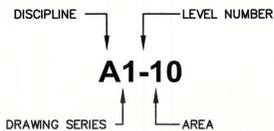


**SHEET NUMBERING SYSTEM:**



- DISCIPLINE**
- A - ARCHITECTURE
  - C - CIVIL
  - E - ELECTRICAL
  - F - FIRE PROTECTION
  - H - HVAC
  - I - INSTRUMENTATION
  - M - MECHANICAL (PROCESS)
  - P - PIPING
  - S - STRUCTURAL

**DRAWING SERIES**

- ARCHITECTURE:**
- 0 - LEAD SHEETS
  - 1 - FLOOR PLANS
  - 2 - PARTIAL PLANS
  - 3 - CEILING PLANS
  - 4 - EXTERIOR ELEVATIONS
  - 5 - SECTIONS
  - 6 - DETAILS
  - 7 - SCHEDULES
  - 8 - INTERIOR ELEVATIONS

- CIVIL:**
- 0 - DEMOLITION AND EROSION CONTROL PLAN
  - 1 - LAYOUT AND MATERIALS PLAN
  - 2 - GRADING AND DRAINAGE PLAN
  - 3 - UTILITY PLAN
  - 4 - LANDSCAPE PLAN
  - 5 - LIGHTING PLAN
  - 6 - DETAIL SHEETS

- ELECTRICAL:**
- 0 - LEAD SHEETS
  - 1 - ONE LINE DIAGRAMS
  - 2 - POWER PLANS
  - 3 - LIGHTING PLANS
  - 4 - SYSTEMS PLANS
  - 5 - PARTIAL PLANS
  - 6 - DETAILS
  - 7 - SCHEDULES
  - 8 - HAZARDOUS AREA PLANS
  - 9 - RISER DIAGRAMS

- FIRE PROTECTION:**
- 0 - LEAD SHEETS
  - 1 - DIAGRAMS/SCHEMATICS
  - 2 - HVAC PLANS
  - 3 - PIPING PLANS
  - 4 - SUPPLY ZONE PLANS
  - 5 - EXHAUST ZONE PLANS
  - 6 - DETAILS
  - 7 - SCHEDULES

- INSTRUMENTATION:**
- MECHANICAL (PROCESS):**
- PLUMBING:**
- STRUCTURAL:**

**LEVEL NUMBER AND AREA**

NOTE: AREA USED ONLY IF MULTIPLE SHEETS ARE REQUIRED FOR ANY GIVEN FLOOR

- 00 - BASEMENT
- 10 - FIRST FLOOR OVERALL PLAN
- 11 - FIRST FLOOR PLAN AREA 1
- 12 - FIRST FLOOR PLAN AREA 2
- 13 - FIRST FLOOR PLAN AREA 3
- 20 - SECOND FLOOR OVERALL PLAN
- 21 - SECOND FLOOR PLAN AREA 1
- 22 - SECOND FLOOR PLAN AREA 2
- 30 - THIRD FLOOR OVERALL PLAN
- 40 - FOURTH FLOOR OVERALL PLAN ETC.

FOR NON-PLAN DRAWINGS, SHEETS ARE NUMBERED IN SEQUENCE (FOLLOWING DISCIPLINE AND DRAWING SERIES)

A6-01, A6-02, A6-03, ETC  
(ARCHITECTURAL DETAIL SHEETS 1, 2, 3, ETC)



**COATINGS SYSTEMS  
INC. 364 MAIN STREET  
NORFOLK, MA, 02056**



PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.  
17 'A' STREET BURLINGTON, MA 01803  
PHONE: (781) 221 0123 FAX: (781) 221 7212

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**HOWARD STEIN HUDSON**

114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
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**PERMIT DRAWINGS**

| ARCHITECTURAL DRAWINGS |                              |     |          |
|------------------------|------------------------------|-----|----------|
| NO.                    | TITLE                        | REV | DATE     |
| SKA-07                 | PROPOSED OVERALL FLOOR PLAN  | C   | 11/05/19 |
| SKA-11                 | PROPOSED EXTERIOR ELEVATIONS | A   | 12/09/19 |

| CIVIL DRAWINGS |                                     |     |          |
|----------------|-------------------------------------|-----|----------|
| NO.            | TITLE                               | REV | DATE     |
| C0-00          | DEMOLITION AND EROSION CONTROL PLAN |     | 12/23/19 |
| C1-00          | LAYOUT AND MATERIALS PLAN           |     | 12/23/19 |
| C2-00          | GRADING AND DRAINAGE PLAN           |     | 12/23/19 |
| C3-00          | UTILITY PLAN                        |     | 12/23/19 |
| C4-00          | LANDSCAPE PLAN                      |     | 12/23/19 |
| C5-00          | LIGHTING PLAN                       |     | 12/23/19 |
| C6-01          | DETAIL SHEET 1 OF 5                 |     | 12/23/19 |
| C6-02          | DETAIL SHEET 2 OF 5                 |     | 12/23/19 |
| C6-03          | DETAIL SHEET 3 OF 5                 |     | 12/23/19 |
| C6-04          | DETAIL SHEET 4 OF 5                 |     | 12/23/19 |
| C6-05          | DETAIL SHEET 5 OF 5                 |     | 12/23/19 |

APPROVED BY THE TOWN OF NORFOLK  
PLANNING BOARD:  
DATE: \_\_\_\_\_

I CERTIFY THAT 20 DAYS HAVE PASSED  
SINCE PLANNING BOARD APPROVAL AND  
NO APPEAL HAS BEEN FILED IN THIS  
OFFICE.

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

\_\_\_\_\_  
TOWN CLERK OF NORFOLK

**OWNER**

DDMI, LLC  
364 MAIN STREET  
NORFOLK, MA 02056

**APPLICANT**

DAN IANNUZZI  
CAMGER COATINGS SYSTEMS, INC.  
364 MAIN STREET  
NORFOLK, MA 02056

**ASSESSORS INFORMATION**

ASSESSORS MAP 2, BLOCK 6, LOT 3

**REFERENCES**

1. EXISTING CONDITIONS SURVEY BY ALLEN ENGINEERING & ASSOCIATES, INC.,  
COMPLETED ON APRIL 4, 2018.

**ZONING REQUIREMENTS**

C3 - COMMERCIAL 3  
NO AQUIFER/WATER RESOURCE PROTECTION ZONE

**DIMENSIONAL REQUIREMENTS:**

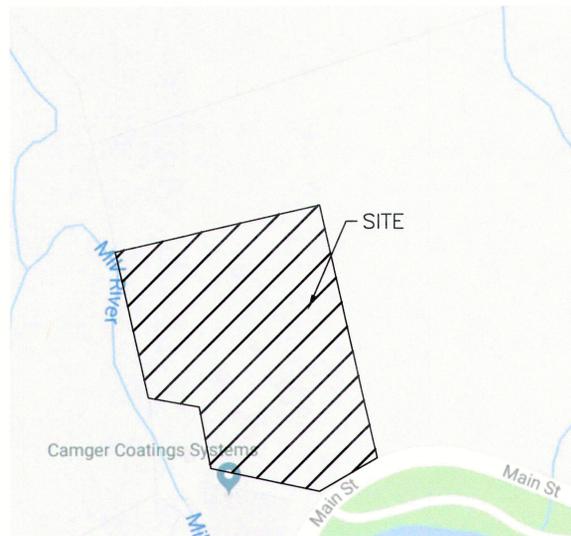
|  | REQUIREMENT | PROPOSED    |
|--|-------------|-------------|
| MINIMUM LOT AREA                               | 30,000 SF   | 270,320 SF  |
| MINIMUM FRONTAGE                               | 150 FT      | 151 FT      |
| MINIMUM FRONT YARD                             | 50 FT       | >50 FT      |
| MINIMUM SIDE YARD                              | 25 FT       | 100 FT      |
| MINIMUM SIDE YARD (RESIDENTIAL) <sup>(A)</sup> | 150 FT      | 150 FT      |
| MINIMUM REAR YARD                              | 25 FT       | 335 FT      |
| MAXIMUM LOT COVERAGE (BLDG)*                   | 30%         | 8.2%        |
| MAXIMUM LOT COVERAGE (BLDG+PARKING)            | 60%         | 17.8%       |
| MAXIMUM BUILDING HEIGHT                        | 40 FT       | 26 FT - 11N |

<sup>(A)</sup> IN THE C2, C3 AND C5 DISTRICTS, MINIMUM BUILDING SETBACK SHALL BE NO LESS THAN 150 FT. FROM A RESIDENTIAL DISTRICT AND PARKING AREAS/ACCESS WAYS/DRIVE WAYS SHALL BE NO LESS THAN 50 FT. FROM A RESIDENTIAL DISTRICT. (SEE SECTION D.1.e.2 IN THE NORFOLK ZONING BYLAWS).

\* INCLUDING ACCESSORY BUILDINGS

**PARKING REQUIREMENTS**

MANUFACTURING SPECIFICALLY ALLOCATED FOR SHIPPING/RECEIVING: 1 SPACE PER 500 SF USEABLE FLOOR AREA  
USEABLE FLOOR AREA: TOTAL SF. - UN-USEABLE SF.  
20,000 SF - 1,241 SF. = 18,759 SF.  
18,759 SF/500 = 38 PARKING SPACES  
+2 HANDICAP PARKING SPACES  
=40 TOTAL PARKING SPACES REQUIRED  
42 PARKING SPACES PROVIDED



**LOCUS MAP**  
1" = 350'

**GENERAL NOTES:**

- EXISTING PROPERTY LINE, UTILITY, AND TOPOGRAPHIC INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY ALLEN ENGINEERING & ASSOCIATES INC., COMPLETED ON APRIL 4, 2018
- THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
- THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

**OPEN SPACE CALCULATION:**

PROPOSED BUILDINGS: 22,052 S.F.  
PROPOSED PAVEMENT: 35,171 S.F.  
TOTAL LOT COVERAGE: 22,052 S.F. + 35,171 S.F. = 57,223 S.F.

