# PROPOSED SITE DEVELOPMENT PLANS

**PROPOSED** 

## RESTAURANT W/ DRIVE-THRU

**LOCATION OF SITE** 

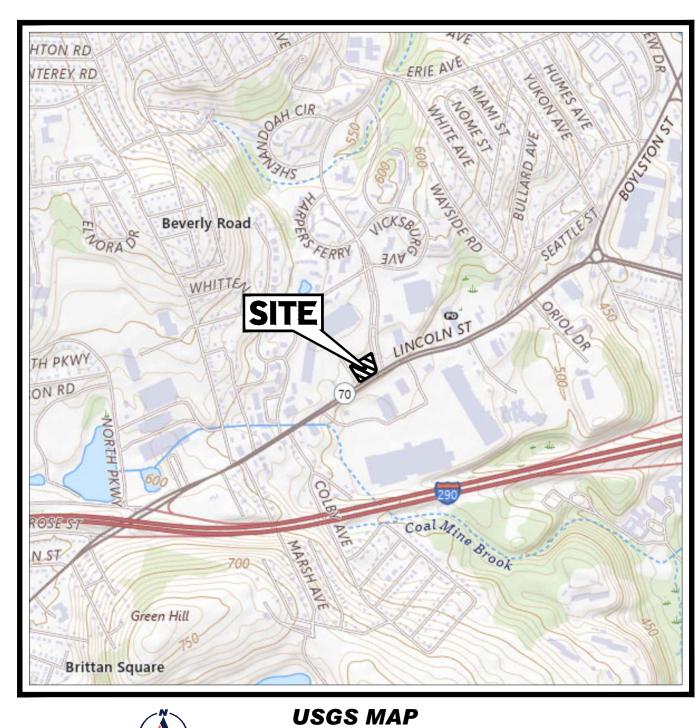
494 LINCOLN STREET, CITY OF WORCESTER WORCESTER COUNTY, MASSACHUSETTS

MAP 39, BLOCK 29, LOT 1C

### REFERENCES AND CONTACTS

REFERENCES **♦BOUNDARY & TOPOGRAPHIC SURVEY** 352 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 DATED: 05/23/24 JOB #03-240145-00 **ELEVATIONS: NAVD 1988** MANCHESTER, NH 03103 ♦PHOTOMETRIC SITE PLAN ADA ARCHITECTS 17710 DETROIT AVENUE DATED: 10/01/24

THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS, ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.



SCALE: 1" = 1,000'





**AERIAL MAP** 

SCALE: 1" = 100'

SOURCE: GOOGLE EARTH



**DEVELOPER** 

PREPARED BY





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REV	DATE	COMMENT	DRAWN BY
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1	10/22/2024	REVISED PER CITY	CJP
<u>'</u>	10/22/2024	COMMENTS	MMA
2	11/04/2024	REVISED PER CITY	CSE
	11/04/2024	COMMENTS	MMA
3	12/23/2024	REVISED PER CITY	CJP
	12/20/2024	COMMENTS	MMA



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### **ENTITLEMENT SET**

THIS DRAWING IS INTENDED F REVIEW AND APPROVAL. IT IS N	FOR MUNICIPAL AND/OR AGENC OT INTENDED AS A CONSTRUC
DOCUMENT UNLESS	INDICATED OTHERWISE.
PROJECT No.:	MAA240136
DRAWN BY:	(
CHECKED BY:	M
DATE:	10/03/20
CAD I.D.:	X-CIVL-T1

**SHEET INDEX** 

SHEET NUMBER

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**SHEET TITLE** 

**COVER SHEET** 

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**GRADING PLAN** 

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DIMENSION CONTROL PLAN

UTILITY & DRAINAGE PLAN

CONSTRUCTION DETAILS

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EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

## SITE DEVELOPMENT **PLANS**

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C **494 LINCOLN STREET WORCESTER COUNTY WORCESTER, MASSACHUSETTS** 

PROTOTYPE 6-V-AV **RESTAURANT #RC1233** 

**DESIGNER INFORMATION:** 

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772

www.BohlerEngineering.com



COVER SHEET

C-101

**REVISION 3 - 12/23/2024** 

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT VORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD II VRITING PRIOR TO THE START OF CONSTRUCTION, FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITU

### MASSACHUSETTS DEMOLITION NOTES

THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE

TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE

- ACTIVITY.

  2. CONTRACTOR SHALL FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND IF REQUIRED, DIG EXPLORATORY TEST PITS TO CONFIRM EXACT LOCATION AND DEPTH OF UTILITIES. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS AS NEEDED TO COORDINATE FINAL LOCATION OF ALL PROPOSED MARROWERS.
- PROPOSED IMPROVEMENTS.

  3. CONTRACTOR SHALL INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS RE-USE TO VERIFY SUITABILITY FOR SAME. IF STRUCTURES CAN NOT BE REUSED THEN THE CONTRACTOR SHALL PROVIDE A NEW STRUCTURE. THE CONTRACTOR SHALL COORDINATE SUCH WORK WITH THE
- APPLICABLE UTILITY PROVIDER.

  4. CONTRACTOR TO REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS, DELETERIOUS MATERIALS, AND/OR DEBRIS THAT IMPEDE THE WORK SHOWN ON THESE PLANS.

  5. THE CONTRACTOR SHALL REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY OF SAME AND VERIFY ITEMS TO BE REMOVED. THE

CONTRACTOR SHALL CARRY COSTS FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES, AND

- UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO, DRAIN, WATER, SEWER, STEAM, IRRIGATION, GAS, TELECOM AND ELECTRIC.

  6. THE CONTRACTOR SHALL MAINTAIN, ADJUST OR ABANDON EXISTING MONITORING WELLS IN ACCORDANCE WITH THE DIRECTION OF THE ENVIRONMENTAL CONSULTANT (TYP.)
- 7. WHERE THE LIMIT OF WORK COINCIDES WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF IT IS SHOWN ADJACENT TO THESE FEATURES FOR GRAPHICAL CLARITY.

  3. EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION UNLESS CLEARLY INDICATED OTHERWISE. REASONABLE CARE AND CAUTION SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT DAMAGE AND SELECTIVE PRUNING MAY BE REQUIRED TO ENSURE THAT TREES DO NOT CONFLICT WITH THE
- DEVELOPMENT.

  9. CONTRACTOR SHALL REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION WITHIN EXISTING OR PROPOSED RIGHTS OF WAYS. ANY SUCH WORK SHALL BE PERFORMED BY A LICENSED / DOT APPROVED SIGNAL CONTRACTOR. ANY DAMAGED LOOPS OR OTHER SIGNAL EQUIPMENT
- SHALL BE REPAIRED IMMEDIATELY AFTER THE WORK IS COMPLETE. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO MAKE ANY TEMPORARY SIGNAL CHANGES IF REQUESTED BY DOT AND/OR THE MUNICIPALITY.

  10. THE CONTRACTOR MUST FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES BY USING A TEST PIT TO DETERMINE THE EXACT SIZE, DEPTH AND LOCATION, PRIOR
- TO COMMENCEMENT OF CONSTRUCTION.

  1. CONTRACTOR SHALL LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED AT THE EXISTING MAIN AND/OR PROPERTY LINE. THESE SERVICES ARE TO BE TERMINATED IN ACCORDANCE WITH MUNICIPAL / STATE TRANSPORTATION DEPARTMENT REQUIREMENTS.

### **MASSACHUSETTS SITE NOTES**

(Rev. 5/2024)

(Rev. 5/2024)

(Rev. 1/2023)

- WHEN APPLICABLE, OWNER/ OPERATOR MUST FILE THE NOI FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIME FRAMES BASED UPON THE DESIRED START OF CONSTRUCTION. LAND DISTURBING ACTIVITIES MUST NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED FROM GOVERNING AUTHORITIES (INCLUDING STORMWATER POLLUTION PREVENTION PLAN). THE CONTRACTOR MUST STRICTLY ADHERE TO THE APPROVED SWPPP PLAN DURING CONSTRUCTION OPERATIONS (IF PROVIDED).
- 2. ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARD PSI AT 28 DAYS (OR 4,000 PSI) UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS, DETAILS AND GEOTECHNICAL REPORT THEN THE GEOTECHNICAL REPORT SHALL GOVERN.
- THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PERMITTING PROCEDURES.
   THE CONTRACTOR MUST REPAIR OR REPLACE, AT THE CONTRACTOR'S SOLE COST AND EXPENSE, ALL
- SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES WHETHER SPECIFIED ON THIS PLAN OR NOT.

  5. WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROPERTY OF THE PERFORMENT OF PUBLIC WORKS. ENCINEERING PERAPTMENT.
- WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS AND STANDARDS OF THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DEPARTMENT, HIGHWAY DIVISION, AND/OR STATE DOT HIGHWAY DEPARTMENT.
   WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS. TOP AND BOTTOM OF WALL WIDTHS DO NOT
- REPRESENT THE ACTUAL WIDTH OF THE PROPOSED WALL, RATHER THEY ARE AN ASSUMPTION BASED ON WALL TYPE AND WALL HEIGHT. WALL FOOTINGS AND /OR FOUNDATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT AN APPROPRIATELY LICENSED PROFESSIONAL DESIGNS ALL WALLS SHOWN HEREON AND PRIOR TO CONSTRUCTION. REFER TO GRADING NOTES REGARDING RETAINING WALL DESIGN.
- CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS. CONTRACTOR SHALL PROVIDE FIELD MODIFICATION LOCATIONS OF BOLLARDS AND BOLLARDS WITH SIGNAGE AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITY SERVICES TO REMAIN.

### MASSACHUSETTS ACCESSIBILITY DESIGN

### **GUIDELINES**

(Rev. 5/2024)

1. IN ADDITION TO THE ACCESSIBILITY DESIGN GUIDELINES ON SHEET C-102, THE CONTRACTOR MUST ALSO ENSURE THAT ALL ACCESSIBLE COMPONENTS AND ACCESSIBLE ROUTES ARE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS 521 CMR. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, OF ANY DISCREPANCIES BETWEEN THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE AND STATE BUILDING CODE AS IT RELATES TO ANY ACCESSIBLE IMPROVEMENTS BEING CONSTRUCTED PRIOR TO COMMENCING THE WORK.

### MASSACHUSETTS GRADING NOTES

CHUSETTS GRADING NOTES

PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE PAVEMENT GRADE UNLESS OTHERWISE

- 2. THE CONTRACTOR MUST CONFIRM AND ENSURE THAT AS CONSTRUCTED IMPROVEMENTS CREATE THE FOLLOWING MINIMUM SLOPES (EXCEPT WHERE ADA REQUIREMENTS LIMIT THEM): 1.0% ON ALL CONCRETE SURFACES, 1.5% ON ASPHALT SURFACES, 1.5% IN LANDSCAPED AREAS AND 0.75% SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS TO PROVIDE POSITIVE DRAINAGE.
- WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (GH & GL) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND THE BOTTOM OF THE WALL AND DO NOT REPRESENT THE OVERALL HEIGHT OF THE WALL TO ITS EXTENTS (I.E. ANY CAP UNITS OR COURSES BELOW GRADE INCLUDING FOOTINGS ARE EXCLUDED). WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT THERE ARE NO UTILITIES ON THE PASSIVE SIDE OF THE RETAINING WALL. NO EXCAVATION MAY BE PERFORMED ON THE PASSIVE SIDE OF THE RETAINING WALL WITHOUT APPROPRIATELY AND SAFELY SUPPORTING THE WALL IN ACCORDANCE WITH THE STANDARD OF CARE AND ALL APPLICABLE RULES, REGULATIONS, CODES, ORDINANCES, LAWS AND STATUTES.
  4. MSE OR GRAVITY BLOCK WALLS SHALL BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION
- 4. MSE OR GRAVITY BLOCK WALLS SHALL BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION THERE IS NO UNFINISHED SURFACE OR LIFTING RINGS VISIBLE (E.G. USE OF FINISHED TOP BLOCK OR CAP
- 5. STORMWATER RUNOFF WITHIN PROPERTY MUST BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF ONTO THE RIGHT-OF-WAY OR ADJACENT PROPERTIES TO THE MAXIMUM EXTENT POSSIBLE OR IN THE MANNER SHOWN ON THE CONSTRUCTION DRAWINGS. STORMWATER RUNOFF ONTO ADJACENT PROPERTIES SHALL BE CONTROLLED AS TO NOT ADVERSELY IMPACT SAID PROPERTIES.
- BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS WITH THEIR INTENDED FOR STRUCTURAL USES TO THE GEOTECHNICAL ENGINEER OF RECORD.
   REFER TO GENERAL NOTES SHEET FOR ADDITIONAL ADA GUIDELINES AND REQUIREMENTS.
   FOR ALL RETAINING WALLS 4 FEET OR GREATER IN HEIGHT.
- 8.1. THE OWNER OR THE OWNER'S CONTRACTOR IS TO PROVIDE A SITE-SPECIFIC RETAINING WALL DESIGN PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED (E.G. STRUCTURAL ENGINEER) IN THE STATE WHERE THE CONSTRUCTION OCCURS. SOIL TYPES, WATER TABLE ELEVATION, EXISTING & PROPOSED SURROUNDING IMPROVEMENTS/CONDITIONS (INCLUDING BUT NOT LIMITED TO SLOPES, DRIVE AISLES, ROADS, FENCING, GUIDERAILS, UTILITIES, DRAINAGE FACILITIES, STRUCTURES, FOUNDATIONS), LIVE LOADS AND OTHER SITE AMENITIES THAT COULD HAVE AN INFLUENCE OR IMPACT ON THE RETAINING WALL(S) CONSTRUCTABILITY AND/OR LONGEVITY SHALL BE CONSIDERED AND INCORPORATED INTO THE RETAINING WALL DESIGN AS WELL AS THE GLOBAL STABILITY ANALYSIS.
  8.2. PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY
- THE OWNER'S GEOTECHNICAL ENGINEER TO CERTIFY THE DESIGN MEETS INDUSTRY STANDARDS FOR FACTOR OF SAFETY. SOIL TYPES, WATER TABLE ELEVATION AND DESIGN PROPERTIES AS NOTED ABOVE SHALL BE FIELD CONFIRMED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.

  9. CONTRACTOR SHALL INSTALL CONCRETE CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE
- consistent width along length of proposed accessible ramp and ramp landing to meet ada/aab requirements.
- CONTRACTOR SHALL REVIEW RETAINING WALL LOCATIONS VERSUS APPLICABLE STATE AND LOCAL CODES AND PROVIDE FALL PROTECTION (E.G. FENCING OR RAILING) IN ACCORDANCE WITH SAID CODE.
   CONTRACTOR SHALL COORDINATE WITH OWNER/OPERATOR TO REVIEW EXISTING DEPRESSIONS WITHIN EXISTING PAVEMENT AREAS TO REMAIN AND SHALL CONFIRM THAT THE SCOPE OF WORK SHALL PROVIDE
- POSITIVE DRAINAGE BY FIXING ANY EXISTING AREAS OF PONDING.

  12. BEFORE COMMENCING GRADING WORK, CONTRACTOR SHALL SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS WITH THEIR INTENDED FOR STRUCTURAL USES TO THE GEOTECHNICAL ENGINEER OF RECORD.

### MASSACHUSETTS DRAINAGE NOTES

- 1. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS OF INSTALLED UTILITIES AS APPROPRIATE, MARK UTILITY ENDS WITH MAGNETIC TRACER TAPE, MARK TERMINUS LOCATIONS WITH A 2X4 STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE
- DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.

  2. STORM AND SANITARY PIPE LENGTHS INDICATED ARE NOMINAL AND ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS INDICATED ON THE PLANS OTHERWISE.
- 3. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT/SOIL TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M252 FOR PIPES 4" TO 10" AND TO AASHTO M294 FOR PIPES 12" TO 60" AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT/SOIL TIGHT JOINT. PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 PVC OR SCHEDULE 40 UNLESS INDICATED OTHERWISE. HDPE PIPE JOINT GASKETS MUST BE PROVIDED AND CONFORM TO ASTM F477. DRAIN PIPE INSTALLED WITH OVER TEN (10) FEET OVER COVER AND/OR IN HIGH GROUNDWATER CONDITIONS SHALL BE SANITITE HP POLYPROPYLENE PIPE (PP), OR APPROVED EQUIVALENT.

### **MASSACHUSETTS UTILITY NOTES**

(Rev. 7/2024)

(Rev. 1/2023)

- THE CONTRACTOR'S PRICE FOR WATER AND SEWER SERVICE INSTALLATIONS MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES REQUIRED BY THE UTILITY PROVIDER (AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK) TO PROVIDE FULL AND COMPLETE WORKING SERVICE, INCLUDING (BUT NOT LIMITED TO) NECESSARY FEES, TESTING, DISINFECTING, INSPECTIONS, ROAD OPENING & BACKFILL REQUIREMENTS, TRAFFIC CONTROL AND SURETY BONDS AS DEFINED BY THE PROVIDER (AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK).
- 2. ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANY/ALL APPURTENANCES SHALL BE COORDINATED BY THE GC WITH THE LOCAL UTILITY COMPANIES PRIOR TO THE ORDERING OF ANY MATERIALS. THIS MAY INCLUDE BUT IS NOT LIMITED TO THE REMOVAL, INSTALLATION, RELOCATION OR PROTECTION OF ANY BRACING, GUY WIRES, OVERHEAD WIRES, ETC. AS MAY BE REQUIRED TO ACCOMMODATE THE PROJECT.
- 3. SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES MUST, AT A MINIMUM, BE IN SEPARATE TRENCHES WITH THE AT LEAST 18 INCHES OF VERTICAL SEPARATION FROM THE BOTTOM OF THE WATER MAIN TO THE TOP OF THE SEWER LINE. WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SANITARY SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SANITARY SEWER MUST BE PROVIDED. ALL CROSSINGS SHALL BE IN ACCORDANCE WITH JURISDICTIONAL PERMITTING/UTILITY AUTHORITIES REGULATIONS
- 4. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS OF INSTALLED UTILITIES AS APPROPRIATE, MARK UTILITY ENDS WITH MAGNETIC TRACER TAPE, MARK TERMINUS LOCATIONS WITH A 2X4 STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.
- ETC., MUST BE INSTALLED UNDERGROUND. ALL NEW UTILITY SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.

  6. SANITARY PIPE MUST BE POLYVINYL CHLORIDE (PVC) SDR 35 EXCEPT WHERE CLEARLY INDICATED OTHERWISE.

UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV,

- SANITARY PIPE MUST BE POLYVINYL CHLORIDE (PVC) SDR 35 EXCEPT WHERE CLEARLY INDICATED OTHERWISE.
   SANITARY LATERAL(S) MUST BE PVC SDR 26 UNLESS CLEARLY INDICATED OTHERWISE.
   UNLESS CLEARLY INDICATED OTHERWISE ALL SANITARY PIPE MUST BE:
- 7.1. FOR PIPES LESS THAN 12 FEET DEEP: POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM D3034.
- 7.2. FOR PIPES GREATER THAN 12 FEET DEEP: POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034.
   7.3. UNLESS LOCAL OR STATE BUILDING / PLUMBING CODE CLEARLY SPECIFIES DIFFERENTLY, SANITARY
- LATERALS MUST BE PVC SDR 26.

  7.4. FOR ALL UTILITY PIPING (INCLUDING DRAIN) WITHIN 10 FT OF A BUILDING, PIPE MATERIAL SHALL COMPLY
- WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES. CONTRACTOR SHALL REFER TO PLUMBING ENGINEERING PLANS AND VERIFY PIPE MATERIAL WITH LOCAL OFFICIAL PRIOR TO ORDERING OF MATERIALS.

  7.5. CONTRACTOR SHALL VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES (SUCH AS AN
- EXTERIOR GREASE INTERCEPTOR) OR OTHER DRAINAGE SYSTEMS WITH LOCAL OFFICIALS FOR COMPLIANCE WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES PRIOR TO ORDERING OF MATERIALS.

