PREPARED BY:

COASTAL ENGINEERING COMPANY, INC.

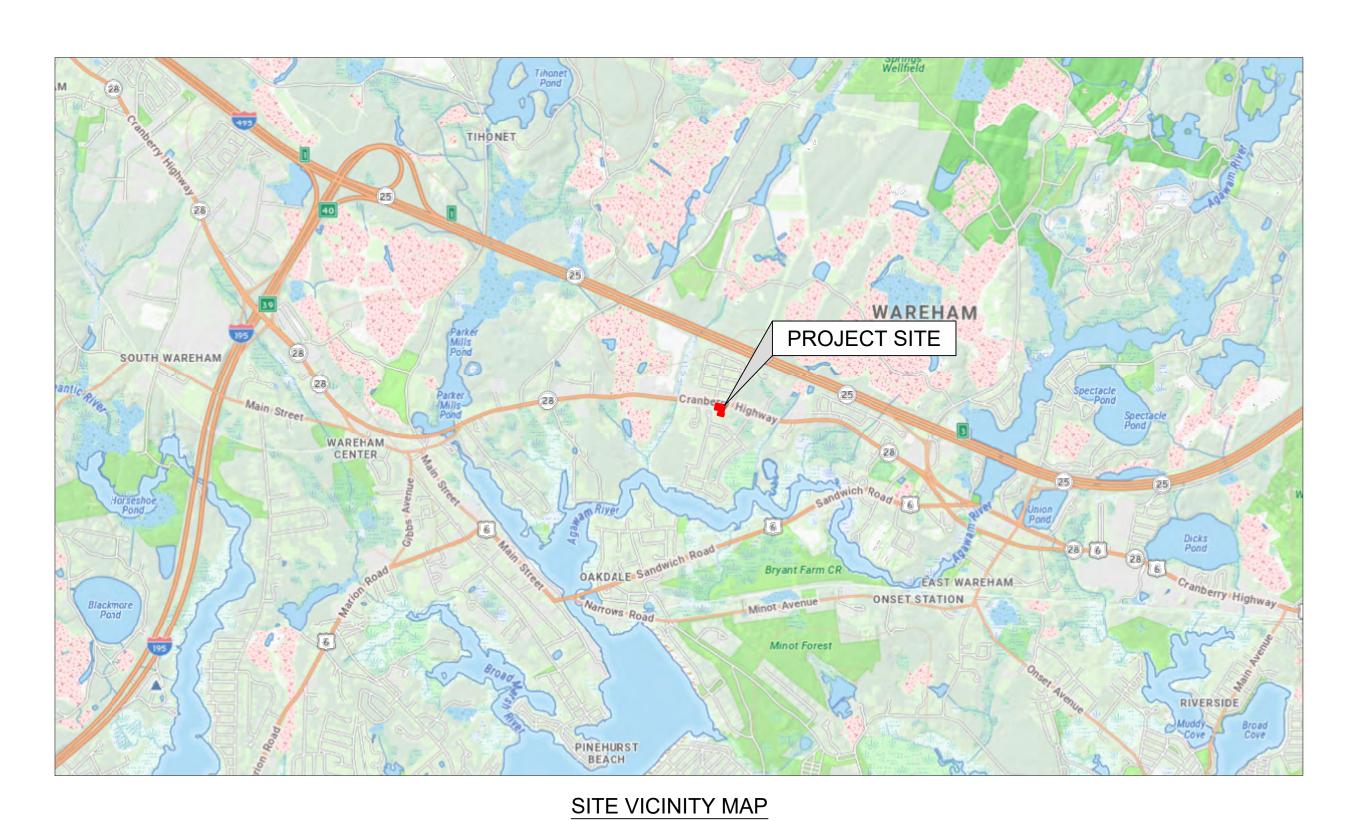
(A TIGHE AND BOND COMPANY)

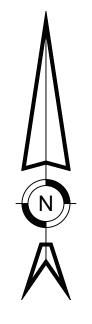
PROJECT NAME:

GRACE LIGHTHOUSE CHURCH

PROJECT ADDRESS:

2703 CRANBERRY HIGHWAY WAREHAM, MA 02571







SITE LOCATION MAP

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SHEET#	SHEET TITLE	SHEET DESCRIPTION	DATE
01	G-001	TITLE SHEET	2024-01-30
02	G-002	LEGEND, ABBREVIATIONS AND GENERAL NOTES	2024-01-30
03	V-101	EXISTING CONDITIONS PLAN	2023-12-29
04	CE101	EROSION & SEDIMENTATION CONTROL PLAN	2024-01-30
05	CM101	LAYOUT AND MATERIALS PLAN	2024-01-30
06	CG101	GRADING AND DRAINAGE PLAN	2024-01-30
07	CU101	SEWAGE DISPOSAL SYSTEM & UTILITIES PLAN	2024-01-30
08	C-501	SITE DETAILS (SHEET 1)	2024-01-30
09	C-502	SITE DETAILS (SHEET 2)	2024-01-30
10	A1.1	FLOOR PLAN	2024-01-16
11	A2.1	BUILDING ELEVATIONS	2024-01-16
12	A3.1	SECTION @ STAIR & RAMP	2024-01-16
13	A4.1	ROOM ELEVATIONS@BATHROOMS	2024-01-16
14	A5.1	DETAIL FLOOR PLANS	2024-01-16
15	S-001	GENERAL NOTES	2023-07-15
16	S-002	FOUNDATION PLAN	2023-07-15
17	S-003	FIRST FLOOR FRAMING PLAN	2023-07-15
18	S-004	ROOF FRAMING PLAN	2023-07-15

LANDSCAPE PLAN

PLANTING DETAILS

PHOTOMETRIC LIGHTING PLAN

L2.0

21 LO-159397

2024-01-30

2024-01-30

2024-01-02

SHEET INDEX

LIST OF CONSULTANTS:

LAND SURVEYOR
CIVIL ENGINEER
STRUCTURAL ENGINEER
COASTAL ENGINEERING COMPANY
A TIGHE AND BOND COMPANY
260 CRANBERRY HIGHWAY
ORLEANS, MA 02653

BUILDING ARCHITECT:
CATALYST ARCHITECT INTERIORS
203 WILLOW ST, SUITE A
YARMOUTHPORT, MA 02675

LANDSCAPE ARCHITECT:

JENICK STUDIO

88 ROUTE 6A, UNIT 2B

SANDWICH, MA 02563





CHK	DWN	DESCRIPTION	DATE	REV

GRACE LIGHTHOU
CHURCH
COURSES

2703 CRANBERRY HIGHWAY

2024-01-30
BY CHECKED BY

PROJECT NUMBER
C19495.00
PROJECT STATUS
SITE PLAN REVIEW SET

SITE PLAN REVIEW
SHEET DESCRIPTION

TITLE SHEET

SHEET TITLE

G-001

SHEET 01 OF 09

THIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF

CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

		ABBREVI	ATIONS			LEG	END	
ABDN('D)	ABANDON(ED)	LOW	LIMIT OF WORK	EXISTING		PROPOSED	EXISTING	
ABUT	ABUTMENT	LF	LINEAR FEET					
ACC	ACCESSIBLE	LP	LOW POINT	في	ACCESSIBLE PARKING	<u></u>	———— OHC ————	OVERHEAD CABLE LINE
ADD'L	ADDITIONAL	LS	LUMP SUM		BASELINE OFFSET	215	OHE	OVERHEAD ELECTRIC LINE
ADJ	ADJACENT	MH	MANHOLE		BASELINE STATION	13+00	OHT	OVERHEAD TELEPHONE LINE
APPROX	APPROXIMATE	MAX	MAXIMUM		BOTTOM OF BANK		OHW	OVERHEAD WIRE
ASPH	ASPHALT	MJ	MECHANICAL JOINT	V V	BOTTOM OF BANK	V V		OVERHEAD WIRE
BFP	BACK FLOW PREVENTER	MIN	MINIMUM	②	BOULDER	Ø	P	POST
BL BSMT	BASELINE BASEMENT	MISC MON	MISCELLANEOUS MONUMENT	•	BOUND			POST RAIL FENCE
BE	BASEMENT ELEVATION	N	NORTH	(TV)	CABLE BOX	TV	PB	PULL BOX
BM	BENCHMARK	N/A	NOT APPLICABLE					
BIT	BITUMINOUS	NIC	NOT IN CONTRACT	=	CATCH BASIN		+++++++++++++++++++++++++++++++++++++++	RAILROAD TRACKS
ВОТ	BOTTOM	NTS	NOT TO SCALE	X	CHAIN LINK FENCE	x		ROD IRON RAIL
ВС	BOTTOM OF CURB	N/F	NOW OR FORMERLY	CO	CLEAN-OUT	<u>©</u>	S	SEPTIC MANHOLE
BS	BOTTOM OF STEP	OFF	OFFSET		CONCRETE		(V)	SEPTIC VENT
BW	BOTTOM OF WALL	OC	ON CENTER					
BND	BOUND BUILDING	ocs	OUTLET CONTROL STRUCTURE OVERHEAD	*	CONIFER TREE	**	SFM	SEWER FORCE MAIN
BLDG CATV	CABLE TELEVISION	OH OHW	OVERHEAD WIRE	£ 3.5	DECIDUOUS TREE	₩	s	SEWER MAIN
CIP	CAST IN PLACE	PRKG	PARKING	(D)	DRAIN MANHOLE	D		SIGN
CI	CAST IRON	PK LOT	PARKING LOT		DDAINAGE LINE	_		CILT DADDIED
СВ	CATCH BASIN	PVMT	PAVEMENT		DRAINAGE LINE	D		SILT BARRIER
CEM	CEMENT	PERF	PERFORATED		EARTH		x234.5	SPOT ELEVATION
C-C	CENTER TO CENTER	PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE	——— Е ———	ELECTRIC LINE	—— Е ——		STONE
CL	CENTERLINE	PERIM	PERIMETER	(E)	ELECTRIC MANHOLE	E	000000000	STONE WALL
CLF	CHAIN LINK FENCE	РВ	PLANT BED					
CO	CLEANOUT	POCC	POINT OF COMPOUND CURVATURE	EM	ELECTRIC METER	EM	<u>^</u> +234.5	SURVEY CONTROL POINT
CLR COL	CLEAR COLUMN	PC PRC	POINT OF CURVATURE POINT OF REVERSE CURVATURE	ES	ELECTRIC SERVICE	ES	TEL	TELEPHONE BOX
CONC	CONCRETE	PT	POINT OF TANGENCY	E/T/C	ELECTRIC, TELEPHONE, CABLE LINE	——— E/T/C ———	т	TELEPHONE LINE
СР	CONCRETE PIPE	POVC	POINT OF VERTICAL CURVATURE	FP	FIRE PROTECTION	——— FP ———	(T)	TELEPHONE MANHOLE
CSP	CONCRETE SEWER PIPE	PVI	POINT OF VERTICAL INTERSECTION					
COND	CONDUIT	PVT	POINT OF VERTICAL TANGENCY	€	FLOOD LIGHT	€	TP •	TEST PIT
CJ	CONSTRUCTION JOINT	PVC	POLYVINYL CHLORIDE	FM	FORCE MAIN	——— FM ———		TOP OF BANK
CMP	CORRUGATED METAL PIPE	LBS	POUNDS	GM	GAS METER	GM		TREELINE
CPP	CORRUGATED PLASTIC PIPE CUBIC YARD	PCF PSF	POUNDS PER CUBIC FOOT POUNDS PER SQUARE FOOT		GUARD RAIL		UGC	UNDERGROUND CABLE LINE
CY C&G	CURB & GUTTER	PSI	POUNDS PER SQUARE INCH					
D	DEPTH	PCC	PRECAST CONCRETE CURB	-0	GUY POLE	-	——— UGE ———	UNDERGROUND ELECTRICAL SERVICE
DIA	DIAMETER	PL	PROPERTY LINE	\longrightarrow	GUY WIRE	\longrightarrow	G	UNDERGROUND GAS SERVICE
DR	DRAIN	PROP	PROPOSED	1 00	HYDRANT	± ₹ 0	UGD	UNDERGROUND LINE
DMH	DRAIN MANHOLE	R	RADIUS	0	IRON PIPE	0	UGT	UNDERGROUND TELECOM SERVICE
DA	DRAINAGE AREA	RCP	REINFORCED CONCRETE PIPE	2 ² 0	IRRIGATION VALVE	<i>≥</i> So	Ø	UTILITY POLE
DH DIP	DRILL HOLE DUCTILE IRON PIPE	REM R&D	REMOVE REMOVE AND DISPOSE			-	,	
EF	EACH FACE	R&R	REMOVE AND RESET	L.A.	LANDSCAPED AREA	L.A.	W	WATER MAIN
EW	EACH WAY	R&S	REMOVE AND STACK	ф	LIGHT POLE	ф	WS	WATER SERVICE
ESMT	EASEMENT	RET	RETAINING		LIMIT OF WORK	—— L.O.W. ——	$\frac{\nabla}{\overline{z}}$	WATER SURFACE
Е	EAST	REV	REVISION		MAIL BOY		₩V	MATER VALVE
EC	EDGE OF CURB	ROW	RIGHT OF WAY		MAILBOX	\boxtimes		WATER VALVE
EOP	EDGE OF PAVEMENT	RD	ROOF DRAIN	— — 200 — —	MAJOR CONTOUR	215 ———	W	WELL
ELEC	ELECTRIC MANUALE	SAN	SANITARY	— — — 201 — —	MINOR CONTOUR	216		WOOD FENCE
EMH EL/ELEV	ELECTRIC MANHOLE ELEVATION	SCH SEP TNK	SCHEDULE SEPTIC TANK	M	MISCELLANEOUS MANHOLE	M		WOOD POST
EL/ELEV ENTR	ENTRANCE	SEP INK SWR	SEWER	_				
EX/EXIST	EXISTING	SMH	SEWER MANHOLE		MISCELLANEOUS SHRUB	0		
EG	EXISTING GRADE	S	SOUTH					
FF	FINISH FLOOR	SYP	SOUTHERN YELLOW PINE					
FH	FIRE HYDRANT	SF	SQUARE FOOT					
FES	FLARED END SECTION	SY	SQUARE YARDS					
FLR	FLOOR	SS	STATION STEEL					
FC EM	FLUSH CURB	STA	STATION					
FM FDN	FORCE MAIN FOUNDATION	STL STRM	STEEL STORM					
GALV	GALVANIZED	SD	STORM DRAIN					
G	GAS	SDMH	STORM DRAIN MANHOLE					
GG	GAS GATE	TL	TANGENT LENGTH					
GMH	GAS MANHOLE	TEL	TEL-DATA					
GRAN	GRANITE	TMH	TELEPHONE MANHOLE					
GRAV	GRAVEL	TEMP	TEMPORARY					
GRL	GUARDRAIL	TP	TEST PIT					
HH HC	HANDHOLE HANDICAP	TC TS	TOP OF CURB (GRADING) TOP OF STEP					
110	, ., ., ., ., .,	10						

GENERAL NOTES

PB

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△+234.5

1. THE SITE IS LOCATED IN WAREHAM, MASSACHUSETTS.

THE PROJECT AS SHOWN ON SHEET C-101.

- 2. STANDARD SPECIFICATIONS, WHEN REFERENCED IN THESE DRAWINGS, SHALL MEAN THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD ——— OHC ——— AND BRIDGE CONSTRUCTION (CURRENT ED). PARTS OF THE STANDARD SPECIFICATIONS THAT ARE SPECIFICALLY REFERENCED SHALL BECOME PART OF THESE DRAWINGS AS THOUGH STATED HEREIN IN FULL. IN CASE OF A DISCREPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE REQUIREMENTS STATED WITHIN THE DRAWINGS, THE ——— OHT ——— REQUIREMENTS STATED WITHIN THE DRAWINGS SHALL PREVAIL.
 - 3. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE DESIGN PLANS, SPECIFICATIONS, AND THE ORDER OF CONDITIONS ISSUED FOR THE PROJECT.
 - 4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE MAINTAINED WITHIN THE LIMITS OF
 - 5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. SAFETY PROVISIONS SHALL COMPLY WITH LOCAL. STATE. AND FEDERAL LAWS AND REGULATIONS. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
 - 6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE ORDERING ANY MATERIALS, COMMENCING ANY FABRICATION, OR PERFORMING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, OF ANY CONDITIONS OR DIMENSIONS WHICH VARY FROM THOSE SHOWN IN THE DRAWINGS AND INCORPORATE SUCH VARIATIONS IN THE CONSTRUCTION AS APPROVED BY THE ENGINEER.
 - 7. THE CONTRACTOR SHALL NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE DIGSAFE LIST AT LEAST 3 BUSINESS DAYS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, PILE DRIVING, DRILLING, OR ANY OTHER BELOW GRADE OPERATIONS.
 - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND
 - NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
 - 10. MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
 - 11. ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.
 - 12. CONTRACTOR TO OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
 - 13. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.

THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SUBMITTALS PER THE STANDARD SPECIFICATIONS FOR MATERIALS, TRAFFIC CONTROL PLAN, AND SUPPORT OF EXCAVATIONS, TEST REPORTS AS REQUIRED AND SHALL BE REVIEWED AND APPROVED BY THE TOWN,

PRIOR TO CONSTRUCTION

ARCHITECT AND/OR ENGINEER

- UGT _____ 1. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES. ANY DISCREPANCIES WITH THE DESIGN PLAN TO BE REPORTED TO THE DESIGN ENGINEER PRIOR TO START OF WORK.
 - 2. SILT BARRIER TO BE INSTALLED ON THE LIMIT OF WORK, NO WORK IS TO BE DONE OUTSIDE OF THE SPECIFIED AREA.

. THIS PROJECT IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLAN

(MYCS2) Epoch 2010.00) AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) by RTK GPS OBSERVATIONS ON 2020-10-26. 2. THE SURVEY CONTROL SHOWN HEREON WAS ESTABLISHED ON 2023-12-27 BY COASTAL

COORDINATE SYSTEM, MAINLAND ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83 (2011)

- ENGINEERING COMPANY, INC.
- 3. THE CONTRACTOR SHALL VERIFY THE SURVEY CONTROL SHOWN HEREON BY APPROPRIATE LAND SURVEYING METHODS. ANY DISCREPANCIES AND THE METHOD OF VERIFICATION USED MUST BE REPORTED TO COASTAL ENGINEERING COMPANY, INC.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL LAYOUT WORK FROM THE

EROSION & SEDIMENT CONTROL NOTES

- 1. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL AND PROTECTION OF DRAINAGE STRUCTURES UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.
- 2. THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY-TO-DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY
- 3. TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.
- 4. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
- 5. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- 6. PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
- 7. PRIOR TO STARTING WORK, CLEARLY MARK WORK LIMITS. DO NOT DISTURB THE AREA BEYOND THE PROPOSED LIMITS. COORDINATE WITH THE ENGINEER FOR LOCATIONS OF TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.
- 8. INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
- 9. COMPACT, STABILIZE, AND LOAM AND SEED SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS REQUIRED BY PERMITS. GRADE SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3H:1V), WHERE POSSIBLE PROVIDE BIODEGRADABLE EROSION CONTROL BLANKETS TO PREVENT EROSION WHERE SLOPES ARE STEEPER THAN 3H:1V.
- 10. REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRE-CONSTRUCTION CONDITION.
- 11. SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- 12. ALL HYDRAULIC EQUIPMENT SHALL UTILIZE BIODEGRADABLE, VEGETABLE BASED, NON-TOXIC AND NON-POLLUTING HYDRAULIC FLUID.
- 13. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.

14. PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

GENERAL EARTHWORK

- 1. EXCAVATION SLOPE GEOMETRY AND THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES ADJACENT TO THE WORK AREA IS THE CONTRACTOR'S RESPONSIBILITY. PRIOR TO EXCAVATION, SAWCUT THE EXISTING ASPHALT PAVEMENT WITHIN THE APPROXIMATE LIMITS OF THE EXCAVATION TO PROVIDE A CLEAN AND STRAIGHT LINE FOR SURFACE RESTORATION.
- 2. THE EXCAVATION BOTTOM SHALL BE CAREFULLY SHAPED TO CONFORM TO THE SHAPE OF THE FOUNDATION. THE PREPARED EXCAVATION BOTTOM SHALL BE FREE OF ORGANIC MATERIAL, LARGE STONES OR BOULDERS, AND SIMILAR OBJECTS/MATERIALS
- 3. THE BOTTOM OF EXCAVATION AND/OR REMOVAL OF WATER TABLE MATERIAL SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONCRETE
- 4. PLACE AND COMPACT BACKFILL TO A DENSITY EQUAL TO THE UNDISTURBED EXCAVATION BOTTOM FROM THE BOTTOM OF THE EXCAVATION TO FOUNDATION BOTTOM ELEVATION, AND AS INDICATED IN THE SPECIFICATIONS AND DETAILS
- 5. EXCAVATION SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED. SUBMITTALS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
- 6. FOUNDATION MATERIAL SHALL BE EXCAVATED ONSITE GRANULAR MATERIAL, FREE FROM STONES ROOTS AND ORGANIC MATERIAL AND OF SUITABLE GRADATION FOR SATISFACTORY COMPACTION. IF EXCAVATED MATERIAL AT A PARTICULAR LOCATION IS NOT AVAILABLE (SEE SECTION, MATERIAL HANDLING) OR IS NOT SATISFACTORY, USE IMPORTED GRANULAR MATERIAL CONFORMING TO CONTRACT SPECIFICATIONS.
- 7. ALL FOUNDATIONS AND SLABS ARE TO BEAR ON UNFROZEN, UNDISTURBED MATERIAL OR UNFROZEN ENGINEERED COMPACTED FILL. IT IS THE CONTRACTORS RESPONSIBILITY TO
- ASSURE THAT THE SOILS BELOW THE FOOTINGS REMAIN UNFROZEN. 8. ALL COMPACTED FOUNDATION SUB-GRADE FILL MATERIALS SHALL BE FREE OF ORGANIC MATERIAL AND BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS
- 9. SITE TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE DESIGN PLANS. CONTRACTOR IS RESPONSIBLE FOR ENSURING A POSITIVE DRAINAGE FLOW TO ALL DRAINAGE INLETS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.

DETERMINED BY ASTM D698, AND OBTAIN A MINIMUM ALLOWABLE BEARING PRESSURE AS SET

EARTHWORK MATERIALS

- 1. GRAVEL BORROW, SHALL BE M1.03.0 TYPE B AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION M1/03/0: GRAVEL BORROW.
- 2. CRUSHED STONE, SHALL BE M2.01.4 PER TABLE M2.01.0-1 AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION M2.01.0: CRUSHED STONE.
- 3. PROCESSED GRAVEL BASE, SHALL BE M1.03.1: PROCESSED GRAVEL FOR SUB-BASE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- 4. DENSE SUB-BASE SHALL BE M.2.01.7: DENSE GRADED CRUSHED STONE FOR SUB-BASE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- 5. BITUMINOUS PAVEMENT MATERIALS REFERENCED IN TYPICAL DETAILS SHALL BE IN COMPLIANCE WITH THE MATERIALS SPECIFIED IN SECTION M3: ASPHALTIC MATERIALS IN THE STANDARD SPECIFICATIONS.

CONCRETE NOTES

- 1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- A. THE STANDARD SPECIFICATIONS TO DATE. B. THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"; ACI 318-08.
- 2. CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
- 3. ALL CONCRETE MIX DESIGNS SHALL BE SIMILAR TO THAT PROVIDED AND APPROVED BY MassDOT. VARIATIONS IN THE MIX DESIGN SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. CONCRETE USED IN PRECAST MEMBERS SHALL CONFORM WITH M4.06.01 (HIGH PERFORMANCE CEMENT CONCRETE):
- A. 28-DAY STRENGTH = 5,000 PSI B. MINIMUM CEMENT PER CY OF CONCRETE = 685 LBS
- AIR FNTRAINFD 6.5±+1.5%
- D. SILICA FUME 6± 1% (DRY WEIGHT) F MAXIMUM WATER/CEMENT RATIO = 0.40 F. SLUMP = 2 TO 5 IN (TARGET = 4 IN)
- G. MAXIMUM SIZE COARSE AGGREGATE = 3/4"
- 4. ALL CONCRETE SHALL BE AIR-ENTRAINED TO 6.5± 1.5%. 5. CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS BEFORE ANY LOADS ARE
- APPLIED THERETO.
- 6. PROVIDE A STEEL TROWELED FINISH FOR SLABS-ON-GRADE AND A BROOM FINISH FOR EXTERIOR SLABS
- 7. ALL CONCRETE SHALL BE PLACED IN THE DRY.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING THE TESTING REQUIREMENTS FOR ALL CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- 9. DURING COLD WEATHER CONDITIONS ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.
- 10. DURING HOT WEATHER CONDITIONS, ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT WOULD IMPAIR REQUIRED STRENGTH OR SEVICEABILITY OF THE STRUCTURE.
- 11. ALL EQUIPMENT ANCHOR BOLTS FURNISHED BY EQUIPMENT MANUFACTURER ARE TO BE INSTALLED BY THE CONTRACTOR, AND SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED AS REQUIRED.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONCRETE MIX DESIGNS AND SPECIFICATION SHEETS FOR ALL ADMIXTURES FOR APPROVAL BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY CONCRETE.

1. CONTRACTOR TO FOLLOW SPECIFICATIONS FOR SOIL CONDITIONING, PLANT AND TREE SPECIFICATION AND PROTECTION AS REQUIRED ON LANDSCAPE DRAWINGS.

Has Joined Tighe&Bond



2024-01-30 CHECKED BY MDC ROJECT NUMBER C19495.00 ROJECT STATUS SITE PLAN REVIEW SET

SHEET DESCRIPTION

LEGEND, **ABBREVIATIONS** AND GENERAL

HEET NUMBER

SHEET 02 OF 09

HIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

HIGH POINT

INCHES

INVERT

IRON PIPE

K-VALUE

LEFT

LENGTH

LIGHT POLE

HOT MIX ASPHALT

LANDSCAPED AREA

LENGTH OF VERTICAL CURVE

HIGH DENSITY POLYETHYLENE

HDPE

LVC

LTP

TOP OF WALL

TRANSFORMER

UNDERGROUND

TYPICAL

UNPV RD UNPAVED ROAD

UTILITY

VARIES

WEST

UTILITY POLE

WATER GATE

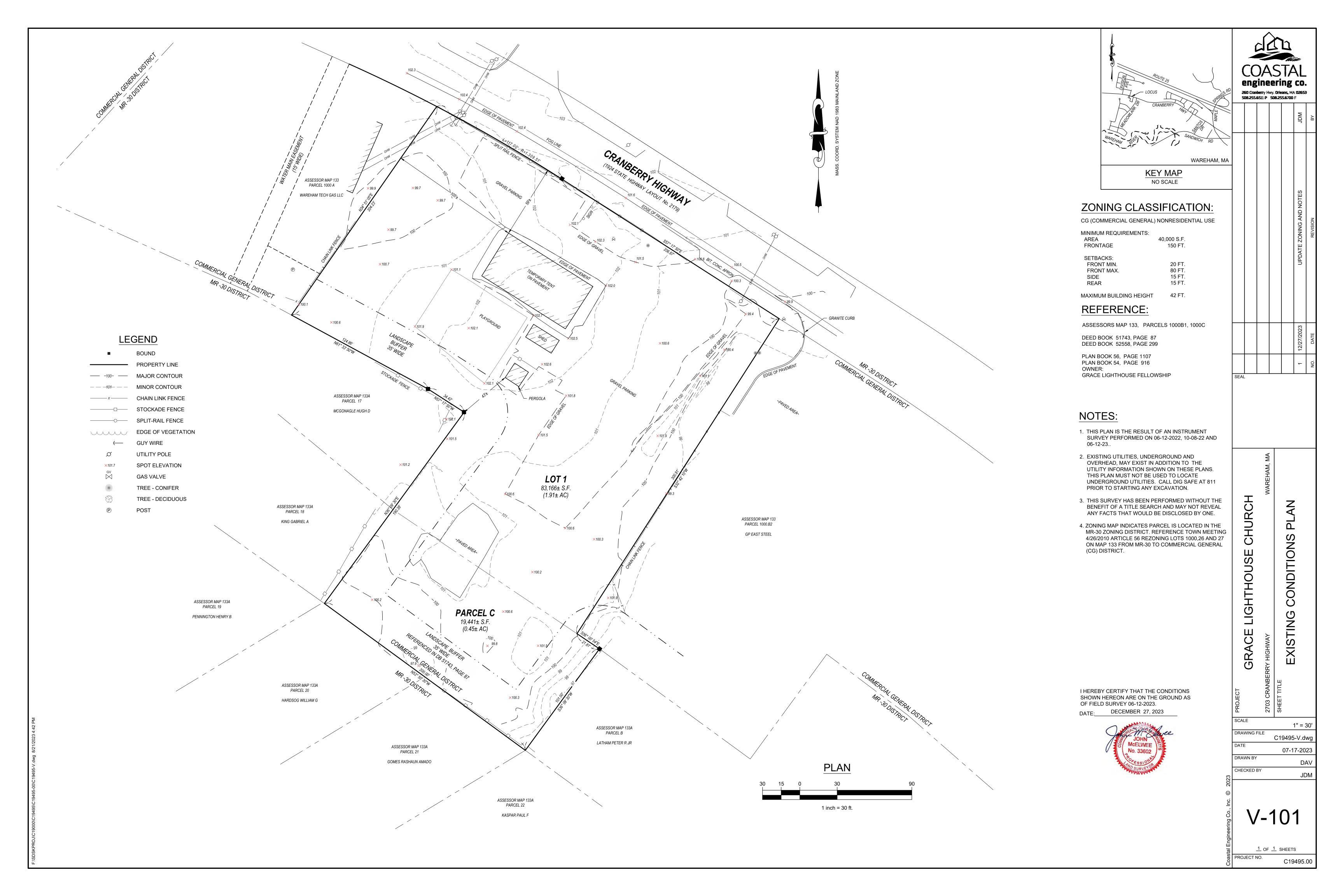
WATER VALVE

TYP

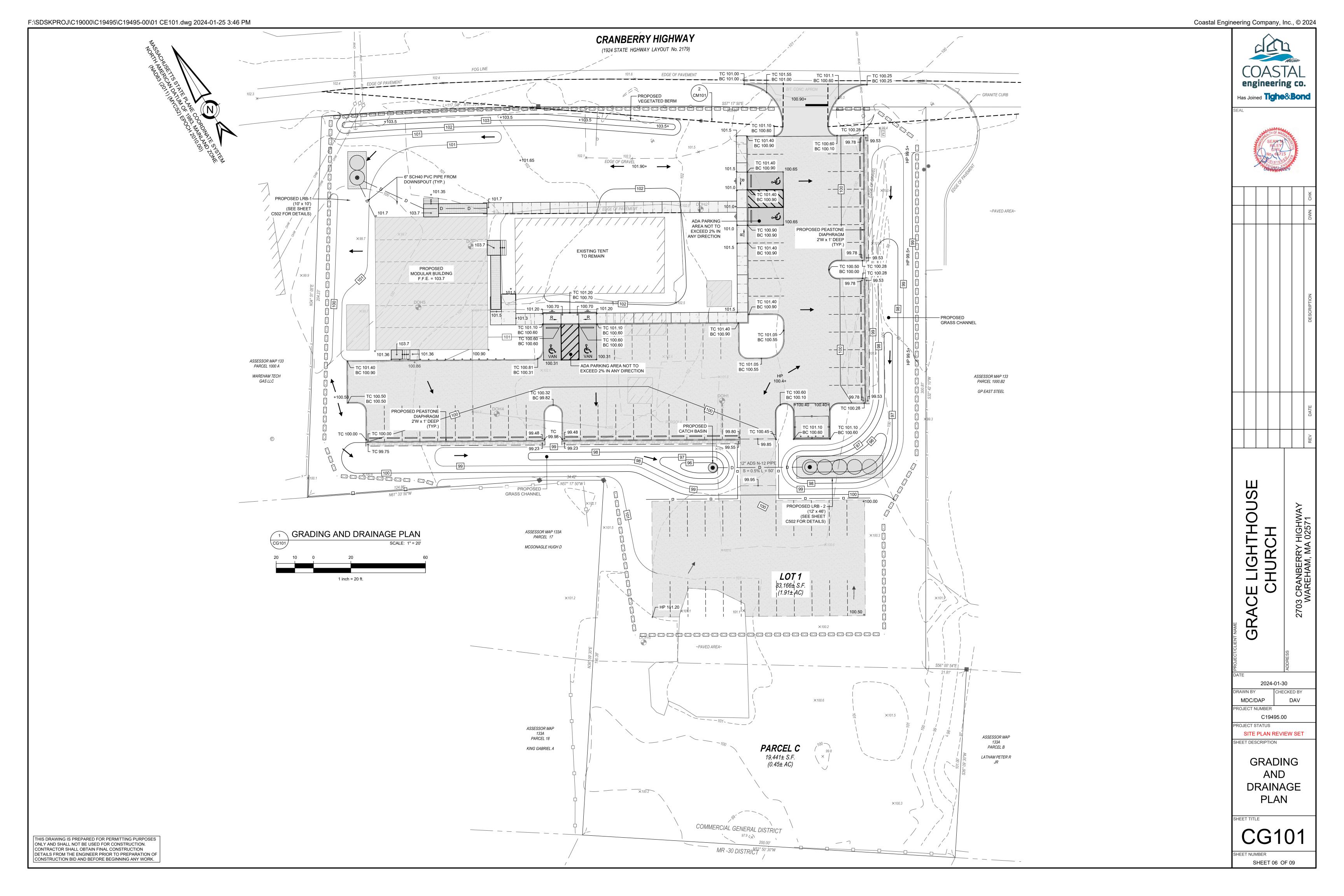
UTIL

TRANSITION CURB (LAYOUT)

UNLESS NOTED OTHERWISE



SHEET 04 OF 09





GRASSED CHANNEL SECTION SCALE: N.T.S.