TOTAL AREA OF PARCEL: 270,320 S.F.  
TOTAL OPEN SPACE: 270,320 S.F. - 57,223 S.F. = 213,097 S.F.  
TOTAL OPEN SPACE: 213,097 S.F. / 270,320 S.F. = 0.79



| REVISION | DATE     | DESCRIPTION |
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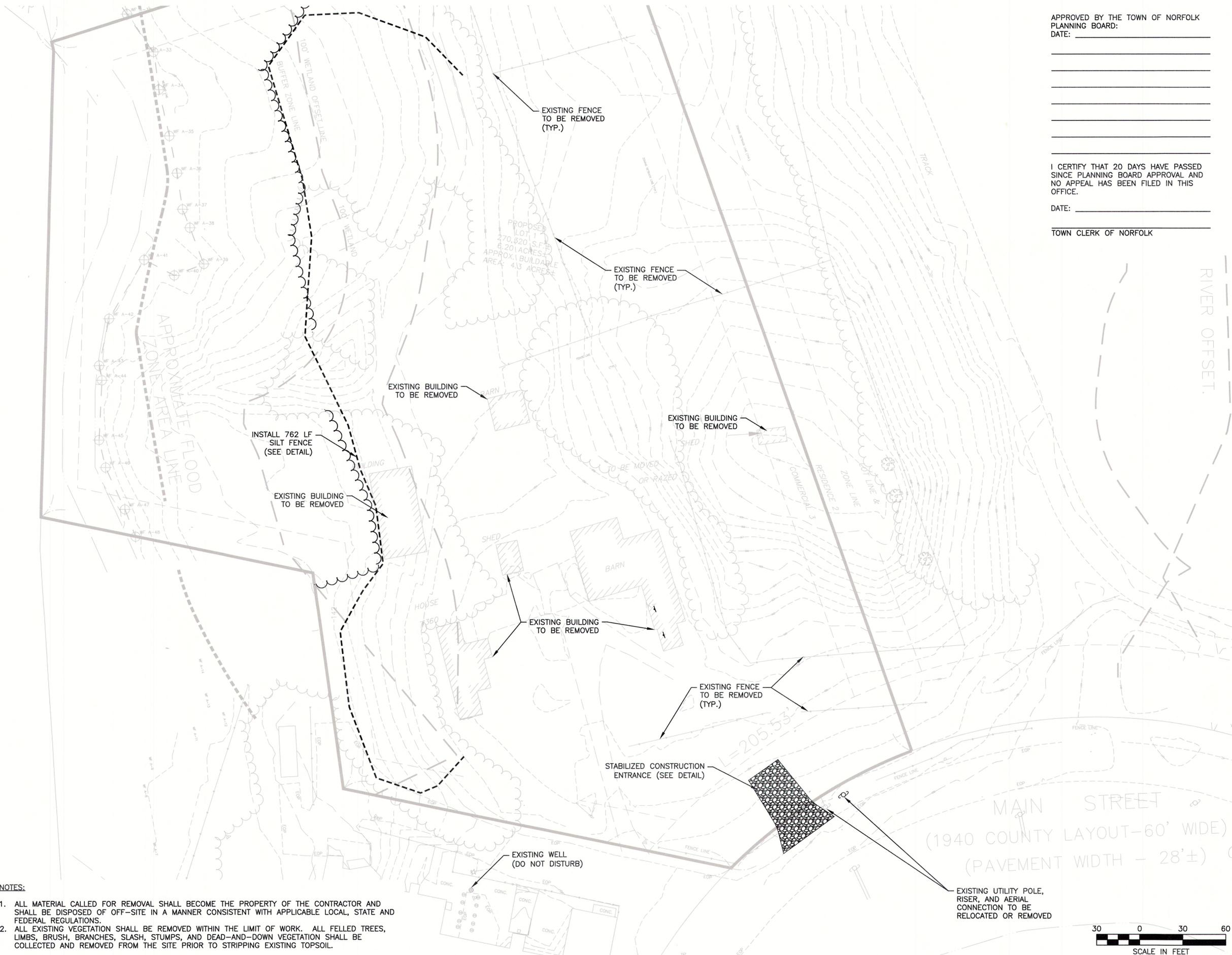
**CLIENT**  
**CAMGER COATINGS SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

**PROJECT TITLE**  
**NEW BUILDING**

**DRAWING TITLE**  
**TITLESHEET**

| LAST MODIFICATION | ARCHITECT | PROCESS  | CONTROLS    |
|-------------------|-----------|----------|-------------|
| 12/06/19          |           |          |             |
| 12/06/19          |           |          |             |
| SCALE             | DRAWN BY  | CHK'D BY | APPROVED BY |
| N.A.              | PRK       |          |             |

**CLIENT SIGNATURE** \_\_\_\_\_  
**DRAWING NO.**  
**1811**  
**T0-00**  
**19068 COVER AND DETAILS.DWG**



- NOTES:**
1. ALL MATERIAL CALLED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE IN A MANNER CONSISTENT WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
  2. ALL EXISTING VEGETATION SHALL BE REMOVED WITHIN THE LIMIT OF WORK. ALL FELLED TREES, LIMBS, BRUSH, BRANCHES, SLASH, STUMPS, AND DEAD-AND-DOWN VEGETATION SHALL BE COLLECTED AND REMOVED FROM THE SITE PRIOR TO STRIPPING EXISTING TOPSOIL.

APPROVED BY THE TOWN OF NORFOLK  
PLANNING BOARD:  
DATE: \_\_\_\_\_

\_\_\_\_\_  
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I CERTIFY THAT 20 DAYS HAVE PASSED  
SINCE PLANNING BOARD APPROVAL AND  
NO APPEAL HAS BEEN FILED IN THIS  
OFFICE.

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

TOWN CLERK OF NORFOLK



PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.

17 A STREET BURLINGTON, MA 01803  
PHONE: (781) 221 0123 FAX: (781) 221 7212

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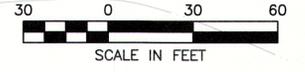
CLIENT  
**CAMGER COATINGS  
SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**DEMOLITION AND EROSION  
CONTROL PLAN**

| LAST MODIFICATION | ARCHITECT | PROCESS | CONTROLS |
|-------------------|-----------|---------|----------|
|                   |           |         |          |
|                   |           |         |          |
|                   |           |         |          |
|                   |           |         |          |

|  |                             |
|--|-----------------------------|
| CLIENT SIGNATURE                           | DRAWING NO.<br><b>C0-00</b> |
| SPEC PROJECT NO.<br><b>1811</b>            |                             |
| CAD FILE NAME<br><b>19068-SITEPLAN.DWG</b> |                             |



12/23/2019 11:06:58 CURRENT 19068-SitePlan.dwg  
Matthew Baker

M:\19068\CURRENT



**GRADING AND DRAINAGE NOTES:**

- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER HOWARD STEIN HUDSON, NOR ANY OTHER EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. REFER TO THE CONSTRUCTION SEQUENCE ON C6-00.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECTS LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- PROPOSED RIM ELEVATIONS OF DRAINAGE STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- ANY SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN EROSION CONTROL S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER), UNLESS OTHER SPECIFIED.
- ALL DRAINAGE AND SANITARY STRUCTURES INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. CATCH BASINS SHALL HAVE 4' DEEP SUMPS WITH GREASE HOODS, UNLESS OTHER NOTED.
- ALL DRAINAGE STRUCTURES SHALL BE PRECAST, UNLESS OTHERWISE SPECIFIED. SEE DETAIL SHEETS FOR DRAINAGE DETAILS.
- IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE STRAW WATTLE IS NOT REQUIRED.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY ALL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE EPA SWPPP DURING CONSTRUCTION OPERATIONS.
- ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING.
- SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- CONSTRUCTION VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION. IF THE INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC. SEDIMENT SHALL BE REMOVED FROM ALL SEDIMENT BASINS BEFORE THEY ARE 25% FULL.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEDED NECESSARY BY ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- ALL EXISTING CATCH BASINS ON SITE SHALL BE FITTED WITH HOODS, IF NOT ALREADY PRESENT, WHERE POSSIBLE.
- THE BOARD SHALL CONDUCT AN INSPECTION OF THE PREPARED INFILTRATION BASIN BOTTOM DURING CONSTRUCTION TO CONFIRM THE CONSISTENCY OF THE SOILS AND ESTIMATED SEASONAL GROUNDWATER ELEVATION WITH THAT DOCUMENTED ON THE PLANS AND UTILIZED IN THE HYDROLOGIC CALCULATIONS.

PRELIMINARY DEEP HOLE TESTING  
9-17-2019  
SOIL EVALUATOR: KATIE ENRIGHT

TP1 E.L.= 147.0  
0"-12" A L 104R 4/3  
12"-32" B SL 104R 6/6  
32"-96" C SL 104R 6/3  
96"-132" C FINE SAND 104R 6/3  
NO ESHW  
NO WATER  
NO MOTTLES  
HARD IN PLACE 50% COBBLES <6", MOST <4"

TP2 E.L.= 147.0  
0"-17" A L  
17"-35" B SL  
35"-103" C 40% GRAVELLY SL  
103"-150" C MEDIUM S  
NO ESHW

TP3 E.L.= 155.4  
0"-15" A FILL  
15"-22" B FILL  
22"-45" C FILL  
45"-48" OLD A SL 104R 4/3  
48"-65" OLD B SL 104R 4/6  
65"-93" OLD C SL 104R 7/2  
93"-108" OLD C LS  
NO ESHW  
NO WATER  
50% COBBLES <6"  
BET HOUSE/FALLEN BARN

