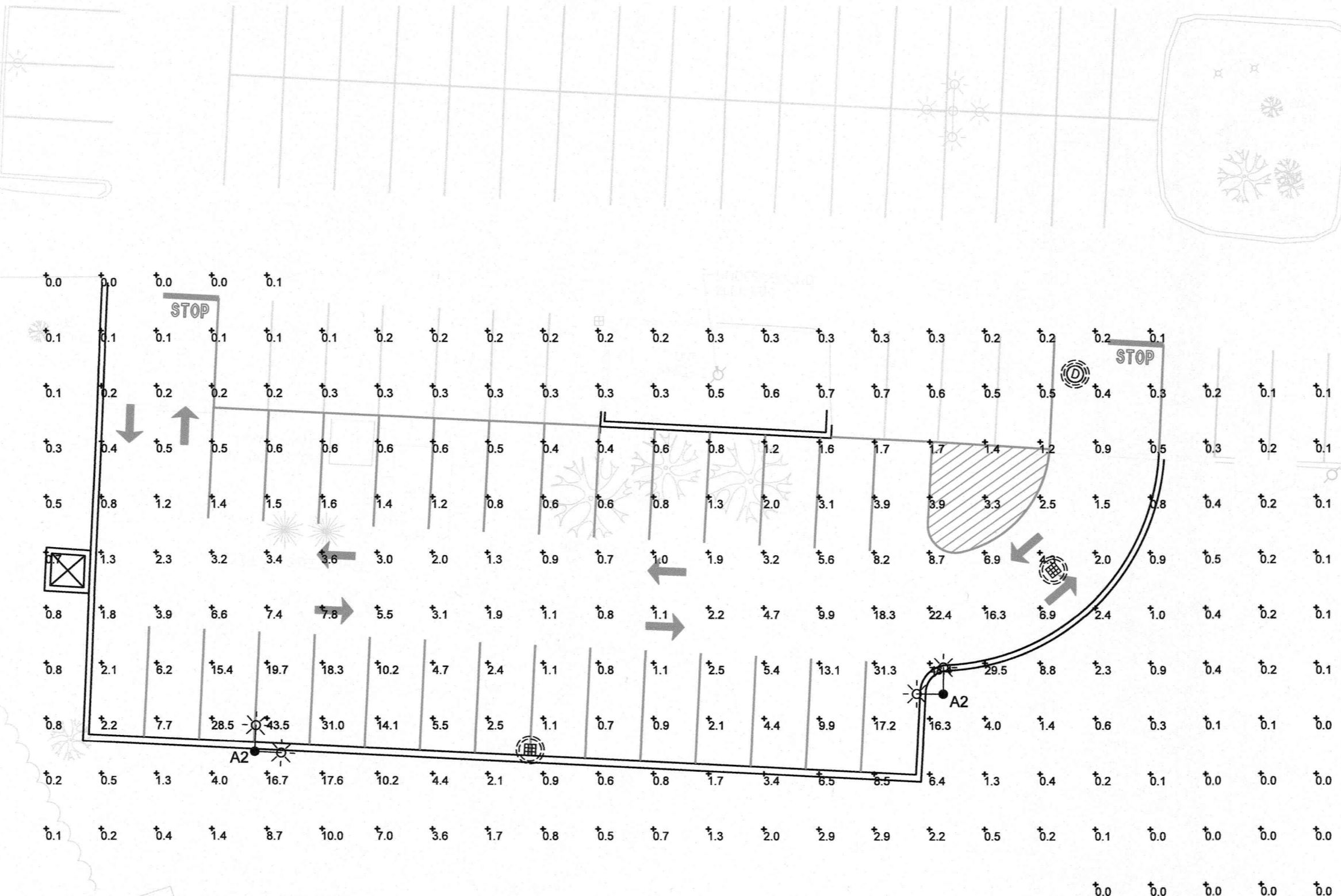
THIS LIGHTING PLAN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMP/LED'S AND OTHER VARIABLE FIELD CONDITIONS. CALCULATIONS DO NOT INCLUDE OBSTRUCTIONS SUCH AS BUILDINGS, CURBS, LANDSCAPING, OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS NOTED. FIXTURE NOMENCLATURE NOTED DOES NOT INCLUDE MOUNTING HARDWARE OR POLES. THIS DRAWING IS FOR PHOTOMETRIC EVALUATION PURPOSES ONLY AND SHOULD NOT BE USED AS A CONSTRUCTION DOCUMENT OR AS A FINAL DOCUMENT FOR ORDERING PRODUCT.



PHOTOMETRIC OPTION A (EXISTING UTILITY POLES) 1"=20'

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
EXPANSION LOT	Illuminance	Fc	2.06	26.4	0.0	N.A.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	UDF	LLF	Arr. Lum. Lumens	Arr. Watts
	3	A	SINGLE	XGBM-FT-LED-HO-NW-SINGLE-15'WH	1.000	1.000	0.900	23512	289.1



PHOTOMETRIC OPTION B (NEW LIGHT POLES) 1"=20'

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
EXPANSION LOT	Illuminance	Fc	3.29	48.4	0.4	N.A.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	UDF	LLF	Arr. Lum. Lumens	Arr. Watts
	2	A2	2 @ 90 DEGREEESA	XGBM-FT-LED-HO-NW-D90-15'WH	1.000	1.000	0.900	47024	578.2

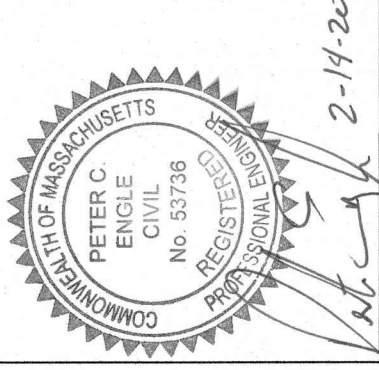
LEICESTER PLANNING BOARD  
SITE PLAN APPROVAL

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

HOR. SCALE IN FEET: 1"=20'