VARIES (SEE PLAN)

SEE LANDSCAPE PLANS FOR — SOIL AND SEEDING SPECIFICATIONS

EXISTING -SUB BASE

VARIES

(SEE PLAN)

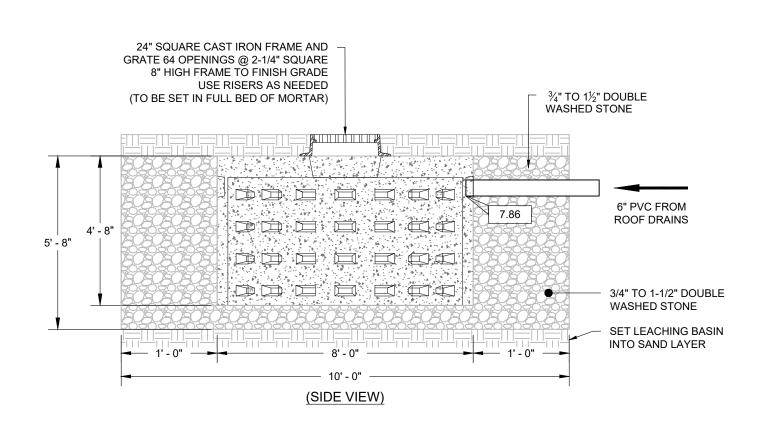
CHANNEL TO BE **GRADED AT 1%**

STONE -

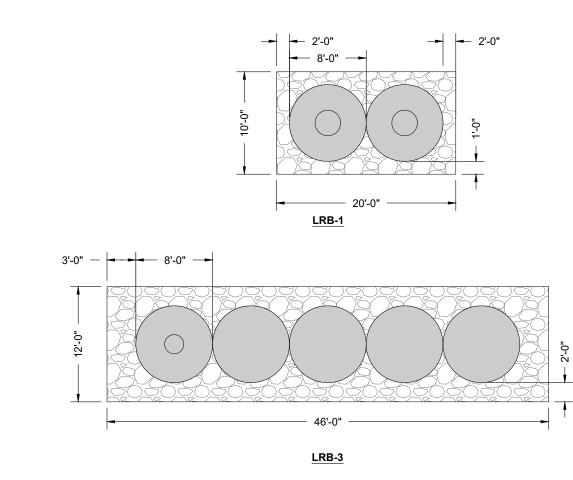
DIAPHRAGM

PROPOSED -

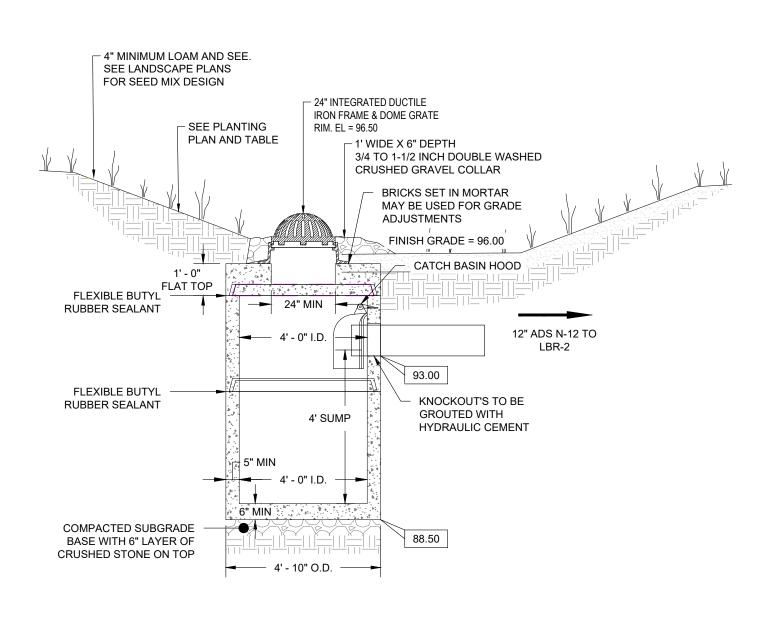
GRAVEL PARKING



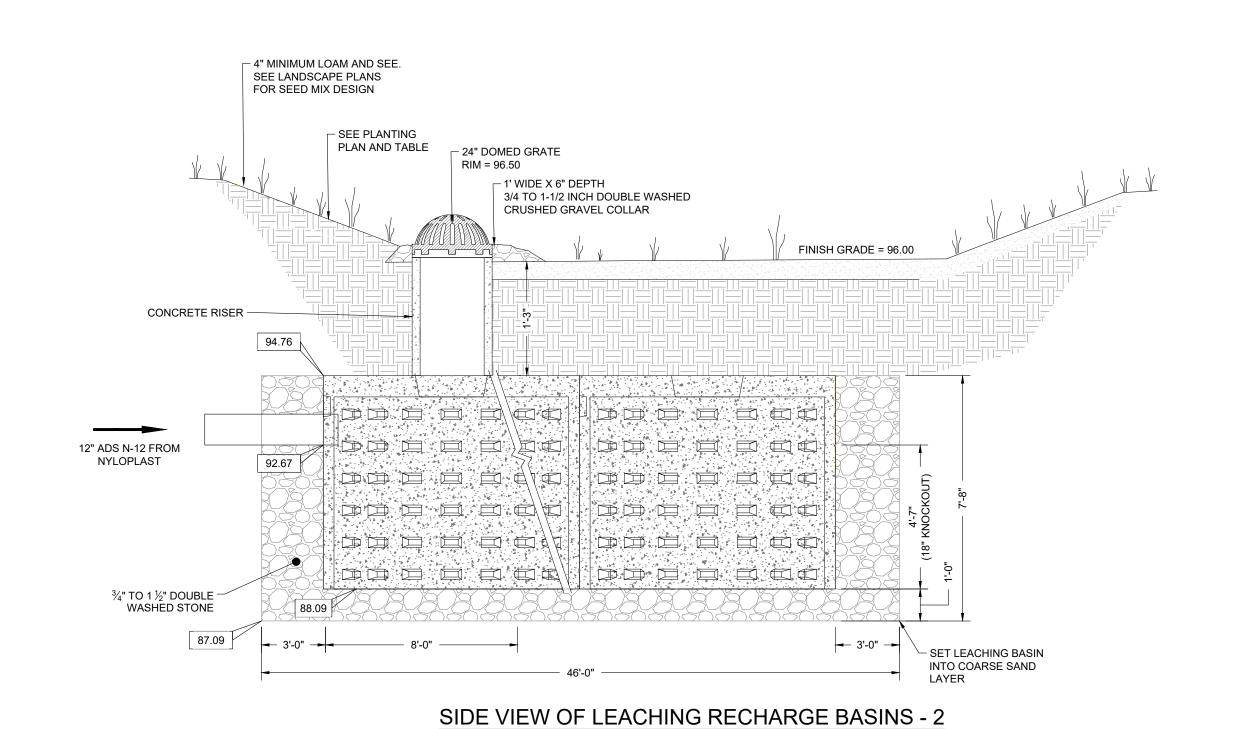
SIDE VIEW OF LEACHING RECHARGE BASINS - 1 SCALE: N.T.S.



PLAN VIEWS OF LEACHING RECHARGE BASINS (H-20) SCALE: N.T.S.

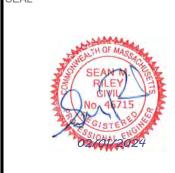


SIDE VIEW OF CATCH BASIN



SHEET NUMBER SHEET 09 OF 09

engineering co. Has Joined Tighe&Bond



			DWN
			DESCRIPTION
			DATE
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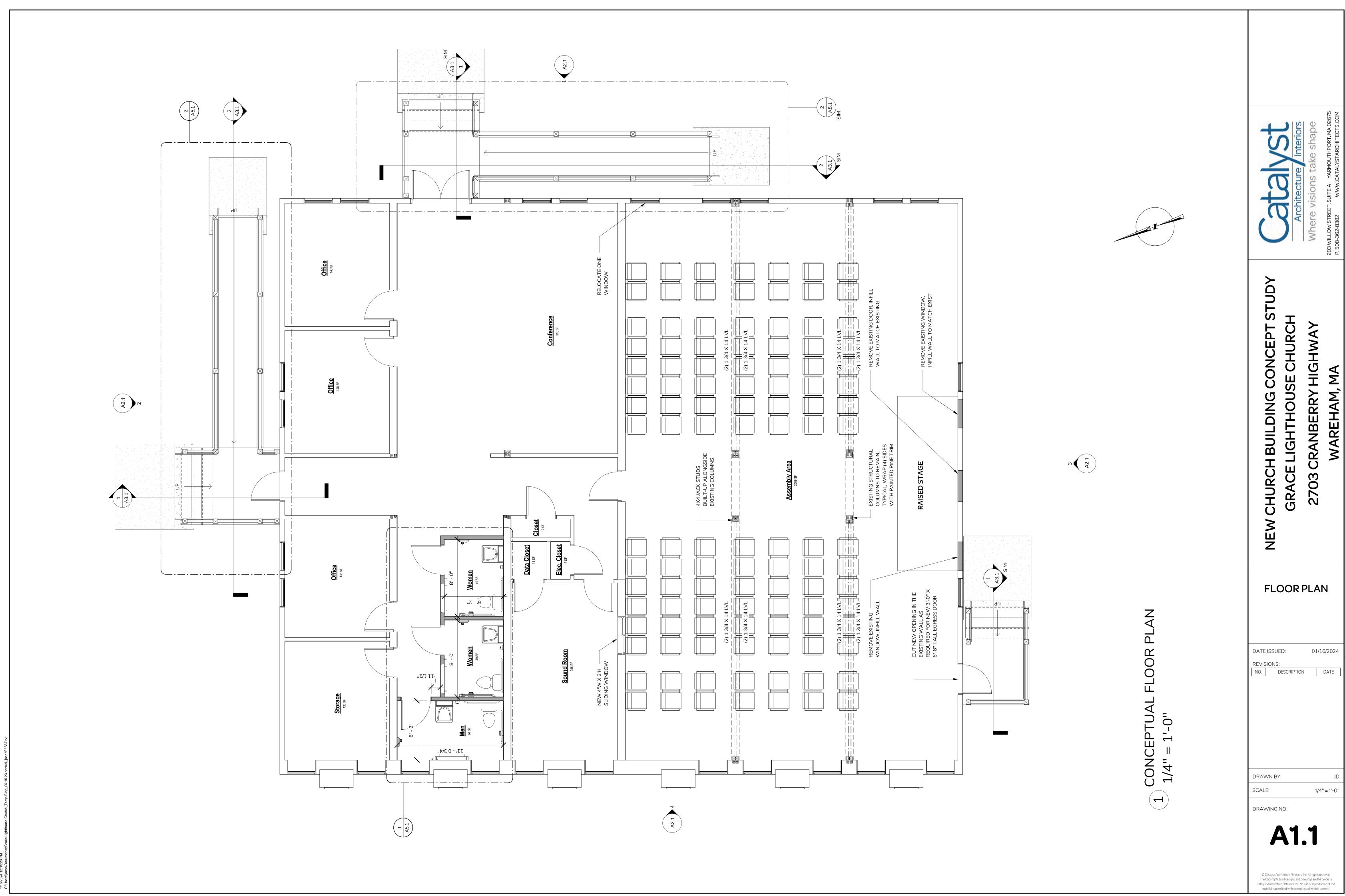
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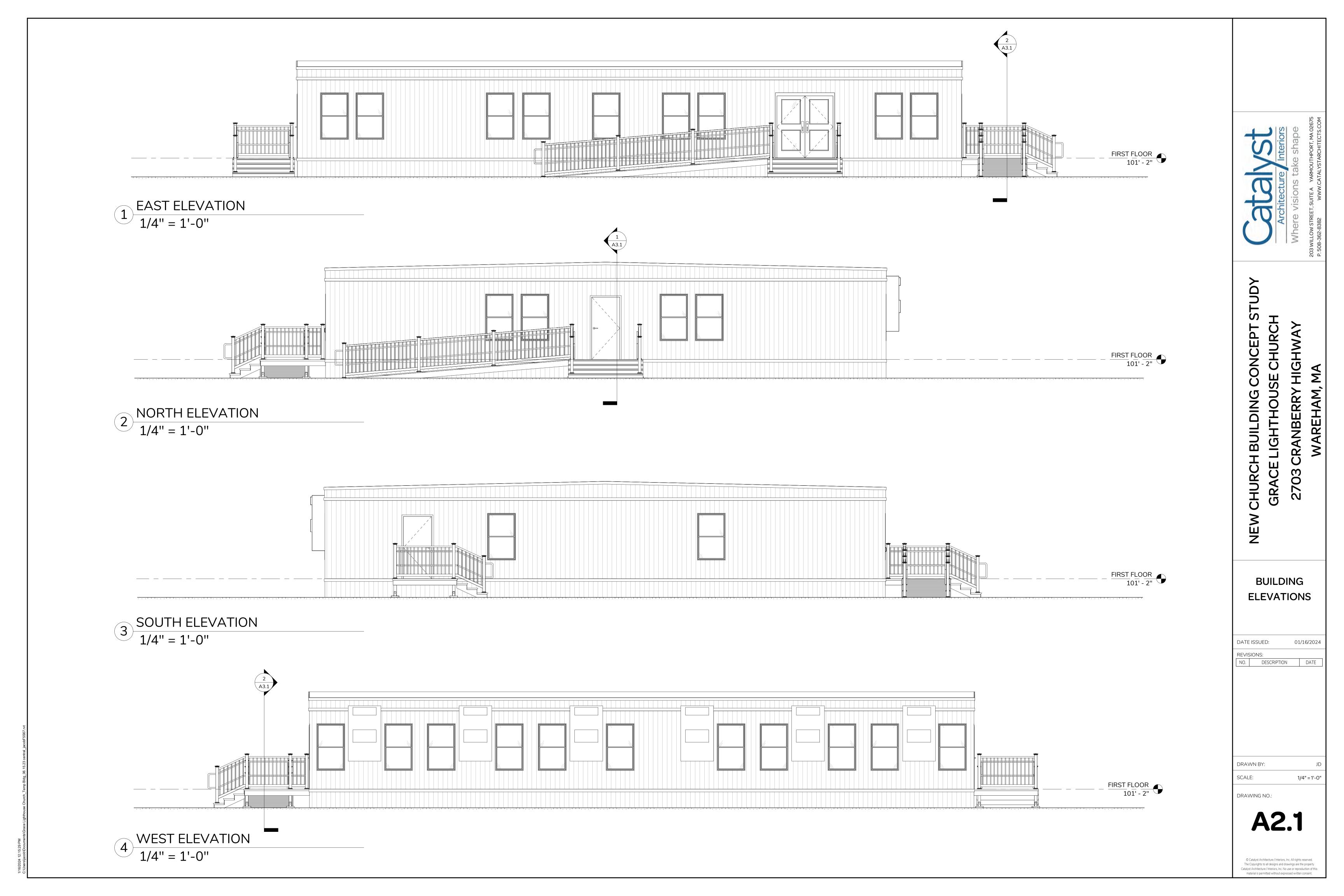
2024-01-30 CHECKED BY MDC DAV