TP4 E.L.= 156.2  
0"-73" A FILL  
73"-80" A FILL  
80"-90" B FILL  
90"-144" C FSL  
NO ESHW

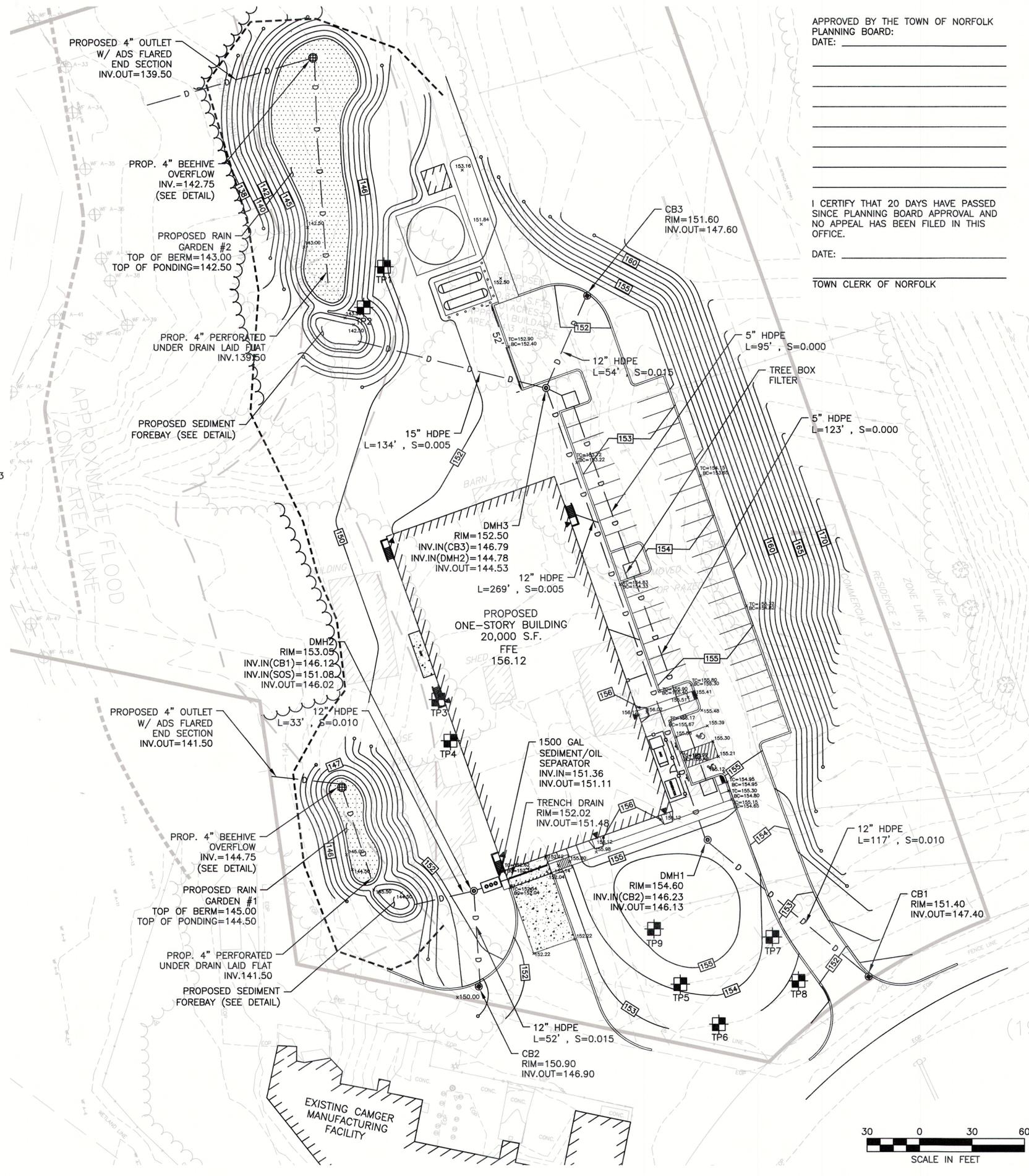
TP5 E.L.= 154.0  
0"-10" A 104R 4/3  
10"-33" B 104R 4/6  
20"-33" BW 104R 6/4  
33"-94" C GRAVELLY LS 104R 6/3  
NO ESHW  
80% COBBLES <6"  
LEDGE @ 94"  
PERC @ 66"

TP6 E.L.= 153.0  
0"-33" A FILL  
33"-45" A FILL  
45"-53" B FILL  
53"-72" C LS 104R 6/2  
72"-126" C FLS 104R 6/4  
ESHW @ 82" 104R 5/8  
WEPPING @ 119"  
PERC 88" SHELF  
15" DEEP  
12 152  
9 208  
6 227 7MPI

TP7 E.L.= 154.3  
0"-20" A FILL  
20"-27" A FILL  
27"-47" B FILL  
47"-86" C FSL  
86"-132" C GRAVELLY SL  
NO ESHW  
COBBLES <6"

TP8 E.L.= 153.0  
0"-82" A FILL  
82"-130" C SL 104R 4/3  
ESHW @ 82"  
BTM @ 130"  
STANDING WATER @ 124"  
WEPPING @ 118"

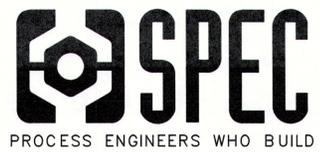
TP9 E.L.= 155.8  
0"-6" A FILL  
6"-20" B FILL  
20"-40" C FINE SAND 104R 6/3  
40"-140" C GRAVELLY LS  
NO ESHW  
PERC @ 62" SHELF 18" DEEP  
12 342  
9 351  
6 405  
>5MPI  
FILL TOWARDS RIVER



APPROVED BY THE TOWN OF NORFOLK  
PLANNING BOARD:  
DATE: \_\_\_\_\_

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SINCE PLANNING BOARD APPROVAL AND  
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TOWN CLERK OF NORFOLK



PROCESS ENGINEERS WHO BUILD  
SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.  
17 A STREET BURLINGTON, MA 01803  
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12/23/19



PROJECT NORTH

| REVISION | DATE | DESCRIPTION |
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CLIENT  
**CAMGER COATINGS SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

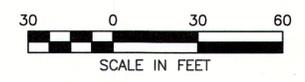
PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**GRADING AND DRAINAGE PLAN**

|                   |           |            |            |
|-------------------|-----------|------------|------------|
| LAST MODIFICATION | ARCHITECT | PROCESS    | CONTROLS   |
| CREATED           | ENGINEER  | ELECTRICAL | MECHANICAL |
| SCALE             | DRAWN BY  | PM         | ARCHITECT  |

CLIENT SIGNATURE \_\_\_\_\_ DRAWING NO. **C2-00**  
SPEC PROJECT NO. **1811**  
CAD FILE NAME **19068-SITEPLAN.DWG**

NOTE:  
EXISTING SURVEY SHOWS VARYING 1 AND 2 FOOT CONTOURS THROUGHOUT THE SITE.  
PROPOSED GRADING SHOWS ○ REPRESENTING ASSUMED LOCATION OF 1 FOOT CONTOUR TIE IN.



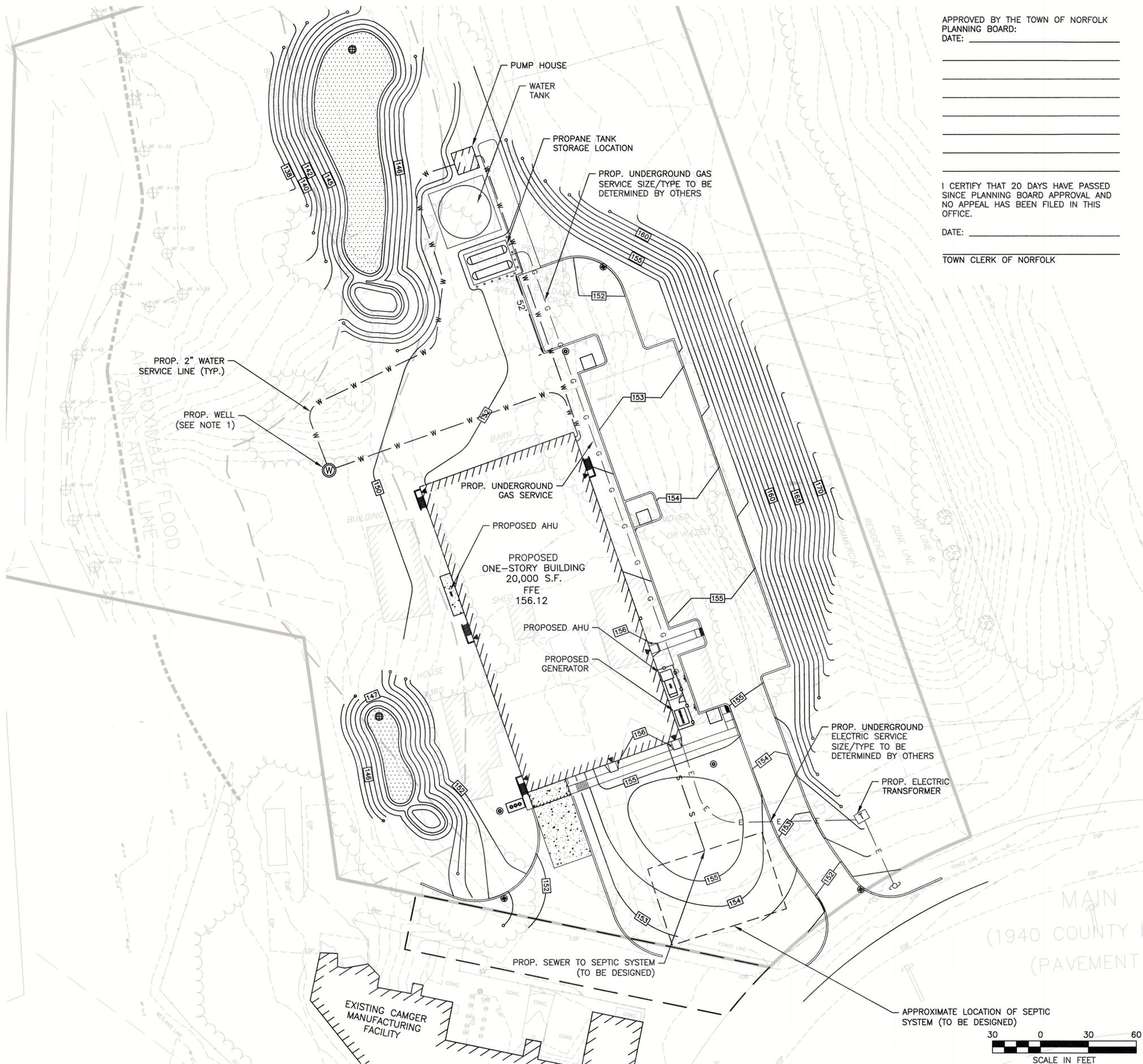
SCALE IN FEET

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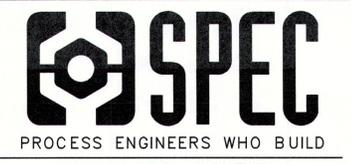
MA19068CURRENT