  8. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF
- THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.

  9. GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER.

  10. TRANSFORMERS AND SWITCH GEARS: GC SHALL PROVIDE ALL APPLICATIONS IN ACCORDANCE WITH LITHIUTY.
- 10. TRANSFORMERS AND SWITCH GEARS: GC SHALL PROVIDE ALL APPURTENANCES IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS AND CARRY SAME IN BASE BID. APPURTENANCES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONCRETE PAD, SECONDARY SPILL CONTAINMENT AREAS (IF REQUIRED), BOLLARD / VEHICULAR PROTECTION, AND OTHER ITEMS AS MAY BE REQUIRED BY THE UTILITY PROVIDER FOR INSTALLATION OF THE TRANSFORMER AND SWITCH GEAR (IF REQUIRED). GC SHALL COORDINATE ALL ASPECTS OF INSTALLATION WITH UTILITY PROVIDER PRIOR TO ORDERING OF MATERIALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN WRITING.



Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

### REVISIONS

REV         DATE         COMMENT         DRAWN BY CHECKED BY CHECKED BY CHECKED BY CHECKED BY           1         10/22/2024         REVISED PER CITY COMMENTS         CJP MMA           2         11/04/2024         REVISED PER CITY COMMENTS         CJP MMA           3         12/23/2024         REVISED PER CITY COMMENTS         CJP MMA				_
1 10/22/2024 COMMENTS MMA 2 11/04/2024 REVISED PER CITY COMMENTS MMA 3 12/23/2024 REVISED PER CITY CJP	REV	DATE	COMMENT	
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	3	12/23/2024	COMMENTS	MMA



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### ENTITLEMENT SET

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 PROJECT No.:
 MAA240136.00

 DRAWN BY:
 CJP

 CHECKED BY:
 MMA

 DATE:
 10/03/2024

 CAD I.D.:
 X-CIVL-TTLB

PROJECT:

### SITE DEVELOPMENT PLANS

PROPOSED

DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET WORCESTER COUNTY WORCESTER, MASSACHUSETTS

STORE:

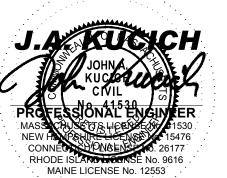
PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:

## BOHLER/

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

www.BohlerEngineering.com

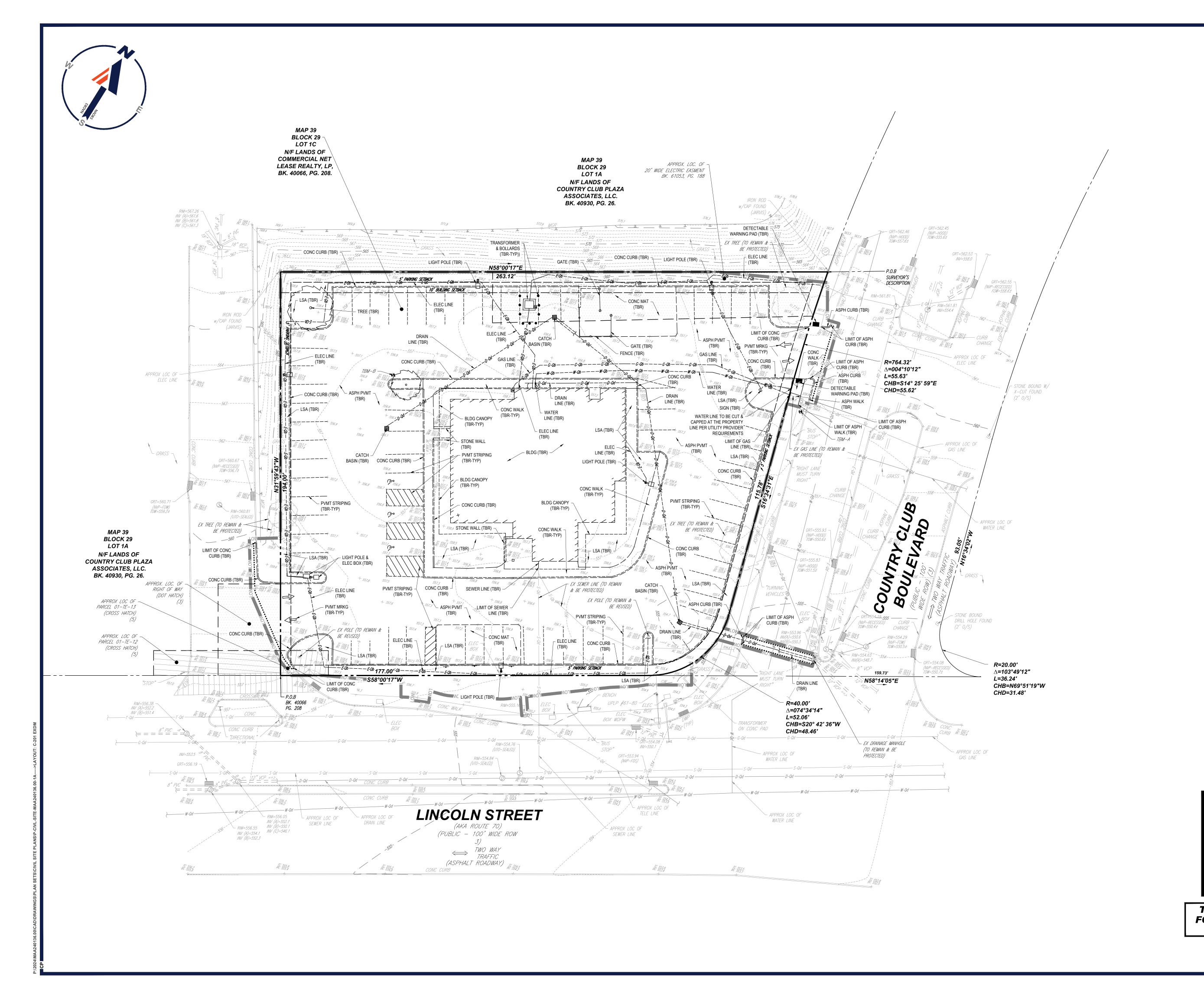


SHEET TITLE:

## JURISDICTIONAL NOTES

HEET NUMBER:

C-103





Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

### PROTOTYPE ISSUE DATE:

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	REV	DATE	COMMENT	DRAWN BY
	KEV	DATE	COMMENT	CHECKED BY
	1	10/22/2024	REVISED PER CITY	CJP
	ı	10/22/2024	COMMENTS	MMA
	2	11/04/2024	REVISED PER CITY	CSE
		11/04/2024	COMMENTS	MMA
	3	12/23/2024	REVISED PER CITY	CJP
	3	12/23/2024	COMMENTS	MMA
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### ENTITLEMENT SET

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ROJECT No.:	MAA240136.00
RAWN BY:	CJP
HECKED BY:	MMA

10/03/2024 X-CIVL-TTLB

DATE: CAD I.D.:

### SITE DEVELOPMENT PLANS

—— FOR —

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET WORCESTER COUNTY WORCESTER, MASSACHUSETTS

STORE:

PROTOTYPE 6-V-AV RESTAURANT #RC1233

REGIACIANI #RGIZ

## DESIGNER INFORMATION:

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772

Phone: (508) 480-9900

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EXISTING
CONDITIONS/
DEMOLITION
PLAN

SHEET NUMBER:

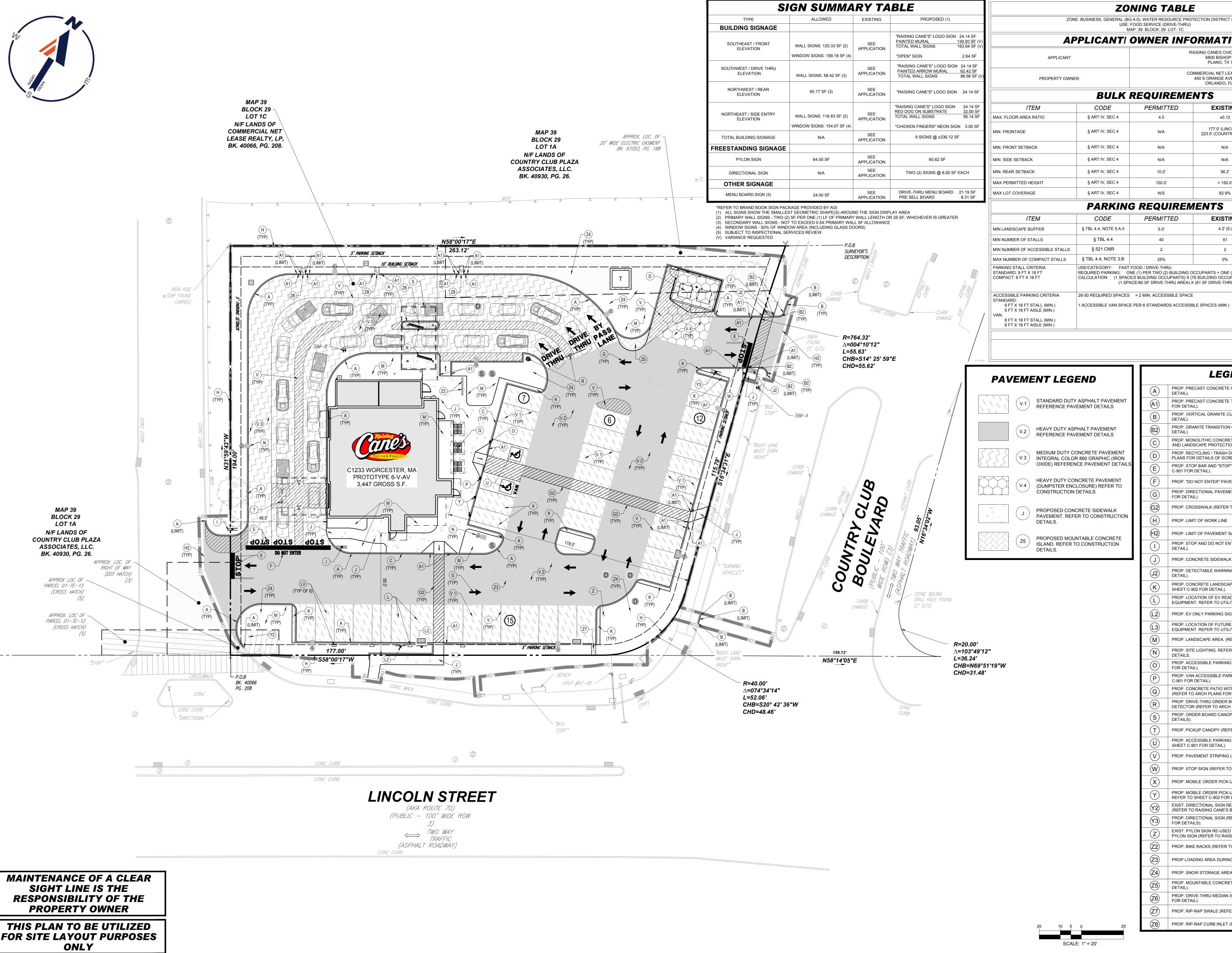
C-201

REVISION 3 - 12/23/2024

DEM	DEMOLITION		
ABBRE	VIATIONS		
ABBREVIATION	DESCRIPTION		
(TBA)	TO BE ABANDONED		
(TBR)	TO BE REMOVED		
(TBV)	TO BE VACATED		
(RELO)	TO BE RELOCATED		

THIS PLAN TO BE UTILIZED
FOR DEMOLITION PURPOSES
ONLY

SCALE: 1" = 20'



**ZONING TABLE** ZONE: BUSINESS, GENERAL (BG-4.0), WATER RESOURCE PROTECTION DISTRICT (GP-3) USE: FOOD SERVICE (DRIVE-THRU) MAP: 39 BLOCK: 29 LOT: 1C APPLICANTI OWNER INFORMATION RAISING CANES CHICKEN FINGERS 6800 BISHOP ROAD PLANO, TX 75024 COMMERCIAL NET LEASE REALTY, LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801

	BULK	REQUIREME	NTS	
ITEM	CODE	PERMITTED	EXISTING	PROPOSED
MAX. FLOOR AREA RATIO	§ ART IV, SEC 4	4.0	±0.12	±0.06
//IN. FRONTAGE	§ ART IV, SEC 4	N/A	177.0' (LINCOLN) 223.5' (COUNTRY CLUB)	NO CHANGE
MIN. FRONT SETBACK	§ ART IV, SEC 4	N/A	N/A	N/A
/IN. SIDE SETBACK	§ ART IV, SEC 4	N/A	N/A	N/A
//IN. REAR SETBACK	§ ART IV, SEC 4	10.0'	56.2'	63.5'
MAX PERMITTED HEIGHT	§ ART IV, SEC 4	150.0'	< 150.0'	< 150.0'
MAX LOT COVERAGE	§ ART IV, SEC 4	N/S	82.9%	76.4%

	PARKIN	G REQUIREM	IENTS	
ITEM	CODE	PERMITTED	EXISTING	PROPOSED
ANDSCAPE BUFFER	§ TBL 4.4, NOTE 5.A.II	5.0'	4.2' (E)	5.0'
UMBER OF STALLS	§ TBL 4.4	40	61	40
UMBER OF ACCESSIBLE STALLS	§ 521 CMR	2	2	2
NUMBER OF COMPACT STALLS	§ TBL 4.4, NOTE 3.B	25%	0%	30%

IN NUMBER OF ACCESSIBLE STALLS	3 02 1 OMIX	2	_	2
AX NUMBER OF COMPACT STALLS	§ TBL 4.4, NOTE 3.B	25%	0%	30%
ARKING STALL CRITERIA TANDARD: 9 FT X 18 FT OMPACT: 8 FT X 16 FT	REQUIRED PARKING: OCALCULATION: (1 SPAC	FOOD / DRIVE-THRU INE (1) PER TWO (2) BUILDING O E/2 BUILDING OCCUPANTS) X (7 ACE/60 SF DRIVE-THRU AREA) X	76 BUILDING OCCUPÁNTS) = 37 ( (81 SF DRIVE-THRU AREA) = <u>2</u>	7.5 SPACES
CCESSIBLE PARKING CRITERIA	26-50 REQUIRED SPACES	= 2 MIN. ACCESSIBLE SPACE		

KEY = SPECIAL PERMIT REQUIRE (E) - EXISTING NONCONFORMANCE (N/A) - NOT APPLICABLE

LEGEND PROP. PRECAST CONCRETE CURB (REFER TO SHEET C-901 FOR PROP. PRECAST CONCRETE TRANSITION CURB (REFER TO SHEET C-90 PROP. VERTICAL GRANITE CURB (REFER TO SHEET C-901 FOR PROP. MONOLITHIC CONCRETE CURB (REFER TO CONCRETE SIDEWALK AND LANDSCAPE PROTECTION STRIP DETAIL ON SHEET C-901). PROP RECYCLING / TRASH DUMPSTER LOCATION (REFER TO ARCH PLANS FOR DETAILS OF SCREENING GATES BOLLARDS AND FINISHES PROP. STOP BAR AND "STOP" PAVEMENT MARKING (REFER TO SHEET C-901 FOR DETAIL). PROP. "DO NOT ENTER" PAVEMENT MARKINGS PROP. DIRECTIONAL PAVEMENT MARKING (REFER TO SHEET C-903 PROP. CROSSWALK (REFER TO SHEET C-903 FOR DETAIL). PROP. LIMIT OF WORK LINE PROP. LIMIT OF PAVEMENT SAWCUT LINE PROP. STOP AND DO NOT ENTER SIGN (REFER TO SHEET C-901 FOR PROP. CONCRETE SIDEWALK (REFER TO SHEET C-901 FOR DETAIL).

> PROP. DETECTABLE WARNING PANEL (REFER TO SHEET C-903 FOR PROP. CONCRETE LANDSCAPE PROTECTION STRIP (REFER TO SHEET C-902 FOR DETAIL). PROP. LOCATION OF EV READY PARKING SPACE AND ASSOCIATED EQUIPMENT. REFER TO UTILITY PLAN (SHEET C-501). PROP. EV ONLY PARKING SIGN (REFER TO SHEET C-901 FOR DETAIL). PROP. LOCATION OF FUTURE EV PARKING SPACE AND ASSOCIATED EQUIPMENT. REFER TO UTILITY PLAN (SHEET C-501).

PROP. LANDSCAPE AREA. (REFER TO SHEET L-101 FOR DETAILS). PROP. SITE LIGHTING. REFER TO LIGHTING PLANS BY OTHERS FOR DETAILS. PROP. ACCESSIBLE PARKING SIGN IN BOLLARD (REFER TO SHEET C-9 FOR DETAIL).

PROP. VAN ACCESSIBLE PARKING SIGN IN BOLLARD (REFER TO SHEE C-901 FOR DETAIL). PROP. CONCRETE PATIO WITH CANOPY AND OUTDOOR SEATING (REFER TO ARCH PLANS FOR DETAILS). PROP. DRIVE-THRU ORDER BOARD, PRE-ORDER OR HEIGHT

DETECTOR (REFER TO ARCH PLANS FOR DETAILS). PROP. ORDER BOARD CANOPY (REFER TO ARCH PLANS FOR PROP. PICKUP CANOPY (REFER TO ARCH PLANS FOR DETAILS).

PROP. ACCESSIBLE PARKING SPACES AND STRIPING (REFER TO SHEET C-901 FOR DETAIL). PROP. PAVEMENT STRIPING (REFER TO ARCH PLANS FOR DETAILS).

PROP. STOP SIGN (REFER TO SHEET C-901 FOR DETAIL). PROP. MOBILE ORDER PICK-UP PARKING SPACES (TYP. OF 2) PROP. MOBILE ORDER PICK-UP SIGNS IN BOLLARD (TYP. OF 2).

EXIST. DIRECTIONAL SIGN RE-USED FOR PROP. DIRECTIONAL SIGN (REFER TO RAISING CANE'S BRAND BOOK FOR DETAILS). PROP. DIRECTIONAL SIGN (REFER TO RAISING CANE'S BRAND BOOK EXIST, PYLON SIGN RE-USED FOR PROP, INTERNALLY ILLUMINATED PYLON SIGN (REFER TO RAISING CANE'S BRAND BOOK FOR DETAILS).

PROP. BIKE RACKS (REFER TO SHEET C-905 FOR DETAIL).

PROP LOADING AREA DURING OFF BUSINESS HOURS

REFER TO SHEET C-902 FOR DETAIL.

PROP. SNOW STORAGE AREA PROP. MOUNTABLE CONCRETE ISLAND (REFER TO SHEET C-905 FOR

FOR DETAIL). PROP. RIP-RAP SWALE (REFER TO SHEET C-903 FOR DETAIL).