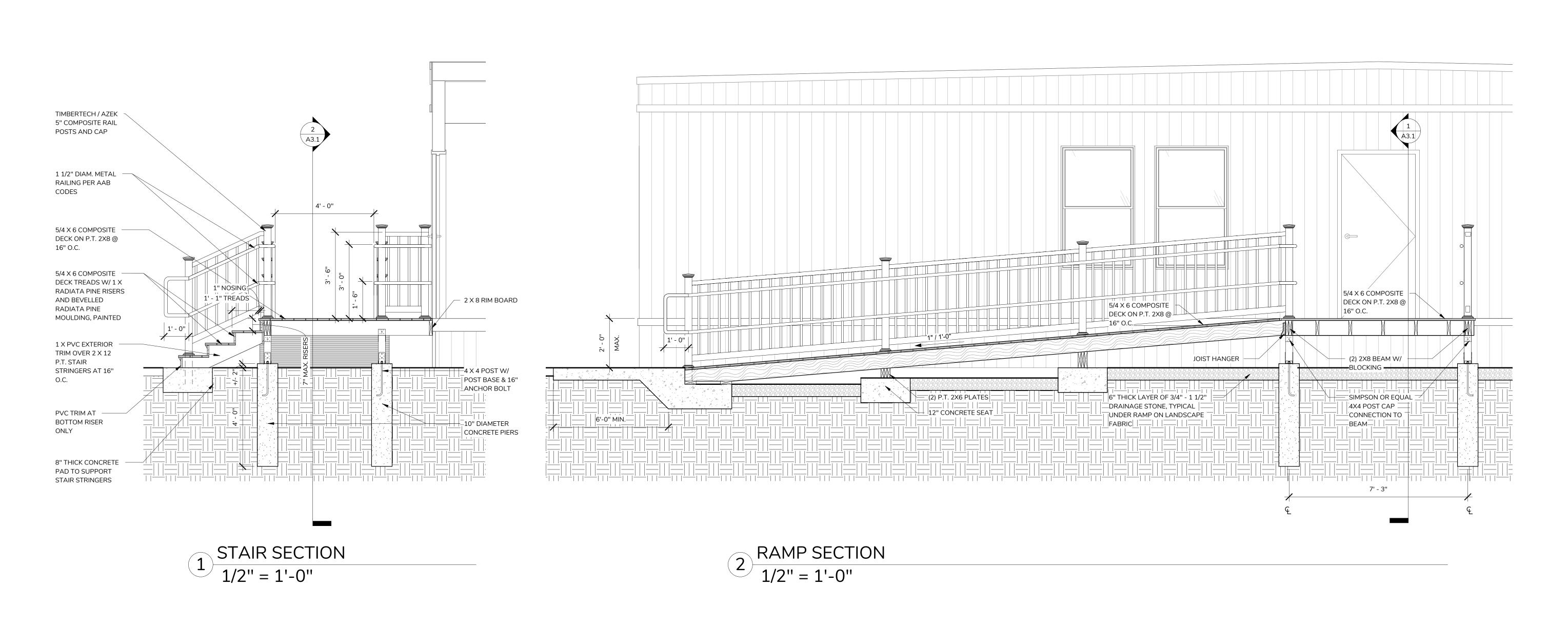
ROJECT NUMBER C19495.00 PROJECT STATUS

SITE PLAN REVIEW SET SHEET DESCRIPTION

SITE DETAILS (SHEET 2)







Architecture / In Where visions take

NEW CHURCH BUILDING CONCEPT STUDY GRACE LIGHTHOUSE CHURCH 2703 CRANBERRY HIGHWAY WAREHAM, MA

SECTION @ STAIR & RAMP

DATE ISSUED: 01/16/2024

REVISIONS:

NO. DESCRIPTION DATE

DRAWN BY: JD

SCALE: 1/2" = 1'-0"

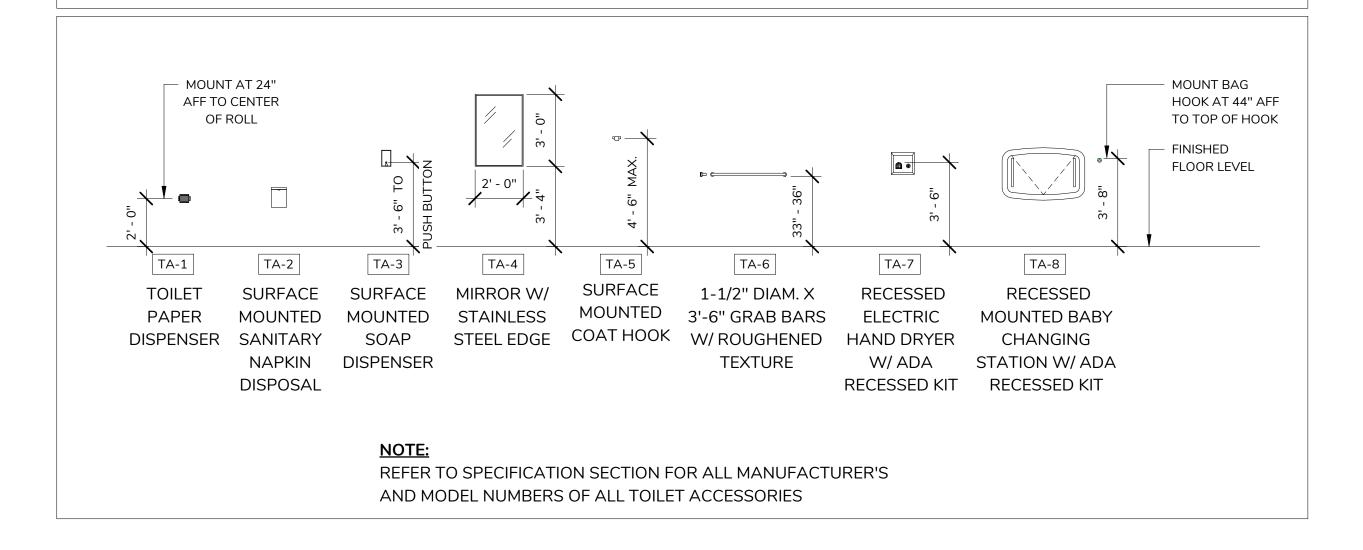
DRAWING NO.:

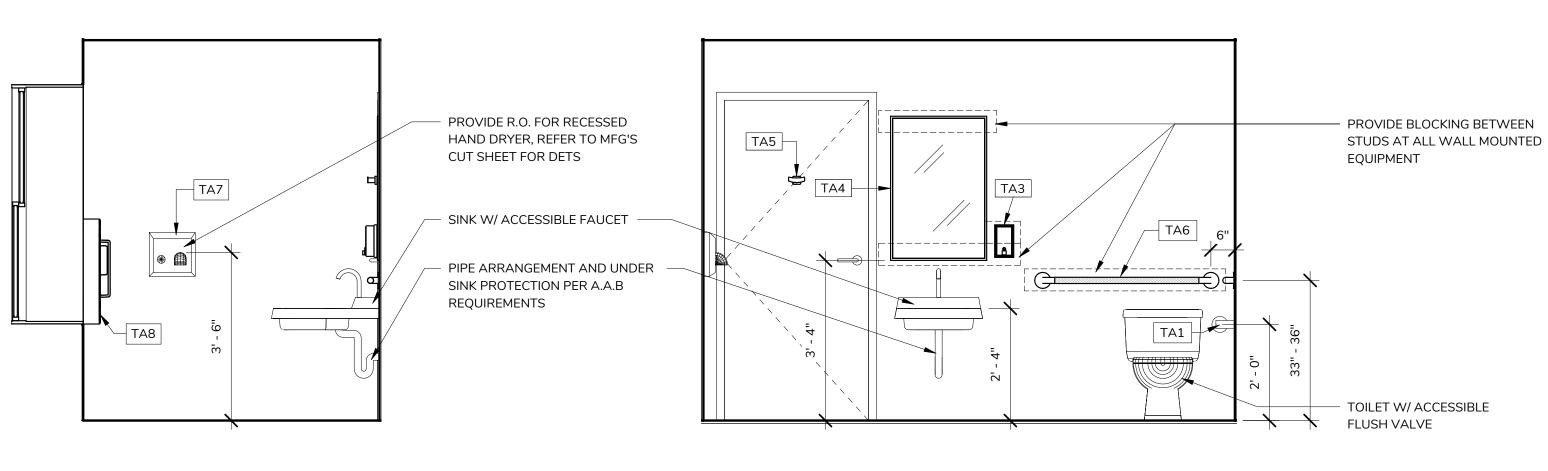
A3.1

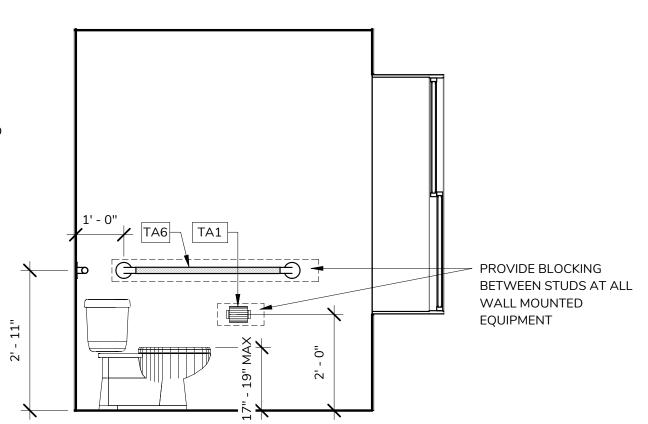
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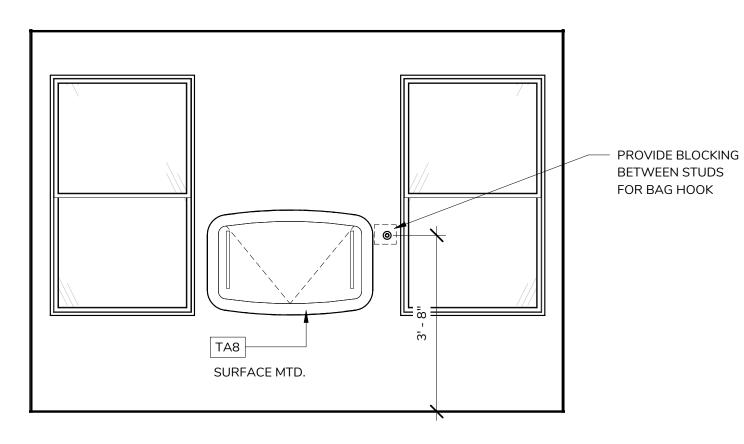
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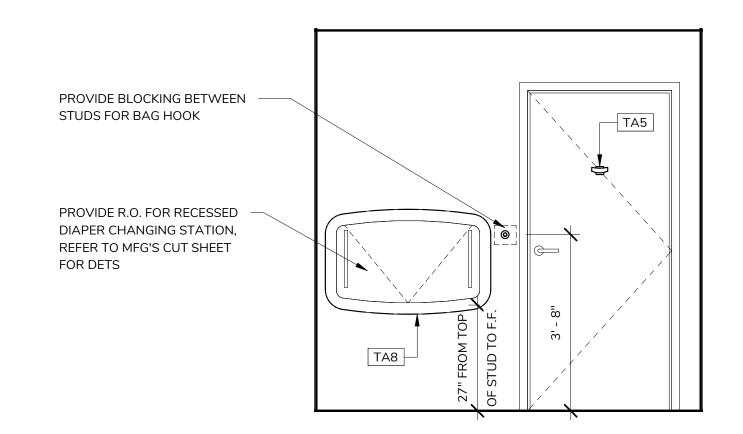


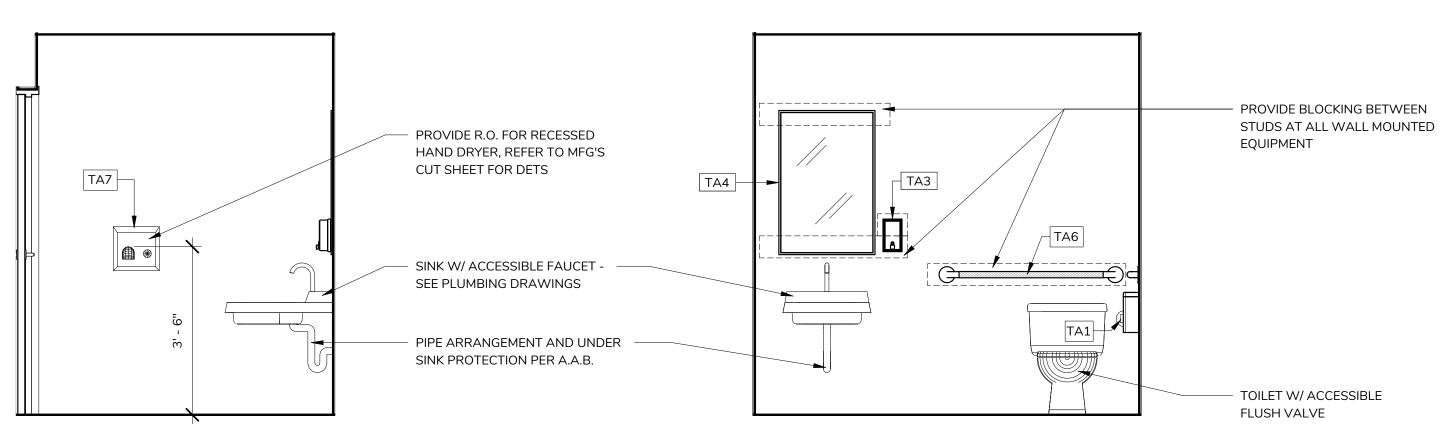
MEN'S ROOM ELEVATION A 1/2'' = 1'-0''

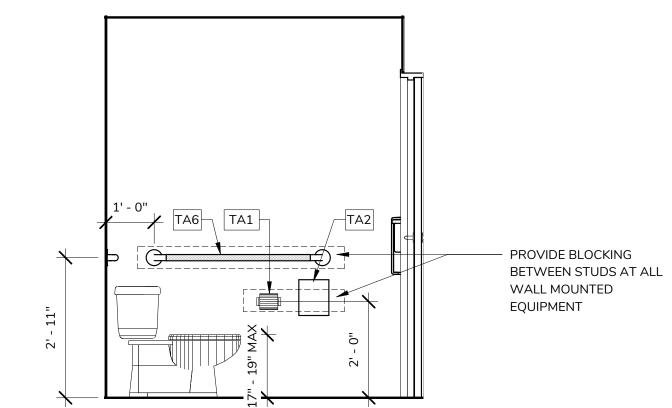
 $2 \frac{\text{MEN'S ROOM ELEVATION B}}{1/2" = 1'-0"}$