REV	DATE	DESCRIPTION	MADE APVD

**PETER C. ENGLE P.E.**  
PROFESSIONAL ENGINEER  
MA LIC. NO. 53736



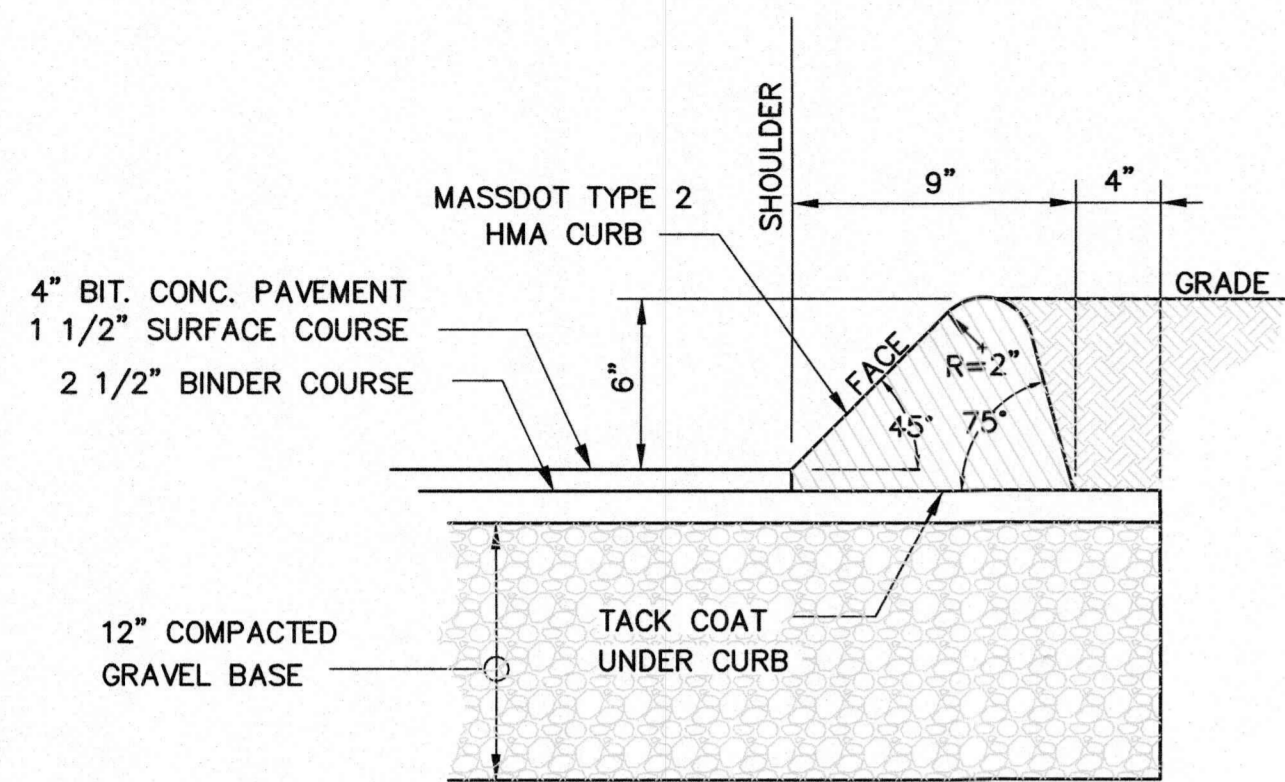
**McCLURE ENGINEERING, INC**  
119 Worcester Road  
Charlton, MA 01507  
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**SITE PLAN MODIFICATION**  
674 PLEASANT STREET  
LEICESTER, MA 01542  
PREPARED FOR  
GREENVILLE BAPTIST CHURCH  
674 PLEASANT STREET  
LEICESTER, MA 01542

DRAWN BY: PE  
DATE: 2/14/2020  
CHK BY: PE  
SCALE: 1" = 20'  
PROJ. NO. 151-2058-K

PHOTOMETRIC LIGHTING PLAN

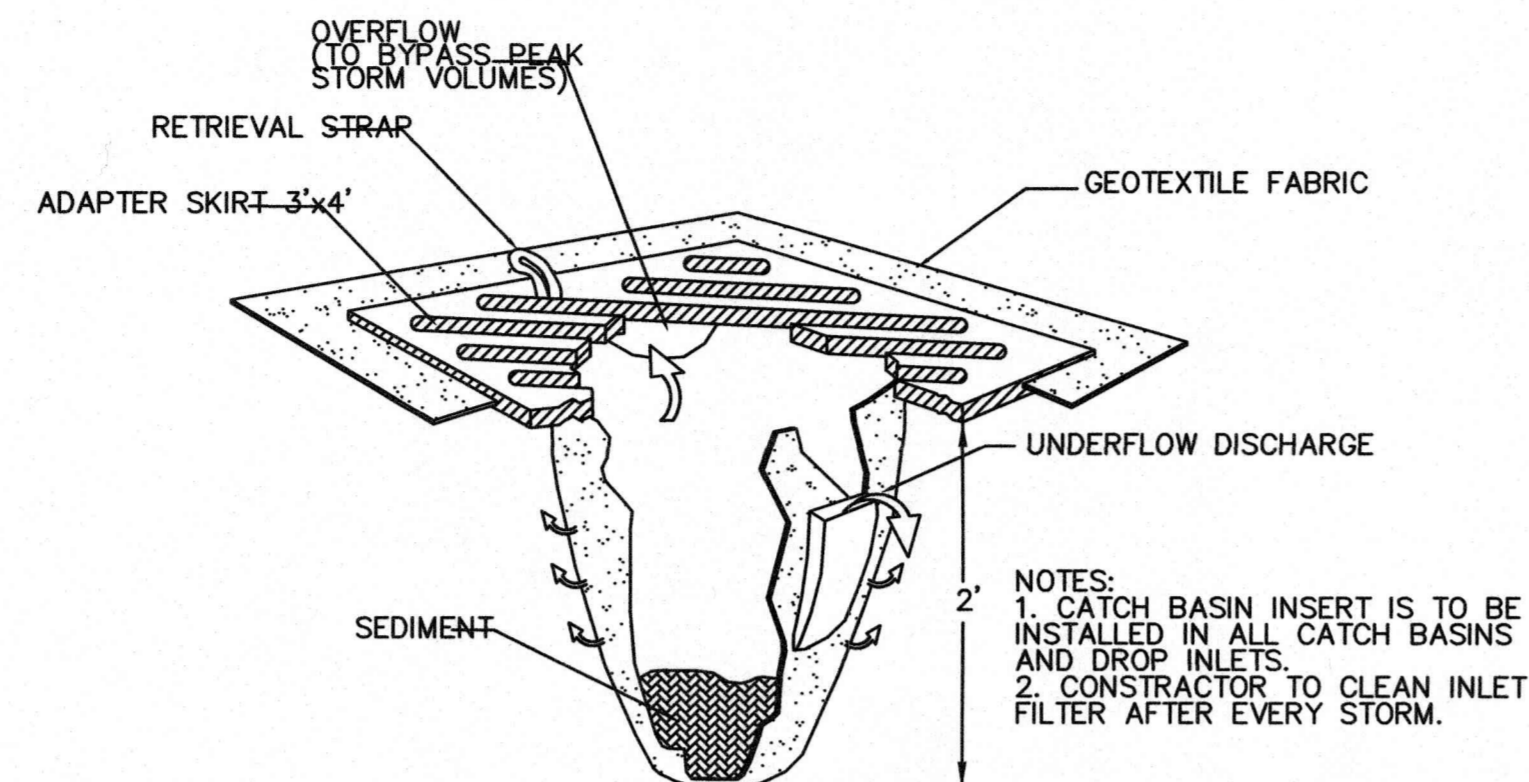
**C-5**



NOTE: CURB TYPE TO MATCH EXISTING TYPE OF CURB

**HOT MIX ASPHALT PAVEMENT & CURB DETAIL**

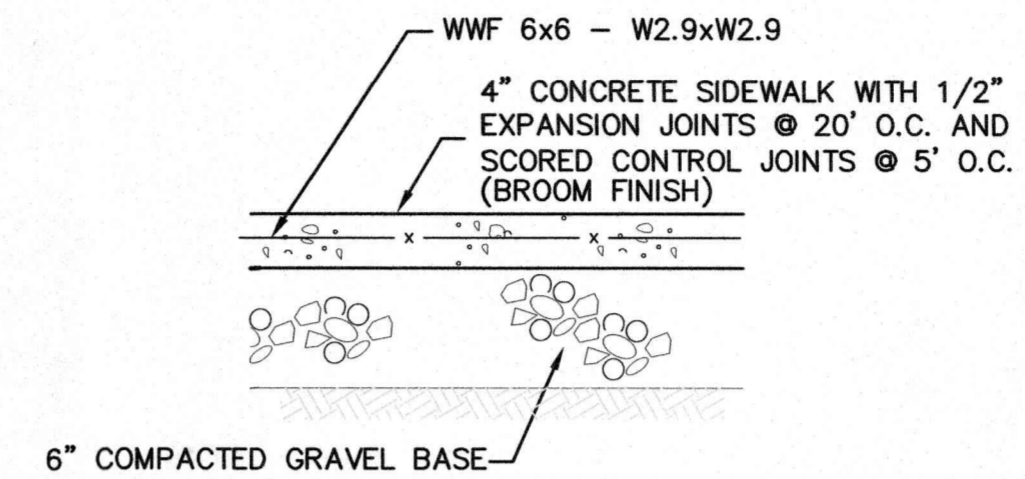
NOT TO SCALE



NOTES:  
1. CATCH BASIN INSERT IS TO BE INSTALLED IN ALL CATCH BASINS AND DROP INLETS.  
2. CONSTRUCTOR TO CLEAN INLET FILTER AFTER EVERY STORM.