PROP. DRIVE-THRU MEDIAN ISLAND PAVERS (REFER TO SHEET C-903

PROP. RIP-RAP CURB INLET (REFER TO SHEET C-905 FOR DETAIL)



Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

**REVISIONS** 

v	DATE	COMMENT	DRAWN BY
. V	DATE	COMINIEM	CHECKED BY
	10/22/2024	REVISED PER CITY	CJP
	10/22/2024	COMMENTS	MMA
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•	11/04/2024	COMMENTS	MMA
ł	12/23/2024	REVISED PER CITY	CJP
	12/23/2024	COMMENTS	MMA



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PROJECT:

SITE DEVELOPMENT **PLANS** 

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C **494 LINCOLN STREET WORCESTER COUNTY** WORCESTER, MASSACHUSETTS

**DESIGNER INFORMATION:** 

PROTOTYPE 6-V-AV **RESTAURANT #RC1233** 

352 TURNPIKE ROAD, 3rd FLOOR **SOUTHBOROUGH, MA 01772** Phone: (508) 480-9900

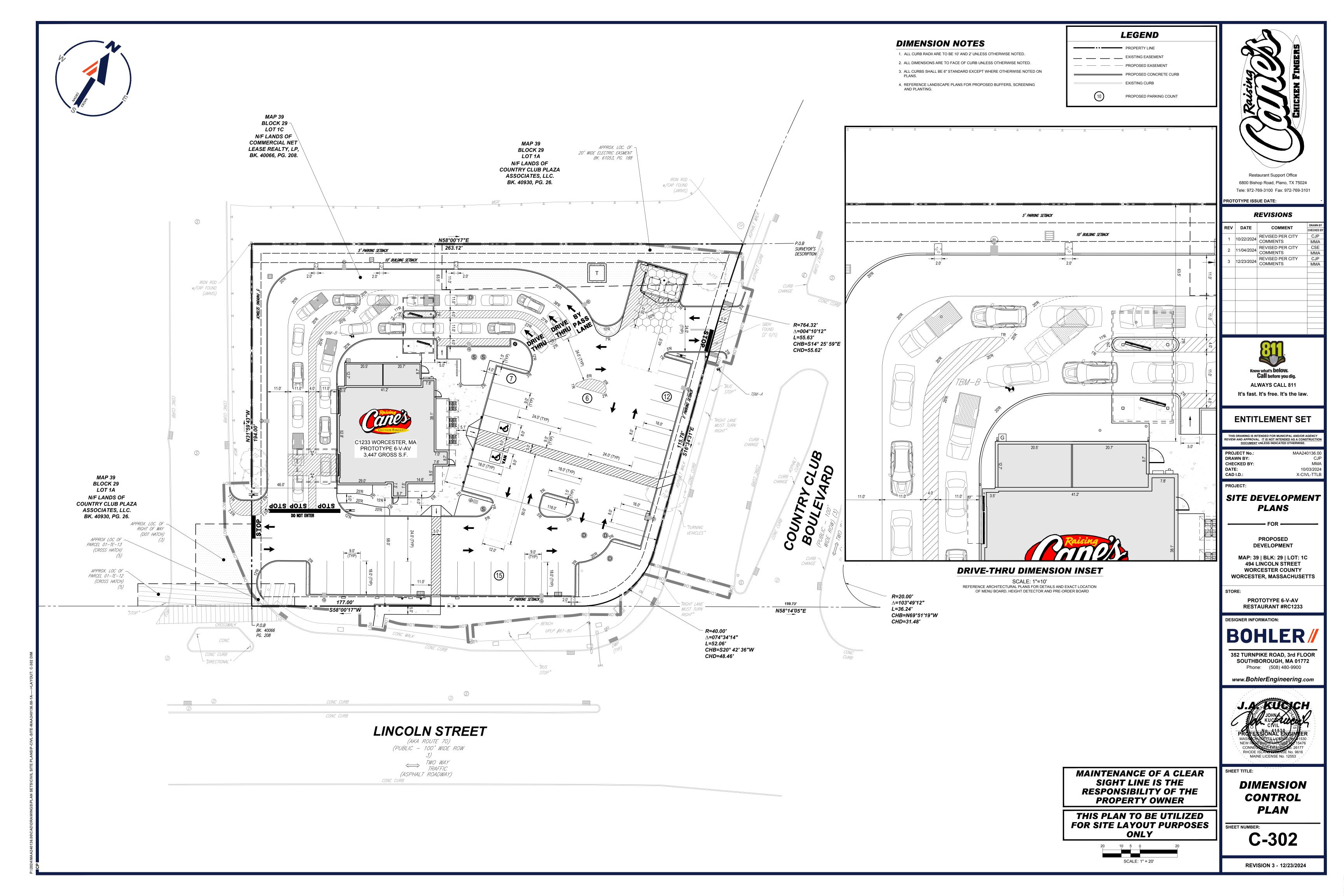
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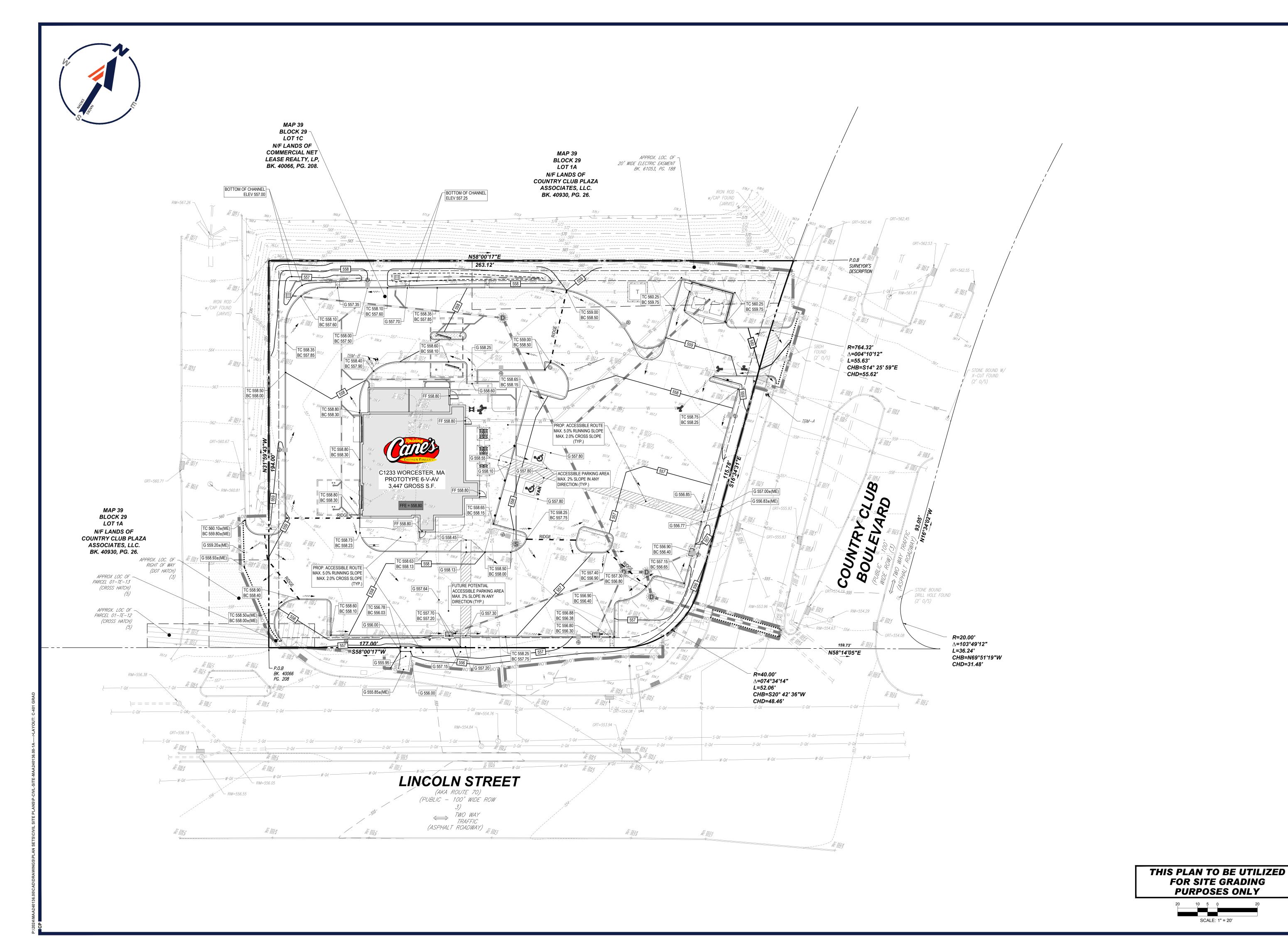


SHEET TITLE:

SITE

C-301







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### PROTOTYPE ISSUE DATE:

REVISIONS
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1 10/22/2024 COMMENTS MMA 2 11/04/2024 REVISED PER CITY COMMENTS MMA 3 12/23/2024 REVISED PER CITY CJP	REV	DATE	COMMENT	DRAWN BY CHECKED BY
2 11/04/2024 REVISED PER CITY COMMENTS MMA COMMENTS CSE COMMENTS MMA COMMENTS CSE CSE COMMENTS CSE	1	10/22/2024		CJP
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3 12/23/2024 REVISED PER CITY CJP	2	11/04/2024		
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COMMENTS	3	12/23/2024		
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DATE: CAD I.D.:

CHECKED BY:

SITE DEVELOPMENT

**PLANS** 

PROPOSED

DEVELOPMENT

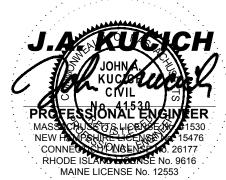
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PROTOTYPE 6-V-AV **RESTAURANT #RC1233** 

**DESIGNER INFORMATION:** 

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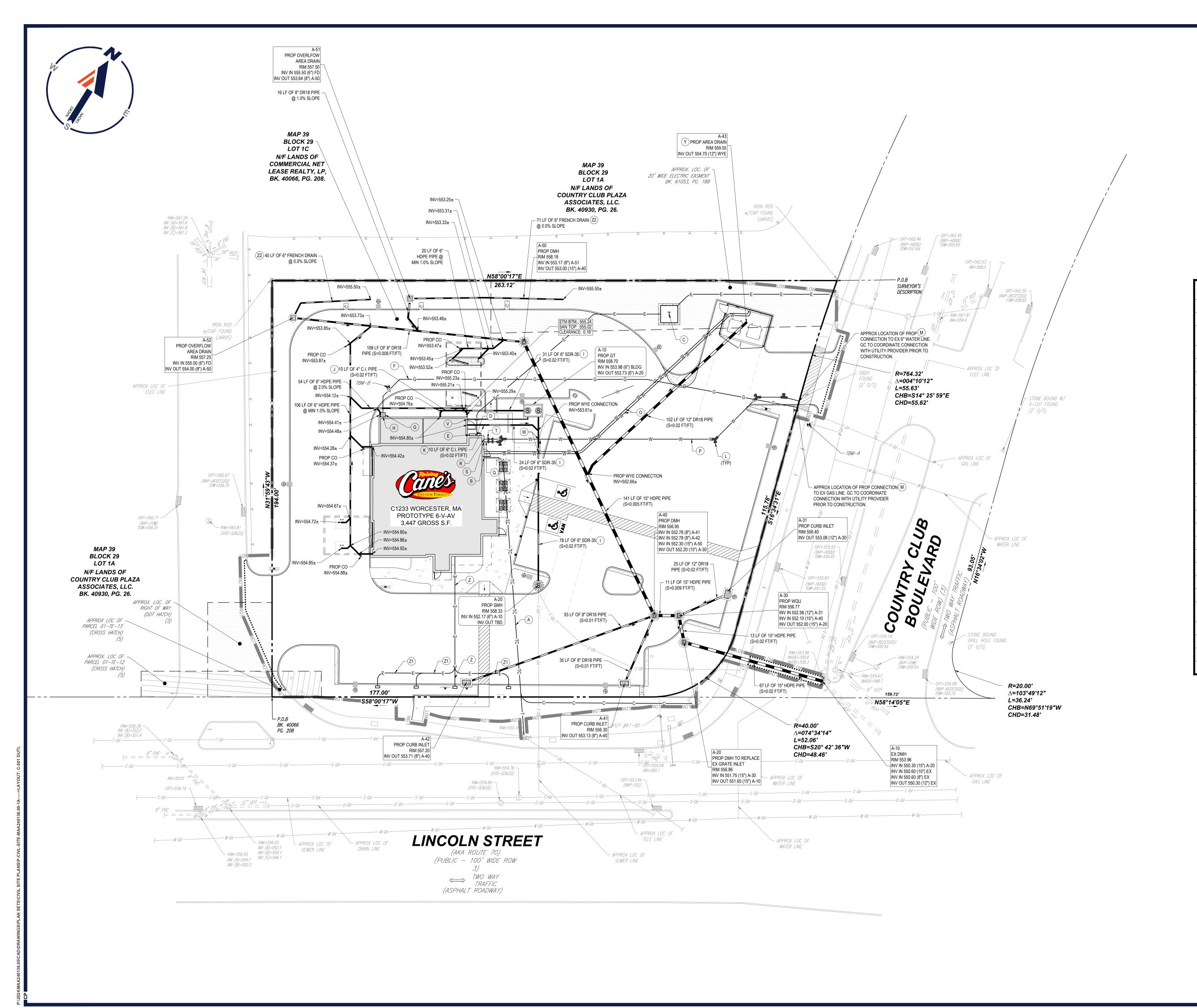
SHEET TITLE:

**GRADING** PLAN

FOR SITE GRADING **PURPOSES ONLY** 

SCALE: 1" = 20'

C-401



LEGEI	<b>VD</b>
PROPOSI	ED
UTILITY POLE	
SANITARY LATERAL	
SANITARY MAIN	S
WATER LINE	W
ELECTRIC LINE	——Е——
GAS LINE	G
OVERHEAD WIRE	——ОН——
STORM SEWER	
HYDRANT	~
SANITARY MANHOLE	
STORM MANHOLE	
WATER VALVE	M
WATER METER	⊗WM
GAS VALVE	$\square_{GV}$
TYPICAL END SECTION	
ENDWALL	$\smile$
GRATE INLET	
CURB INLET	
CLEANOUT	•

		1	10/22/2024	COMMENTS	MM
U	TILITY KEYNOTE LEGEND	2	11/04/2024	REVISED PER CITY COMMENTS	CS MM
A	INSTALL 4" PVC CONDUIT FOR TELEPHONE AND 3" PVC CONDUIT FOR INTERNET.	3	12/23/2024	REVISED PER CITY COMMENTS	CJI
В	PROP. TELEPHONE AND INTERNET ENTRY. REFERENCE ARCHITECTURAL PLANS FOR CONTINUATION.	-			
С	PROP. TRANSFORMER MOUNTED ON CONCRETE PAD. GC TO COORDINATE BOLLARD PROTECTION AND INSTALLATION WITH UTILITY PROVIDER. REFERENCE TO MEP PLANS FOR CONTINUATION.	$\vdash$			
D	PROP. ELECTRIC SERVICE ENTRY WITH METER. REFERENCE ARCHITECTURAL / MEP PLANS FOR CONTINUATION.				
E	PROP. ELECTRIC SWITCHGEAR. REFERENCE ARCHITECTURAL / MEP PLANS.				
F	PROP. GAS SERVICE LINE. REFER TO MEP FOR SIZE.				
G	APPROX. LOCATION OF PROP. GAS METER. REFER TO MEP PLANS FOR CONTINUATION.			<b>6</b> 222	
H	PROP. GAS ENTRY. REFERENCE PLUMBING PLANS FOR CONTINUATION.			811.	
	PROP. 6" SDR-35 SANITARY SEWER PIPE				
J	PROP. 4" CAST IRON PIPE FOR FIRST 10' FROM BUILDING			w what's <b>below.</b> <b>Call</b> before you dig.	
K	PROP. 6" CAST IRON PIPE FOR FIRST 10' FROM BUILDING		AL	WAYS CALL 811	
L	PROP. THRUST BLOCK. REFER TO SHEET C-903 FOR DETAIL.		It's fast.	It's free. It's the lav	V.
M	APPROX. LOCATION OF EXISTING 6" WATER SERVICE. FINAL LOCATION TO BE CONFIRMED PRIOR TO CONSTRUCTION. GC TO COORDINATE WITH UTILITY PROVIDER.	Н	ENTIT	LEMENT SE	т
0	TWO (2) PROP. 1" COPPER DOMESTIC WATER LINES (HOT & COLD) CONNECTING TO TRASH ENCLOSURE			LLWILINI 3L	- '
P	PROP. 6" DIA. CLDI WATER SERVICE.		W AND APPROVA	TENDED FOR MUNICIPAL AND/OR L. IT IS NOT INTENDED AS A CON UNLESS INDICATED OTHERWISE	ISTRUCTI
Q	PROP. 2" DIA. TYPE K COPPER WATER SERVICE	PRO	JECT No.:		40136.
R	PROP. 6" WATER ENTRY WITH CURB STOP. REFERENCE MEP PLANS FOR CONTINUATION.	DRA	WN BY: CKED BY:		C.
S	PROP. 2" DOMESTIC WATER ENTRY WITH CURB STOP. REFERENCE MEP PLANS FOR CONTINUATION.	DA1 CAI	E: ) I.D.:		0/03/20: IVL-TTI
T	PROP. WATER SHUT-OFF VALVE	PRO	JECT:		
U	PROP. FIRE DEPARTMENT WATER SERVICE CONNECTION. REFERENCE MEP PLANS FOR CONTINUATION.	s	ITE D	EVELOPMI	EN 7
V	APPROX. LOCATION OF 3" VENT LINE TO GREASE TRAP. REFERENCE MEP PLANS FOR CONTINUATION.			PLANS	
W	PROP. CONCRETE ENCASEMENT. REFER TO SHEET C-903 FOR DETAIL.			505	
x	APPROX. LOCATION OF EXISTING GAS SERVICE. FINAL LOCATION TO BE CONFIRMED PRIOR TO CONSTRUCTION. GC TO COORDINATE WITH UTILITY PROVIDER.			PROPOSED	
Y	PROP. AREA DRAIN. REFERENCE ARCHITECTURAL / MEP PLANS.		D	EVELOPMENT	
Z	PROP. ELECTRIC SERVICE FOR EV CHARGING STATIONS. REFERENCE MEP PLANS FOR CONTINUATION.			9   BLK: 29   LOT: 1	С
(Z1)	PROP. FUTURE ELECTRIC SERVICE FOR EV CHARGING STATIONS. REFERENCE MEP PLANS FOR CONTINUATION.		WOR	INCOLN STREET CESTER COUNTY	
<b>(Z2)</b>	PROP. FRENCH DRAIN. REFER TO SHEET C-905 FOR DETAIL.	\	VORCEST	ER, MASSACHUSE	TTS

**CONTRACTOR TO VERIFY EXISTING SEWER ELEVATIONS AND UTILITY CONNECTIONS WITHIN 30** DAYS OF GROUNDBREAKING

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY





Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

### **REVISIONS**

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### SITE DEVELOPMENT **PLANS**

STORE:

PROTOTYPE 6-V-AV **RESTAURANT #RC1233** 

**DESIGNER INFORMATION:** 

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

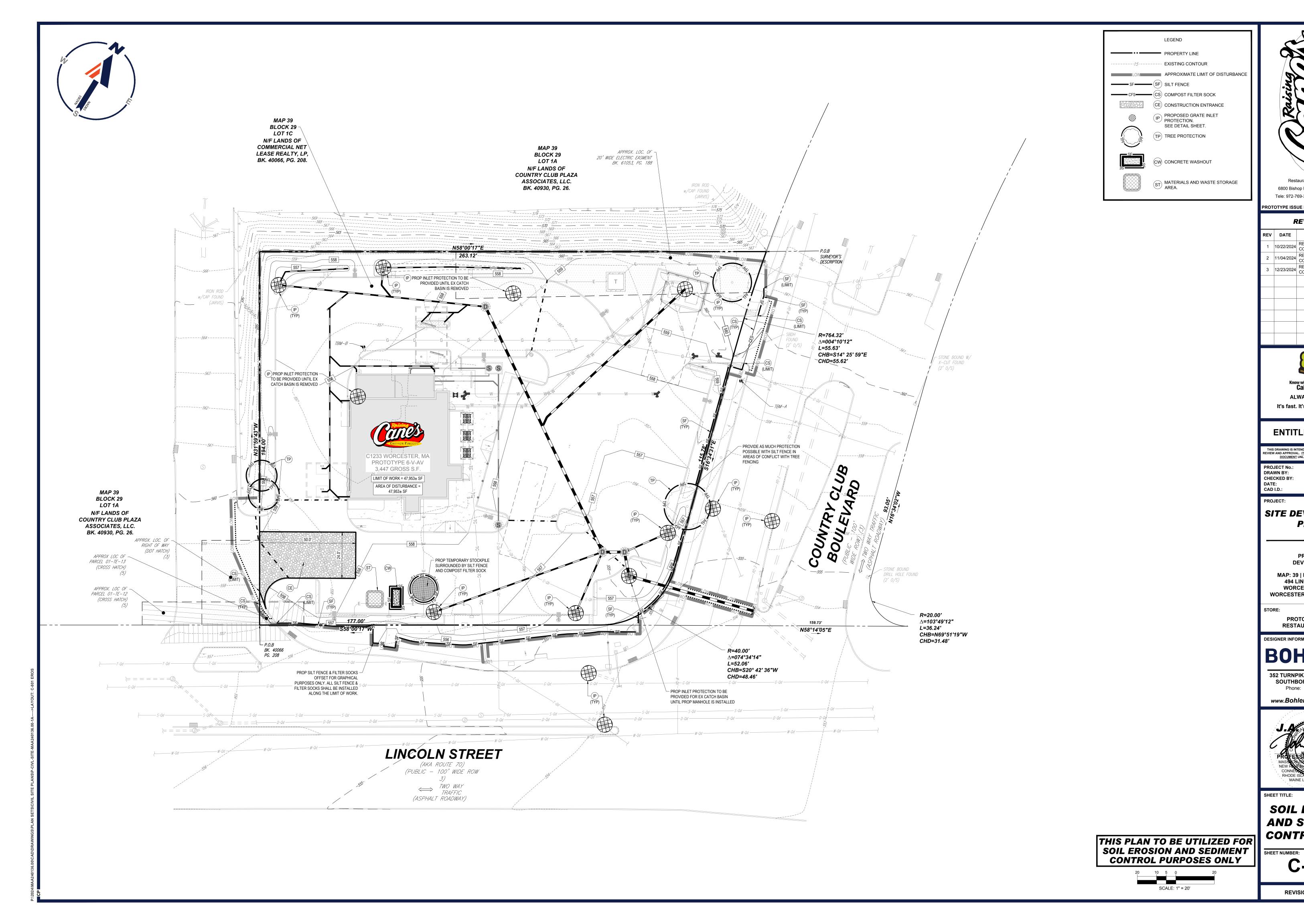
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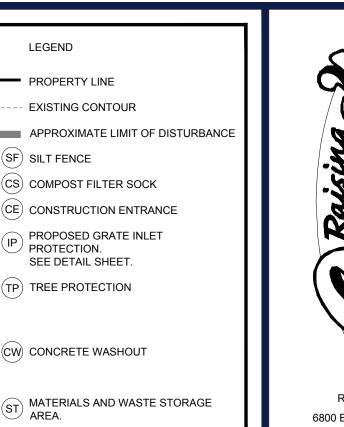


SHEET TITLE:

**UTILITY** & DRAINAGE PLAN

C-501





Restaurant Support Office

6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

### **REVISIONS**

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IVE	DAIL	COMMENT	CHECKED BY
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DATE: CAD I.D.:

## SITE DEVELOPMENT **PLANS**

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET **WORCESTER COUNTY** WORCESTER, MASSACHUSETTS

PROTOTYPE 6-V-AV RESTAURANT #RC1233

**DESIGNER INFORMATION:** 

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

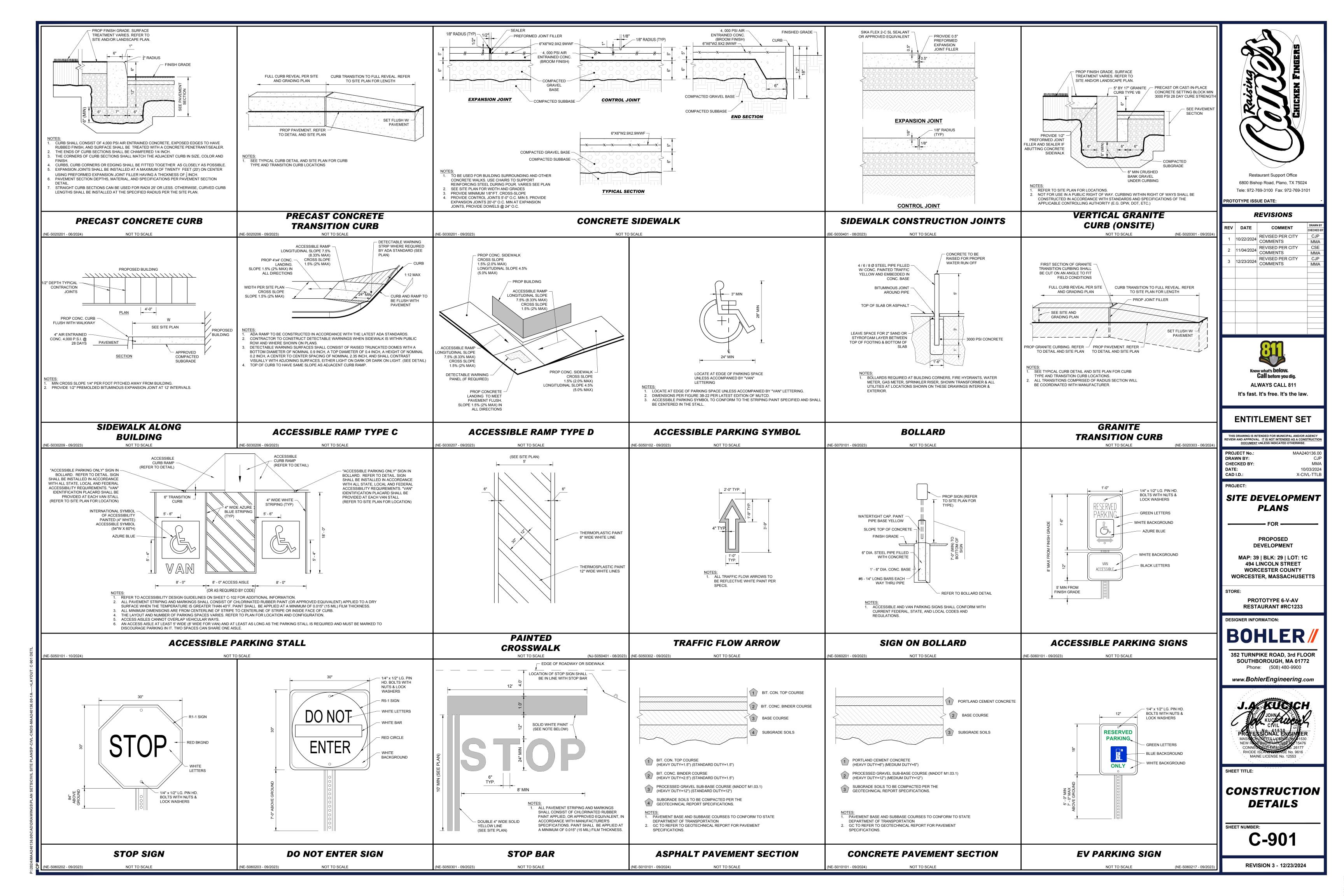
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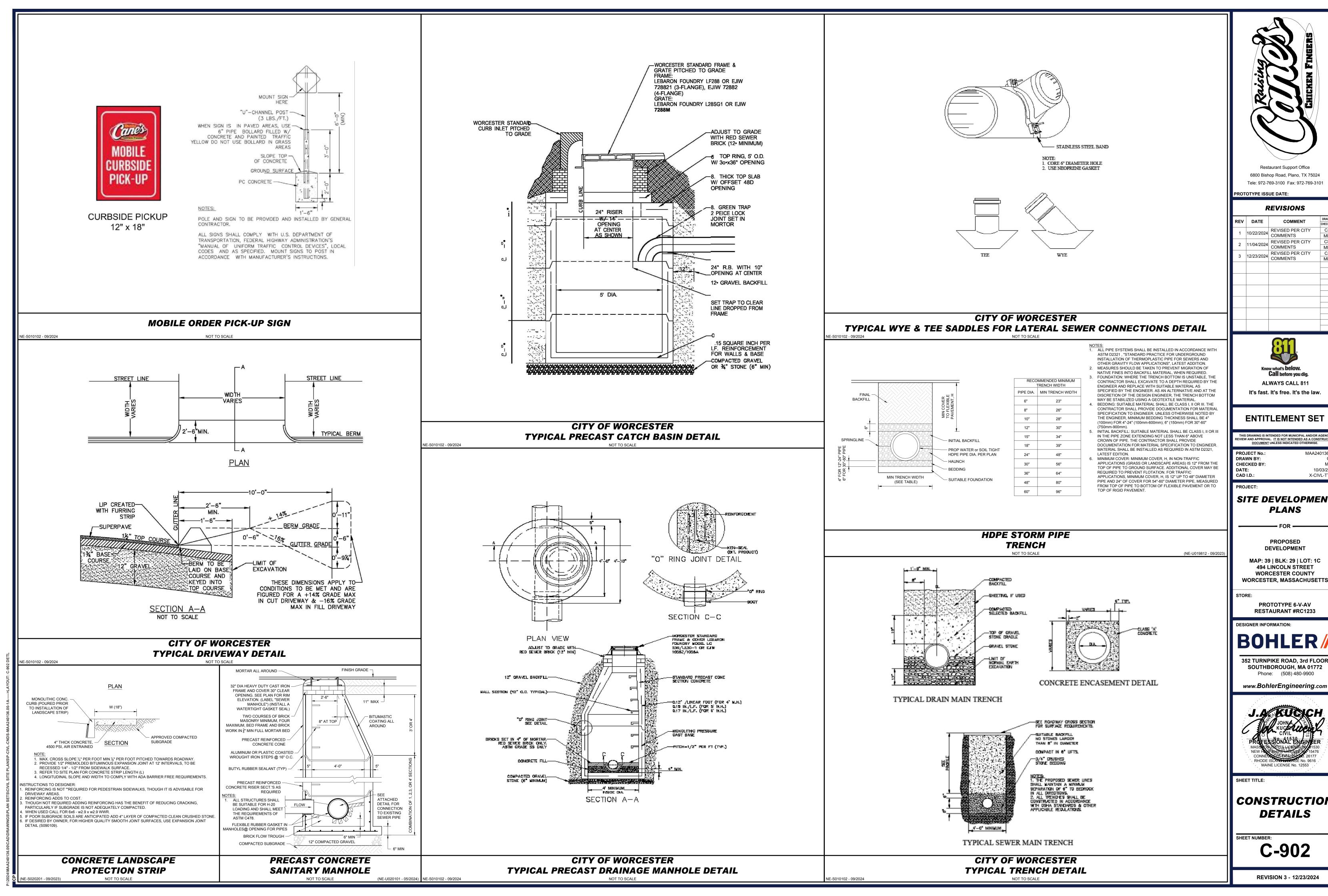


**SOIL EROSION AND SEDIMENT CONTROL PLAN** 

C-801

### MASSACHUSETTS EROSION AND SEDIMENT CONTROL NOTES GENERAL EROSION AND SEDIMENT CONTROL NOTES BINDING WIRE - EXISTING GROUND 2 PER BALE) PLYWOOD 48" X -SEE CHART 1 ROWLENGTH OF STONE REQUIRED - 10 MIL PLASTIC STRAW RALE ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERA WHITE (SEE NOTE 6) NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES. IN THEIR ENTIRETY, THE 0 TO 2% CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES **SECTION A-A** WOOD OR METAL CONCRETE THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM 2% TO 5% STAKES (2 PER BALE) WASHOU FROSION CONTROL MEASURES MUST CONFORM TO THE STATE LOCAL AND FEDERAL GUIDELINES FOR URBAN FROSION AND SEDIMENT CONTROL TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE ( - NATIVE MATERIAI UNIESS OTHERWISE NOTED, OR UNIESS THE PROFESSIONAL OF RECORD CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE, INSTALLATION MINIMUM AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLILITION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES (1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY. PREVENTION PLAN (SWPPP) OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL BLACK -- 0.5" LAG SCREWS GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 CHART 1 STEEL WIRE . THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY XXX.XX ACRES FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD PROVIDE APPROPRIATE TRANSITION 2-1/2" CLEAN STONE -4. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE BETWEEN STABILIZED CONSTRUCTION STAPLE DETAIL a) STABILIZED CONSTRUCTION ENTRANCE/EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED ENTRANCE AND PUBLIC R.O.W. - WOOD **PROFILE** SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE. TEMPORARY CONCRETE WASHOUT FACILITIES CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES b) SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS. c) INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE ONCE CONCRETE WASTES ARE WASHED INTO **CONCRETE WASHOUT SIGN** INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS THE DESIGNATED AREA AND ALLOWED TO **DETAIL (OR EQUIVALENT)** INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5. HARDEN. THE CONCRETE SHOULD BE BROKEN ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED. REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY UP\_REMOVED\_AND DISPOSED OF OFF-SITE INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS CONTRACTOR TO DISPOSE OF HARDENED FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR CONCRETE ON A REGULAR BASIS. THE CONTRACTOR MUST INSPECT FROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE CONCRETE WASHOUT SIGN SHALL BE DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE INCHES OR HALF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND INSTALLED WITHIN 30 FT. OF THE TEMPORARY - PUBLIC 10' STAKE (TYP) -AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL RIGHT OF CONCRETE WASHOUT FACILITY. DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION. THE DEVICES SHALL REMAIN IN PLACE PLASTIC LINING MATERIAL SHOULD BE A THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MUICH TO ALL DISTURRED AREAS THAT WILL NOT RE RROUGHT TO FINISHED GRADE AND GROUND AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS. VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON. THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER. IMPERMEABILITY OF THE MATERIAL 8. THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE PROFESSIONAL OF RECORD SO REQUIRES, TO PREVENT ANY, WASHOUT FACILITIES MUST BE CLEANED, OR INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE. Restaurant Support Office IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY NEW FACILITIES MUST BE CONSTRUCTED AND STRAW BALE (TYP) MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT 9. THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT READY FOR USE ONCE THE WASHOUT IS 75% 6800 Bishop Road, Plano, TX 75024 PAVING AND TURE/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE FROSION CONTROL MEASURES MUST BE PLAN VIEW STRAW BALE AND STAPLES MAY BE Tele: 972-769-3100 Fax: 972-769-3101 INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE SUBSTITUTED WITH ALTERNATE SECURING 10. THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL FROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS. MEASURES SUCH AS CONCRETE BLOCK. PLAN PROTOTYPE ISSUE DATE: ESTABLISHMENT OF VEGETATION. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, 11. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER REVISIONS INSTALLING A DIFFERENT. SPECIFIED METHOD OF STABILIZATION CONCRETE WASTE REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED STABILIZED CONSTRUCTION ENTRANCE 12. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES. MEASURES AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS: MANAGEMENT AREA AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE COMMENT REV DATE ) SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED CODES AND STANDARDS AND/OR TO PREVENT ANY INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE TO A UNIFORM SURFACE REVISED PER CITY 10/22/2024 COMMENTS 13. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLAN(S APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR AREA OF SITE CONSTRUCTION 2 RE-BARS STEEL PICKETS OR 2"x -FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS WOOD OR PLASTIC SLAT STAPLED-WHERE TIMING IS CRITICAL. FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1.000 SF USING 10-20-20 REVISED PER CITY 2" STAKE 1 1/2' TO 2' IN GROUND 2 |11/04/2024 | OR EQUIVALENT, APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER 14. THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION DRIVE STAKES FLUSH WITH BALES COMMENTS ACRE (138 LB PER 1.000 SF) 15 THE CONTRACTOR MUIST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFE-SITE AS THE REVISED PER CITY 12/23/2024 COMMENTS FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE. **DETAIL OF POST ATTACHMENT** ANGLE FIRST STAKE TOWARDS JURISDICTIONAL AGENCY REQUIRES. BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT AREA WITHIN PROTECTION ZONE/TREE 5% REDTOP, AND 48% TALL FESCUE, THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURE MIXTURE OF 44% KENTLICKY PREVIOUSLY LAID BALE DRIP LINE FENCE TO FOLLOW TREE DRO 16. SOIL FROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO BLUE-GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS: SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. LINE OR 6' FROM TRUNK, WHICHEVER IS MAINTAIN THE COMPLETE FEFECTIVENESS OF ALL CONTROL MEASURES QUALITY SOD MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOD ON SLOPES STEEPER THAN 3:1 SHOULD -SILT FENCE (3' WIDE 17. THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND AN STRAW MULCH AT THE RATE OF 70-90 LBS PER 1.000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED. FOLLOWING SEEDING, A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL. 4' WOOD & WIRE SNOW BOUND BALES PLACED -ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED FENCE WITH STEEL STAKE 18" ON CONTOUR MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS. INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN) INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN) 2" MAX WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION ROCKY INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN SOIL.) • DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN) DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN) 13. $\,$ ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS. WOOD & WIRE SNOW FENCE USED AS CLEARING AND GRUBBING TREE GUARD TO PREVENT DAMAGE FROM NATIVE SOIL 14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES CONSTRUCTION EQUIPMENT INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED: -BACKFILL EARTHWORK AND EXCAVATION/FILLING AS NECESSARY CONSTRUCTION OF UTILITIES TOE-IN METHODS TREE DRIP LINE/TREE PROTECTION ZONE PERSPECTIVE OF FENCE STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING LOCATION MULCH RATE (1000 SF BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN) STRAW 100 POUNDS PROTECTED AREA ENDS TIGHTLY ABUTTING THE ADJACENT BALES. CONSTRUCTION OF BUILDINGS AREA WITHIN TREE PROTECTION ZONE T EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS WINDY AREA SHREDDED OR CHOPPED CORNSTALKS 185-275 POUNDS REMAIN UNDISTURBED DURING BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH **Call** before you dig EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE. CONSTRUCTION THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE STRAW (ANCHORED)\* 100 POUNDS FINAL GRADING OF ALL SLOPED AREAS UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE **ALWAYS CALL 811** PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION) DRIVEN FLUSH WITH THE BALE. 4' WOOD & WIRE SNOW FENCE DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH MODERATE TO HIGH JUTE MESH OR EXCELSIOR MAT AS REQUIRED AS REQUIRED INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED WITH STEEL STAKES 18' O.C It's fast. It's free. It's the law. BOTTOM REMOVAL OF THE TEMPORARY SEDIMENT BASINS DRAINAGE AREA NO MORE THAN \$\frac{1}{4}\$ AC. PER 100 FEEL OF STRAW BALE DIKE FOR SLOPES LESS VELOCITY AREAS OR LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, PAVE PARKING LOT STEEP SLOPES GREATER BACKFILL ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK LANDSCAPING PER LANDSCAPING PLAN PILING & TAMPING FILL AT THE BASE. OR IMPEDE STORM FLOW OR DRAINAGE. • REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER **ENTITLEMENT SET** (REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT) GREATER THAN 3:1 TREE PROTECTION DURING \* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL STRAW BALE BARRIER SILT FENCE BE USED TO ADDITIONAL WIND CONTROL SITE CONSTRUCTION THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC EVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUC \* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD DOCUMENT UNLESS INDICATED OTHERWISE E-O030201 - 09/2023) NE-O030302 - 09/2023) CELLULOSE FIBER (750 LBS/ACRE): CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS): USE OF A SERRATED STRAIGHT - COMPOST FILTER SOCK (SEE PLAN FOR SIZE PROJECT No.: DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED PAVEMENT OR DRAWN BY: IMPERVIOUS SURFACE PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP - CONCRETE BLOCKS OR SAND FEDERAL REQUIREMENTS. CAD I.D. X-CIVL-TTLE TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT PROTECTED CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF TRIBUTARY AREA PROJECT: WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES, MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT SITE DEVELOPMENT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED - 2" X 2" X 36" WOODEN STAKES PLACED 10' O.C. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIM AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS. FERTILIZER, AND SEED **PLANS** BLOWN/PLACED - COMPOSITE FILTER SOCK (SEE PLAN FOR SIZE) STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH FILTER MEDIA ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE AREA TO BE PROTECTED TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES CONCRETE BLOCKS OR SAND APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCI WORK AREA 7. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED. BAGS SIZED AS NEEDED (10' O.C.) AFTER STAPLING APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS, IT IS THE A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE PROPOSED CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE **DEVELOPMENT** 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL AREA TO BE UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. **PROTECTED** FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MAP: 39 | BLK: 29 | LOT: 1C THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT MANUFACTURES RECOMMENDATION CONSTRUCTION WASTE IS READY FOR OFE-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE **494 LINCOLN STREET** COMPOST FILTER SOCK WATER FLOW SECTION PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE (SEE PLAN FOR SIZE) **WORCESTER COUNTY** INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET. PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES. WORCESTER, MASSACHUSETTS CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, 20. EROSION CONTROL NOTES DURING WINTER CONSTRUCTION WORK AREA APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. 21. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15. ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS 6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE STORE: COMPOST FILTER SOCK FILL TO MEET APPLICATION 22. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE 7. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE PROTOTYPE 6-V-AV MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT NECESSARY TO PROPERLY SECURE THE BLANKETS. . COMPOST MATERIAL TO BE DISPERSED ON SITE AT RESTAURANT #RC1233 ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOF COMPLETION OF CONSTRUCTION OR AS DIRECTED BY OWNER ALL MATERIAL TO MEET MANUFACTURER SPECIFICATIONS. AFTER STABILIZATION IS ACHIEVED. 23. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE FILTER MEDIA TO MEET APPLICATION REQUIREMENTS. **DESIGNER INFORMATION:** AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION FILTER MEDIA TO BE DISPERSED ON SITE AT COMPLETION OF OR APPROVED CONSTRUCTION AFTER STABILIZATION IS ACHIEVED. AS **EQUIVALENT EQUIVALENT** DETERMINED BY ENGINEER IN OWNER AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED **COMPOST FILTER SOCK** WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, **COMPOST FILTER SOCK EROSION CONTROL BLANKET STEEP SLOPE PROTECTION** MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE IN PAVED CONDITION FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF 352 TURNPIKE ROAD, 3rd FLOOR NOT TO SCALE NOT TO SCALE (NF-O040201 - 09/2023) NOT TO SCALE NF-0049901 - 09/2023) (NF-O040202 - 09/2023) NOVEMBER 1ST AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, SOUTHBOROUGH, MA 01772 SECURE LIFTING LOOPS TO OR UNDER SURFACE THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN Phone: (508) 480-9900 MULCHED AS APPLICABLE SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FINISHED GRADE -FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO www.BohlerEngineering.com BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT 2" X 2" X 3/4" BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS. RUBBER BLOCK MULCHING REQUIREMENTS: 1/4" BRIGHTLY a) BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING COLORED NYLON ROPE EXPANSION RESTRAIN b) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%. **SECTION VIEW** ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN. PROFILE VIEW OF INSTALLED FILTER SACK 28. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO LOOPS SIZED FOR 1" APPARENT OPENING SIZE REBAR, LIFT FILET BAG FROM INLET USING MAINE LICENSE No. 12553 REBAR FOR HANDLES OVERFLOW HOLES -GEOTEXTILE BAG -CONSTRUCT SILT FENCE AND MIN 6" -**EROSION AND** 1/4" BRIGHTI Y COLORED -TRAPEZOID TEAR COMPOST FILTER SOCK AROUND NYLON ROPE EXPANSION RESTRAINT SEDIMENT LOOPS SIZED FOR 1" REBAR LISE -**CONTROL** REBAR FOR HANDLE TO EMPTY FILTER SACK AT A SEDIMENT COLLECTION LOCATION. **NOTES AND** REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN **DETAILS** HE SPECIFICATIONS TABLE. PLACE AN OIL ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN. INSPECT PER REGULATORY REQUIREMENTS. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INI FT ROX THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES. OR APPROVED THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX. **EQUIVALENT** TEMPORARY STOCK PILE WITH INLET PROTECTION WITH MANUFACTURED INSERT SILT FENCE AND FILTER SOCK **REVISION 3 - 12/23/2024** (NE-O050101 - 09/2023)