 $\frac{\text{MEN'S ROOM ELEVATION C}}{1/2" = 1'-0"}$

 $4 \frac{\text{MEN'S ROOM ELEVATION D}}{1/2" = 1'-0"}$







 $5 \frac{\text{WOMEN'S ROOM ELEVATION A}}{1/2" = 1'-0"}$

6 WOMEN'S ROOM ELEVATION B 1/2" = 1'-0"

 $7 \frac{\text{WOMEN'S ROOM ELEVATION C}}{1/2" = 1'-0"}$

8 WOMEN'S ROOM ELEVATION D

CONCEPT STUDY CHURCH HIGHWAY CRANBERRY **WAREHAM** BUILDING CHURC 2703 NEW

ROOM **ELEVATIONS** @ **BATHROOMS**

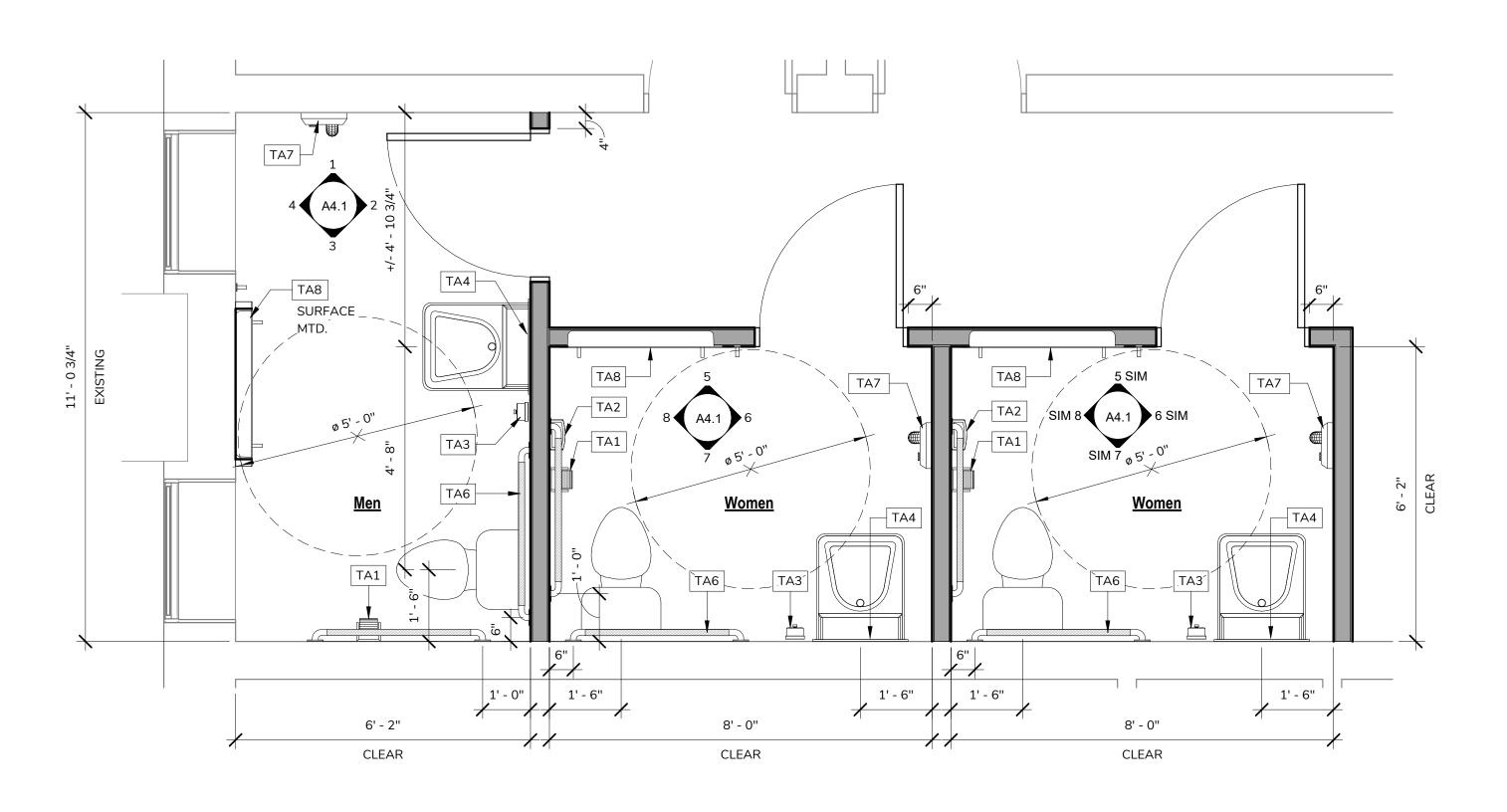
01/16/2024 DATE ISSUED: **REVISIONS:** NO. DESCRIPTION DATE

DRAWN BY: SCALE: As indicated

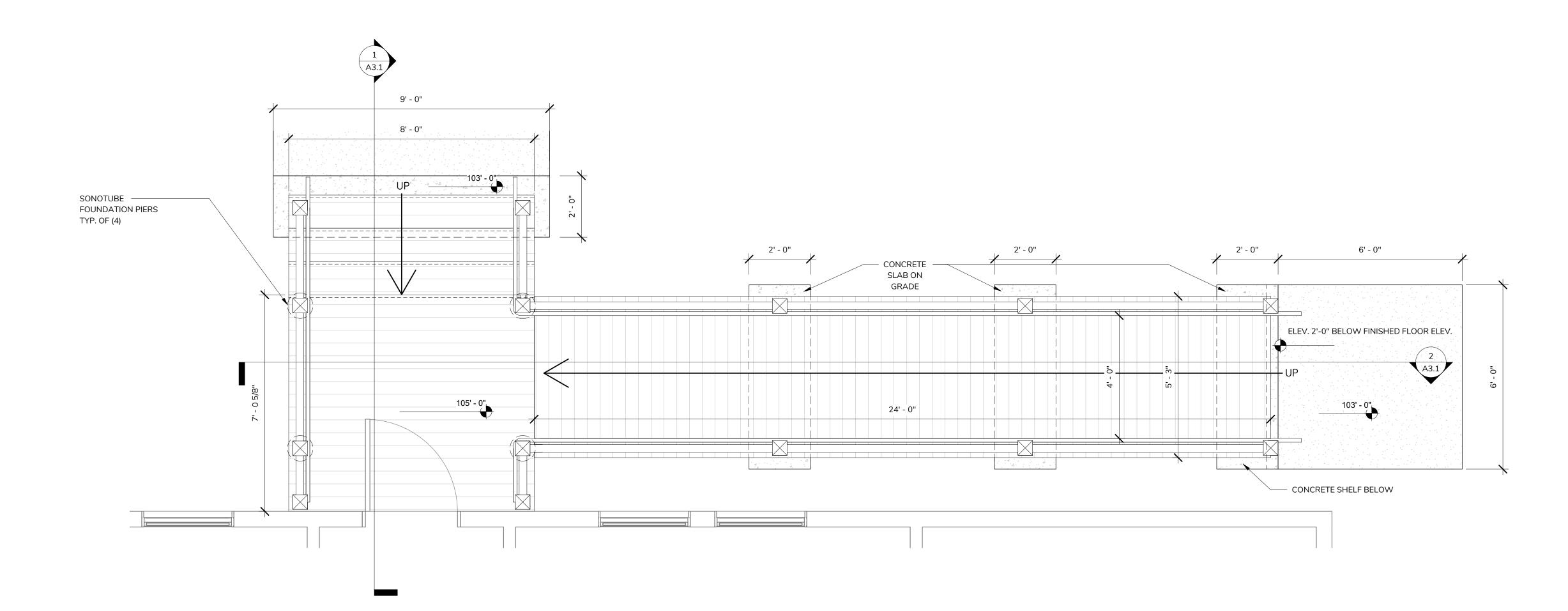
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DETAIL FLOOR PLAN @ BATHROOMS 1/2" = 1'-0"



 $2 \frac{\text{DETAIL PLAN AT RAMP}}{1/2" = 1'-0"}$

Architecture / Interiors
Where visions take shape

EW CHURCH BUILDING CONCEPT STUDY GRACE LIGHTHOUSE CHURCH 2703 CRANBERRY HIGHWAY WAREHAM, MA

DETAIL FLOOR PLANS

DATE ISSUED: 01/16/2024

REVISIONS:

NO. DESCRIPTION DATE

DRAWN BY: JD

SCALE: 1/2" = 1'-0"

DRAWING NO.:

A5.1

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GENERAL STRUCTURAL NOTES:

- 1. THE STRUCTURAL SCOPE OF WORK INCLUDED IN THIS PACKAGE IS FOR THE FOUNDATION DESIGN FOR RELOCATED MODULAR BUILDING UNITS BEING ERECTED AT THE SPECIFIED ADDRESS.
- 2. STRUCTURAL WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DESIGN PLANS BY CATALYST ARCHITECTS/INTERIORS AND SITE PLAN BY COASTAL ENGINEERING COMPANY, INC., AS WELL AS MECHANICAL, ELECTRICAL, PLUMBING (AND OTHER TRADES AS NEEDED) DESIGN PLANS AND SPECIFICATIONS. STRUCTURAL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE FOLLOWING GOVERNING STANDARDS:
 - A. THE MASSACHUSETTS STATE BUILDING CODE 780 CMR, NINTH EDITION, AND AMENDMENTS ALONG WITH OTHER AGENCIES
- B. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (AISC
- C. ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-14).
- D. THE CODE FOR WELDING IN BUILDING CONSTRUCTION BY THE AMERICAN WELDING SOCIETY (AWS D1.1).
- E. AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" (AISI S100-12).
- F. THE TIMBER CONSTRUCTION MANUAL, LATEST EDITION," AMERICAN FOREST & PAPER ASSOCIATION (SIXTH EDITION).
- G. THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (AWC NDS-2015).
- 3. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AND MAKE SAFE FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE.
- 4. CONSTRUCTION IS TO CONFORM TO THE MASSACHUSETTS STATE BUILDING CODE AND APPLICABLE PRODUCT AND DESIGN STANDARDS. ABSENCE OF SPECIFIC ITEMS FROM THESE DRAWINGS DOES NOT INFER THAT THE CONTRACTOR IS RELIEVED
- 5. MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPROVED RULES AND STANDARDS FOR MATERIALS. TESTS, AND REQUIREMENTS OF ACCEPTED ENGINEERING PRACTICE AS LISTED IN APPENDIX A OF THE MASSACHUSETTS STATE
- 6. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK. ANY DISCREPANCY BETWEEN WHAT IS SHOWN ON THE DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED BACK TO THE
- ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK. 7. OPENINGS THROUGH THE FRAMING AND FOUNDATION MAY NOT BE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS IN ALL INSTANCES. THE GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF OPENINGS. ANY DEVIATION FROM THE OPENINGS SHOWN ON
- 8. NOTIFY THE ENGINEER OF ANY ARCHITECTURAL MODIFICATION OR DIMENSION CHANGES THAT MAY AFFECT THE STRUCTURAL
- 9. THE FOLLOWING ASSUMED SOIL PROPERTIES HAVE BEEN USED FOR THE FOUNDATION DEISGN:
- -UNIT WEIGHT OF SOIL:
- 120 PCF

THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S IMMEDIATE ATTENTION FOR REVIEW.

- -ANGLE OF INTERNAL FRICTION: -ALLOWABLE BEARING PRESSURE:
- 30 DEGREES 2,000 PSF
- 10. WORK SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. PRESENT IN WRITING TO THE ARCHITECT, ALL CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES AND REGULATIONS, FOR RESOLUTION BEFORE COMMENCING THE WORK.

DESIGN LOAD NOTES:

- 1. GRAVITY LIVE LOADS -FIRST FLOOR:
 - OFFICE SPACE: 50 PSF **SEATING AREAS: 60 PSF** CORRIDORS: 100 PSF -ROOF = 20 PSF (MINIMUM)
- 2. SNOW LOAD DATA
 - -GROUND SNOW LOAD: PG = 25 PSF -FLAT-ROOF SNOW LOAD: PF = 25 PSF
 - -SNOW LOAD EXPOSURE FACTOR: CE = 1.0 -SNOW LOAD IMPORTANCE FACTOR: IS = 1.0 (RISK CATEGORY II)
- -THERMAL FACTOR: CT = 1.1 -ALLOWANCE FOR DRIFTING SNOW PER THE MASSACHUSETTS STATE BUILDING CODE
- 3. WIND DESIGN DATA
- -RISK CATEGORY II -ULTIMATE WIND SPEED: V/ULT = 140 MPH
- -WIND EXPOSURE CATEGORY: C
- -INTERNAL PRESSURE COEFFICIENTS: GC/PI = +/-0.18 -DESIGN WIND PRESSURES IN ACCORDANCE WITH ASCE 7-10

WOOD FRAMING NOTES

- 1. FRAMING LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE AFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", LATEST EDITION. MAXIMUM MOISTURE CONTENT
- 2. PRESSURE TREATED WOOD MEMBERS USED FOR PLACEMENT AGAINST CONCRETE OR MASONRY (SILLS, PLATES, ETC.) SHALL BE PRESSURE TREATED WITH ACQ PRESERVATIVE, OR APPROVED EQUAL, TO MINIMUM RETENTION OF 0.6 PCF IN ACCORDANCE WITH AWPA C3.
- 3. CONNECTORS, CONNECTIONS, FASTENERS, ETC. USED TO SECURE ACQ PRESSUE TREATED LUMBER SHALL BE STAINLESS STEEL.
- 4. LUMBER WHICH IS SPLIT, CRACKED, NOTCHED OR OTHERWISE ALTERED OR DAMAGED SHALL BE IMMEDIATELY REJECTED AND NOT ALLOWED FOR USE, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- 5. THE FRAMING LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADE AND SPECIES FOR THE SPECIFIED USE. ALL LUMBER SHALL BE GRADE STAMPED BY A RECOGNIZED GRADING AGENCY AND SHALL BE SURFACE DRY:
- FOR EXPOSED PRESSURE TREATED DIMENSIONAL LUMBER*

#2 SOUTHERN PINE

F_B = 1100 PSI, E = 1.4e6 PSI #2 SOUTHERN PINE

F_C = 1,450 PSI, E = 1.4E6 PSI -TIMBERS AND POSTS (5x5 AND LARGER)

#2 SOUTHERN PINE $F_C = 525 \text{ PSI}, E = 1.2E6 \text{ PSI}$

FOR NON-EXPOSED DIMENSIONAL LUMBER**

-TIMBERS AND POSTS (5x5 AND LARGER)

(**DESIGN VALUES NOT ADJUSTED)

-FLOOR FRAMING AND BEAMS

-FLOOR JOISTS & BEAMS:

-STUDS:

#2 SPRUCE PINE FIR $F_B = 875 \, PSI, E = 1.4E6 \, PSI$

#2 SPRUCE PINE FIR

-STUDS #2 SPRUCE PINE FIR $F_C = 1150 \text{ PSI}, E = 1.4E6 \text{ PSI}$

F_C = 500 PSI, E= 1.0E6 PSI (*DESIGN VALUES ADJUSTED ONLY BY C_M)

6. LAMINATED VENEER LUMBER (LVL) TO HAVE A MINIMUM ALLOWABLE BENDING STRESS (FB) OF 3,100 PSI. THE MINIMUM ALLOWABLE COMPRESSIVE STRESS (Fc) PERPENDICULAR TO THE GRAIN SHALL BE 750 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 2,100,000 PSI. INSTALL LVL FRAMING IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

PARALLEL STRAND LUMBER (PSL) TO HAVE A MINIMUM ALLOWABLE BENDING STRESS (FB) OF 2,400 PSI. THE MINIMUM ALLOWABLE COMPRESSION STRESS (FC) PARALLEL TO THE GRAIN SHALL BE 2500 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,800,000 PSI. INSTALL PSL'S IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- 7. DETAILS OF WOOD FRAMING SUCH AS NAILING, BLOCKING, BRIDGING, FIRESTOPPING, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION (AFPA), THE TIMBER CONSTRUCTION MANUAL (AITC), AND ARCHITECTURAL GRAPHICS STANDARD BY RAMSEY & SLEEPER.
- 8. WHERE DIMENSIONAL FRAMING LUMBER IS FLUSH FRAMED TO ENGINEERED LUMBER OR STEEL GIRDERS, SET THESE GIRDERS 1/4" CLEAR BELOW THE TOP OF FRAMING LUMBER TO ALLOW FOR SHRINKAGE.
- 9. USE DOUBLE TRIMMERS AND HEADERS AT FLOOR OPENINGS WHERE BEAMS ARE NOT DESIGNATED
- 10.LAP PLATES AND SILLS AT CORNERS.
- 11.CONTRACTOR SHALL SUBMIT PROPOSED WOOD SPECIES, GRADES, GRADING AGENCY, TYPE OF PRESSURE TREATMENT, MANUFACTURE DATA, AND CERTIFICATIONS TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO ORDERING ANY MATERIALS.
- 12.USE FULLY NAILED METAL CONNECTORS (USP, SIMPSON, OR EQUAL), JOIST, OR BEAM HANGERS WHEN JOISTS OR BEAMS FRAME INTO OTHER JOISTS OR BEAMS. REFER TO FRAMING PLAN FOR CONNECTOR TYPES.
- 13.NAILS. FASTENERS, AND CONNECTORS EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED. CONNECTORS AND FASTENERS WHICH ARE USED WITH PRESSURE TREATED WOOD SHALL BE AISI 304 OR 316 STAINLESS STEEL.