**UTILITY NOTES:**

1. WELL LOCATION AND PLACEMENT TO BE DETERMINED BY OTHERS.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES, AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
3. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED UTILITY SERVICES SHALL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, WATER, AND SEWER).
4. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE OWNER, ENGINEER, ARCHITECT, CONTRACTOR, LOCAL OFFICIALS, AND ALL PROJECT-RELATED UTILITY COMPANIES (PUBLIC AND PRIVATE) PRIOR TO START OF CONSTRUCTION.
5. BUILDING TO BE SERVICED BY UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
7. AS-BUILT PLANS SHALL BE SUBMITTED TO ALL MUNICIPAL DEPARTMENTS SPECIFIED BY CONDITIONS OF APPROVAL.
8. CONTRACTOR SHALL PLACE 2" WIDE METAL WIRE IMPREGNATED RED PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
9. ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
10. PROPOSED RIM ELEVATIONS OF DRAINAGE AND SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, AND OTHER UTILITIES TO FINISH GRADE AS SHOWN ON THE GRADING AND DRAINAGE PLAN.
11. WATER MAINS SHALL BE HYDROSTATICALLY PRESSURE TESTED FOR LEAKAGE PRIOR TO ACCEPTANCE.
12. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
13. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR UTILITY RELATED ITEMS TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SHOULD BE SENT IN TRIPLICATE TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
14. EXISTING UTILITIES SHALL BE DIGSAFED AND PRIVATE UTILITY LOCATOR SERVICES SHOULD BE UTILIZED PRIOR TO CONSTRUCTION.
15. ALL FIRE SUPPRESSION WATER LINES SHALL HAVE TESTABLE BACKFLOW PREVENTERS AT THE ENTRANCE TO EACH BUILDING.
16. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOWS AND THOSE INTERRUPTIONS SHALL BE LIMITED TO LOCAL SEWER DEPARTMENT REGULATIONS.
17. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
18. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO USERS AT ALL TIMES. REQUIREMENTS BY THE TOWN WATER DEPARTMENT REGARDING NOTIFICATION FOR INTERRUPTION OF SERVICE SHOULD BE INCLUDED (TYPICALLY 24 HOURS) AND ALLOWABLE INTERRUPTION DURATION. WATER TESTING AND DISINFECTION REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.



APPROVED BY THE TOWN OF NORFOLK  
 PLANNING BOARD:  
 DATE: \_\_\_\_\_  
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 I CERTIFY THAT 20 DAYS HAVE PASSED  
 SINCE PLANNING BOARD APPROVAL AND  
 NO APPEAL HAS BEEN FILED IN THIS  
 OFFICE.  
 DATE: \_\_\_\_\_  
 \_\_\_\_\_  
 TOWN CLERK OF NORFOLK



17 N. STREET BURLINGTON, MA 01803  
 PHONE: (781) 221 0123 FAX: (781) 221 7212  
**CONFIDENTIAL**  
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**HOWARD STEIN HUDSON**  
 114 Turnpike Road, Suite 2C  
 Chelmsford, MA 01824  
 www.hshassoc.com



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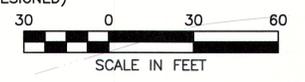
CLIENT  
**CAMGER COATINGS  
 SYSTEMS INC.**  
 364 MAIN STREET  
 NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**UTILITY  
 PLAN**

|                   |           |            |            |
|-------------------|-----------|------------|------------|
| LAST MODIFICATION | ARCHITECT | PROCESS    | CONTROLS   |
| CREATED           | ENGINEER  | ELECTRICAL | MECHANICAL |
| SCALE             | DRAWN BY  | DATE       | ARCHITECT  |

CLIENT SIGNATURE \_\_\_\_\_ DRAWING NO. **C3-00**  
 SPEC PROJECT NO. **1811**  
 CAD FILE NAME **19068-SITEPLAN.DWG**



12/23/2019 11:50:06 AM CURRENT\19068-SitePlan.dwg  
 Matthew Baker

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PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.

17 'A' STREET BURLINGTON, MA 01803  
PHONE: (781) 221-0123 FAX: (781) 221-7212

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APPROVED BY THE TOWN OF NORFOLK  
PLANNING BOARD:  
DATE: \_\_\_\_\_

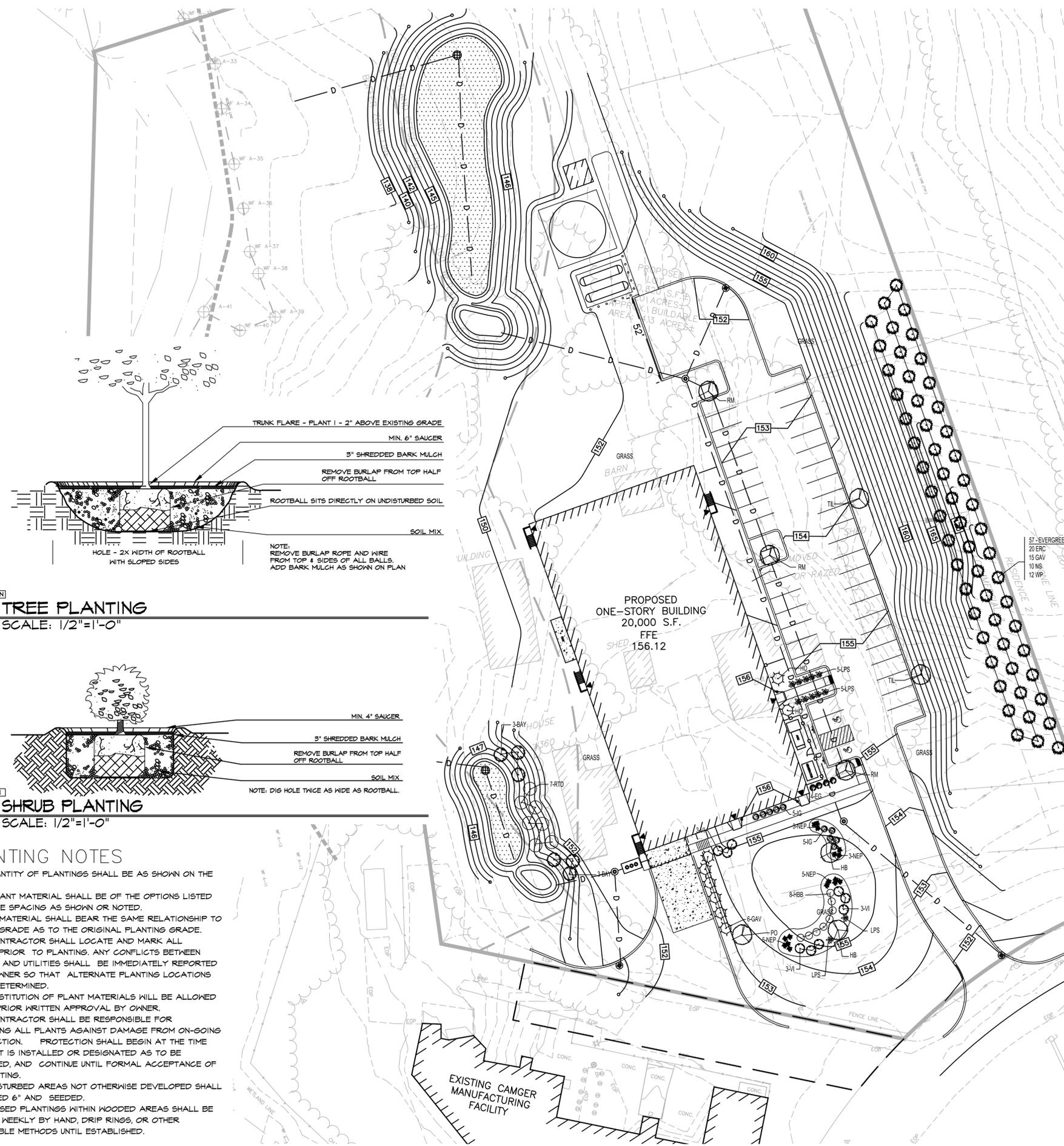
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SINCE PLANNING BOARD APPROVAL AND  
NO APPEAL HAS BEEN FILED IN THIS  
OFFICE.

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

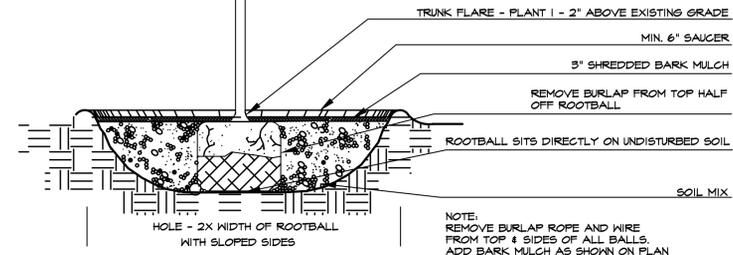
TOWN CLERK OF NORFOLK

**Plant Schedule**

| Qty                | Key | Botanical Name                    | Common Name               | Size      |
|--------------------|-----|-----------------------------------|---------------------------|-----------|
| <b>TREES:</b>      |     |                                   |                           |           |
| 2                  | HB  | Betula nigra 'Heritage'           | Heritage Birch            | 2-2.5'cal |
| 1                  | PO  | Quercus paulstris                 | Pin Oak                   | 2-2.5'cal |
| 3                  | RM  | Acer rubrum 'Red Sunset'          | Red Sunset Maple          | 2-2.5'cal |
| 2                  | TIL | Tilia cordata 'Greenspire'        | Greenspire Linden         | 2-2.5'cal |
| <b>EVERGREENS:</b> |     |                                   |                           |           |
| 20                 | ERC | Juniperus virginiana              | Eastern Red Cedar         | 6'        |
| 21                 | GAV | Thuja x plicata 'Green Giant'     | Green Giant Arborvitae    | 6'        |
| 10                 | NS  | Picea abies                       | Norway Spruce             | 6'        |
| 12                 | WP  | Pinus strobus                     | White Pine                | 6'        |
| <b>SHRUBS:</b>     |     |                                   |                           |           |
| 6                  | BAY | Myrica pensylvanicum              | Northern Bayberry         | 2-3'      |
| 4                  | EG  | Thuja occidentalis 'Smaragd'      | Emerald Green Arborvitae  | 5-6'      |
| 8                  | HBB | Vaccinium corymbosum              | Highbush Blueberry        | 2-3'      |
| 2                  | HO  | Ilex meserve 'Blue Princess'      | Blue Princess Holly       | 3-3.5'    |
| 10                 | IG  | Ilex glabra 'Shamrock'            | Shamrock Inkberry         | 2-2.5'    |
| 12                 | LPS | Spirea japonica 'Little Princess' | Little Princess Spirea    | 18-24"    |
| 7                  | RTD | Cornus alba 'Elegantissima'       | Vargated Red Twig Dogwood | 2-3'      |
| 9                  | VI  | Viburnum plicatum 'Maries'        | Doublefile Viburnum       | 3-4'      |
| <b>PERENNIALS:</b> |     |                                   |                           |           |
| 16                 | NEP | Nepeta                            | Catmint                   | 1gal      |

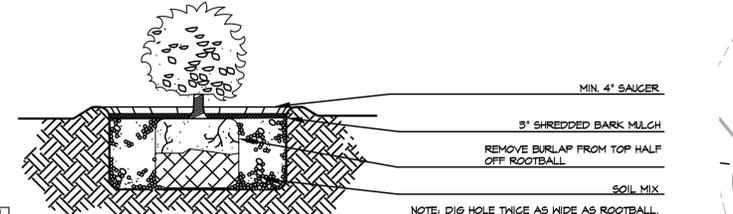


**SECTION 3 TREE PLANTING**  
L-1 SCALE: 1/2"=1'-0"



NOTE: REMOVE BURLAP ROPE AND WIRE FROM TOP & SIDES OF ALL BALLS. ADD BARK MULCH AS SHOWN ON PLAN.