Restaurant Support Office 6800 Bishop Road, Plano, TX 75024

PROTOTYPE ISSUE DATE:

### **REVISIONS**

,	DATE	COMMENT	DRAWN BY			
_			CHECKED BY			
	10/22/2024	REVISED PER CITY	CJP			
	10/22/2024	COMMENTS	MMA			
	11/04/2024	REVISED PER CITY	CSE			
		COMMENTS	MMA			
	12/23/2024	REVISED PER CITY	CJP			
		COMMENTS	MMA			

Call before you dig **ALWAYS CALL 811** 

### **ENTITLEMENT SET**

THIS DRAWING IS INTENDED FOR M REVIEW AND APPROVAL. IT IS NOT IN DOCUMENT UNLESS INDIC	TENDED AS A CONSTRUCTION
PROJECT No.:	MAA240136.00
DRAWN BY: CHECKED BY:	CJP MMA

SITE DEVELOPMENT **PLANS** 

X-CIVL-TTLB

PROPOSED

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET **WORCESTER COUNTY** 

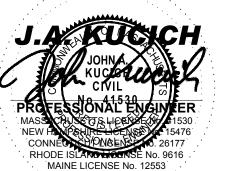
PROTOTYPE 6-V-AV

**RESTAURANT #RC1233** 

**DESIGNER INFORMATION:** 

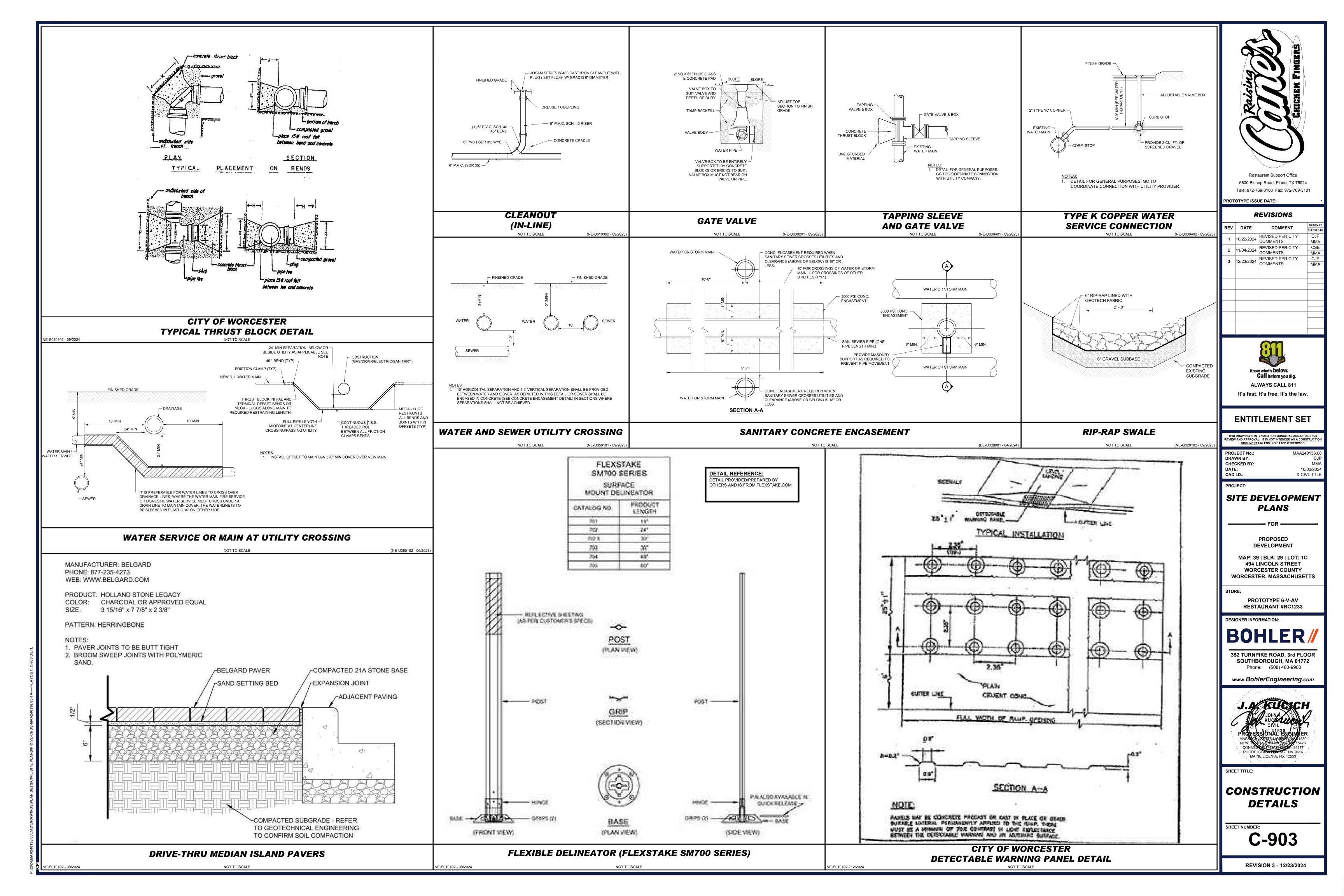
352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

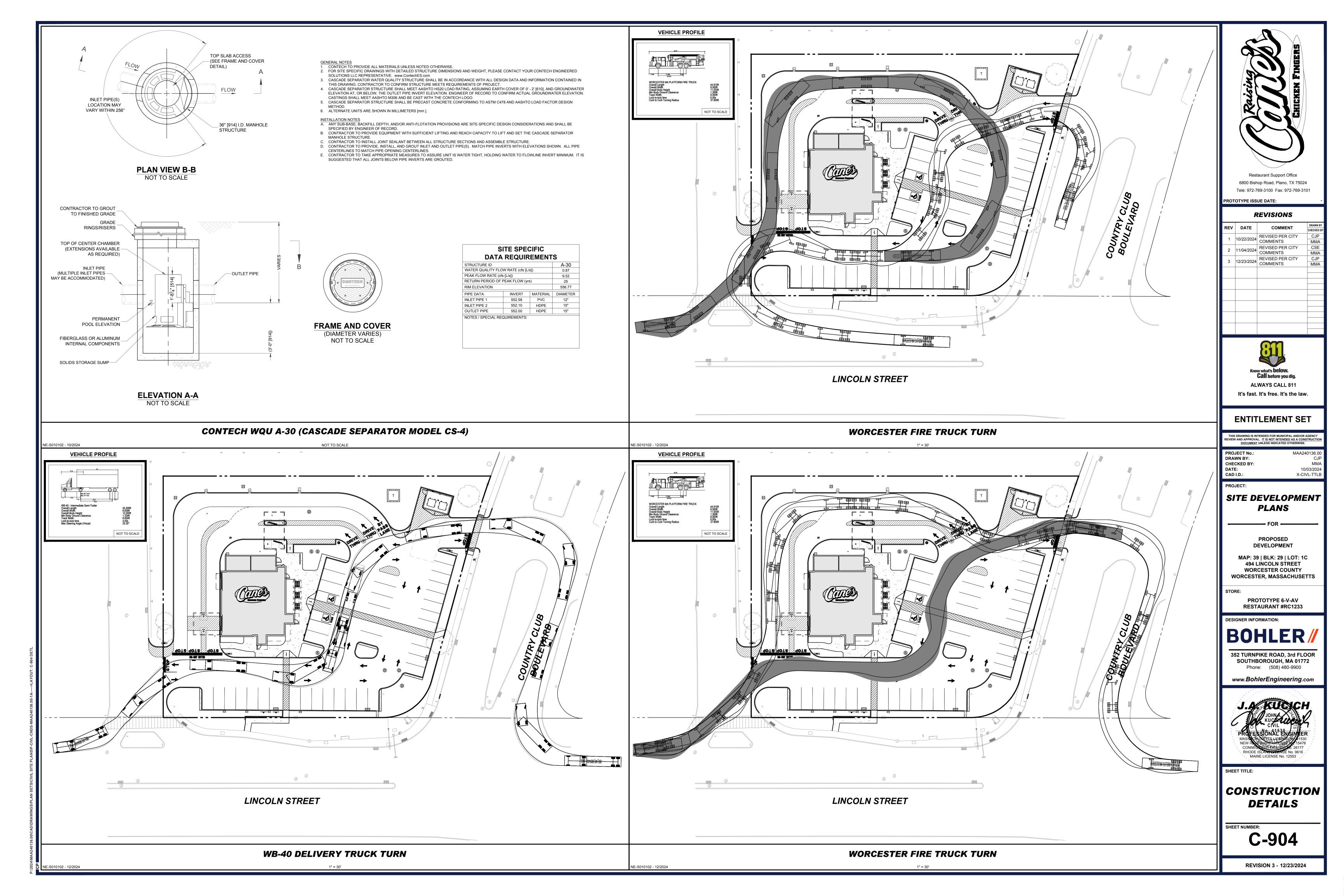
www.BohlerEngineering.com

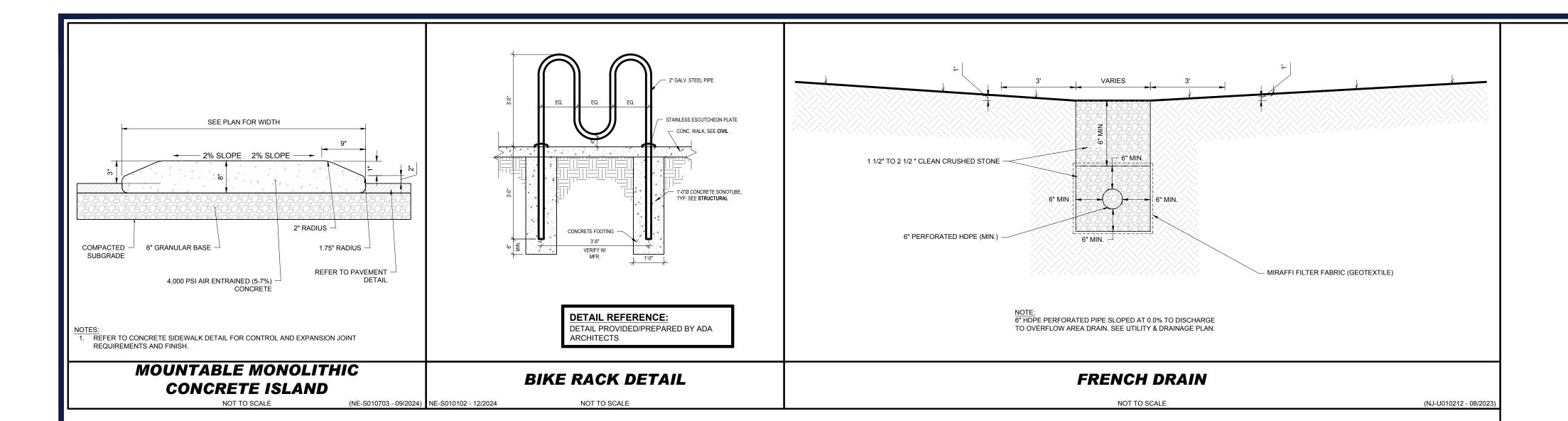


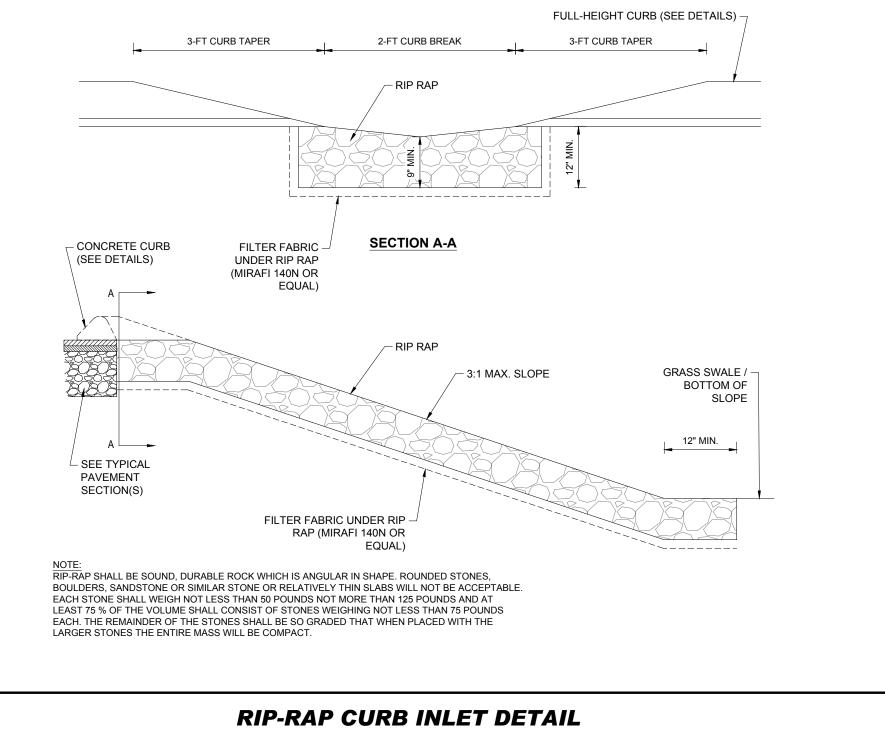
CONSTRUCTION **DETAILS** 

C-902











Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101

### PROTOTYPE ISSUE DATE:

### REVISIONS

REV	DATE	COMMENT	DRAWN BY
NE V		COMMENT	CHECKED BY
1	10/22/2024	REVISED PER CITY	CJP
ı	10/22/2024	COMMENTS	MMA
2	11/04/2024	REVISED PER CITY	CSE
2	11/04/2024	COMMENTS	MMA
3	12/23/2024	REVISED PER CITY	CJP
3	12/23/2024	COMMENTS	MMA



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## ENTITLEMENT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

 PROJECT No.:
 MAA240136.00

 DRAWN BY:
 CJP

 CHECKED BY:
 MMA

 DATE:
 10/03/2024

 CAD I.D.:
 X-CIVL-TTLB

PROJECT:

## SITE DEVELOPMENT PLANS

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET WORCESTER COUNTY WORCESTER, MASSACHUSETTS

TORE:

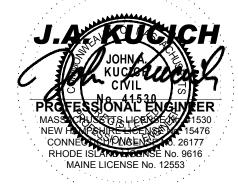
PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:

## BOHLER/

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

www.BohlerEngineering.com

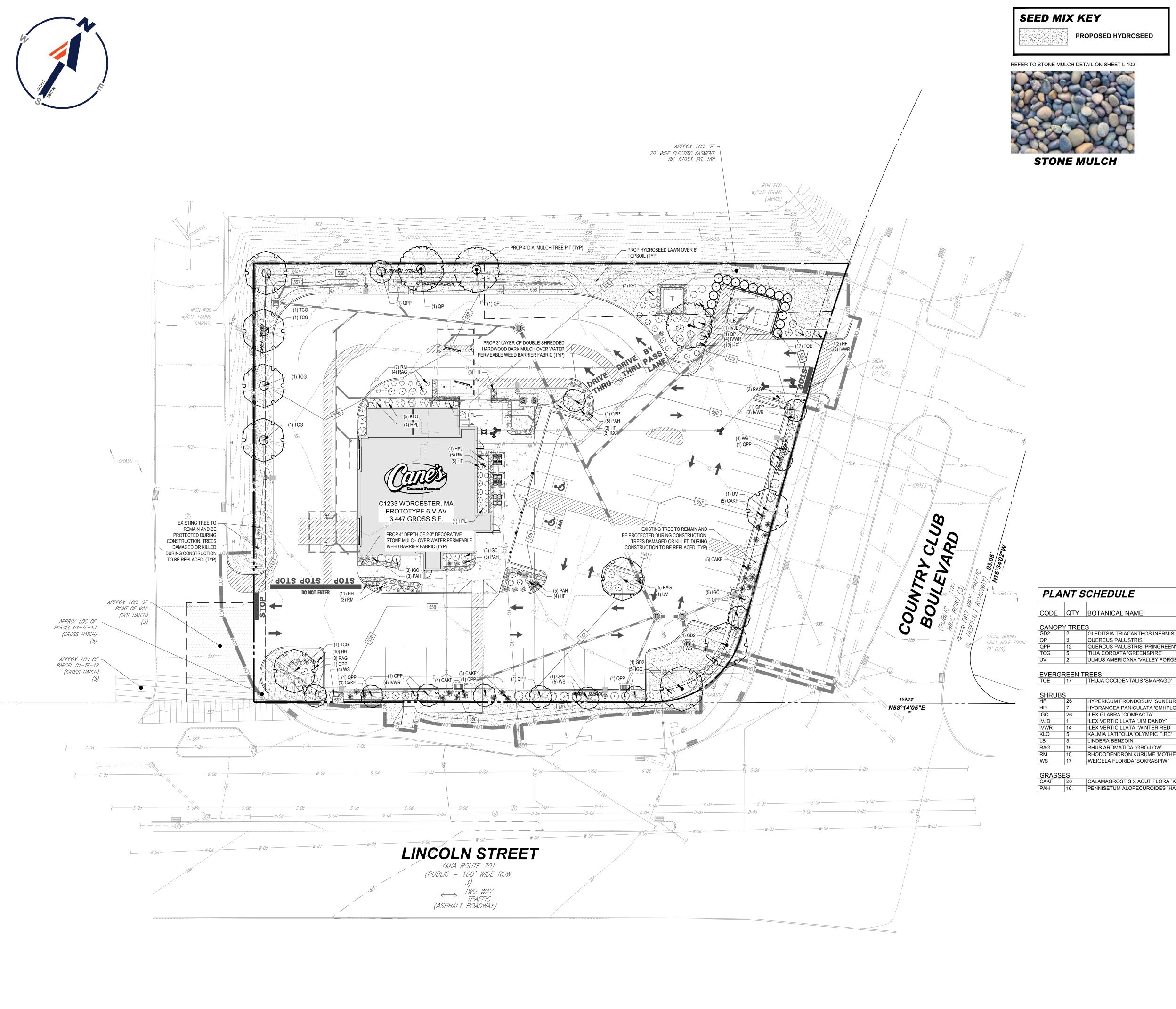


SHEET TITLE:

## CONSTRUCTION DETAILS

LIEET NIIMBED:

C-905





PAR	KING LOCATION AND LAYOUT EQUIREMENTS R ALL ZONING DISTRICTS	A MINIMUM OF FIVE (5) FEET FROM ALL BOUNDARY LINES TO PROVIDE A BUFFER AREA FROM ABUTTING LOTS. THE BUFFER AREAS SHALL CONSIST OF PERMEABLE SURFACES AND SHALL BE APPROPRIATELY LANDSCAPED IN ACCORDANCE WITH ARTICLE V, SECTION-5(C).  THE PARKING OR STORAGE OF MOTOR VEHICLES IS NOT PERMITTED IN THE FRONT YARD OR REQUIRED FRONT YARD	PROVIDED
(P	'G. # 105 - 106)	SETBACK, WHICHEVER IS LESS, OR THE EXTERIOR SIDE YARD OR REQUIRED EXTERIOR SIDE YARD SETBACK, WHICHEVER IS LESS	
		PARKING LOTS WITH MORE THAN SIXTEEN (16) PARKING SPACES SHALL HAVE LANDSCAPING IN THE INTERIOR OF THE PARKING LOT IN ADDITION TO LANDSCAPING ALONG THE EDGES OF THE LOT.	PROVIDED
	ARTICLE IV, TION-7 (NOTE 6)	AT LEAST ONE (1) TREE SHALL BE PLANTED WITHIN THE PARKING LOT (INTERIOR FOR EVERY TEN (10) PROPOSED AND EXISTING SPACES. SUCH INTERIOR TREES SHALL BE IN ADDITION TO TREES REQUIRED ALONG THE EDGES OF THE LOT.	40 INTERIOR PARKING SPACES NOT ABUTTING LANDSCAPE SETBACK AREA REQUIRED TREES: 40 / 10 = 4 PROVIDED TREES: 4
L	INTERIOR ANDSCAPING	INTERIOR TREES SHALL BE PLANTED IN PLANTING BEDS NO SMALLER THAN FIVE FEET BY FIVE FEET (5' X 5').	PROVIDED TREES: 4
	(PG. # 106)	PARKING SPACES ABUTTING A LANDSCAPED SETBACK AREA (AS DESCRIBED IN NOTE 5, ABOVE) AND IN COMPLIANCE WITH ARTICLE V, SECTION-5(C) OF THIS ORDINANCE, HOWEVER, SHALL NOT BE COUNTED IN THE CALCULATION WHEN DETERMINING THE NUMBER OF INTERIOR TREES REQUIRED.	PROVIDED
		TREES SHALL BE LOCATED IN SUCH A MANNER AS TO PROVIDE SHADE OVER THE GREATEST NUMBER OF PARKING SPACES PRACTICABLE.	PROVIDED
		A. LANDSCAPE SCREENING SHALL BE REQUIRED ALONG THE SIDEWALK EDGE AND SIDE LOT LINES WHERE THE PARKING, WORK OR SERVICE AREA OF A PROPOSED PROJECT ABUTS A STREET, PUBLIC PARK OR RESIDENTIAL PROPERTY.	PROVIDED ALONG LINCOLN STREET AND COUNTRY CLUB BOULEVARD.
		B. LANDSCAPING SCREENING SHALL CONSIST OF PLANTING AREAS AT LEAST FIVE (5) FEET WIDE LOCATED ALONG THE SIDEWALK EDGE AND/OR SIDE LOT LINES OF A PROPOSED USE. LANDSCAPE SCREENING AREAS SHALL BE SEPARATED FROM PARKING AREAS BY A SIX-INCH HIGH CURB. TREES SHALL BE THE MAJOR ELEMENTS OF LANDSCAPE SCREENING. A COMBINATION OF PLANT MATERIALS, TREES AND SHRUBS SHALL BE INCLUDED IN LANDSCAPE SCREENING AREAS. FENCING MAY BE USED, IN COMBINATION WITH TREES AND SHRUBS, WHEN APPROPRIATE.	PROVIDED
	ICLE V <u>,</u> TION-5 (C)	I. TREES: TREES SHALL BE PLANTED EVERY TWENTY (20) TO TWENTY-FIVE (25) FEET ON CENTER. TREES TO BE PLANTED SHALL HAVE TRUNKS AT LEAST THREE (3) TO THREE AND ONE-HALF (3 1/2) INCHES IN DIAMETER WHEN MEASURED SIX (6) INCHES ABOVE THE GROUND.	350' OF SIDEWALK/ 25' = 14 TREES PROVIDED - 14 TREES
DESI	DSCAPING GN STANDARDS # 177)	II. SHRUBS: SHRUBS SHALL BE PLANTED ALONG WITH TREES IN A LANDSCAPE SCREENING AREA. SHRUBS MAY BE DECIDUOUS OR EVERGREEN, OR A MIXTURE OF BOTH TYPES, AND SHALL BE DENSELY PLANTED TO PROVIDE A MATURE APPEARANCE WITHIN THREE (3) YEARS. FOR LANDSCAPE SCREENING AREAS ALONG A SIDEWALK EDGE, SHRUBS SHALL BE NO TALLER THAN FOUR (4) FEET HIGH.	PROVIDED
		III. FENCING: FENCING IN A LANDSCAPE SCREENING AREA ALONG A SIDEWALK EDGE SHALL BE INSTALLED JUST INSIDE THE PROPERTY LINE. SUCH FENCE SHALL BE THREE (3) TO FOUR (4) FEET IN HEIGHT AND AT LEAST FIFTY PERCENT (50%) PERFORATED. DECORATIVE APPROPRIATE FOR SIDEWALK EDGES. FENCING SHALL BE LOCATED UP TO OR WITHIN A THREE-FOOT DISTANCE FROM THE PROPERTY LINE. SUCH FENCING SHALL BE OPAQUE. HIGH FENCES THAT COVER LONG DISTANCES SHALL HAVE SURFACE TEXTURES TO MINIMIZE THEIR SIZE. A WOODEN SHADOWBOX FENCE IS AN EFFECTIVE SCREEN BETWEEN PROPERTIES. IN GENERAL, CHAIN LINK FENCING IS TO BE DISCOURAGED. IF CHAIN LINK FENCING IS USED, IT SHALL BE LIMITED TO SMALL AREAS AND SHALL BE VINYL-COATED CHAIN LINK. THE PLANNING BOARD SHALL DETERMINE THE COLOR OF THE VINYL COATING TO BE USED.	
MĀ	ARTICLE V, IECTION-5 (C) INTENANCE OF ANDSCAPED AREAS (PG. # 179)	REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION, FREE OF REFUSE AND DEBRIS, AND ANY PLANTINGS THAT DO NOT SURVIVE SHALL BE REPLACED IN KIND BY THE APPLICANT OR PROPERTY OWNER WITHIN A REASONABLE PERIOD OF TIME. ALL PLANT MATERIAL AND FENCING SHALL BE ARRANGED AND MAINTAINED SO AS NOT TO OBSCURE THE VISION OF TRAFFIC. THERE SHALL BE NO PARKING OF VEHICLES OR SNOW STORAGE IN AREAS USED FOR SCREENING AND BUFFERING.	PROVIDED
[	ARTICLE V, SECTION-6(F) ANDSCAPED RKING BUFFERS (PG. # 205)	LANDSCAPING BUFFERS FOR PARKING AREAS SHALL BE A MINIMUM OF THREE (3) FEET IN WIDTH WITH MINIMUM FIVE (5) FEET BY FIVE (5) FEET TREE PLANTING AREAS FOR REQUIRED TREE PLANTINGS. LANDSCAPING BUFFERS FOR PARKING AREAS BORDERING THE FRONT YARD SETBACK, DRIVE-THROUGH LANES OR DRIVE-THROUGH ESCAPE LANES SHALL BE A MINIMUM OF	PROVIDED

FIVE (5) FEET IN WIDTH.

CITY OF WORCESTER

REQUIREMENTS

WITH THE EXCEPTION OF RESIDENTIAL DRIVEWAYS AND COMMON DRIVEWAYS, PARKING FACILITIES SHALL BE SET BACK A MINIMUM OF FIVE (5) FEET FROM ALL BOUNDARY LINES TO

SECTION

LANDSCAPE REQUIREMENTS

CALCULATIONS/PROPOSED

PLA	NT	SCF	<i>IED</i>	JLE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINE
041105	TDE	-0			
0,	Y TREE	<u> </u>			
GD2	2	GLEDITSIA TRIACANTHOS INERMIS 'DRAVES'	STREET KEEPER® HONEY LOCUST	3-3.5" CAL .	B&B
QP	3	QUERCUS PALUSTRIS	PIN OAK	3-3.5" CAL .	B&B
QPP	12	QUERCUS PALUSTRIS 'PRINGREEN'	GREENPILLAR PIN OAK	3-3.5" CAL .	B&B
TCG	5	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	3-3.5" CAL .	B&B
	-	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE AMERICAN ELM	3-3.5" CAL .	B&B

EMERALD GREEN ARBORVITAE

SHRUBS	3				
HF	26	HYPERICUM FRONDOSUM 'SUNBURST'	SUNBURST ST. JOHN'S WORT	18-24"	CONTAINER
HPL	7	HYDRANGEA PANICULATA 'SMHPLQF'	LITTLE QUICK FIRE PANICLE HYDRANGEA	24-30"	CONTAINER
IGC	26	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24-30"	CONTAINER
IVJD	1	ILEX VERTICILLATA `JIM DANDY`	JIM DANDY WINTERBERRY	30-36"	CONTAINER
IVWR	14	ILEX VERTICILLATA 'WINTER RED'	WINTER RED WINTERBERRY	30-36"	CONTAINER
KLO	5	KALMIA LATIFOLIA 'OLYMPIC FIRE'	OLYMPIC FIRE MOUNTAIN LAUREL	30-36"	CONTAINER
LB	3	LINDERA BENZOIN	SPICEBUSH	24-30"	CONTAINER
RAG	15	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	15-18"	CONTAINER
RM	15	RHODODENDRON KURUME 'MOTHER'S DAY'	MOTHER'S DAY KURUME AZALEA	18-24"	CONTAINER
WS	17	WEIGELA FLORIDA 'BOKRASPIWI'	SPILLED WINE® WEIGELA	3 GAL.	

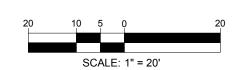
CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` FEATHER REED GRASS
PENNISETUM ALOPECUROIDES `HAMELN` HAMELN FOUNTAIN GRASS PAH 16 PENNISETUM ALOPECUROIDES 'HAMELN'

> THIS PLAN TO BE UTILIZED FOR LANDSCAPE **PURPOSES ONLY**

CONTAINER

CONTAINER

1 GAL.





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PROTOTYPE ISSUE DATE:

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PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C 494 LINCOLN STREET WORCESTER COUNTY **WORCESTER, MASSACHUSETTS** 

STORE:

PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900

www.BohlerEngineering.com



**LANDSCAPE** PLAN

L-101

### MASSACHUSETTS LANDSCAPE SPECIFICATION

- a) THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION PERMANENT SEEDING OR SODDING. PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT
- NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR. MATERIALS a) GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT
- OF TRANSPORTATION'S SPECIFICATIONS. b) TOPSOIL - NATURAL FRIABLE LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5% A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY
- c) LAWN: c)a) ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL. OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION
- METHODS INDICATED ON THE LANDSCAPE PLAN. c)b) LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED. c)c) SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON
- SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE. c)d) MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES / DETAILS.
- d) FERTILIZER: d)a) FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS
- SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE. d)b) FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED
- e) PLANT MATERIAL: e)a) ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION
- (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN) e)b) IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT
- MATERIAI e)c) PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT
- OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION e)d) TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 11/4". WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY
- TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. e)e) ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH: WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS,
- EGGS OR LARVAE e)f) CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX

INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A

- POINT 12" ABOVE THE NATURAL GRADE. e)g) SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST
- e)h) TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL
- GENERAL WORK PROCEDURES

SOIL LABORATORY

- a) CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
- WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
- SITE PREPARATIONS i) BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
- O ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE
- CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK TREE PROTECTION
- a)  $\,\,$  CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS
- GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY 'VISI-FENCE', OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS
- SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED. IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION **ACTIVITY HAS BEEN COMPLETED**
- ) AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING
- 6. SOIL MODIFICATIONS a) CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS
- SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY ) LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE
- LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS. ) THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY.
- COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED
- ) TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH
- d)a) TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE
- d)b) MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- FINISHED GRADING a) UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF
- TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE. b) LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE
- SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1"±). ALLIAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE
- OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT
- i) ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
- 3. TOPSOILING
- a) CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO
- ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
- ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY [SEE SPECIFICATION 6.A.]):
- d)a) 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER d)b) 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
- e) THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS. PLANTING
- a) INSOFAR THAT IT IS FEASIBLE. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
- ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED
- ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
- POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY. THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING

### SEASONS:

- f)a) PLANTS: MARCH 15 TO DECEMBER 15
- f)b) LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1 f(c) PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE
- SUBSTITUTIONS g) FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS

SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL

- NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON: ACER RUBRUM PLATANUS X ACERIFOLIA BETULA VARIETIES POPULUS VARIETIES **CARPINUS VARIETIES** PRUNUS VARIETIES
  - **CRATAEGUS VARIETIES** PYRUS VARIETIES KOELREUTERIA QUERCUS VARIETIES LIQUIDAMBAR STYRACIFLUA TILIA TOMENTOSA
- LIRIODENDRON TULIPIFERA ZELKOVA VARIETIES h) PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
- h)a) 1 PART PEAT MOSS

h)c) 3 PARTS TOPSOIL BY VOLUME

- h)b) 1 PART COMPOSTED COW MANURE BY VOLUME
- h)d) 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
- h)d)a) 2 TABLETS PER 1 GALLON PLANT h)d)b) 3 TABLETS PER 5 GALLON PLANT
- h)d)c) 4 TABLETS PER 15 GALLON PLANT
- h)d)d) LARGER PLANTS: 2 TABLETS PER ½" CALIPER OF TRUNK i) FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER
- j) ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL. k) ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A
- MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE I) GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO
- PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION

m) NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING

- STRUCTURES AND SIDEWALKS. n) ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR
- SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB. o) ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING
- SPECIFICATIONS AS LISTED HEREIN. 10. TRANSPLANTING (WHEN REQUIRED)
- a) ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT. b) IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING THEY SHALL BE HEALED IN WITH MULICH OR SOIL ADEQUATELY
- WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND. c) PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30
- d) UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
- e) TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN. f) F TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE

CONC.

FABRIC TO BE INSTALLED

TO THE DEPTH OF THE

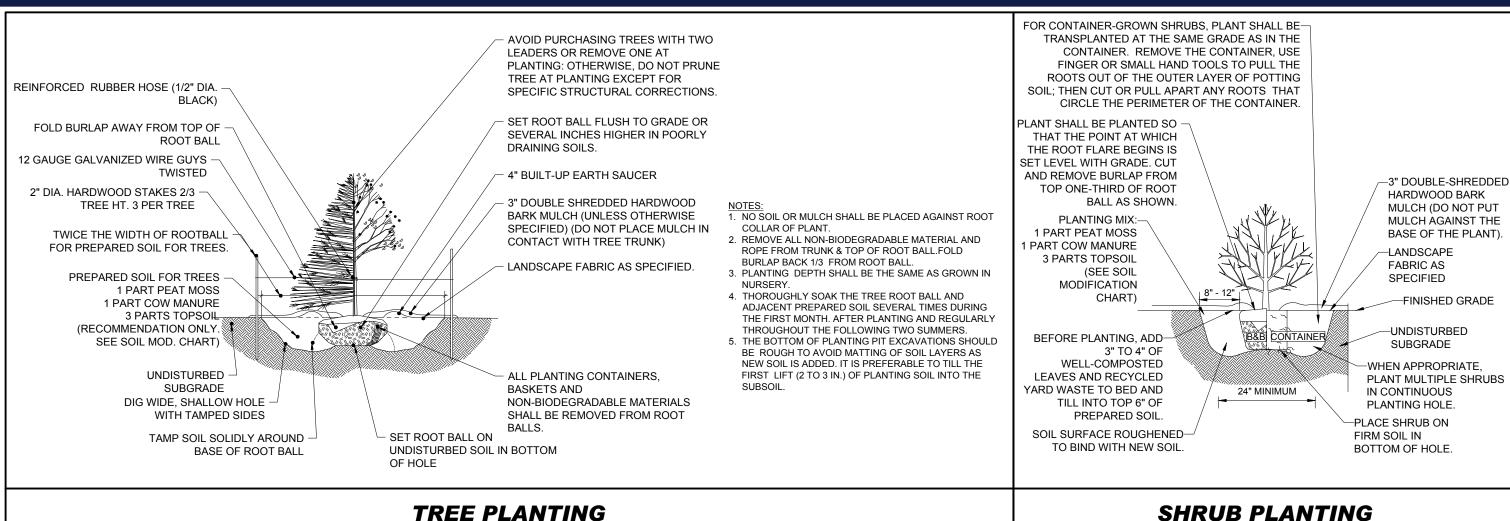
COURSE OR 10"