14.WOOD PRODUCTS SHALL BE STORED IN A DRY LOCATION.

15.IN NO CASE SHALL JOISTS, BEAMS, STUDS OR ANY OTHER FRAMING MEMBER BE CUT, NOTCHED, DRILLED, OR OTHERWISE MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER

MANUFACTURED BUILDING NOTES:

- 1. SEE MODULEASE CORPORATION PLANS FOR LOADING AND OTHER INFORMATION.
- 2. MANUFACTURED BUILDING SHALL BE ADEQUATELY ANCHORED TO THE PROPOSED FOUNDATION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING AS NEEDED TO RELOCATE THE MANUFACTURED BUILDINGS.
- 4. THE BUILDING COMMISSIONER MAY REQUIRE A THIRD PARTY TESTING AGENCY TO REVIEW COMPLIANCE OF THE MANUFACTURED BUILDINGS UNDER THE NEW USE.

STRUCTURAL SHEET LIST

<u> </u>	<u> </u>
<u>SHEET</u> NUMBER	SHEET NAME
S-001	GENERAL NOTES
S-100	FOUNDATION PLAN
S-101	FIRST FLOOR FRAMING PLAN
S-102	ROOF FRAMING PLAN

TYPICAL ABBREVIATIONS

- ADDITIONAL - ALTERNATE

BOTH WAYS

- CENTERLINE

- CANTILEVERED

- CONTRACTION JOINT

- BUILDING

- BOTTOM

- CLEAR

C.M.U./CMU - CONCRETE MASONRY UNIT

- DOWELS

- EACH FACE

- EACH SIDE

- EACH WAY

- ELEVATION

- FLOOR DRAIN

- FULL HEIGHT

- FLOOR JOIST

- FOUNDATION

- HORIZONTAL

- MANUFACTURER

- FOOTING

- LONG

- MAXIMUM

- MINIMUM

- ON CENTER

- OVERHEAD

PIER NUMBER

- RIGID BOARD

SQUARE FOOT

- SLAB ON GRADE

STAINLESS STEEL

- TOP OF FOOTING

- UNDERGROUND

VAPOR BARRIER

- WELDED WIRE FABRIC

- UNLESS NOTED OTHERWISE

TYPICAL SYMBOLS

DESCRIPTION

FRAMING HANGER (SEE SCHEDULE)

IN PLANE FLOOR ELEVATION CHANGE

- TOP OF PIER

- TOP OF WALL

- REQUIRED

- SHELF

- STEEL

- SIMILAR

- TYPICAL

VERTICAL

- OPPOSITE

- PLATE

- FOOTING NUMBER

- HOT-DIPPED GALVANIZED

- POUNDS PER CUBIC FOOT

- POUND PER SQUARE FOOT

- POUND PER SQUARE INCH

- REINFORCE / REINFORCEMENT

- PRESSURE TREATED WOOD

- EACH

- CONTINUOUS

- COORDINATE

B/W

BOT

CL C.J.

CANT.

CONT.

COORD.

DWLS

EA

E.F.

E.S.

E.W.

F(#)

F.D.

F.H.

F.J.

FND

FTG

HDG

LG

MAX

MIN

O.C.

O.H.

OPP

P.T.

PSI

R.B.

REINF.

REQ'D

S.O.G.

S.S.

SH

SIM

STL

T.O.F.

T.O.P.

T.O.W.

U.N.O.

VERT

WWF

MARK

H► OR —

 $H-OR-\Box$

P.C.F./PCF

MANUF.

HORZ

ELEV.

CLR

BLDG



NICHOLAS 07|15|2023

HURCI S

SHEAR AND MOMENT CONNECTION TO W OR HSS SHAPE (SEE SCHEDULE) SHEAR CONNECTION TO W OR HSS SHAPE

LIGHTHO GRACE CRANBI

O

RAL

Ш

Z H

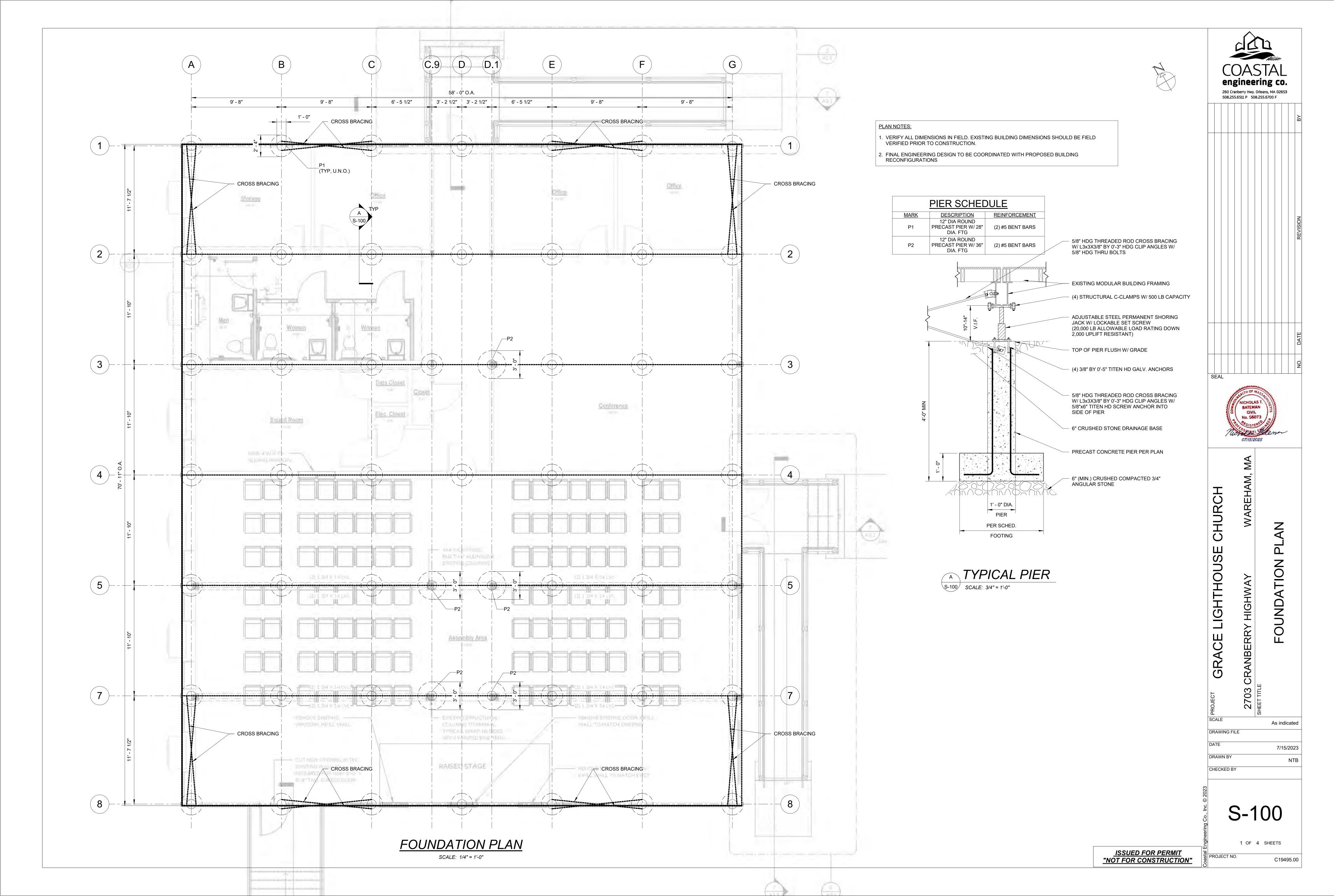
2703 SCALE 1" = 1'-0" DRAWING FILE 7/15/2023 DRAWN BY NTB CHECKED BY

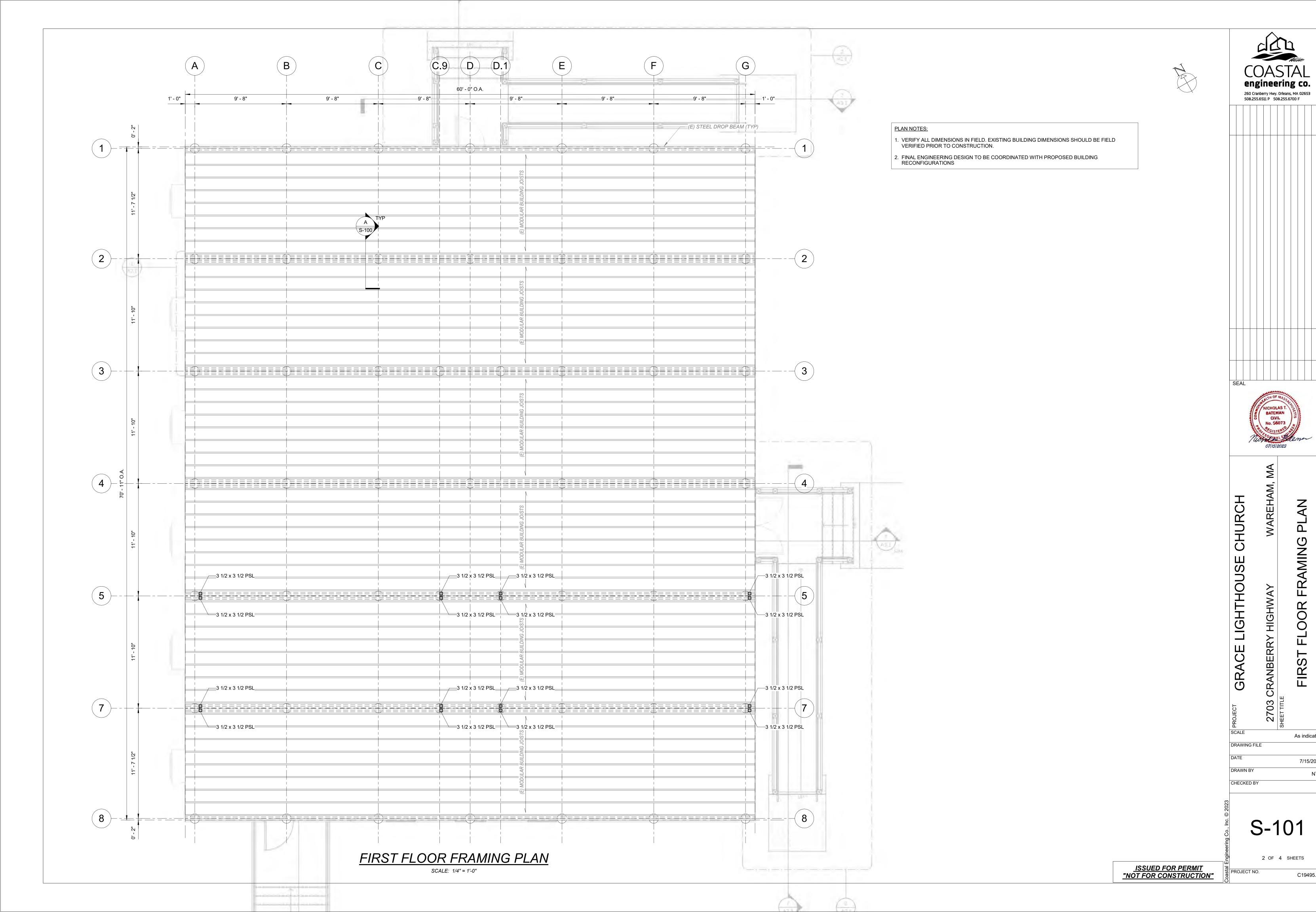
0 OF 4 SHEETS

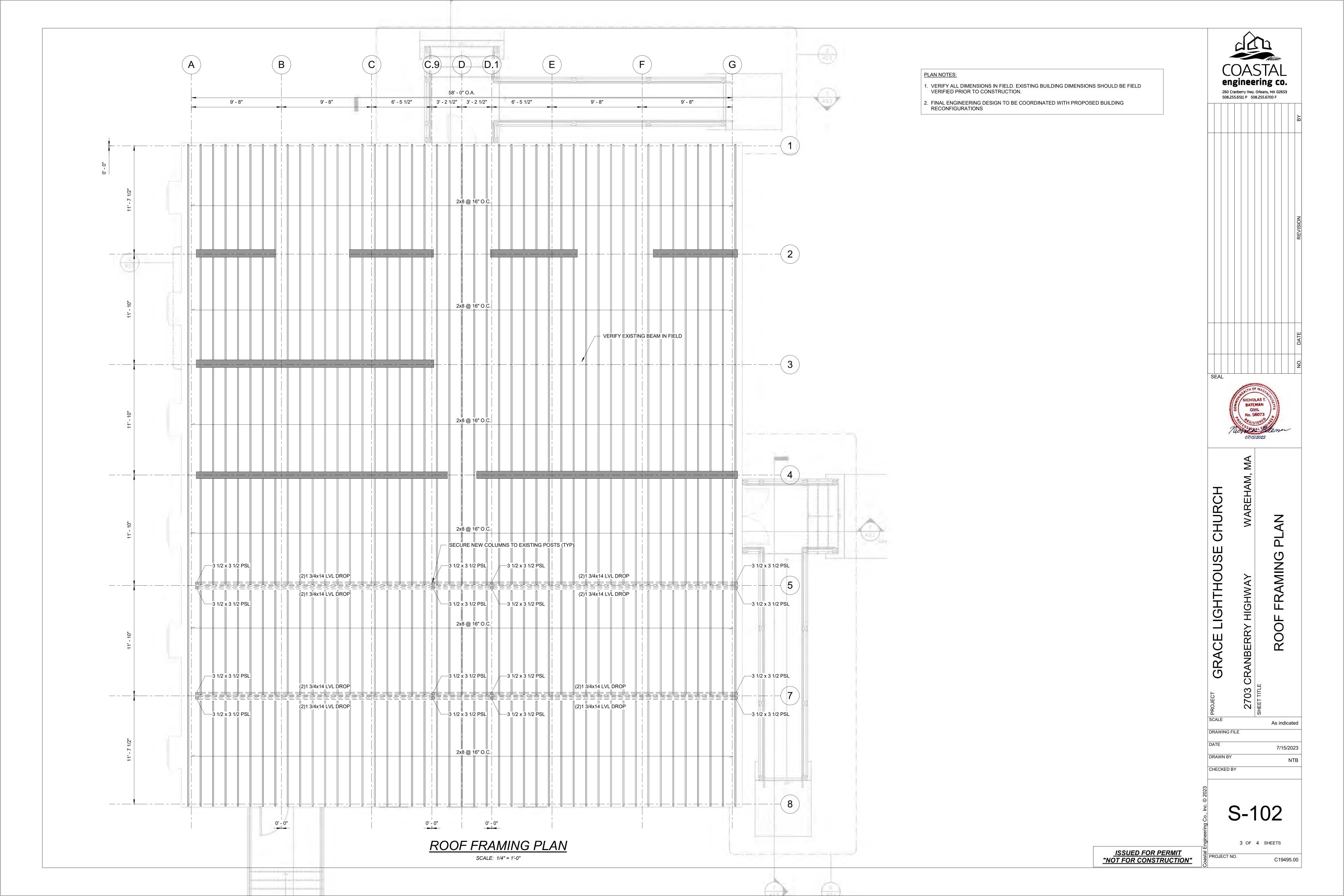
C19495.00

PROJECT NO.