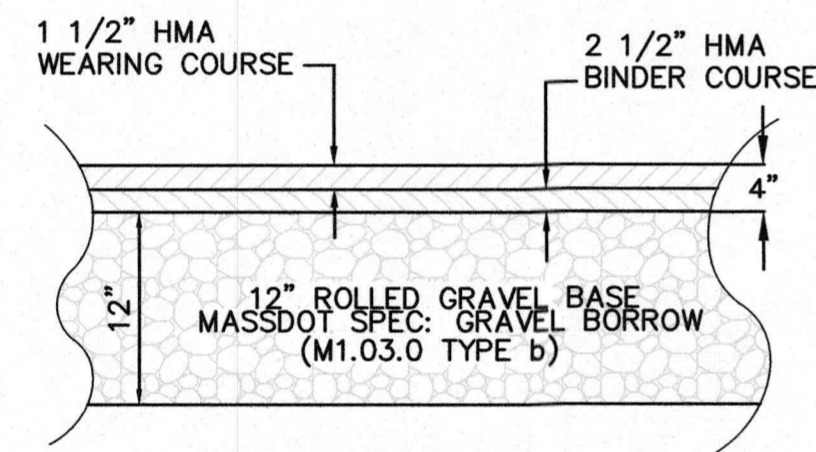
**CATCH BASIN INLET FILTER "SILT SACK"**

NOT TO SCALE



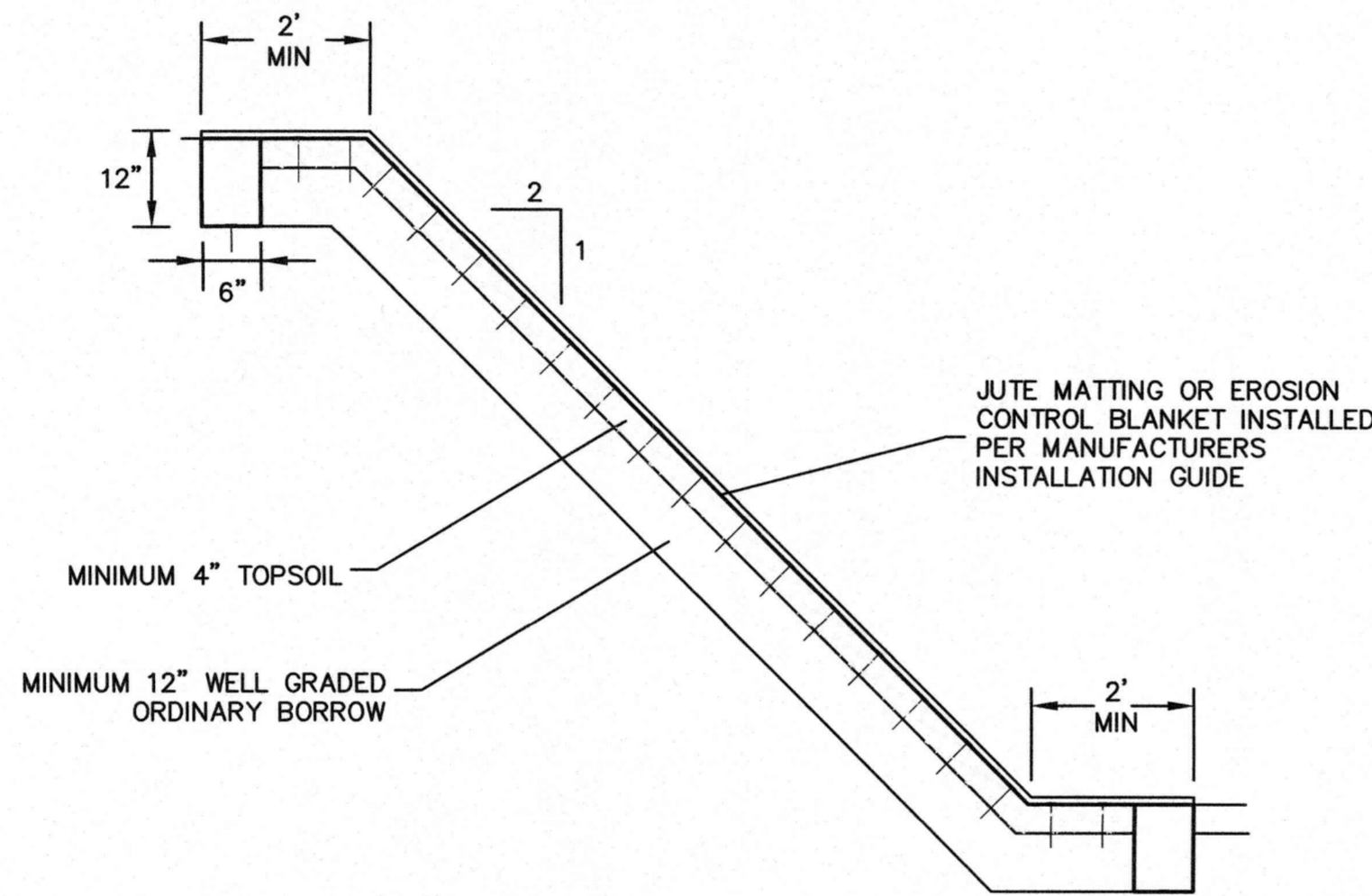
**TYPICAL SIDEWALK SECTION**

NOT TO SCALE



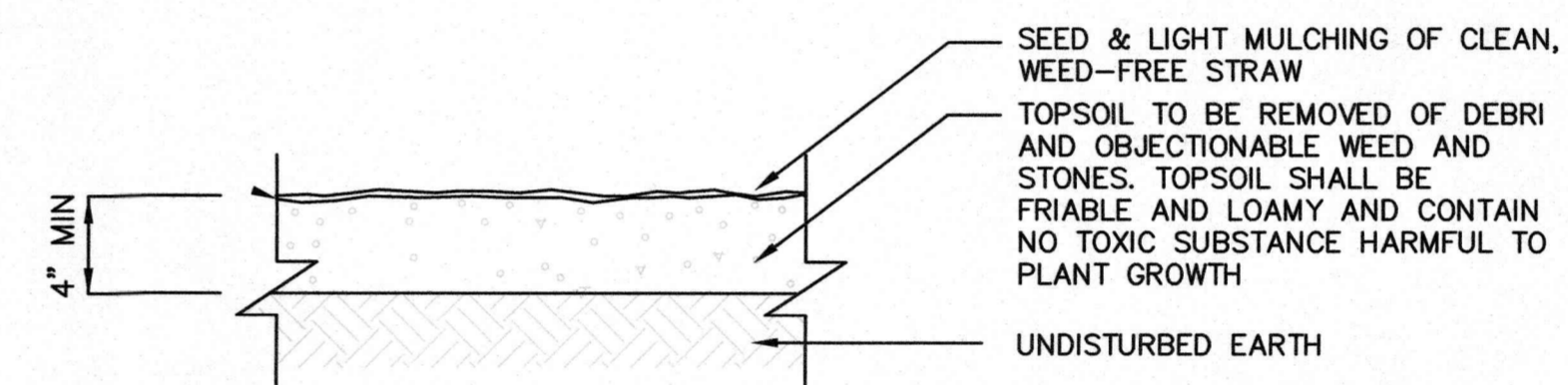
**ON-SITE PAVEMENT SECTION**

NOT TO SCALE



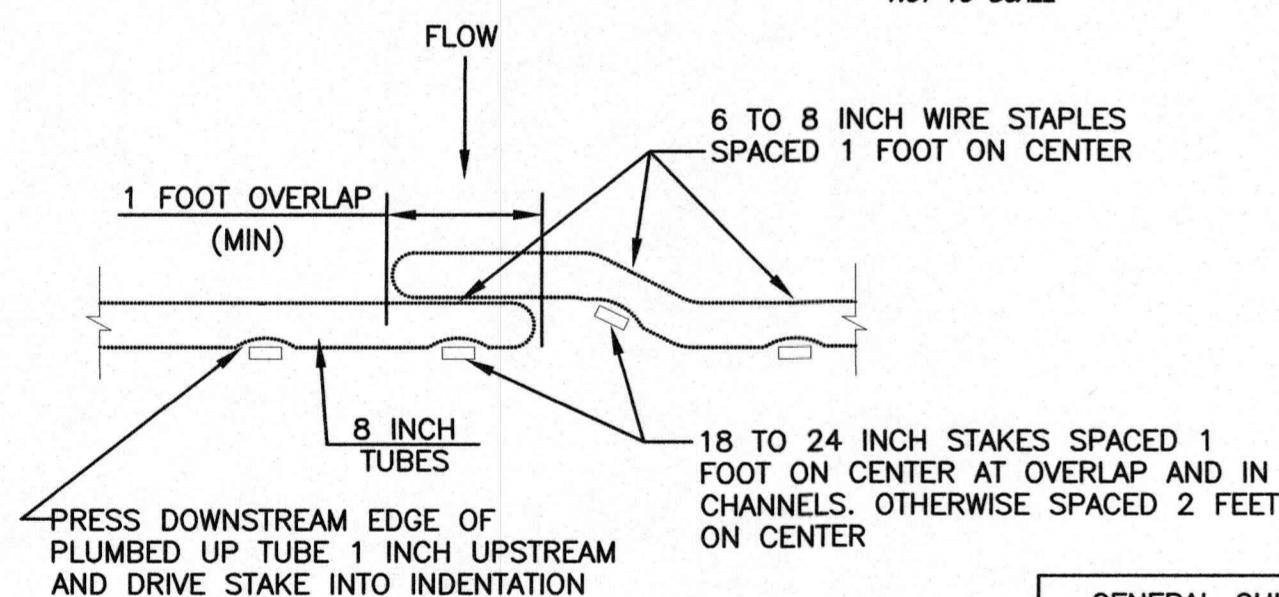
**2:1 SLOPE STABILIZATION TREATMENT**

NOT TO SCALE



**TOP SOIL & SEEDING DETAIL**

NOT TO SCALE



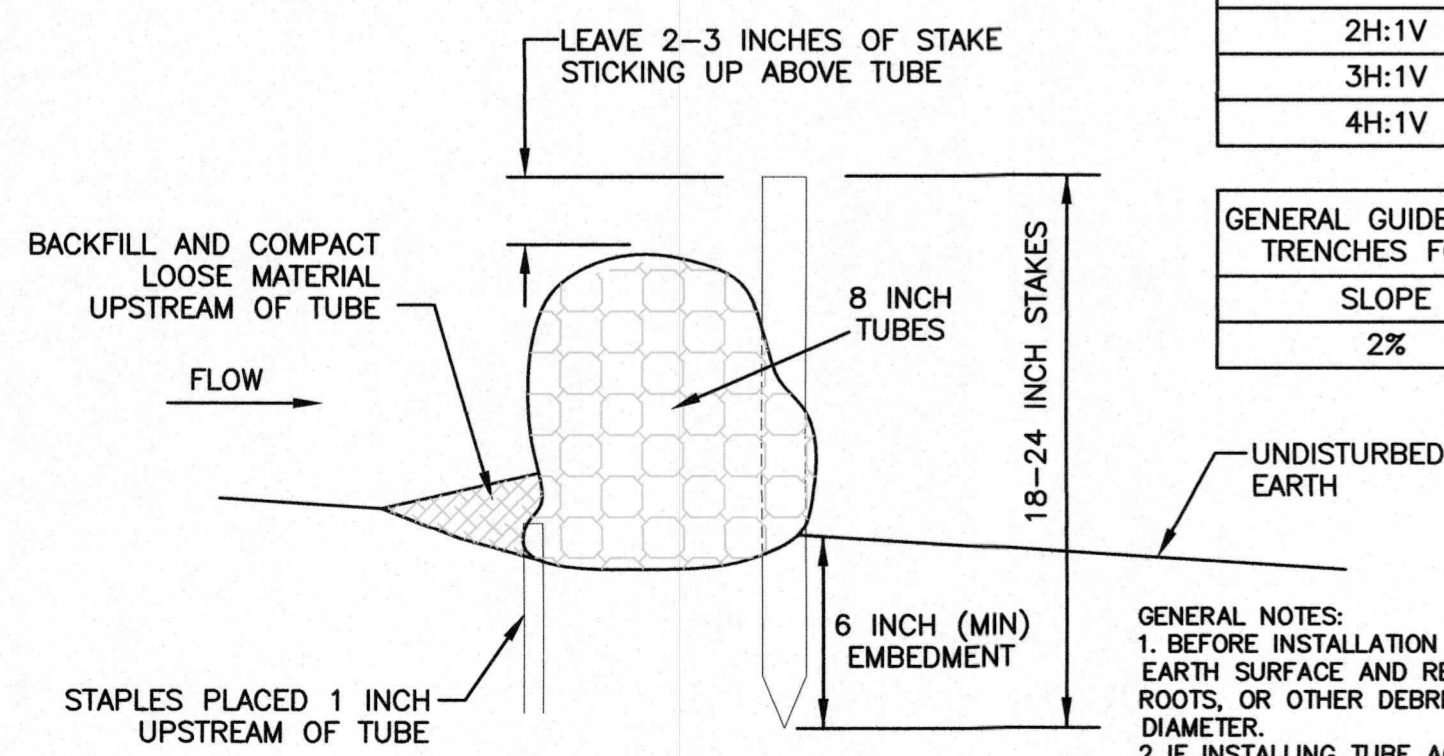