**SECTION 2 SHRUB PLANTING**  
L-1 SCALE: 1/2"=1'-0"



NOTE: DIG HOLE TWICE AS WIDE AS ROOTBALL.

**PLANTING NOTES**

1. THE QUANTITY OF PLANTINGS SHALL BE AS SHOWN ON THE PLAN
2. ALL PLANT MATERIAL SHALL BE OF THE OPTIONS LISTED AND IN THE SPACING AS SHOWN OR NOTED.
3. PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE.
4. THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES PRIOR TO PLANTING. ANY CONFLICTS BETWEEN PLANTING AND UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
5. NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTS AGAINST DAMAGE FROM ON-GOING CONSTRUCTION. PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED OR DESIGNATED AS TO BE PRESERVED, AND CONTINUE UNTIL FORMAL ACCEPTANCE OF ALL PLANTING.
7. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE LOAMED 6" AND SEEDED.
8. PROPOSED PLANTINGS WITHIN WOODED AREAS SHALL BE WATERED WEEKLY BY HAND, DRIP RINGS, OR OTHER ACCEPTABLE METHODS UNTIL ESTABLISHED.



PROJECT NORTH

| REVISION | DATE | DESCRIPTION |
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CLIENT  
**CAMGER COATINGS SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**LANDSCAPE PLAN**

| LAST MODIFICATION | ARCHITECT | PROCESS | CONTROLS |
|-------------------|-----------|---------|----------|
|                   |           |         |          |
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CLIENT SIGNATURE \_\_\_\_\_ DRAWING NO. **C4-00**

SPEC PROJECT NO. **1811**

CAD FILE NAME **19068-SITEPLAN.DWG**



**james k. emmanuel i associates**  
LANDSCAPE ARCHITECTS  
22 Carlton Rd.  
Marblehead, MA 01945  
tel. (781) 622-7487  
james@jamesemmanuel.com  
www.jamesemmanuel.com

# PCPAS/PCPAL SERIES

## Specifications:

### Construction:

Die-cast aluminum with vertical fins for maximum thermal management. Flow through openings to prevent buildup of moisture and debris. Electrical and optical compartments separated to provide increased thermal management. All external hardware is corrosion resistant. All external fasteners are stainless steel.

### Mounting:

Tool-less entry into electrical/wiring compartment; door is removable. Slotted mounting block allows for mounting to various drill patterns, making retrofit simple. Easy slide installation of fixture to mounting block.

### Optics:

One piece optical system that is field replaceable. Specially designed TIR acrylic LED lenses over each LED. Optical system gasket to ensure weatherproof seal around each LED. Optics held in place without use of adhesives. LEDs are 4000K/70 CRI and optical assembly is IP65 rated. PC board held in place to heat sink using screws with no use of thermal grease or adhesive.

### Electrical:

Driver contained in separate electrical compartment installed on removable door and is field replaceable using quick connects. Electrical compartment includes push-button terminal block for AC power connections. 120-277V universal voltage, 50/60Hz with 0-10V dimming capability. Power factor is 0.92 at full load. All electrical components rated at 50,000 hours at full load and 25°C ambient conditions. Thermal feedback between PCB and driver to protect luminaire from excessive temperature by reducing drive current as necessary. Surge protection standard with device providing surge current rating of 20KA using 8/20 pSec wave. LSP clamping voltage of 85V and surge rating of 540.

### Finish:

TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness. Finish is corrosion resistant.

### Listing/Certification:

The luminaire is UL/cUL wet location listed, 3G vibration rated.

### Warranty:

5 year limited warranty covering LED array and LED driver(s).

### Catalog number:

| Series                     | Engine/Wattage           | Color Temp         | Distribution                           | Finish                    | Options  |
|----------------------------|--------------------------|--------------------|--|---------------------------|--|
| PCPAS - Parking/Area Small | 55LED - 24LEDS @ 55W**   | 4K - 4000K, 70 CRI | 2 - Type 2<br>3 - Type 3<br>4 - Type 4 | BZ - Bronze<br>BL - Black | BLANK<br>PC - Photocell<br>BC - Backlight Control<br>WB - Wall Bracket |
|                            | 80LED - 36LEDS @ 80W**   |                    |  |                           |  |
| PCPAL - Parking/Area Large | 136LED - 60LEDS @ 136W** | 4K - 4000K, 70 CRI | 2 - Type 2<br>3 - Type 3<br>4 - Type 4 | BZ - Bronze<br>BL - Black | BLANK<br>PC - Photocell<br>BC - Backlight Control<br>WB - Wall Bracket |
|                            | 135LED - 64LEDS @ 135W** |                    |  |                           |  |
|                            | 180LED - 80LEDS @ 180W** |                    |  |                           |  |
|                            | 235LED - 80LEDS @ 235W** |                    |  |                           |  |

# PCOWC SERIES

LED Wall Packs

## Specifications:

### Features:

- Die-cast aluminum housing and door
- Rugged design protects internal components and provides sufficient thermal management for long life
- 60,000 hours minimum LED life at L90 rating
- Powder paint finish provides lasting appearance in outdoor environments
- Quick mount adapter provides quick installation, designed for recessed box 4" square junction box
- 120 - 277V universal voltage 50/60Hz with a 0-10V dimming driver
- 4000K nominal, 70 CRI
- 20 LED: 1421 Lumens
- 30 LED: 2246 Lumens
- 45 LED: 3096 Lumens

### Application:

The compact PCOWC Series is intended for perimeter illumination for safety, security and identity. The fixture has full cutoff distribution and is neighbor friendly with typical mounting heights up to 12 ft (30LED model) or up to 15 ft (45LED model). Units have a protective polyester finish for long lasting appearance.

### Compliances:

UL 1598 listed for use in wet locations, 40°C ambient environments

### Dimensions:



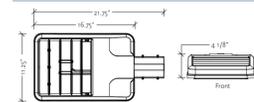
### Catalog number:

| Base  | Lamp                      | Distribution              | Finish             |
|-------|---------------------------|---------------------------|--------------------|
| PCOWC | 13 LED - 5 LED, 13 WATTS  | BLANK - TYPE 3 (STANDARD) | 20 - BRONZE        |
|       | 17 LED - 7 LED, 17 WATTS  |                           | 28 - WHITE         |
|       | 20 LED - 9 LED, 22 WATTS  |                           | 4 - TYPE 4         |
|       | 30 LED - 12 LED, 29 WATTS |                           | 82 - METALLIC GRAY |
|       | 45 LED - 18 LED, 42 WATTS |                           |                    |

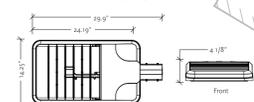
### Images:



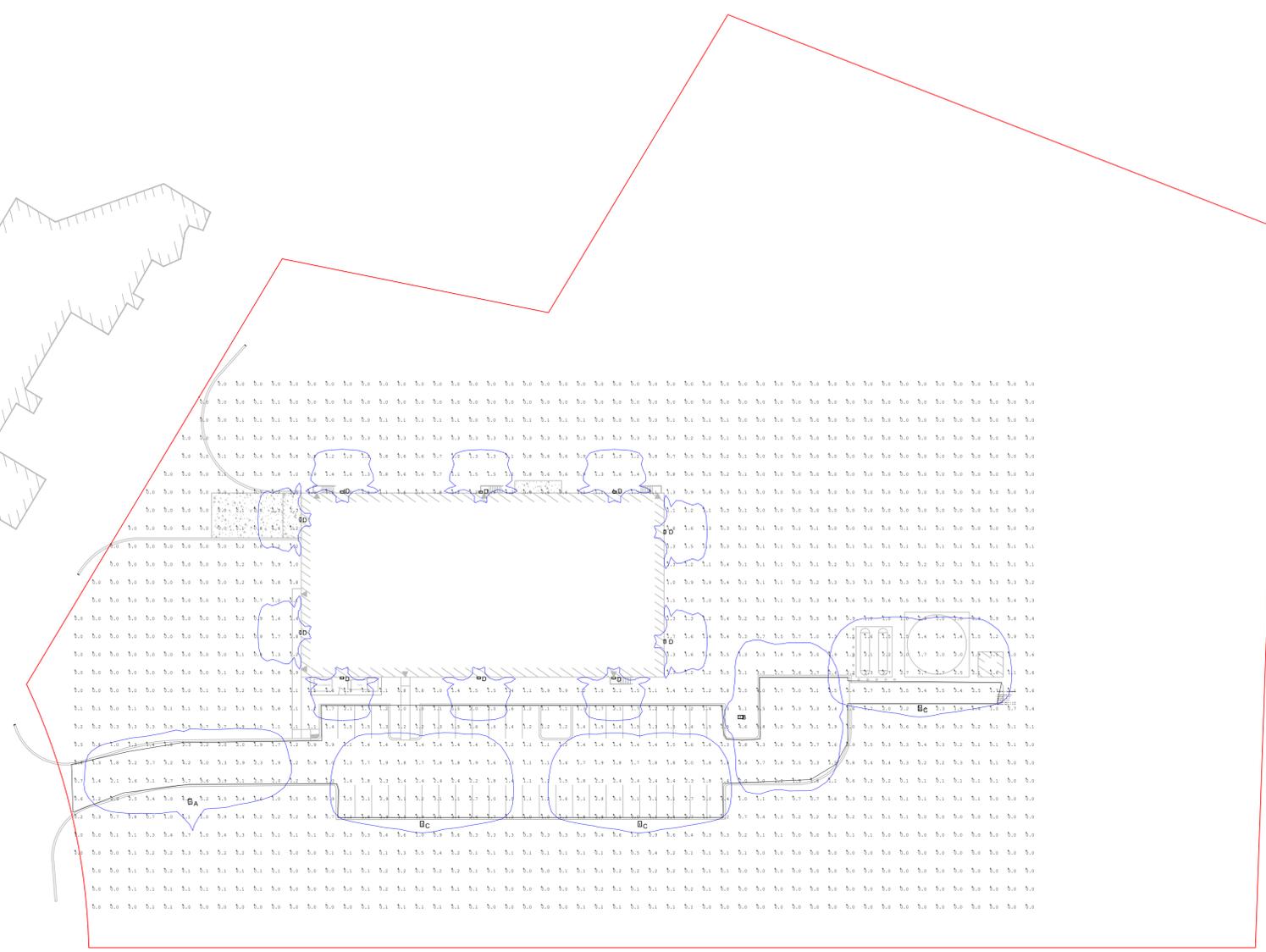
### Dimensions & Mounting



| Engine/Wattage | # of LEDs | Delivered Lumens | Delivered LPW | Drive Current (milliamps) |
|----------------|-----------|------------------|---------------|---------------------------|
| 55             | 24        | 5900-6150        | 110-116       | 700 mA                    |
| 80             | 36        | 8800-9400        | 110-116       | 625 mA                    |
| 136            | 60        | 15470-15640      | 110-116       | 700 mA                    |

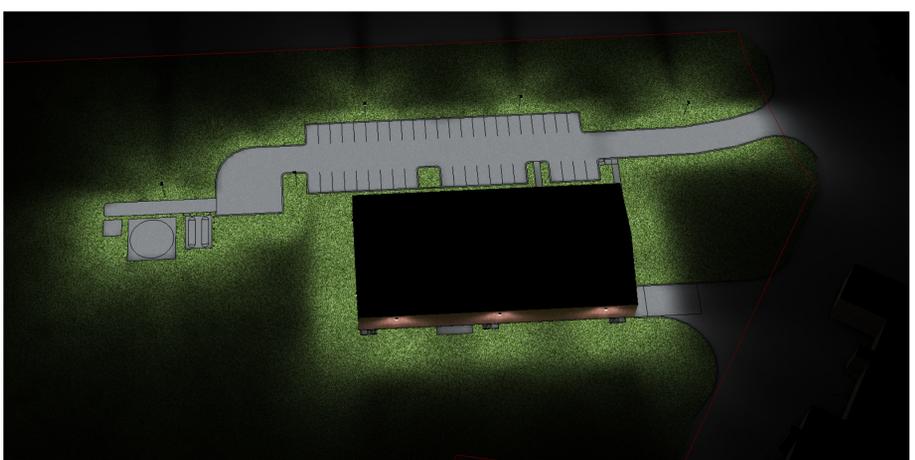


| Engine/Wattage | # of LEDs | Delivered Lumens | Delivered LPW | Drive Current (milliamps) |
|----------------|-----------|------------------|---------------|---------------------------|
| 135            | 64        | 15500-18000      | 115-130       | 625 mA                    |
| 180            | 80        | 19800-22500      | 110-126       | 700 mA                    |
| 235            | 80        | 23800-27400      | 101-119       | 875 mA                    |



| TYPE | QTY | PART NUMBER        | MH  | LUMENS | LLF  | DESCRIPTION                             |
|------|-----|--------------------|-----|--------|------|---|
| A    | 1   | PCPAS-136LED-4K-3  | 20' | 15344  | 0.95 | 136W 4000K TYPE 3 SMALL VIPER POST TOP  |
| B    | 1   | PCPAS-136LED-4K-4  | 20' | 15086  | 0.95 | 136W 4000K TYPE 4 SMALL VIPER POST TOP  |
| C    | 3   | PCPAS-136LED-4K-4W | 20' | 14774  | 0.95 | 136W 4000K TYPE 4W SMALL VIPER POST TOP |
| D    | 10  | PCOWC-30LED-3      | 15' | 2662   | 0.95 | PCOWC-30LED-3                           |

| AREA                 | CALCTYPE    | UNITS | AVG  | MAX | MIN | AVG/MIN | MAX/MIN |
|----------------------|-------------|-------|------|-----|-----|---------|---------|
| SITE                 | Illuminance | Fc    | 0.70 | 6.4 | 0.0 | N.A.    | N.A.    |
| PARKING & DRIVELANES | Illuminance | Fc    | 2.05 | 5.7 | 0.6 | 3.42    | 9.50    |



### General Notes

- THIS LIGHTING DESIGN IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO PROGRESS COMMERCIAL. SITE DETAILS PROVIDED HEREIN ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.
- LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.
- CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE INDICATED

| NO. | REVISION/ISSUE | DATE |
|-----|----------------|------|
|     |                |      |

**PROGRESS LIGHTING COMMERCIAL**

701 MILLENNIUM BLVD, GREENVILLE, SC 29607  
 WWW.PROGRESSLIGHTING.COM  
 APRUITT@PROGRESSLIGHTING.COM  
 864.678.1671

| PROJECT INFORMATION                   |             |
|---------------------------------------|-------------|
| CAMGER<br>NORFOLK MA<br>SITE LIGHTING |             |
| ACCOUNT MANAGER                       | JARED SOUZA |

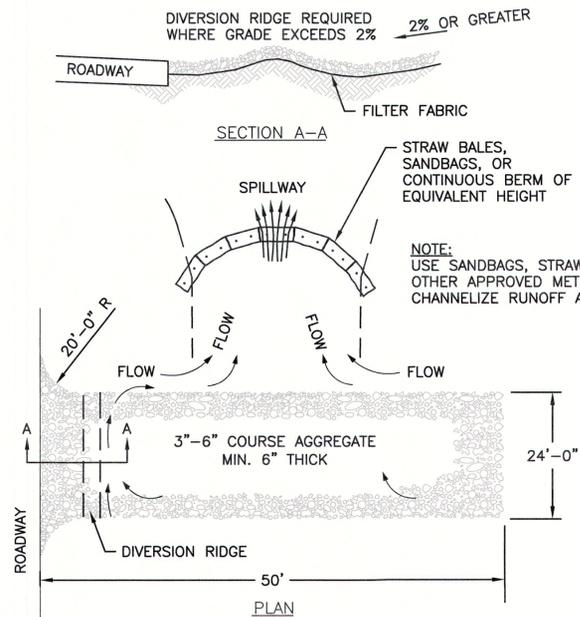
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**EROSION CONTROL NOTES**

1. EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED AND UPGRADED AS NECESSARY DURING CONSTRUCTION BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND INSTALL ADDITIONAL CONTROL MEASURES AS NEEDED DURING CONSTRUCTION.
2. ALL CATCH BASINS RECEIVING DRAINAGE FROM THE PROJECT SITE MUST BE PROVIDED WITH A CATCH BASIN FILTER.
3. STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
4. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED AND REPLACED.
5. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER CITY AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND EROSION AND DUST THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND STREET SWEEPING ADJACENT ROADWAYS.
7. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 21 DAYS AFTER LAND DISTURBANCE ACTIVITIES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZED SOILS WITHIN 14 DAYS OF THE LAST DISTURBANCE.
8. IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE MONTH, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
9. THE CONTRACTOR MUST KEEP ON-SITE AT ALL TIMES ADDITIONAL SILT FENCE, STRAW BALES, AND STRAW WATTLES FOR THE INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CITY TO MITIGATE ANY EMERGENCY CONDITION.
10. THE CONSTRUCTION FENCING AND EROSION AND SEDIMENT CONTROLS AS SHOWN MAY NOT BE PRACTICAL DURING ALL STAGES OF CONSTRUCTION. EARTHWORK ACTIVITY ON-SITE MUST BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO A SEDIMENT CONTROL DEVICE OR INFILTRATED TO THE GROUND.
11. DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
12. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

**GENERAL CONSTRUCTION SEQUENCE**

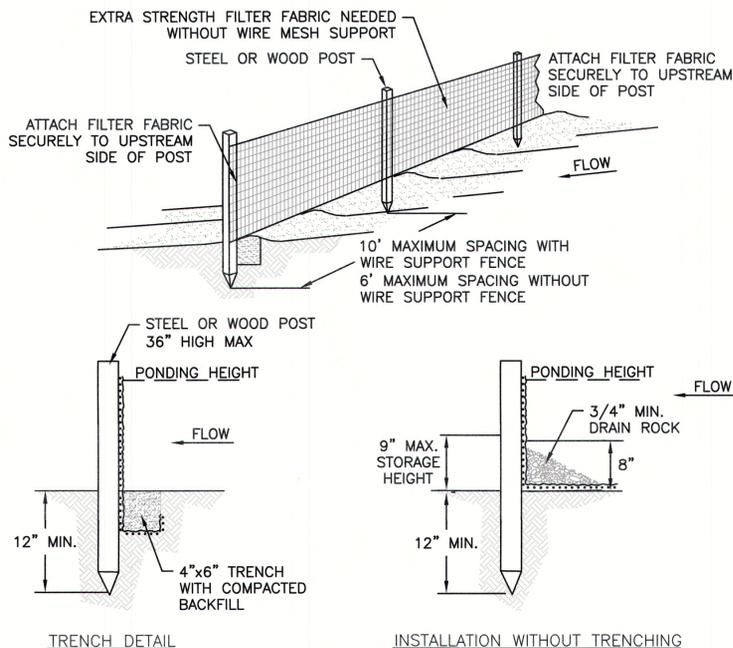
1. INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO STARTING ANY EARTHWORKS ACTIVITY.
2. INSTALL CONSTRUCTION ENTRANCE.
3. MARK LIMIT OF WORK AND TREES TO REMAIN.
4. DEMOLISH EXISTING IMPROVEMENTS AND REMOVE FROM SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
5. BEGIN CLEARING AND GRUBBING.
6. BEGIN UTILITY INSTALLATIONS.
7. CONSTRUCT BUILDING FOUNDATIONS.
8. INSTALL SITE FURNISHINGS.
9. INSTALL PAVEMENT.
10. INSTALL LANDSCAPING.
11. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.