<u>ISSUED FOR PERMIT</u> "NOT FOR CONSTRUCTION"







PLANT SCHEDULE								
LABEL	SCIENTIFIC NAME	COMMON NAME	QTY	SIZE (DBH)				
	TREES							
AR Acer Rubrum 'October Glory' "October Glory" Red Maple 3 2 - 2 ½"								
PA	Platanus x acerifolia 'Bloodgood'	"Bloodgood" London Plane Tree	7	2 - 2 ½"				
SHRUBS								
MP	Morella pensylvanica	Bayberry	27	#3				

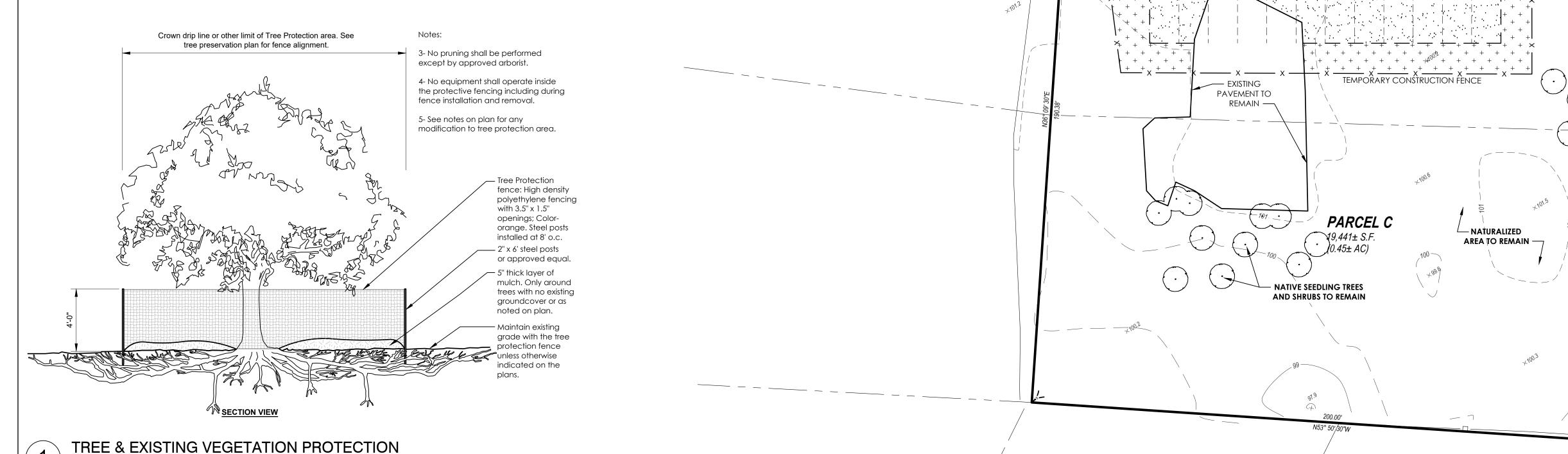
MINIMUM LANDSCAPE BUFFER (FEET) PER 1041												
ADJACENT USE HOUSE	SINGLE FAMILY HOUSE	TWO FAMILY DWELLING	MULTI - FAMILY	COMMERCIAL	OFFICE	INDUSTRIAL						
SINGLE FAMILY HOUSE	NONE	NONE	10	20	20	40						
TWO FAMILY DWELLING	NONE	NONE	10	20	20	40						
MULTI-FAMILY	10	10	10	20	20	40						
COMMERCIAL	20	20	20	10	10	10						
OFFICE	20	20	20	10	10	10						
INDUSTRIAL	40	40	40	10	10	10						

GENERAL NOTES

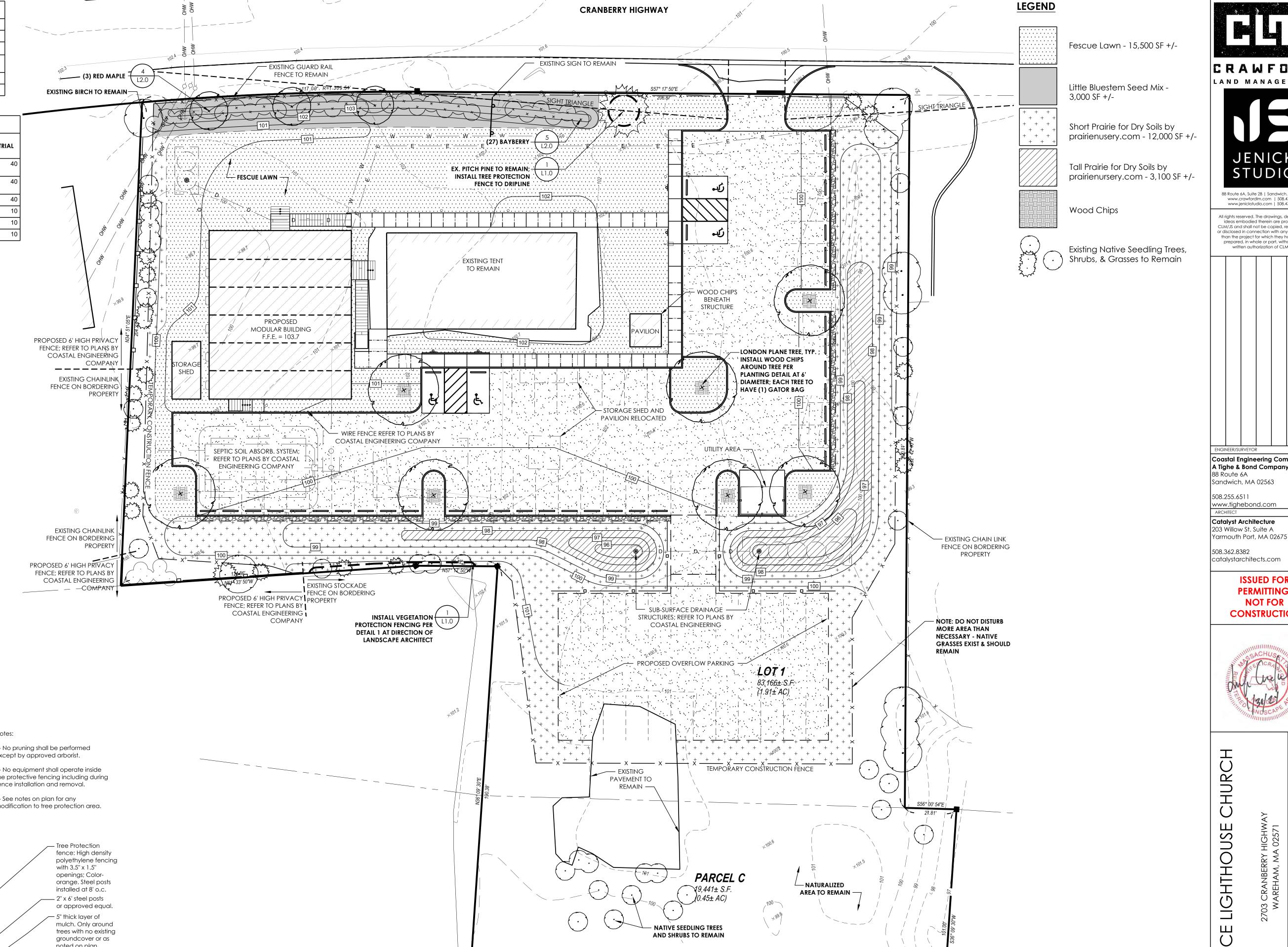
- 1. Planting contractor shall visit site prior to submitting bid to become completely familiar with site conditions.
- 2. No planting will be installed until all grading and construction has been completed in immediate area.
- 3. Call DIGSAFE (1-888-344-7233) to locate existing utilities prior to any excavation. Protect existing utilities to remain throughout the construction process, and repair any damage done to these at no cost to the Owner. Utilities noted on drawing are illustrative and represent approximate locations of trenching.
- 4. Locate, protect, and maintain bench marks, monuments, control points, and project engineering reference points. Re-establish disturbed or destroyed items at Contractor's expense.
- 5. Examine the areas and conditions under which site work is performed. Do not proceed with the work until unsatisfactory conditions are corrected. Report discrepancies in drawings or specifications to the Landscape Architect for clarifications and adjustments before commencing work. Any deviations or changes from these drawings without written acceptance of the Landscape Architect shall obsolve the Landscape Architect of any and all responsibility of said deviation and change.

SITE PREPARATION & VEGETATION PROTECTION NOTES

- 1. Landscape Architect to flag trees to be protected on site and confirm all vegetation protection areas prior to site work/contractor starting work.
- 2. The tree/vegetation protection line will be established with orange construction fencing supported on steel stakes about 8' O.C. This material shall be used to protect existing trees, shrubs and other plantings as indicated on plan. Fencing is to be kept in good repair throughout the construction process. Refer to Detail 1, SHT L1.0
- 3. Strip topsoil from construction access areas. Stockpile for



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CRAWFORD LAND MANAGEMENT STUDIO

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Coastal Engineering Company

A Tighe & Bond Company 88 Route 6A Sandwich, MA 02563

www.tighebond.com Catalyst Architecture 203 Willow St. Suite A

508.362.8382 catalystarchitects.com

> **ISSUED FOR** PERMITTING; **NOT FOR** CONSTRUCTION



SCALE: 1'' = 20' 1/30/2024

PLANTING & SEEDING NOTES

- Contractor to inspect all planting & seeding areas after construction is completed in those areas PRIOR to commencing any planting or seeding installation. A soil compaction meter shall be used to test ALL planting and seeding areas to ensure SUB-SOIL and TOP SOIL conditions are NOT compacted by construction activities BEFORE planting or seeding. If compacted areas are encountered, contractor shall commence with de-compaction of soils utilizing the appropriate method according to DETAILS 1, 2, & 3, SHEET L2.0
- 2. Promptly notify the Landscape Architect of unexpected sub-surface conditions.
- 3. Provide samples of materials proposed for use for the review of the Landscape Architect, including fill, topsoil, planting soil, and amendments. Suitable excavated materials removed to accommodate new construction may be used as fill material subject to the approval of the Landscape Architect or Civil Engineer. Soil test reports for topsoil shall be provided by the contractor through the University of Massachusetts soil testing laboratory.
- . All disturbed areas not to be paved or planted shall be loamed and seeded as shown. See plant schedule for seed mixes.
- . Topsoil to be installed shall be natural, friable, fertile soil characteristic of productive soil in the vicinity, reasonably free of stones, clay lumps, roots, and other foreign matter. Do not use muddy topsoil. Place during dry weather. Allow for 6" average depth of topsoil screened for lawn areas, and 12" depth at planting areas, except as otherwise indicated on the drawings. Contractor may use stockpiled topsoil from the site for any buffer areas. Do not use for lawn areas.

6. Seeding instructions for:

Short Prairie for Dry Soils Tall Prairie for Dry Soils Little Bluestem - 1 PLS lb/1000 sf Cover Crop & Nurse Crop (seed oats)

FALL SEEDING:

Mid-August - September:

- Seed mix 15lbs/ac * bluestem area is seeded at different rate, refer to above
- Cover crop 125lbs/acre
- Prepare seed bed by hand raking soils to 'fluff' them, if needed, depending on how soils were prepared by the Site Contractor.
- Mix seed mix AND cover crop together with moistened (not wet) peat moss. Use 2.5 cubic feet of peat moss per 1,000 square feet of area to be seeded.
- Divide the mixture in half and hand broadcast one half of the seed evenly over the area.
- Hand broadcast the second half of the seed walking perpendicular to the first direction to ensure an even seed distribution.
- Lightly rake or drag seeded area.
- Roll seeded area with drum roller.
- Cover all swale and basin areas as well as the berm with 18-month biodegradable erosion control blankets & stake in place with 12" hardwood stakes.

October - April:

- Seed mix 15lbs/ac * bluestem area is seeded at different rate, refer to above
- Prepare seed bed by hand raking soils to 'fluff' them, if needed, depending on how soils were prepared by the Site Contractor.
- Mix seed mix with moistened (not wet) peat moss. Use 2.5 cubic feet of peat moss per 1,000 square feet of area to be
- Divide the mixture in half and hand broadcast one half of the seed evenly over the area.
- Hand broadcast the second half of the seed walking perpendicular to the first direction to ensure an even seed distribution.
- Lightly rake or drag seeded area.
- Roll seeded area with drum roller.
- Cover all swale and basin areas as well as the berm with 18-month biodegradable erosion control blankets & stake in place with 12" hardwood stakes.
- Cover all other seeded areas with ½" of clean, weed-free chopped straw.

May - June (can be used July - August but not recommended):

- Seed mix 20lbs/ac * bluestem area is seeded at different rate, refer to above
- Nurse crop 50lbs/acre
- Prepare seed bed by hand raking soils to 'fluff' them, if needed, depending on how soils were prepared by the Site Contractor.
- Mix seed mix AND cover crop together with moistened (not wet) peat moss. Use 2.5 cubic feet of peat moss per 1,000 square feet of area to be seeded.

- Divide the mixture in half and hand broadcast one half of the seed evenly over the area.
- Hand broadcast the second half of the seed walking perpendicular to the first direction to ensure an even seed distribution.
- Lightly rake or drag seeded area.
- Roll seeded area with drum roller.
- Cover all swale and basin areas as well as the berm with 18-month biodegradable erosion control blankets & stake in place with 12" hardwood stakes.
- 7. If there is a discrepancy between the number of plants shown on the plan and the number of plants shown in plant list, the number of plants shown on plan will take precedence.
- 8. All container material to be grown in container a minimum of
- 9. All material shall comply with the latest edition of the American Standard for Nursery Stock, American Association of Nurseryman.
- 10. Contractor shall repair all damage to property from planting operations at no cost to the owner.
- 11. Contractor shall guarantee new plant material through one calendar year from time of provisional acceptance, provided any irrigation or maintenance requirements required by contractor are met.
- 12. The Landscape Architect may tag all plants at the nursery and inspect them after delivery to the site. All plant materials shall be inspected by the Landscape Architect on site prior to installation. Landscape Architect can reject any plant that does not meet specifications.
- 13. All proposed plants shall be located carefully as shown on the plans and the placements shall be approved by Landscape Architect before the plants are installed.
- 14. Spacing of plants is to be based on measurements taken parallel to the ground plane.
- 15. Staking and guying shall be determined by the Landscape Architect on a tree by tree basis. For pricing purposes, provide a per tree unit cost for staking and guying. If staking and guying is required, remove tree wrap, stakes, and guy wires at end of first growing season.

LANDSCAPE BUFFER MAINTENANCE NOTES

- 1. New trees to be watered using Treegator Original Slow Release Watering Bag filled with 15 gallons of water twice per week, or equal. For 3 growing seasons minimum. New shurbs to be watered using Tree Watering Donut 15 Gallon Capacity By Dew Right filled with 15 gallons of water twice per week, or equal. Watering can be periodic during May & June for hot stretches of weather. Watering to be regular July - Mid
- 2. Seedling/Sapling trees that have been previously mown or cut will be assessed by a licensed ISA arborist. Multi-stem specimens will be pruned to retain the most robust 1-3 leaders, depending on the structure of the specimen.
- 3. Native shrubs or trees existing in the retained buffer areas may be pruned for health or regeneratively pruned if deemed necessary or beneficial.
- 4. Any state-listed invasive species or weedy/aggressive species will be either mechanically removed or treated with a species-appropriate herbicide by a state-licensed and insured applicator.