**OVERLAP/JOINT DETAIL**

GENERAL GUIDELINES FOR SPACING OF TUBE TRENCHES FOR SLOPE INSTALLATIONS

SLOPE GRADIENT	TUBE INTERVAL
1H:1V	15 FEET
2H:1V	25 FEET
3H:1V	35 FEET
4H:1V	50 FEET

GENERAL GUIDELINES FOR SPACING OF TUBE TRENCHES FOR CHANNEL INSTALLATIONS

SLOPE	TUBE INTERVAL
2%	25 FEET

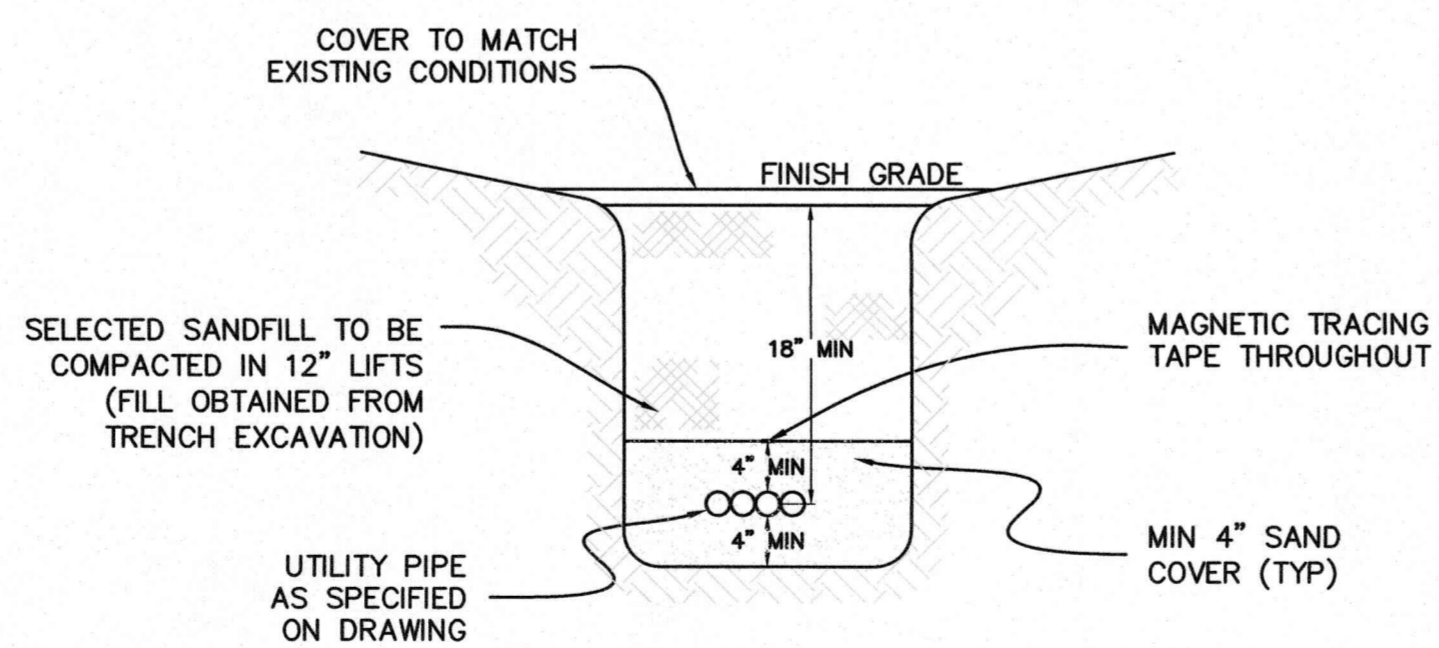


**SECTION**

**PERIMETER EROSION & SEDIMENTATION CONTROL**

NOT TO SCALE

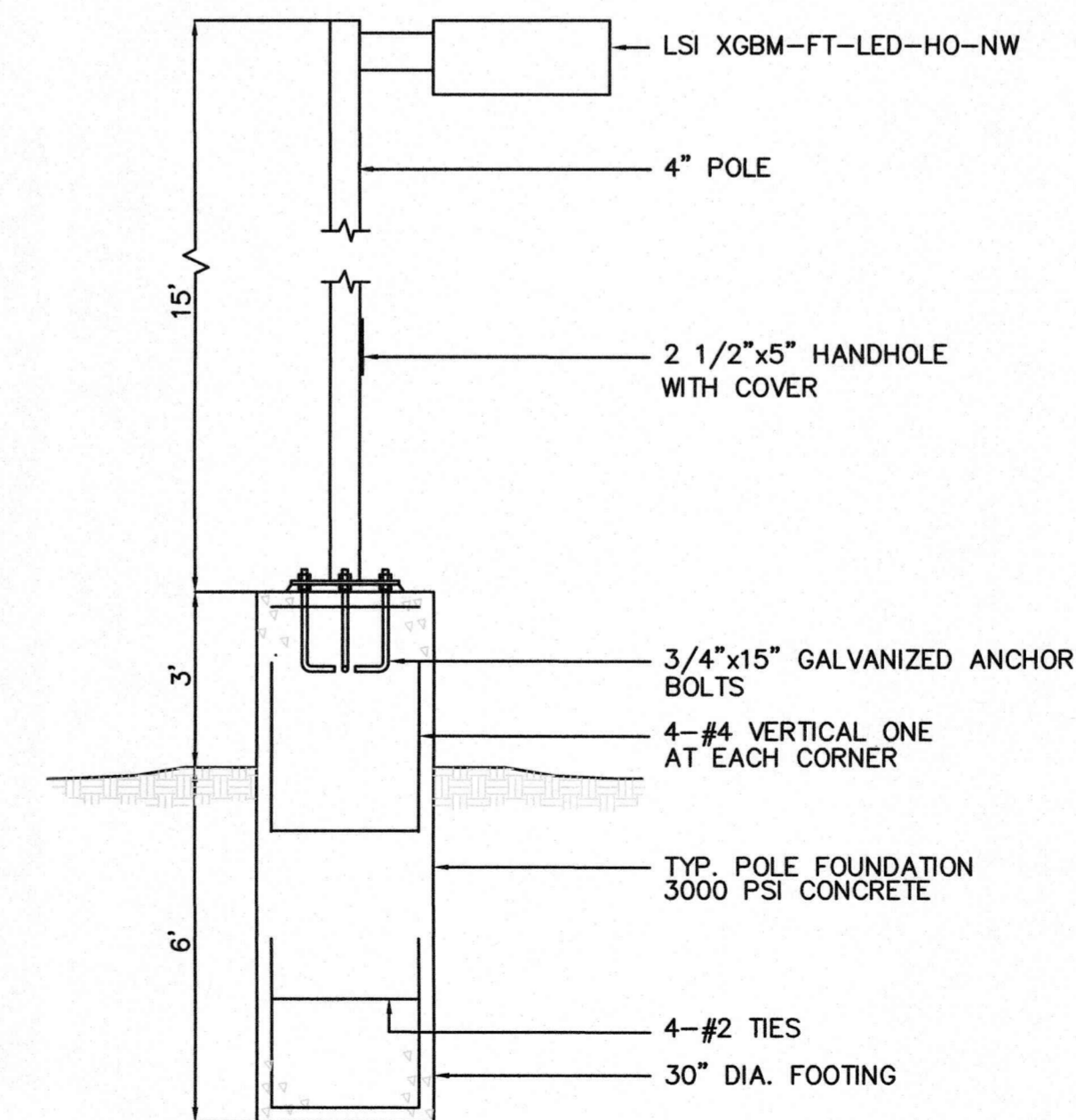
GENERAL NOTES:  
1. BEFORE INSTALLATION OF TUBE, SMOOTH AND SHAPE EARTH SURFACE AND REMOVE ALL STONES, ROOTS, OR OTHER DEBRIS GREATER THAN 2 INCHES IN DIAMETER.  
2. IF INSTALLING TUBE ACROSS A DITCH, THEN EXCAVATE A PLACEMENT TRENCH ABOUT 3 INCHES DEEP.  
3. TUBES SHALL BE OF 100% BIODEGRADABLE MATERIAL.



NOTES: 1) TRENCH DEWATERING SHALL NOT BE DISCHARGED INTO RESOURCE AREAS. ALL DEWATERING DISCHARGE SHALL BE TO TEMPORARY SEDIMENTATION BASINS. (20'x20'x1' DEEP MINIMUM)