**NOTES:**

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE APPLIED WHERE NECESSARY TO KEEP PUBLIC WAYS FREE OF SEDIMENT INCLUDING STAGING AREAS

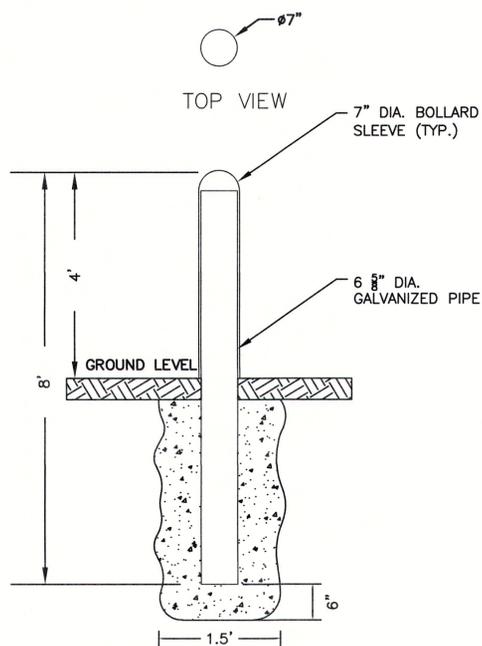
**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**NOTES:**

1. EROSION CONTROL BARRIER (HAY BALES, SILT FENCE OR EROSION STOCK) SHALL BE PLACED AROUND ALL MATERIAL STOCKPILE AREAS AND MAINTAINED AT STAGING AREAS TO ASSURE NO SILTATION ONTO PUBLIC OR PRIVATE WAYS OR PROPERTY.

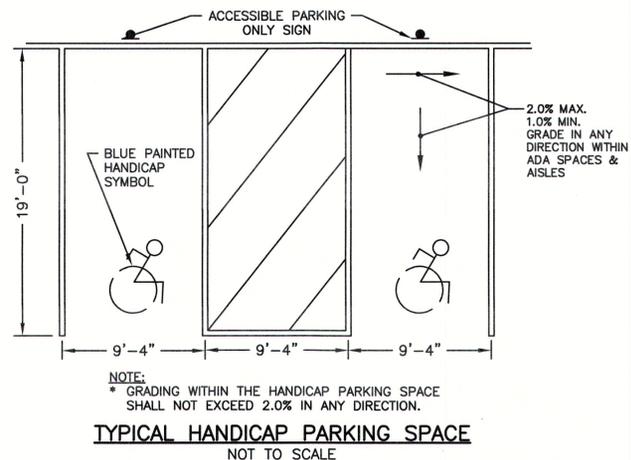
**SILT FENCE BARRIER**  
NOT TO SCALE



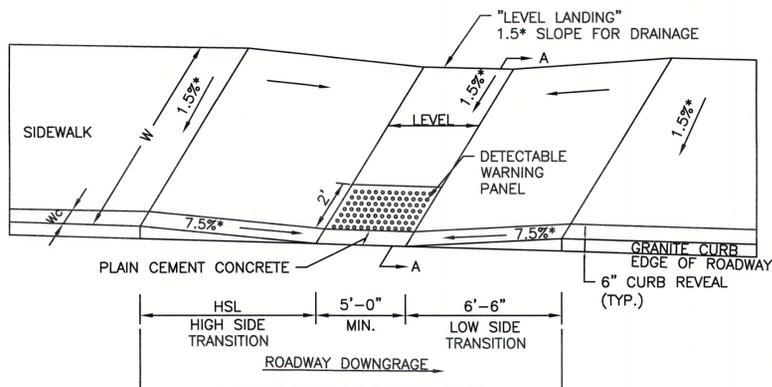
**NOTES:**

1. BOLLARD PIPE TO BE FILLED WITH MINIMUM 3,000 PSI CONCRETE.
2. BOLLARD SLEEVE COLOR SELECTION BY OWNER.

**BOLLARD DETAIL**  
NOT TO SCALE



**TYPICAL HANDICAP PARKING SPACE**  
NOT TO SCALE

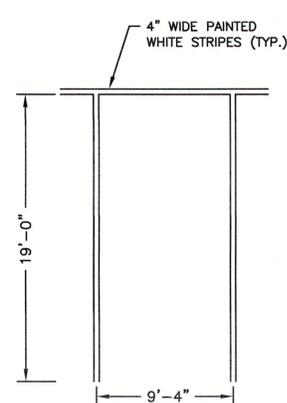


**LEGEND:**

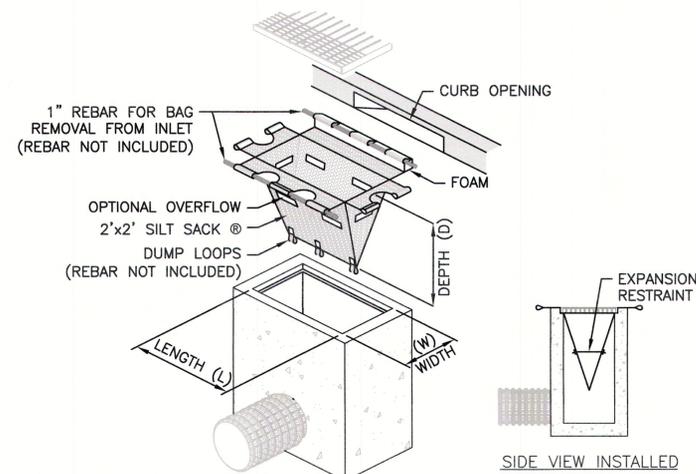
- HSL = HIGH SIDE TRANSITION
- W = SIDEWALK WIDTH
- Wc = CURB WIDTH
- W1 = PERPENDICULAR RAMP LENGTH
- CC = CEMENT CONCRETE
- \* = TOLERANCE FOR CONSTRUCTION ±0.5%

USEABLE SIDEWALK WIDTH PER AAB = W - WC  
RAMP LENGTH = W1 = W - 4'-0" MIN

**WHEELCHAIR RAMPS ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL**  
NOT TO SCALE



**TYPICAL PARKING SPACE**  
NOT TO SCALE



**NOTE:**

1. TEMPORARY INLET PROTECTION TO BE PROVIDED TO ALL EXISTING AND PROPOSED STRUCTURES.

**TEMPORARY INLET PROTECTION**  
NOT TO SCALE

APPROVED BY THE TOWN OF NORFOLK PLANNING BOARD:  
DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
\_\_\_\_\_  
TOWN CLERK OF NORFOLK



SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.  
17 'A' STREET BURLINGTON, MA 01803  
PHONE: (781) 221 0123 FAX: (781) 221 7212

**CONFIDENTIAL**

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**HOWARD STEIN HUDSON**  
114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com



| REVISION | DATE | DESCRIPTION |
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CLIENT: **CAMGER COATINGS SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

PROJECT TITLE: **NEW BUILDING**

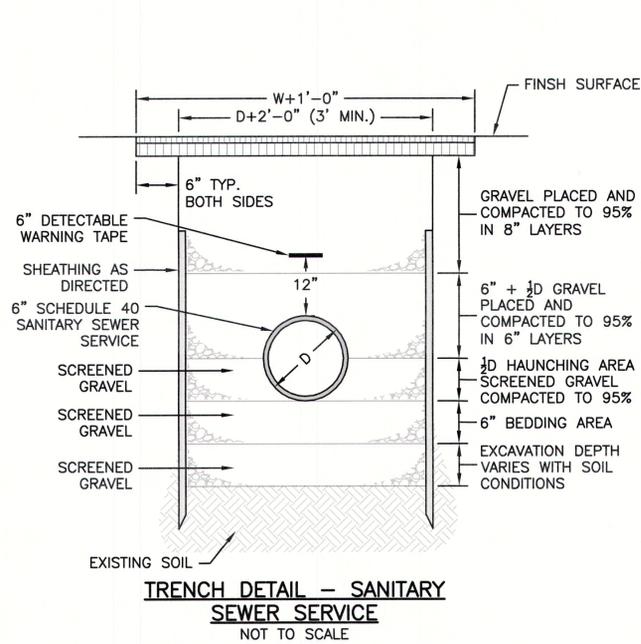
DRAWING TITLE: **DETAIL SHEET 1 OF 5**

| LAST MODIFICATION | ARCHITECT | PROCESS | CONTROLS |
|-------------------|-----------|---------|----------|
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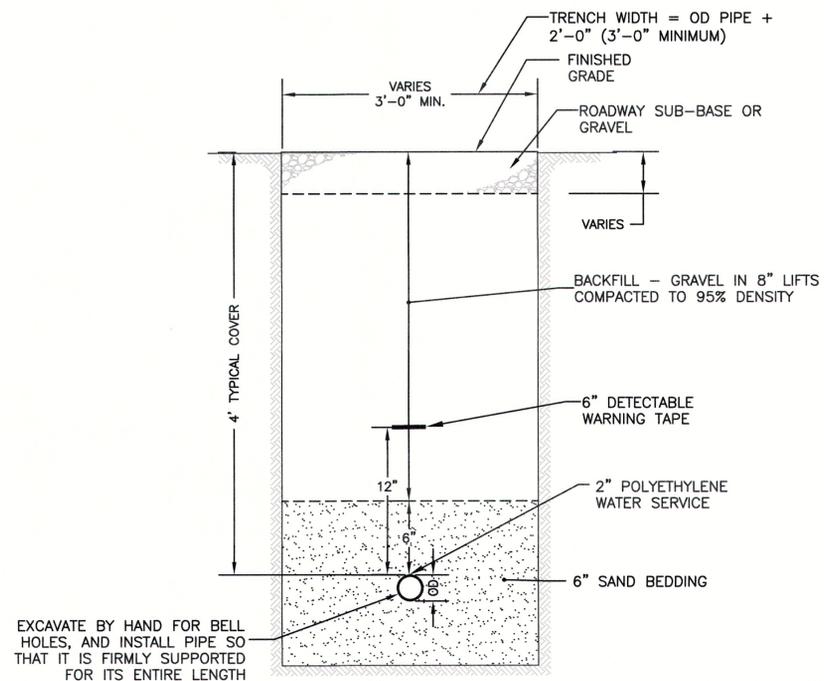
CLIENT SIGNATURE: \_\_\_\_\_ DRAWING NO: **C6-01**  
SPEC PROJECT NO: **1811**  
CAD FILE NAME: **19068 COVER AND DETAILS.DWG**