SEEDED BUFFERS & NATURALIZED AREAS **MAINTENANCE**

1. FIRST GROWING SEASON

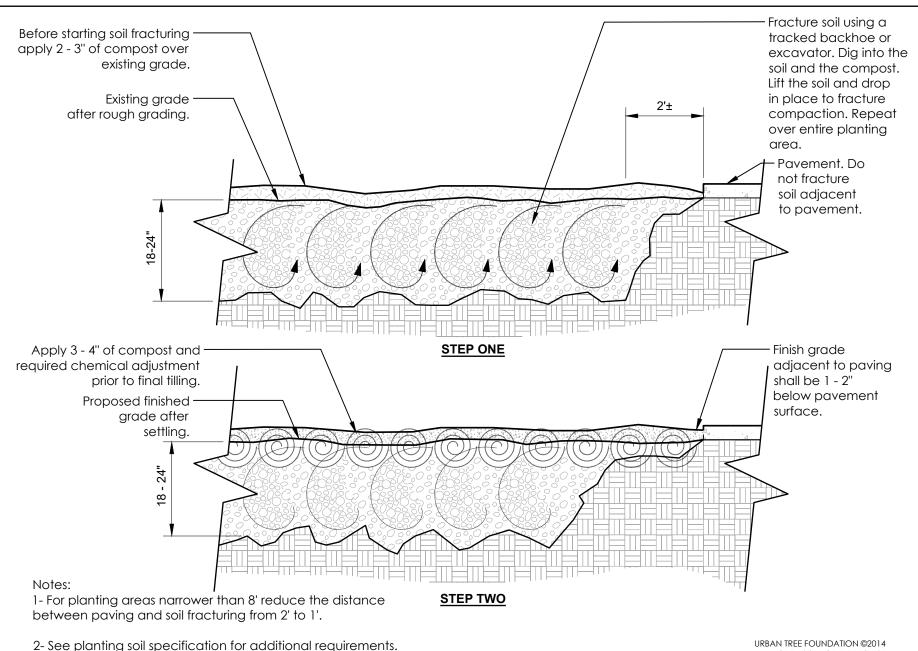
- Monitor seeded areas weekly. When germinating weeds reach a height of 10-12" or begin to set flower, mow areas to a height of 6"-8". A string trimmer may be used for smaller areas; a flail mower with an appropriate height
- setting for larger areas. • If weed germination is minimized, they may be hand pulled or spot treated with an appropriate herbicide before flowering.
- **DO NOT MOW** after September 15th
- Leave areas between 8"-10" high through the first winter. • EXPECT TO MOW 3 TIMES DURING THE FIRST GROWING SEASON.

2. SECOND GROWING SEASON

- In April, mow all areas to a 2" height and rake off cuttings for disposal off site.
- If annual weed germination is still plentiful, mow to 10"-12" in height in mid to late June to prevent flower and seed production.
- If weed germination is minimal, hand weed or spot treat as
- A second moving may be required depending on weed species and content.

3. THIRD GROWING SEASON

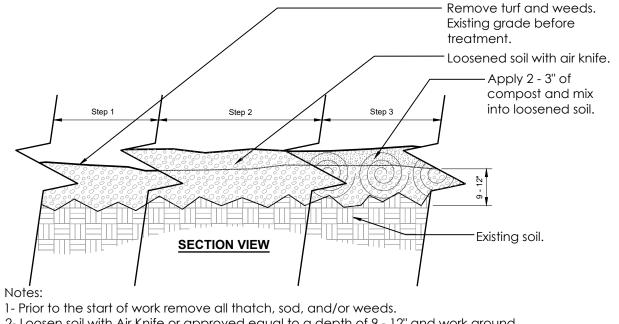
 Mow meadows and naturalized areas once per year in April to a height of 2". DO NOT MOW LOWER OR AT ANY OTHER TIME OF YEAR.



Finished grade after settlement. Finished grade after tilling but before settlement. Apply 2 - 3" compost. Till compost into top 6" of soil. Existing soil. **SECTION VIEW**

1- See planting soil specifications for additional requirements

MODIFIED EXISTING SOIL - COMPACTED SURFACE SOIL NOT TO SCALE

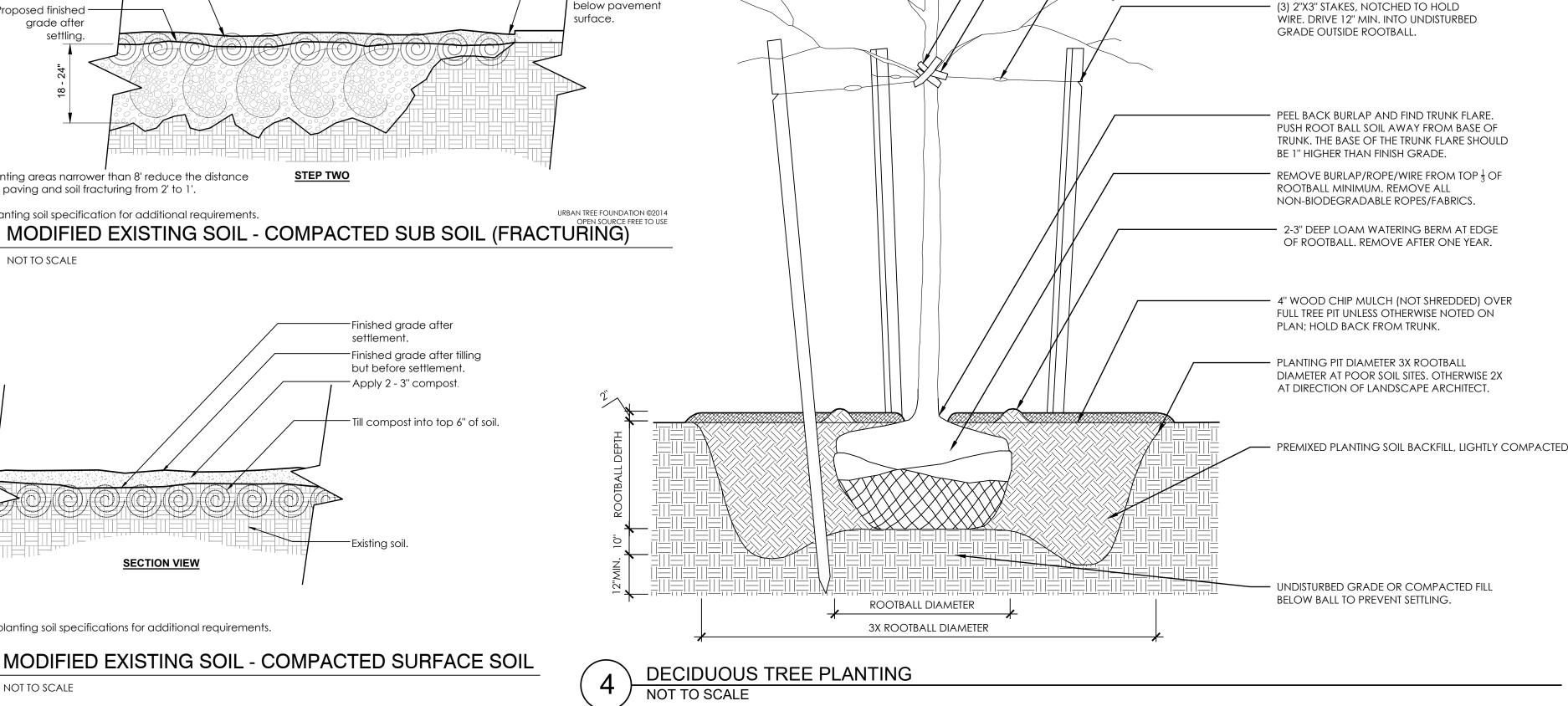


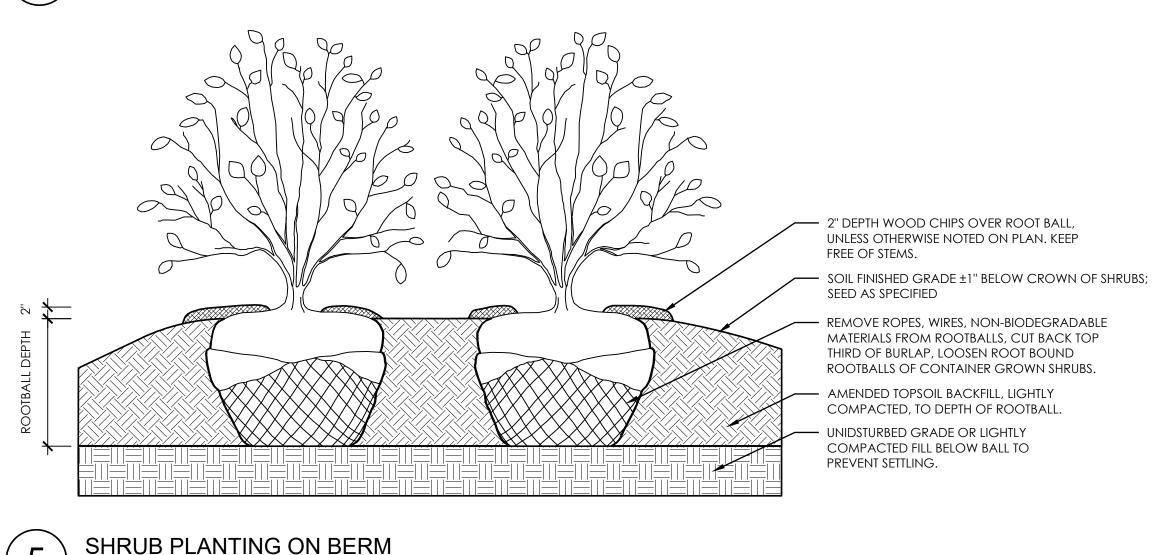
2- Loosen soil with Air Knife or approved equal to a depth of 9 - 12" and work around encountered roots. 3- Apply 2 - 3" of compost over loosened soil. Using an air knife mix compost into loosened soil. 4- Water entire root zone at end of each work day. 5- See planting soil specifications for additional requirements.

MODIFIED EXISTING SOIL COMPACTED SOIL IN TREE DRIPLINE

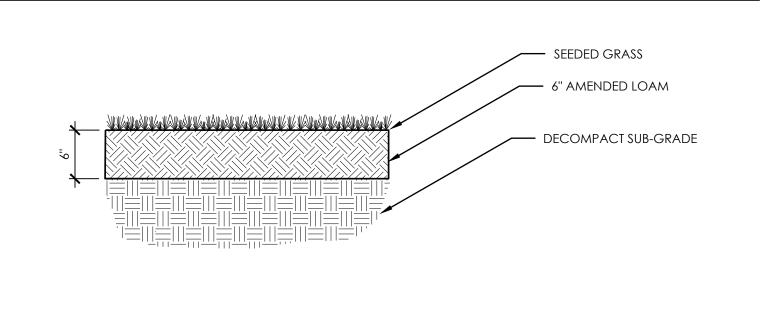
NOT TO SCALE

NOT TO SCALE





NOT TO SCALE



GRASS SEEDED LAWN

CRAWFORD LAND MANAGEMENT **JENICK** STUDIO 88 Route 6A, Suite 2B | Sandwich, MA 0256 www.crawfordlm.com | 508.477.1346 www.jenickstudio.com | 508.477.1346

PRUNE BROKEN, CROSSING, OR RUBBING BRANCHES

1 DIAMETER BLACK RUBBER HOSE TO PROTECT BARK.

12 GAUGE GALVANIZED WIRE WITH TURNBUCKLE.

· LOCATE HOSES AT FIRST BRANCH.

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written authorization of CLM/IS

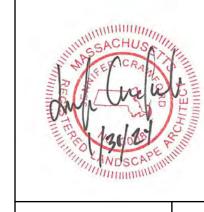
Coastal Engineering Company A Tighe & Bond Company 88 Route 6A Sandwich, MA 02563

508.255.6511 www.tighebond.com Catalyst Architecture 203 Willow St. Suite A Yarmouth Port, MA 02675

catalystarchitects.com

508.362.8382

ISSUED FOR PERMITTING; **NOT FOR** CONSTRUCTION



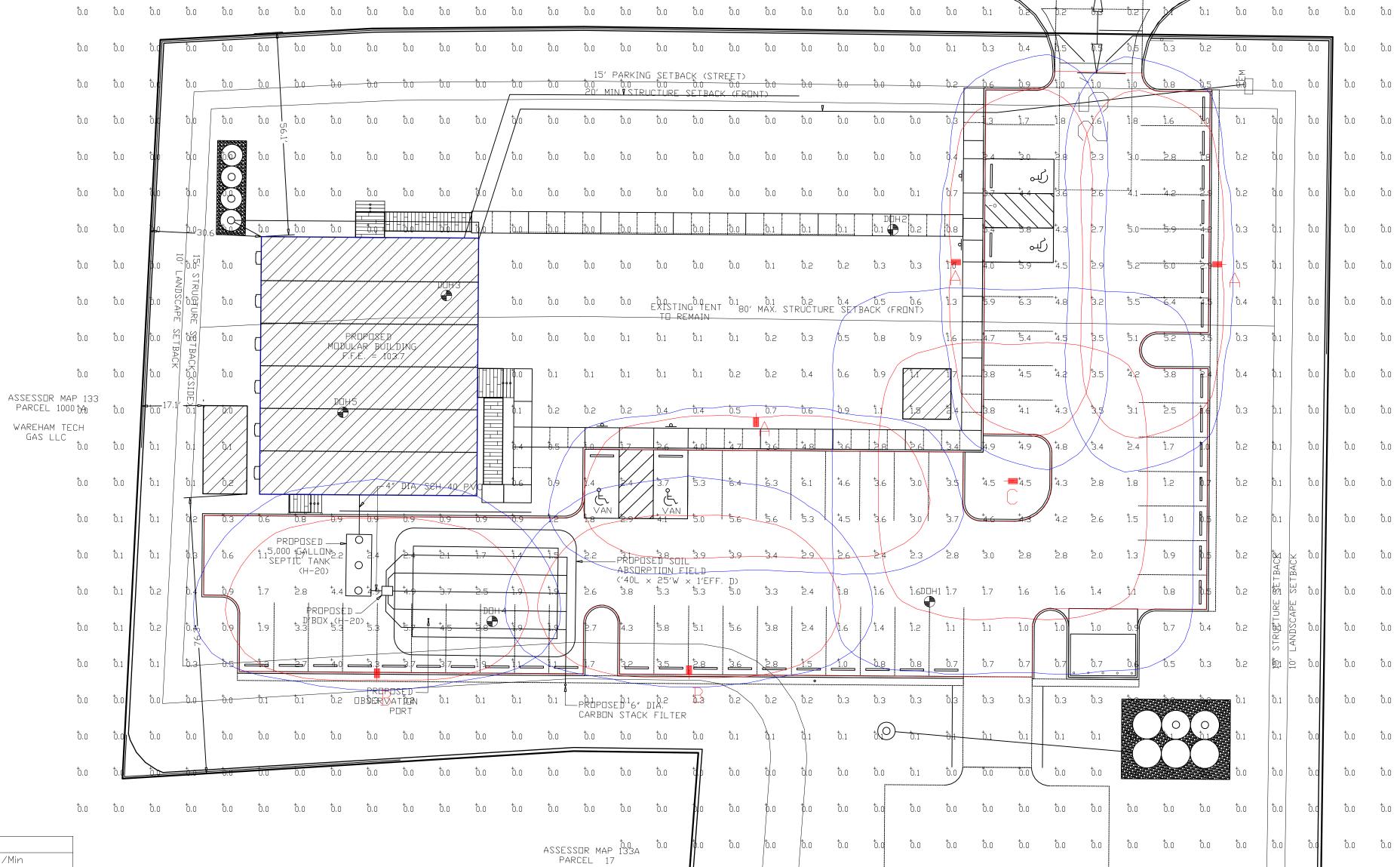
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SCALE: NOT TO SCALE DATE: 1/30/2024

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MCGONAGLE HUGHO.OD 5.0

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
ALL CALCS AT GRADE	Illuminance	Fc	0.57	6.4	0.0	N.A.	N.A.	
PARKING LOT	Illuminance	Fc	3.00	6.4	0.5	6.00	12.80	

Luminaire Sc	thedule								
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts
	3	Α	SINGLE	SLM-LED-18L-SIL-3-40-70CRI-IL-SINGLE	20′	0.950	0.950	12552	135
	2	В	SINGLE	SLM-LED-18L-SIL-4-40-IL-70CRI-SINGLE	20′	0.950	0.950	12271	135
	1		SINGLE	SLM-LED-18L-STL-5W-40-70CRI-SINGLE	20'	0.950	0.950	18498	135

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ASSESSOR MAP 133A PARCEL B LATHAM PETER R

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Total Project Watts_1



SCALE: 1"=20'

LIGHTING PROPOSAL LO-159397 CRANBERRY HIGHWAY PARKING LOT

.0 2703 CRANBERRY HIGHWAY WAREHAM, MA DATE:01/02/24

PHOTOMETRIC EVALUATION NOT FOR CONSTRUCTION

document for ordering product.

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 lamps/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