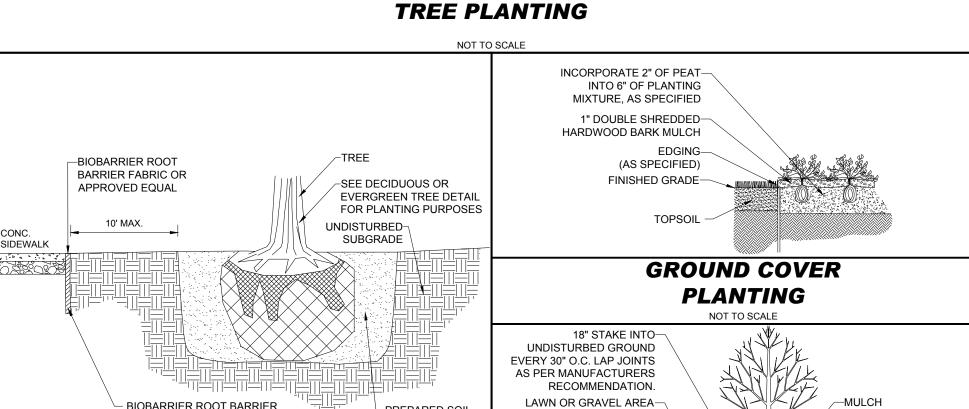
BOTTOM OF STONE BASE

WHICHEVER IS GREATER

NOT TO SCALE

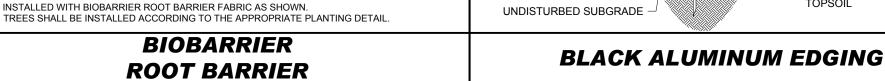
- REPLACEMENT GUIDELINES.
- a) NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED
- b) SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY
- PLANTED TREES. c) IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE. IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL. BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE
- DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- a) THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR ALITHORIZED REPRESENTATIVE
- b) ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE. WITHOUT EXCEPTION
- c) TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION. WEEDING. WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
- d) LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
- a) UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
- b) THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
- 14. MAINTENANCE (ALTERNATIVE BID)
- a) A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED. THE OWNER/OPERATOR MAY REQUIEST THAT RIDDERS SUBMIT AN ALTERNATE MAINTENANCE RID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE

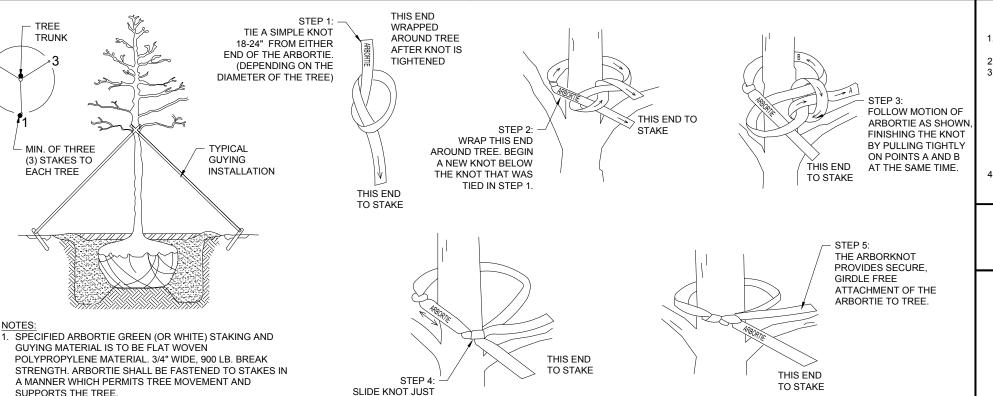




LAWN OR GRAVEL AREA-PREPARED SOIL FOR TREES (SEE PLANTING DETAIL) 3/16" x 4" BLACK-ALUMINUM EDGING - PRFPARFC ANY TREE INSTALLED WITHIN 10 FT. OF NEW CONCRETE SIDEWALKS SHOULD BE

NOT TO SCALE





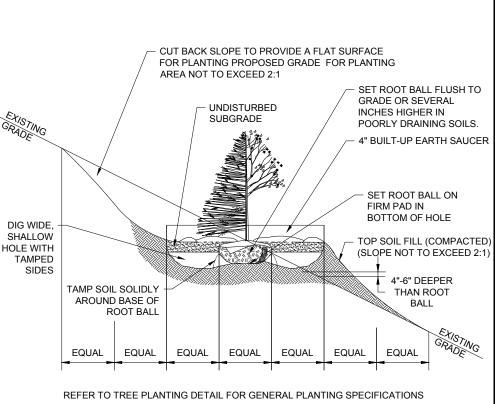
ARBORTIE **STAKING** 

COMPLETED UP TO THE

KNOT TIED IN STEP

FASTEN FREE END TO

STAKE OR ANCHOR



NOT TO SCALE

TREE PLANTING



SEEDING RATES: PERENNIAL RYEGRASS 1 LB/1000 SQ FT KENTUCKY BLUEGRASS RED FESCUE 1/2 LB/1000 SQ FT SPREADING FESCUE 1/2 LB/1000 SQ FT FERTILIZER (16.32.16) 2 LB/1000 SQ FT 1 GAL/800 GAL LIQUID LIME TANK TACKIFIER 35 LB/800 GAL. TANK FIBER MULCH 30 LB/1000 SQ F GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE

### HYDROSEED SPECIFICATIONS

SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS APPROVED BY OWNER

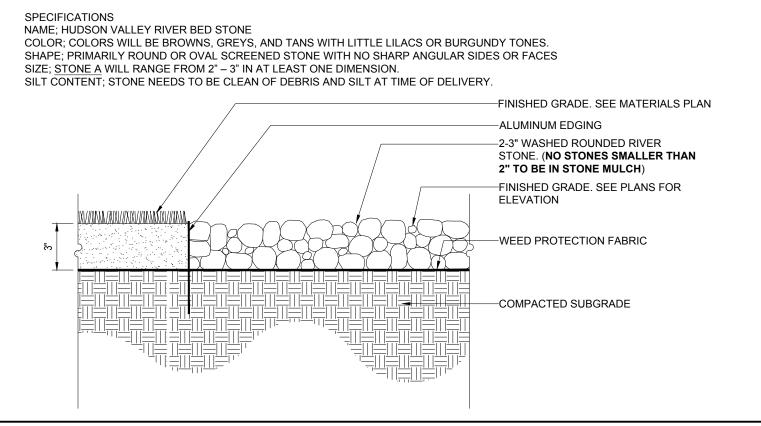
NOT TO SCALE 'NATIVE DETENTION AREA MIX" AS PREPARED BY FRNST CONSERVATION SEEDS INC.

8884 MERCER PIKE, MEADVILLE, PA 16335 PHONE: 800-873-3321 / 814-336-2404 EMAIL: SALES@ERNSTSEED.COM WEBSITE: WWW.ERNSTSEED.COM APPLICATION RATE: 1/2 LB. / 1000 SQ. FT. (20 LBS. / ACRE) IIX COMPOSITION:

25.0% PANICUM VIRGATUM, 'SHELTER' (SWITCHGRASS, 'SHELTER') 24.0% PANICUM CLANDESTINUM, 'TIOGA' (DEERTONGUE, 'TIOGA') 22.0% CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE) 21.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE) 6.0% AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE (AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE 1.0% JUNCUS EFFUSUS (SOFT RUSH) 1.0% PANICUM RIGIDULUM, PA ECOTYPE (REDTOP PANICGRASS, PA ECOTYPE)

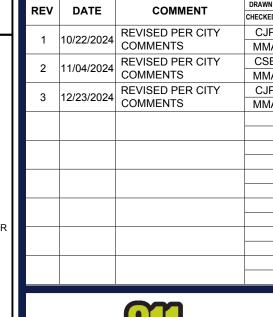
### **BASIN SEED MIX SPECIFICATIONS**

NOT TO SCALE



**STONE MULCH** 

Restaurant Support Office 6800 Bishop Road, Plano, TX 75024 Tele: 972-769-3100 Fax: 972-769-3101 PROTOTYPE ISSUE DATE: REVISIONS





**ENTITLEMENT SET** 

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENC EVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUC DOCUMENT UNLESS INDICATED OTHERWISE PROJECT No. DRAWN BY:

CAD I.D.:

PROJECT: SITE DEVELOPMENT **PLANS** 

X-CIVL-TTLB

PROPOSED

MAP: 39 | BLK: 29 | LOT: 1C **494 LINCOLN STREET WORCESTER COUNTY** WORCESTER, MASSACHUSETTS

**DEVELOPMENT** 

STORE:

PROTOTYPE 6-V-AV **RESTAURANT #RC1233** 

**DESIGNER INFORMATION:** 

352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772

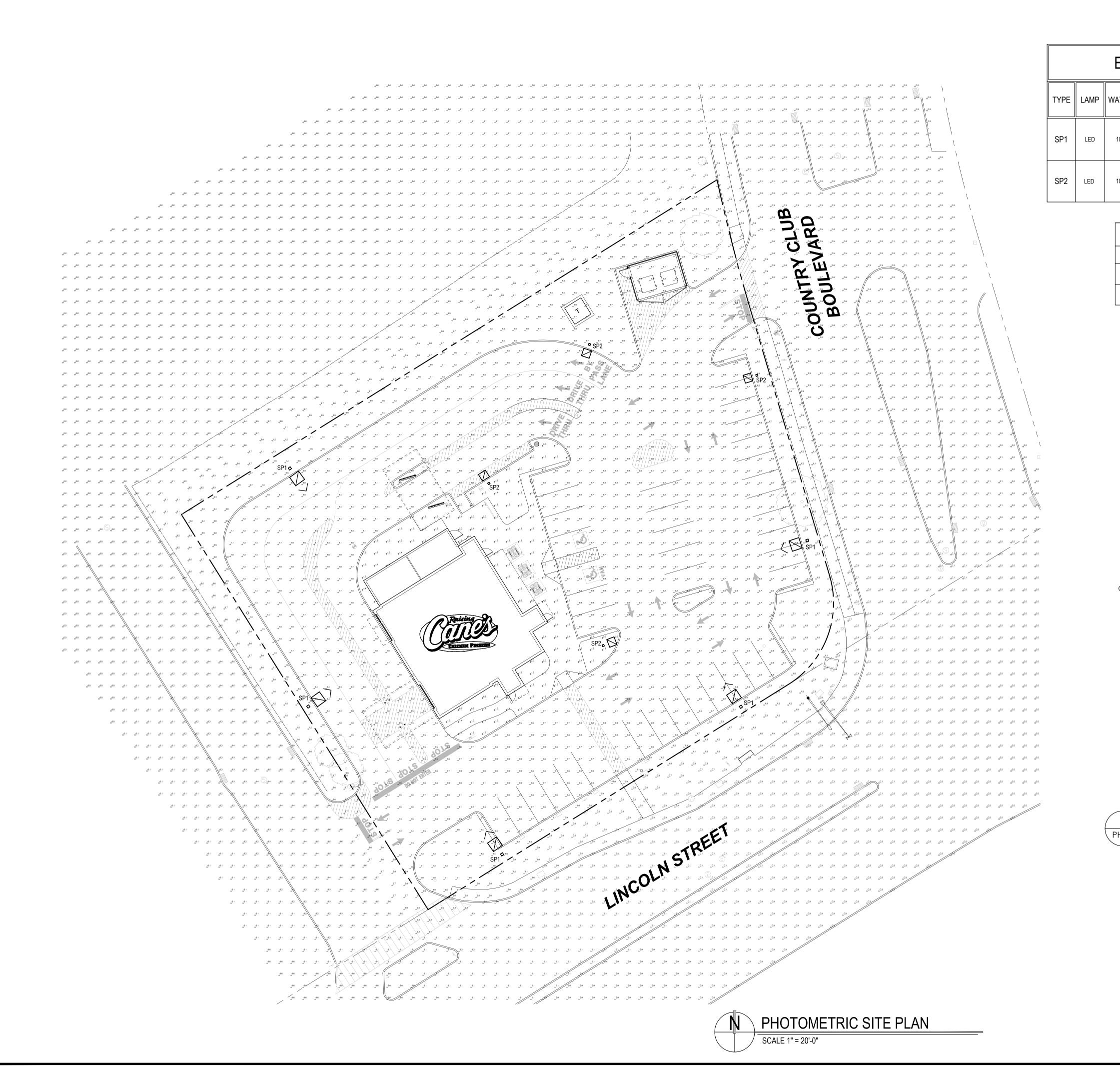
Phone: (508) 480-9900

www.BohlerEngineering.com



**LANDSCAPE NOTES** & **DETAILS** 

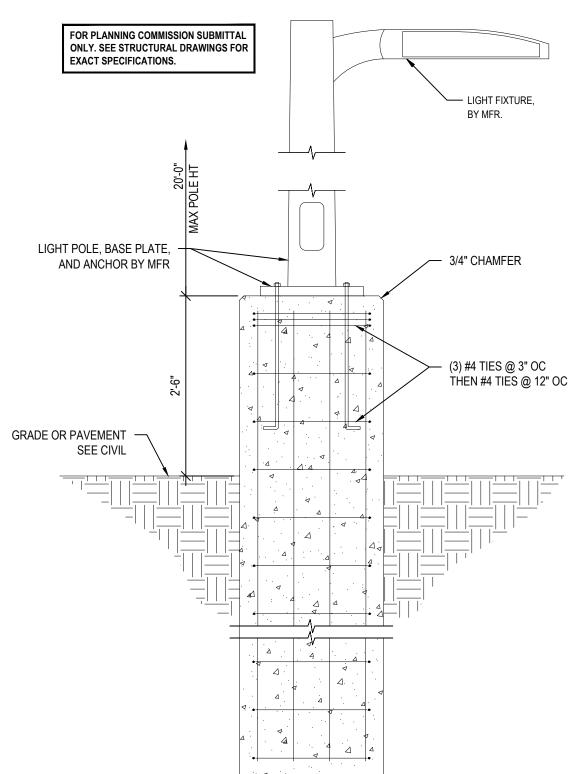
L-102



## EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	LAMP	WATTS	DESCRIPTION	CATALOG NO.
SP1	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE IV MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 20' TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA#  DSX1-LED-P3-30K-T4M-MVOLT-  SPA-DDBXD  POLE - LITHONIA#  SSS-20'-5G-DM19AS-DDBXD
SP2	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE V MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 20' TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-30K-T5M-MVOLT- SPA-DDBXD POLE - LITHONIA# SSS-20'-5G-DM19AS-DDBXD

STATISTICS	TICS (VALUES ARE MAINTAINED)									
Description	Avg	Max	Min	Max/Min	Avg/Min					
PARKING FIELD	2.0 fc	3.4 fc	0.9 fc	3.8:1	2.2:1					
PROPERTY LINE	0.1 fc	1.6 fc	0.0 fc	N/A	N/A					



TYPICAL LIGHT POLE BASE DETAIL PH1.0 | SCALE: 3/4"=1'-0"



RAISING CANE'S RESTAURANT 494 LINCOLN ST. WORCESTER, MA 01605 PROTOTYPE: P6-V-Av SCHEME: B RESTAURANT #RC1233

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ENGINEER INFORMATION:

SHEET REVISIONS # DATE TYPE

PHOTOMETRIC SITE PLAN

10/1/2024 DATE: 24164 JOB NO.

SHEET NO.



a high performance, high efficacy, long-life Length: luminaire. Height H2

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

DSX1 LED	P3	30K	70CRI	T4M		MVOLT	SPA
Series	LEDs	Color temperature <sup>2</sup>	Color Rendering Index <sup>2</sup>	Distribution		Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10 P12 P11 P13 P13 P13 P13 P13 P13 P13 P13 P13	30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply)	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare 3 T4M Type IV medium T4LG Type IV low glare 3 TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control 3 BLC4 Type IV backlight control 3 LCCO Left corner cutoff 3 RCCO Right corner cutoff 3	MVOLT (120V-277V) <sup>4</sup> HVOLT (347V-480V) <sup>5,6</sup> XVOLT (277V - 480V) <sup>7,8</sup> 120 <sup>16, 26</sup> 208 <sup>16, 26</sup> 240 <sup>16, 26</sup> 277 <sup>16, 26</sup> 347 <sup>16, 26</sup> 480 <sup>16, 26</sup>	Shipped included  SPA Square pole mounting (#8 drilling)  RPA Round pole mounting (#8 drilling)  SPAS Square pole mounting #5 drilling 9  RPA5 Round pole mounting #5 drilling 9  SPA8N Square narrow pole mounting #8 drilling  WBA Wall bracket 10  MA Mast arm adapter (mounts on 2 3/8" 0D horizontal tenon)

1	I	1	I		d <sub>i</sub>	- 1	,
						DDBX	)
Control options				Other optic	ons	Finish (requ	iired)
Shipped installe NLTAIR2 PIRHN PIR PER PER5	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. 11, 12, 20, 21 High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc 13, 20, 21 NEMA twist-lock receptacle only (controls ordered separate) 14 Five-pin receptacle only (controls ordered separate) 14	PER7 FAO BL30 BL50 DMG	Seven-pin receptacle only (controls ordered separate) <sup>14,21</sup> Field adjustable output <sup>15,21</sup> Bi-level switched dimming, 30% <sup>16,21</sup> Bi-level switched dimming, 50% <sup>16,21</sup> 0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>17</sup> Dual switching <sup>18, 19,21</sup>	Shipped in SPD20KV HS L90 R90 CCE HA BAA SF DF Shipped s EGSR	20KV surge protection Houseside shield (black finish standard) <sup>22</sup> Left rotated optics <sup>1</sup> Right rotated optics <sup>1</sup> Coastal Construction <sup>23</sup> 50°C ambient operation <sup>24</sup> Buy America(n) Act Compliant Single fuse (120, 277, 347V) <sup>26</sup> Double fuse (208, 240, 480V) <sup>26</sup>	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white

LITHONIA LIGHTING. COMMERCIAL OUTDOOR

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### **D-Series Size 1** LED Area Luminaire Introduction The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly **Specifications** with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. 14.26" (36.2 cm) The photometric performance results in sites with excellent uniformity, greater pole spacing 7.88" (20.0 cm) and lower power density. D-Series outstand-ing photometry aids in reducing the number of Height H2: poles required in area lighting applications with 34 lbs typical energy savings of 65% and expected service life of over 100,000 hours. **EXAMPLE:** DSX1 LED P7 40K 70CRLT3M MVOLT SPA NITAIR2 PIRHN DDRXD

Number Fixture Type SP2

OSX1 LED	P3	30K	70CRI	T5M		MVOLT	SPA
eries	LEDs	Color temperature <sup>2</sup>	Color Rendering Index <sup>2</sup>	Distribution		Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P101 P121 P111 P131	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare 3 T4M Type IV medium T4LG Type IV low glare 3 TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control 3 BLC4 Type IV backlight control 3 LCC0 Left corner cutoff 3 RCC0 Right corner cutoff 3	MVOLT (120V-277V) <sup>4</sup> HVOLT (347V-480V) <sup>5,6</sup> XVOLT (277V - 480V) <sup>7,8</sup> 120 <sup>16, 26</sup> 208 <sup>16, 26</sup> 240 <sup>16, 26</sup> 277 <sup>16, 26</sup> 347 <sup>16, 26</sup> 480 <sup>16, 26</sup>	Shipped included  SPA Square pole mounting (#8 drilling)  RPA Round pole mounting (#8 drilling)  SPAS Square pole mounting #5 drilling?  RPA5 Round pole mounting #5 drilling?  SPA8N Square narrow pole mounting #8 drilling  WBA Wall bracket 10  MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
							DDBXD
ontrol opti	ons				Other options	F	inish (required)
<b>Shipped in:</b> NLTAIR2 PIR	HN nLight AIR gen 2 er	nabled with bi-level motion /	orde	en-pin receptacle only (controls red separate) <sup>14,21</sup>	Shipped installed SPD20KV 20KV surge protection		DDBXD Dark Bronze DBLXD Black

							horizontal tenon)
						DDBXI	כ
Control options				Other opti	ons	Finish (requ	uired)
Shipped installe NLTAIR2 PIRHN PIR PER PER5	nLight AIR gen 2 enabled with bi-level mot ambient sensor, 8-40' mounting height, am sensor enabled at 2fc. <sup>11, 12, 26, 21</sup> High/low, motion/ambient sensor, 8-40' mou height, ambient sensor enabled at 2fc <sup>13, 28, 21</sup> NEMA twist-lock receptacle only (controls o separate) <sup>14</sup> Five-pin receptacle only (controls ordered sep	oient FA BL Inting BL rdered DM	ordered separate) 14,21  O Field adjustable output 15,21  30 Bi-level switched dimming, 30% 16,21  50 Bi-level switched dimming, 50% 16,21  O-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) 17	Shipped i SPD20KV HS L90 R90 CCE HA BAA SF DF Shipped s EGSR	nstalled  20KV surge protection  Houseside shield (black finish standard) <sup>22</sup> Left rotated optics <sup>1</sup> Right rotated optics <sup>1</sup> Coastal Construction <sup>23</sup> 50°C ambient operation <sup>24</sup> Buy America(n) Act Compliant Single fuse (120, 277, 347V) <sup>26</sup> Double fuse (208, 240, 480V) <sup>26</sup> separately External Glare Shield (reversible, field install required, matches housing finish) Bird Spikes (field install required)	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white

**Electrical Load** 

LITHONIA LIGHTING COMMERCIAL OUTDOOR

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

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formance LED Drive Wattage 120V 208V 240V 277V 347V 480V P1 30 530 51 0.42 0.24 0.21 0.18 0.15 0.11 P2 30 700 68 0.56 0.33 0.28 0.24 0.20 0.14 P3 30 1050 104 0.85 0.49 0.43 0.37 0.29 0.21 P4 30 1250 125 1.03 0.60 0.52 0.45 0.36 0.26 P5 30 1400 142 1.15 0.66 0.58 0.50 0.40 0.29 P6 40 1250 167 1.38 0.79 0.69 0.60 0.48 0.34 P7 | 40 | 1400 | 188 | 1.54 | 0.89 | 0.77 | 0.67 | 0.53 | 0.38 P8 60 1100 216 1.80 1.04 0.90 0.78 0.62 0.45

P9 60 1400 279 2.31 1.33 1.15 1.00 0.80 0.58 P10 60 530 101 0.84 0.49 0.42 0.37 0.29 0.21

P11 60 700 135 1.12 0.65 0.56 0.49 0.39 0.28

P12 60 1050 206 1.72 0.99 0.86 0.74 0.59 0.43 P13 60 1400 279 2.30 1.33 1.15 1.00 0.79 0.57

Lumen Multiplier Availability Lumen Multiplier Availability Lumen Multiplier Availability

**LED Color Temperature / Color Rendering Multipliers** 

Note: Some LED types are available as per special request. Contact Technical Support for more information

COMMERCIAL OUTDOOR

2.75" for other pole types

LITHONIA LIGHTING.