**COMMUNICATIONS/ELEC TRENCH DETAIL**

NOT TO SCALE



**TYPICAL LIGHT POLE FOOTING DETAIL**

NOT TO SCALE

LEICESTER PLANNING BOARD  
SITE PLAN APPROVAL

HOR. SCALE IN FEET: 1"=400'  
0 400 800 1200

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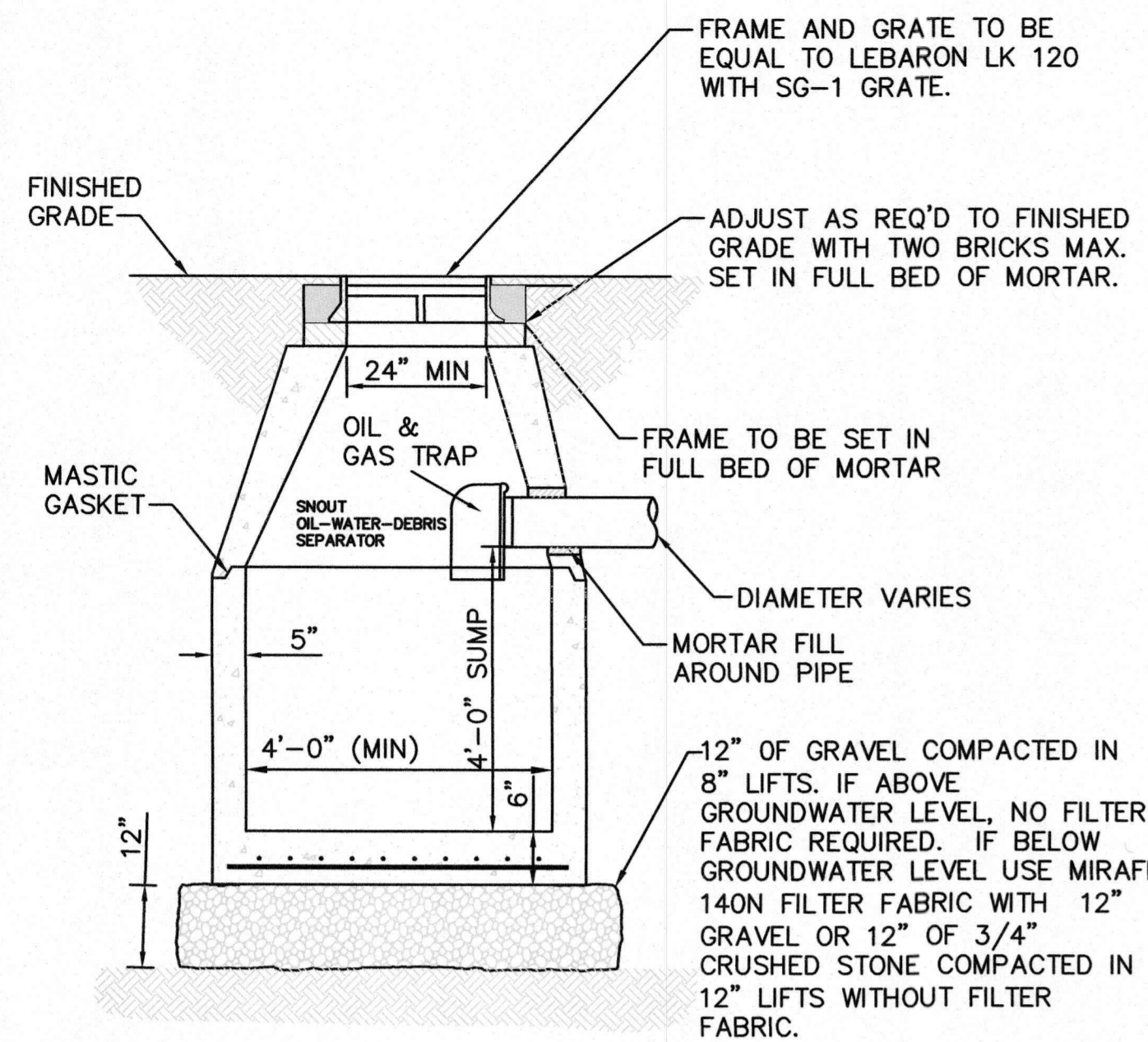
**McCLURE**  
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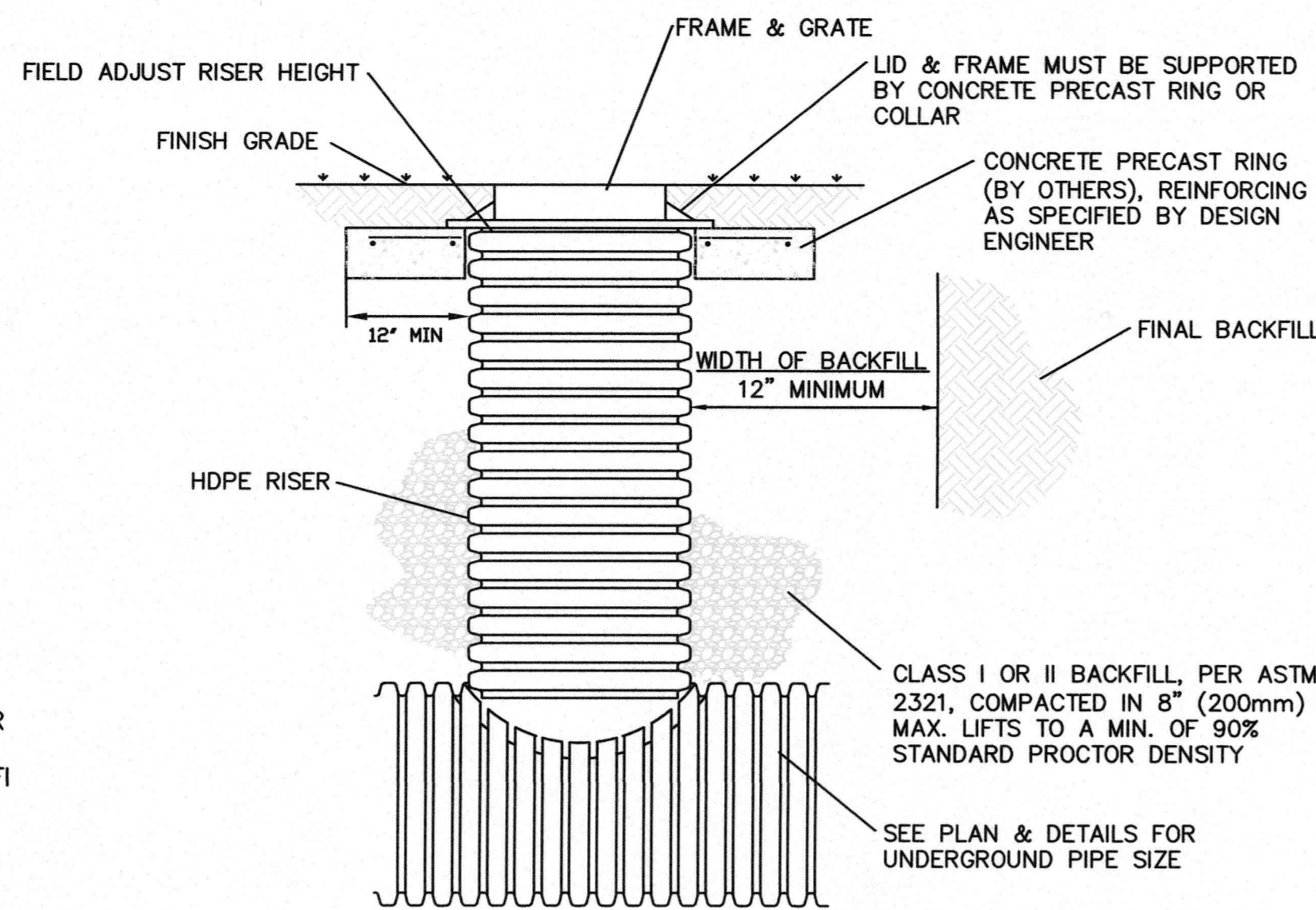
DRAWN BY: ARB  
DATE: 2/14/2020  
CHK BY: PE  
SCALE: AS NOTED  
PROJ. NO. 151-2058-K