DSX1-LED Rev. 09/05/23 Page 2 of 10

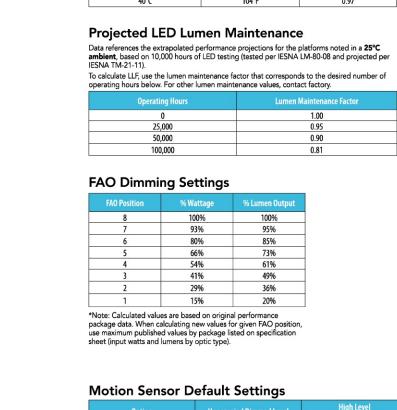
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Lumen Output Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.

							30K		i.			40K					50K		
Performance	System Watts	LED Count	Drive	Distribution Type		(30	00K, 70	CRI)			(40	00K, 70	(CRI)			(50	00K, 70	CRI)	
Package			Current (mA)		Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	Ιī
				T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	1
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	
P1	51W	30	530	T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	
				LCC0	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	
				T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	1
P2	68W	30	700	T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	0
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	- 8
				LCC0	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	77
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	
				T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	
P3	102W	30	1050	T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	

Photometric Diagrams To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage. Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

END	6 5 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6
0.1 fc 0.5 fc 1.0 fc	6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 5 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 5 4 3 2 2 1 1 1 2 2 3 4 4 5 5 6 6 T3M	6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	6 5 4 3 2 1 0 1 2 3 4 5 6  6 5 4 3 2 1 0 1 2 3 4 5 6  6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 5 4 3 2 1 0 1 2 3 4 5 6 6 5 4 3 2 1 1 0 1 2 3 4 5 6 TFTM	6 5 4 3 2 1 0 1 2 3 4 5 6  6 5 4 3 2 1 0 1 2 3 4 5 6  744  75  6 744  744  744	6 5 4 3 2 1 0 1 2 3 4 5 6  6 5 4 3 2 1 0 1 2 3 4 5 6  7 5 4 5 5 6 T T S M
	6 5 4 3 2 1 0 1 2 3 4 5 6 6 5 4 3 2 1 0 1 2 3 4 5 6 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6  6 5 4 3 2 1 0 1 2 3 4 5 6  7 5 4 4 5 5 6 7 5 LG	6 5 4 3 2 1 0 1 2 3 4 5 6 6 5 4 3 2 1 0 1 2 3 4 5 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 5 4 3 2 1 0 1 2 3 4 5 6  6 5 4 3 2 1 0 1 2 3 4 5 6  7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	6 5 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6	6 5 4 3 2 1 0 1 2 3 4 5 6	



t (input watts and lumens by	input watts and lumens by optic type).								
otion Sensor D	efault Settings								
Option	Unoccupied Dimmed Level	High Level (when occupied)	Phototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate			
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min			
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min			

Controls Options									
Nomenclature	Description	Functionality	Primary control device	Notes					
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads					
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.					
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0–10V leads.					
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.					
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.					
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V					

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Accessories

DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) <sup>25</sup> DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) 25 DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) 25

**Ordering Information** 

DSHORT SBK Shorting cap 25 DSX1HS P# House-side shield (enter package number 1-13 in place of #) DSXRPA (FINISH) Round pole adapter (#8 drilling, specify finish) DSXSPA5 (FINISH) Square pole adapter #5 drilling (specify finish) DSXRPA5 (FINISH) Round pole adapter #5 drilling (specify finish) DSX1EGSR (FINISH) External glare shield (specify finish) DSX1BSDB (FINISH) Bird spike deterrent bracket (specify finish)

HANDHOLE ORIENTATION

NOTES

1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.

2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.

3 13LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.

4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).

5 HVOLT driver operates on any line voltage from 20-27V (50/60 Hz).

6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.

7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).

8 XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).

9 SPAS and RPAS for use with #5 drilling only (Not for use with #8 drilling).

10 WBA cannot be combined with Type 5 distributions plus photocell (PER).

11 NLTAIR2 PIRHN must be ordered together. For more information on nLight AIR2 visit this link

12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.

13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using AVOLT.

14 PER/PERS/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.

15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.

16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.

17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.

18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.

19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads usin

23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25 Requires luminaire to be specified with PER, PERS or PERT option. See Controls Table on page 4.
26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



External Glare Shield (EGSR) House Side Shield (HS)

Tenon O.D.	Mounting		Single Unit		2 @ 180		2 @ 90		3 @ 90	3 @12	0	4@
2-3/8"	RPA		AS3-5 190		AS3-5 280		AS3-5 290		AS3-5 390	AS3-5 3	20	AS3-5
2-7/8"	RPA		AST25-190		AST25-280		AST25-290		AST25-39	0 AST25-3	20	AST2
4"	RPA		AST35-190		AST3	35-280 AST35		290 AST35-390		AST35-320		AST3
Mounting Option	Drilling Template	Si	Single		2 @ 180		2 @ 90		3 @ 90	3 @ 120		4@90
Head Location		Si	Side B		Side B & D		Side B & C		le B, C & D	Round Pole Only	Sid	e A, B, C &
Drill Nomenclature	#8	DM19AS		DM28AS		DM29AS		DM39AS		DM32AS		DM49AS
		Minimum Acceptable Outside Pole Dimension										
SPA	#8	3	3.5"		3.5"		3.5"		3.5"			3.5"
RPA	#8		3"		3"		3"		3"	3"		3"
							- 11		- "			- "

JI NON #0		, ,				3	
DSX1 Area Luminairo		ns, arms, brackets	or other accessori	es are not include	d in this EPA data.		
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4@90 DM49	
Mounting Type	-		₹_	<u>.</u>	Y		
DSX1 with SPA	0.69	1.38	1.23	1.54		1.58	
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66		1.68	
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68	
DSX1 with MA	0.83	1.66	1 50	2.09	2.09	2.09	

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ENGINEER INFORMATION:

STORE:

**RAISING CANE'S** 

RESTAURANT

494 LINCOLN ST. WORCESTER, MA 01605

PROTOTYPE: P6-V-Av SCHEME: B RESTAURANT #RC1233

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SHEET REVISIONS # DATE TYPE

**EXTERIOR LIGHT** FIXTURE CUT SHEETS

10/1/2024 24164 JOB NO.

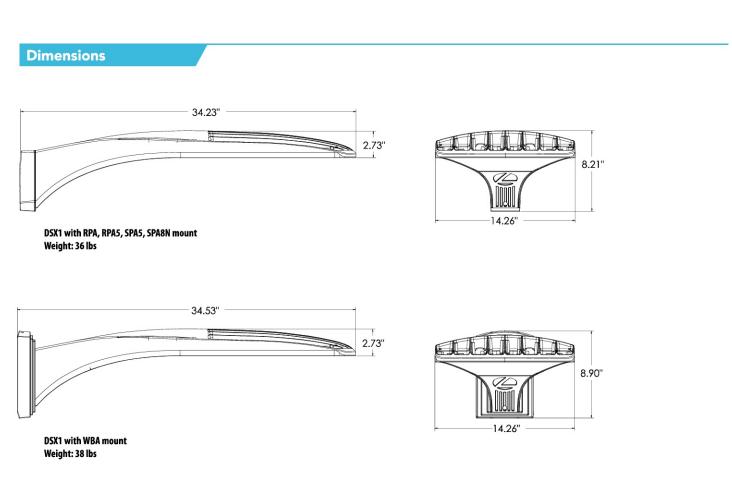
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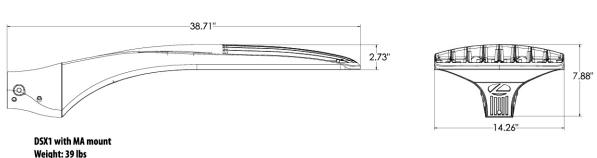
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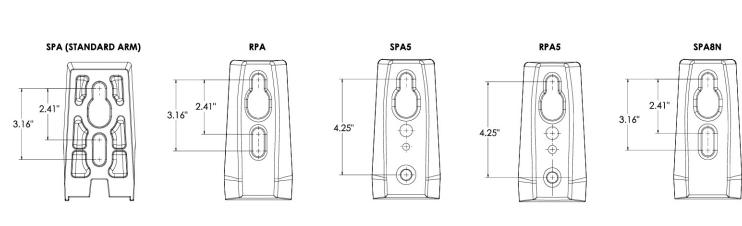
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### FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights. CONSTRUCTION —

Pole Shaft: The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, 0.120"), or 50 KSI (7-gauge, 0.179"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in crosssection with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6". **Pole Top:** Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable top cap.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

Base Cover: A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

Anchor Base/Bolts: Anchor base is fabricated from steel that meets ASTM A36 standards and can be

 $\textbf{HARDWARE} \ -- \ \text{All structural fasteners are high-strength galvanized carbon steel}. \ \text{All non-structural fasteners are}$ galvanized or zinc-plated carbon steel or stainless steel. FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Powder-coat finishes include Dark Bronze, White, Black, and Natural

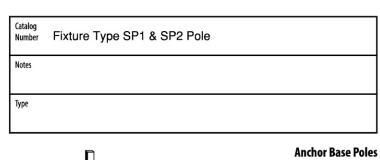
Aluminum colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited

to Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. **BUY AMERICAN** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/ buy-american for additional information.

**INSTALLATION** — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: <a href="https://www.acuitybrands.com/support/warranty/terms-and-conditions">www.acuitybrands.com/support/warranty/terms-and-conditions</a> **NOTE**: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

OUTDOOR

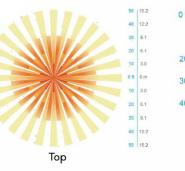


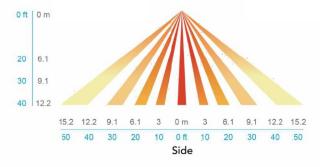


### nLight Control - Sensor Coverage and Setting

nLight Sensor Coverage Pattern







### **FEATURES & SPECIFICATIONS**

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes. CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft<sup>2</sup>) for optimized pole wind loading.

### Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peel-

ing. Available in both textured and non-textured finishes. Coastal Construction (CCE) Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super

### durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL Light engine configurations consist of high-efficacy LEDs mounted to metalcore circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

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LIGHTING.

STANDARD CONTROLS The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-touse CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can

nLIGHT AIR CONTROLS

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/ QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located

**Note:** 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. Specifications subject to change without notice.

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## **SSS** Square Straight Steel Poles

SSS	20'-0"	5G	DM19AS				DDBXD	
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness <sup>2</sup>	Mounting <sup>3</sup>		Options		Finish <sup>14</sup>	
SSS1	10'-39' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)  See technical information table for complete ordering information.)	4C 4" 11g (0.120") 4G 4" 7g (0.179") 5C 5" 11g (0.120") 5G 5" 7g (0.179") 6G 6" 7g (0.179")  See technical information table for complete ordering information.)	Tenon mounting	AERIS™ Suspend drill mounting <sup>5,6</sup> DM19AST_ 1 at 90°  DM29AST_ 2 at 180°  DM39AST_ 3 at 90°  DM49AST_ 4 at 90°  OMERO™ Suspend drill mounting <sup>5,6</sup> DM19MRT_ 1 at 90°  DM28MRT_ 2 at 180°  DM29MRT_ 2 at 90°  DM39MRT_ 3 at 90°  DM49MRT_ 4 at 90°	HAXY Hor FDLxy Fest CPL12/xy 1/2' CPL34/xy 3/4' CPL1/xy 1''c NPL34/xy 3/4' NPL1/xy 1'' ti EHHxy Extr NEC NEC han IC Inte  L/AB Less anc TP Tam fast UL UL1 com	ration damper <sup>7</sup> rizontal arm bracket (1 fixture) <sup>8,9</sup> toon outlet less electrical <sup>8,10</sup> " coupling <sup>8</sup> " toupling <sup>8</sup> " threaded nipple <sup>8</sup> " threaded nipple <sup>8</sup> ra handhole <sup>8,11</sup> " 410.30 compliant gasketed adhole (Not UL Labeled) erior coating <sup>12</sup> s anchor bolts (Include when chor bolts are not needed) riper resistant handhole cover teners listed with label (Includes NEC appliant cover) or America(n) Act Compliant <sup>13</sup>	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD  DWHGXD Other finis GALV Architectu finishes Paint over	able paint colors Dark bronze Black Natural aluminum White Textured dark bron Textured black Textured natural aluminum Textured white shes Galvanized finish ural colors and specia Galvanized, RAL Colo lors and Extended Finishes available.

### 1. Handhole covers (HHC), full base covers (FBC) and top caps (TC) shipped separately. No need to call out in nomenclature.

- For additional parts please order as replacements. 2. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.120" | "G" - 0.179". 3. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this
- example: DM28/T20. The combination includes a required extra handhole. 4. Refer to the fixture spec sheet for the correct drilling template pattern
- and orientation compatibility. 5. All RAD drilling's require a minimum top 0.D. of 4".
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- 7. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's
- Example: Pole height is 25ft, A provision cannot be placed above 16ft.
- For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". Example: 5ft = 5 and 20ft 3in = 20-3For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.

Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C

- 9. Horizontal arm is 18" x 2-3/8" 0.D. tenon standard, with radius curve providing 12" rise and 2-3/8" 0.D. If ordering two horizontal arm at the same height, specify with HAxyy. Example: HA20BD. 10. FDL does not come with GFCI outlet or handhole cover. These must be supplied by contractor or electrician. 11. Combination of tenon-top and drill mount includes extra handhole. EHH includes cover. 12. Provides enhanced corrosion resistance.
- 13. Use when mill certifications are required. 14. Finish must be specified. Additional colors available; see Architectural Colors brochure linked here (Form No. 794.3).

### Accessories: Order as separate catalog number. PL DT20 Plugs for ESX drillings PL DT8 Plugs for DMxxAS drillings

## **A LITHONIA LIGHTING**

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

POLE-SSS

ABSSS-4G

AB30-0

• Do not erect poles without having fixtures installed.

• Factory-supplied templates must be used when setting anchor

anchorage placement due to failure to use Lithonia Lighting

bolts. Lithonia Lighting will not accept claim for incorrect

• If poles are stored outside, all protective wrapping must be

removed immediately upon delivery to prevent finish damage.

• Lithonia Lighting is not responsible for the foundation design.

IMPORTANT INSTALLATION NOTES:

Bolt circles have +/- 1/2" tolerance.

factory templates.



STORE:

RAISING CANE'S **RESTAURANT** 494 LINCOLN ST. WORCESTER, MA 01605

PROTOTYPE: P6-V-Av SCHEME: B RESTAURANT #RC1233

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ENGINEER INFORMATION:

SHEET REVISIONS # DATE TYPE

**EXTERIOR LIGHT** FIXTURE CUT SHEETS

10/1/2024 24164 JOB NO.

SHEET NO.

POLE-SSS

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

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**LITHONIA LIGHTING** 

**SSS** Square Straight Steel Poles

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust

Wall thick

in. x ft.)

NOTE: \* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

**BASE DETAIL** 

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EPA (ft²) with 1.3 gust

4.0 x 10.0 0.120" 11 30.6 765 23.8 595 18.9 473 8-9 3/4 x 18 x 3

4.0 x 14.0 0.120" 11 19.9 498 15.1 378 11.7 293 8-9 3/4 x 18 x 3

5.0 x 20.0 0.179" 7 28.1 703 21.4 535 16.2 405 10--12 1 x 36 x 4

4.0 x 25.0 0.120" 11 4.8 150 2.6 100 1 50 8--9 3/4 x 18 x 3

5.0 x 25.0 0.179" 7 18.5 463 13.3 333 9.5 238 10-12 1 x 36 x 4

4.0 x 30.0 0.179" 7 6.7 168 4.4 110 2.6 65 8--9 3/4 x 30 x 3

4"C 8" – 9" 3.25"-3.75" 8"-8.25" 0.75" ABTEMPLATE PJ50004

4"G 8" – 9" 3.38"- 3.75" 8"- 8.25" 0.875" ABTEMPLATE PJ50004

HANDHOLE ORIENTATION

6" | 11" — 13" | 4"- 4.50" | 12.5" | 1" | ABTEMPLATE PJ50011 | AB36-0

Default DM19

 16
 4.0 x 16.0
 0.120"
 11
 15.9
 398
 11.8
 295
 8.9
 223
 8-9
 3/4 x 18 x 3

 18
 4.0 x 18.0
 0.120"
 11
 12.6
 315
 9.2
 230
 6.7
 168
 8-9
 3/4 x 18 x 3

 20
 4.0 x 20.0
 0.120"
 11
 9.6
 240
 6.7
 167
 4.5
 150
 8-9
 3/4 x 18 x 3

 20
 4.0 x 20.0
 0.179"
 7
 14
 350
 11
 275
 8
 200
 8-9
 3/4 x 30 x 3

5.0 x 20.0 0.120" 11 17.7 443 12.7 343 9.4 235 10-12

25 4.0 x 25.0 0.179" 7 10.8 270 7.7 188 5.4 135 8--9 3/4 x 30 x 3

5.0 x 25.0 0.120" 11 9.8 245 6.3 157 3.7 150 10-12

 30
 5.0 x 30.0
 0.120"
 11
 4.7
 150
 2
 50
 - - 10-12

 30
 5.0 x 30.0
 0.179"
 7
 10.7
 267
 6.7
 167
 3.9
 100
 10-12

30 6.0 x 30.0 0.179" 7 19 475 13.2 330 9 225 11--13

 SSS 35 5G
 35
 5.0 x 35.0
 0.179"
 7
 5.9
 150
 2.5
 100
 - - 10--12
 1 x 36 x 4
 440

 SSS 35 6G
 35
 6.0 x 35.0
 0.179"
 7
 12.4
 310
 7.6
 190
 4.2
 105
 11--13
 1 x 36 x 4
 540

 SSS 39 6G
 39
 6.0 x 39.0
 0.179"
 7
 7.2
 180
 3
 75
 - - 11--13
 1 x 36 x 4
 605

5" 10" – 12" 3.5"- 4" 11"