DETAIL SHEET

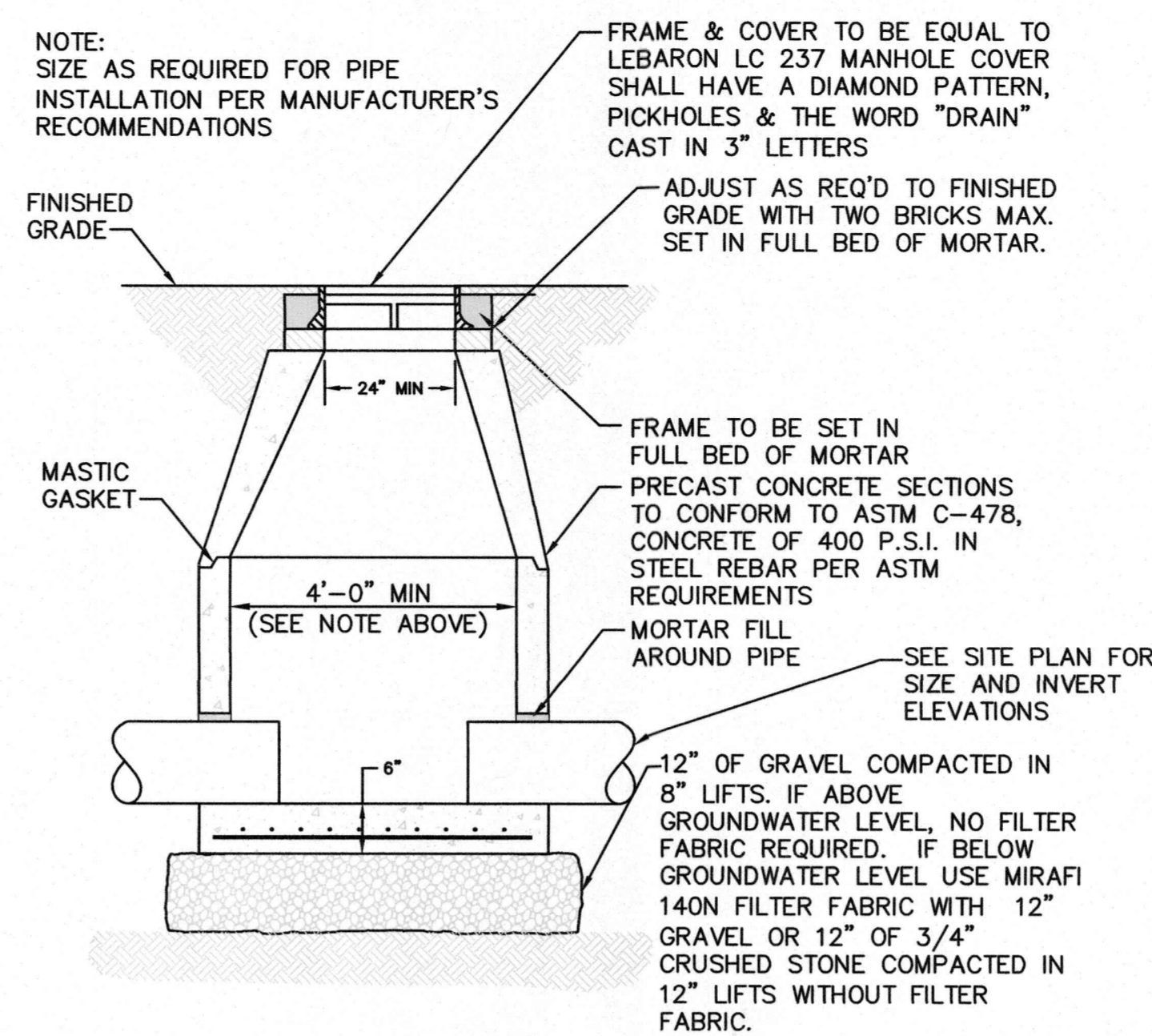
C-6



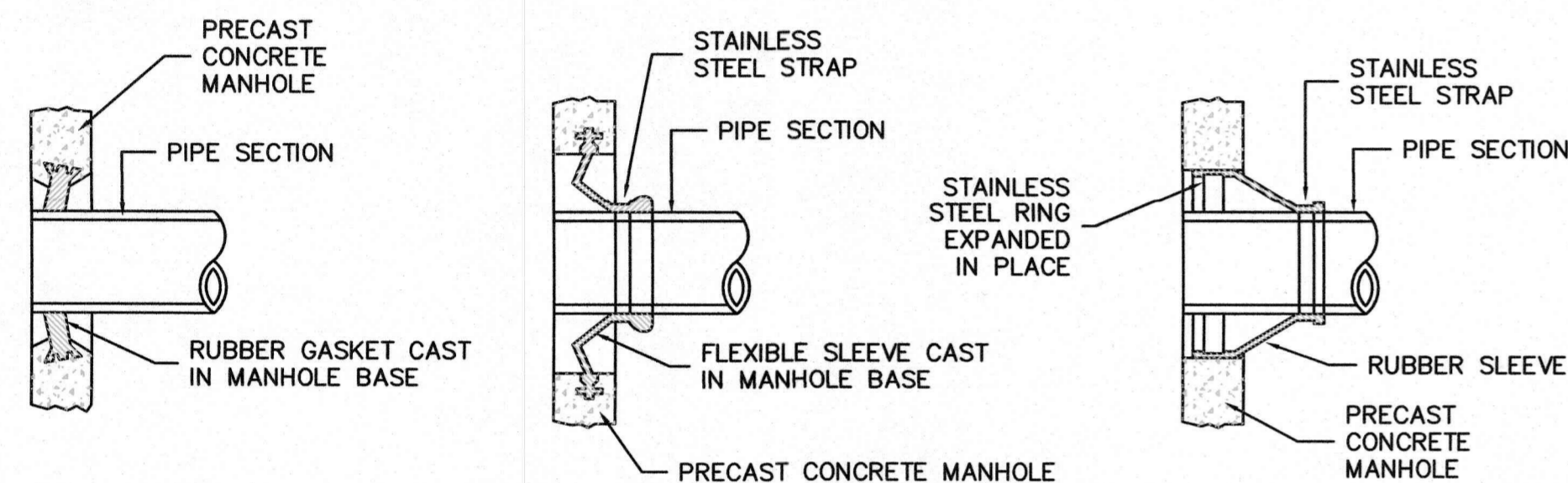
**STANDARD DEEP SUMP CATCH BASIN DETAIL**  
NOT TO SCALE



**STANDARD AREA DRAIN/ RISER DETAIL**  
NOT TO SCALE

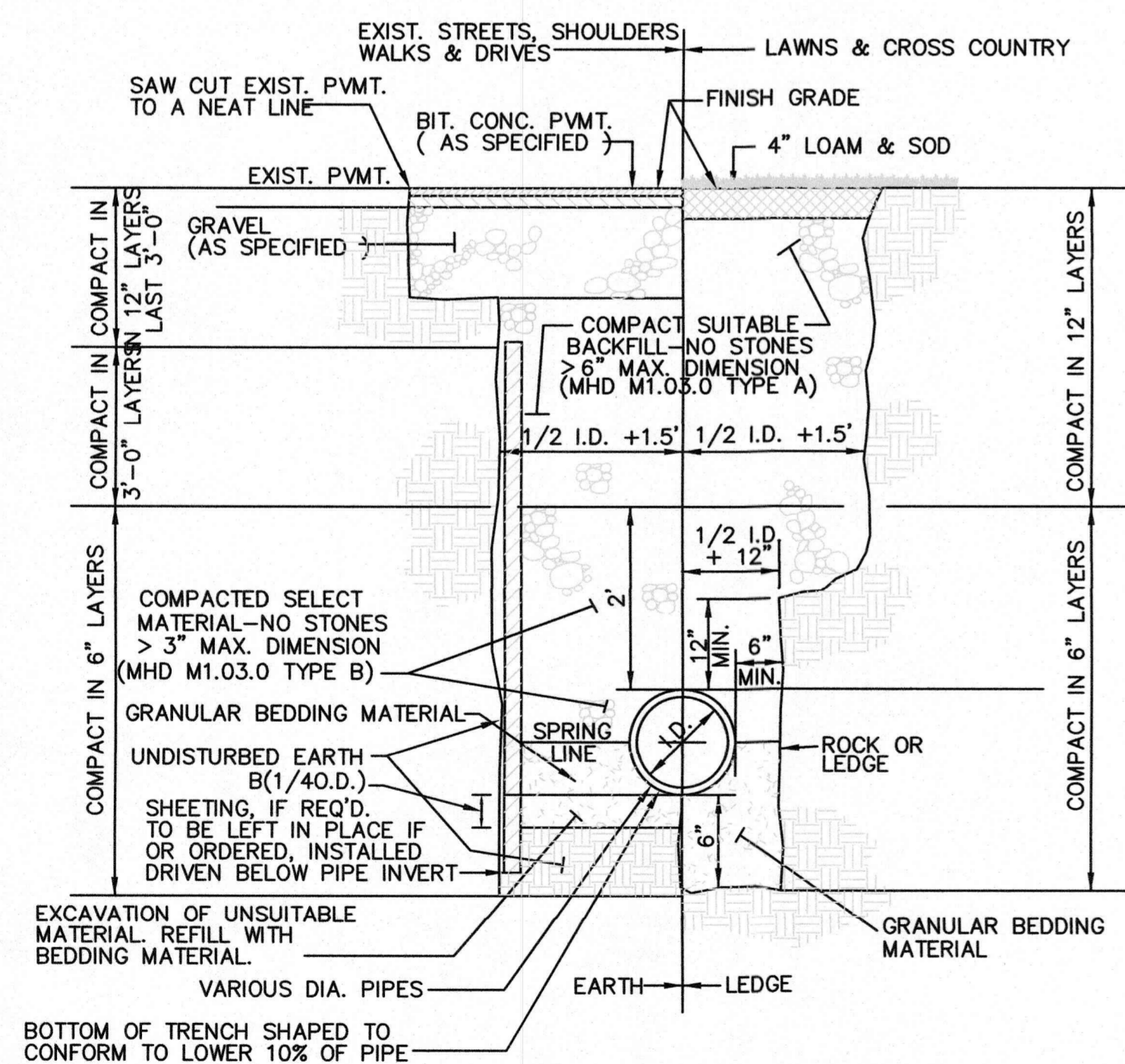


**STANDARD DRAIN MANHOLE DETAIL**  
NOT TO SCALE



**MANHOLE SEAL DETAILS**  
NOT TO SCALE

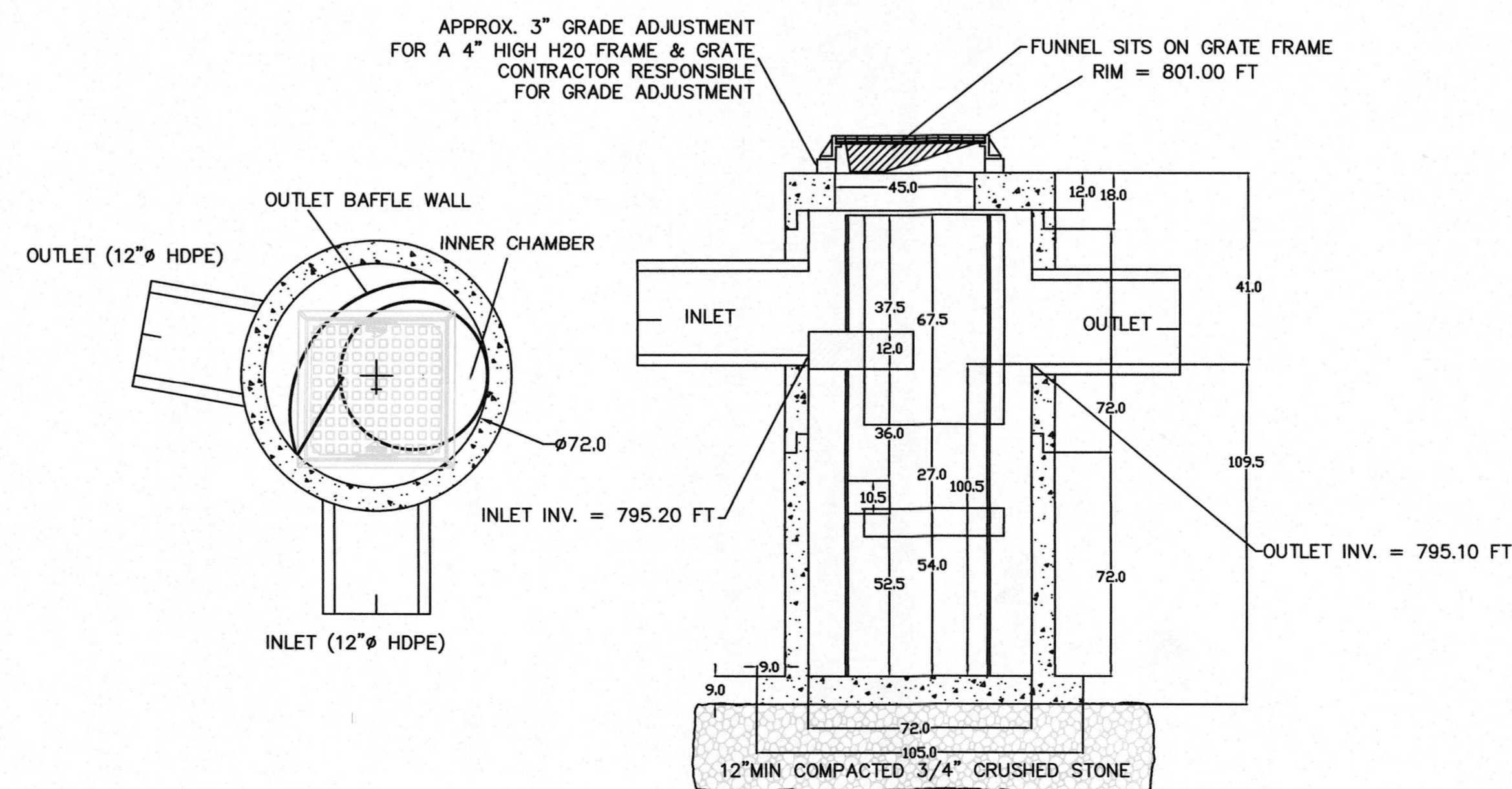
**NOTE:**  
1) CONTRACTOR SHALL BE REQUIRED TO MAKE ALL PIPE PENETRATIONS WATER TIGHT.  
2) THE PIPE TO MANHOLE CONNECTION SHALL BE A FLEXIBLE RUBBER PIPE SLEEVE EITHER CAST IN PRECAST MANHOLE SECTION OR HELD IN PLACE BY STAINLESS STEEL RINGS EXPANDED IN PLACE TO MEET SPECIFICATIONS OF ASTM C923.



**NOTES:**  
1. GRANULAR BEDDING MATERIAL SHALL CONSIST OF 3/4" CRUSHED STONE (MHD M2.01.4) OR COMPACTED GRAVEL BORROW (MHD M1.03.0 TYPE C)  
2. TRENCH BEDDING & BACKFILL FOR SANITARY SEWERS SHALL BE CLASS B AS DEFINED BY WPCF-MOPQ, AS SHOWN HEREIN.

**TYPICAL DRAINAGE TRENCH DETAIL**  
NOT TO SCALE

TYPICAL BEDDING DIMENSIONS		
PIPE MATERIAL - PVC (SDR 35)		
I.D.	O.D.	B(1/4 O.D.)
4"	4.215"	1.05"
6"	6.275"	1.57"
8"	8.400"	2.10"

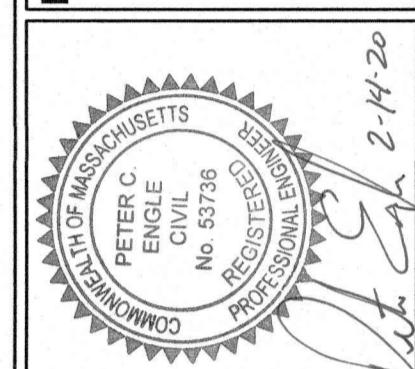


**HYDROWORKS HGA: DETAIL**  
NOT TO SCALE

HOR. SCALE IN FEET: 1" = 400'

REV	DATE	DESCRIPTION	MADE BY

PETER C. ENGLE, P.E.  
PROFESSIONAL ENGINEER  
MA LIC. NO. 53736



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LEICESTER PLANNING BOARD  
SITE PLAN APPROVAL

DRAWN BY: ARB  
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DETAIL SHEET

C-7