12/23/2019 11:59:05 AM CURRENT/19068 Cover and Details.dwg Matthew Baker

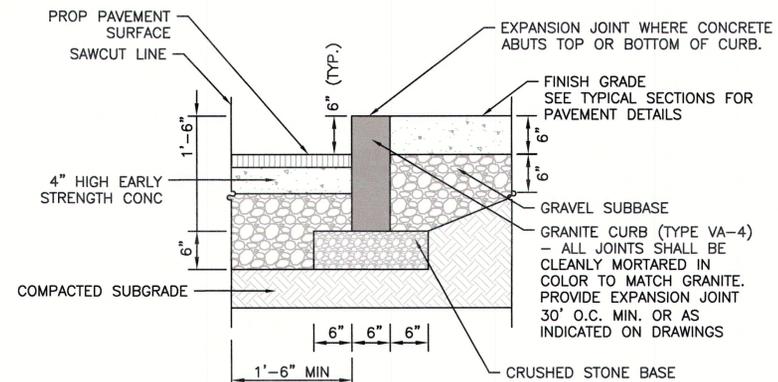
MAT19068/CURRENT



**TRENCH DETAIL - SANITARY SEWER SERVICE**  
NOT TO SCALE

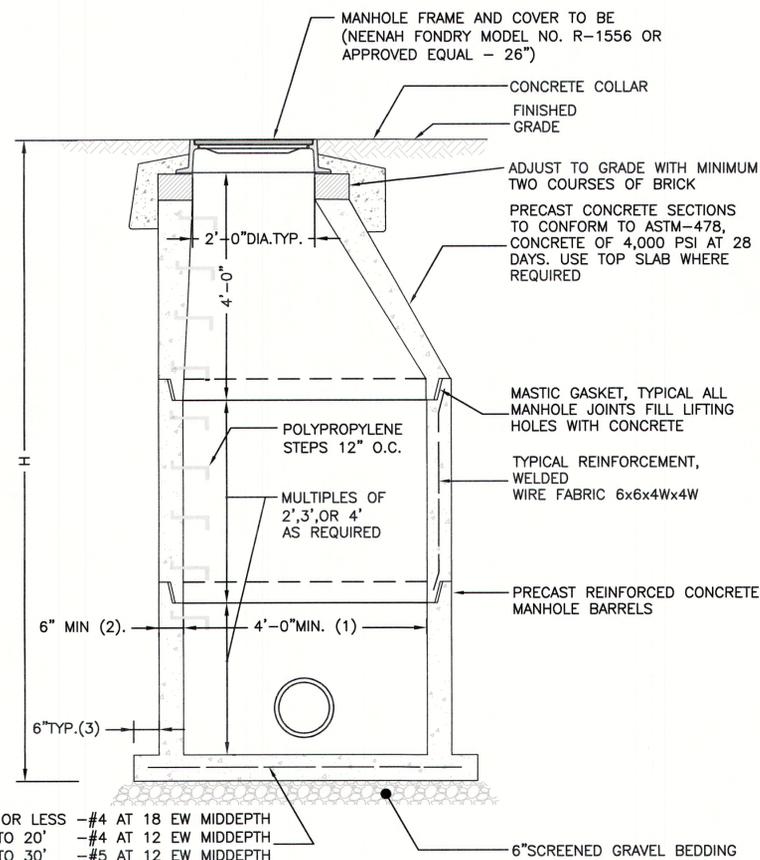


**TRENCH DETAIL - WATER SERVICE**  
NOT TO SCALE



NOTE:  
1. USE 2" BIT. CONC. TOP COURSE ABOVE HIGH EARLY STRENGTH CONCRETE FOR RESETTING CURBS.

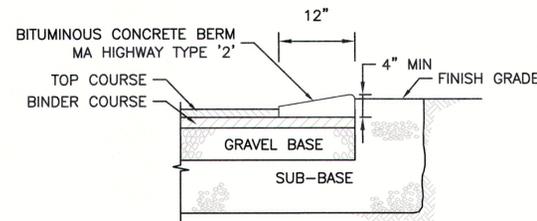
**VERTICAL GRANITE CURB**  
NOT TO SCALE



H= 10' OR LESS -#4 AT 18 EW MIDDEPTH  
H= 10' TO 20' -#4 AT 12 EW MIDDEPTH  
H= 20' TO 30' -#5 AT 12 EW MIDDEPTH  
IN ADDITION TO WELDED WIRE FABRIC

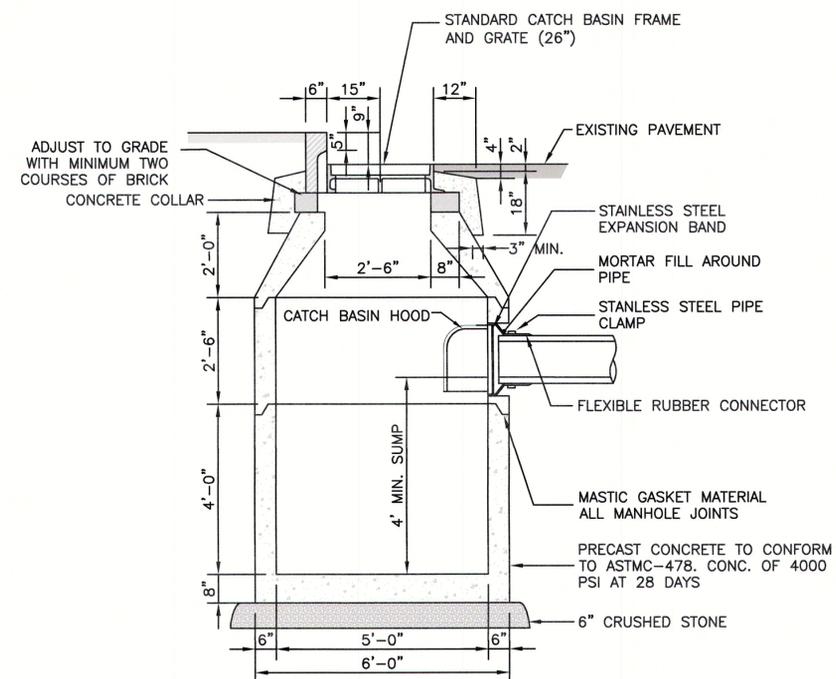
- NOTES:  
1. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.  
2. 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.  
3. 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.

**PRECAST CONCRETE DRAIN MANHOLE**  
NOT TO SCALE



**CAPE COD BERM/CURB**  
NOT TO SCALE

NOTE:  
DETAIL DEVELOPED FROM MASSACHUSETTS DESIGN AND CONSTRUCTION GUIDELINES, DIVISION 32, 32 12 001 ASPHALT PAVING.



NOTES:  
1. ADEQUATE FOR H-20 MINIMUM LOADING.

**CATCH BASIN**  
NOT TO SCALE

APPROVED BY THE TOWN OF NORFOLK PLANNING BOARD:  
DATE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
I CERTIFY THAT 20 DAYS HAVE PASSED SINCE PLANNING BOARD APPROVAL AND NO APPEAL HAS BEEN FILED IN THIS OFFICE.  
DATE: \_\_\_\_\_  
\_\_\_\_\_  
TOWN CLERK OF NORFOLK



PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.

17 'A' STREET BURLINGTON, MA 01803  
PHONE: (781) 221-0123 FAX: (781) 221-7212

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**HOWARD STEIN HUDSON**

114 Turnpike Road, Suite 2C  
Chelmsford, MA 01824  
www.hshassoc.com



PROJECT NORTH

| REVISION | DATE | DESCRIPTION |
|----------|------|-------------|
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CLIENT  
**CAMGER COATINGS SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

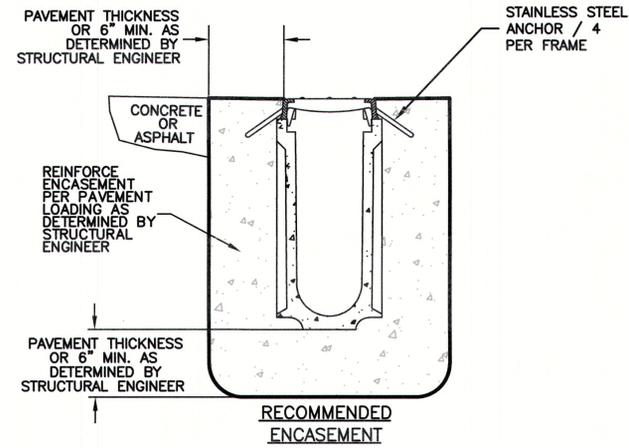
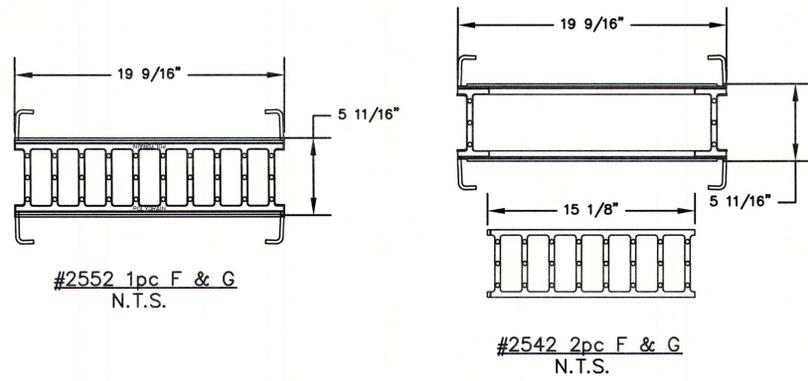
DRAWING TITLE  
**DETAIL SHEET 2 OF 5**

|                   |           |            |            |
|-------------------|-----------|------------|------------|
| LAST MODIFICATION | ARCHITECT | PROCESS    | CONTROLS   |
| CREATED           | ENGINEER  | ELECTRICAL | MECHANICAL |
| SCALE             | DRAWN BY  | DATE       | ARCHITECT  |

CLIENT SIGNATURE: \_\_\_\_\_ DRAWING NO. **C6-02**  
SPEC PROJECT NO. **1811**  
CAD FILE NAME: **19068 COVER AND DETAILS.DWG**

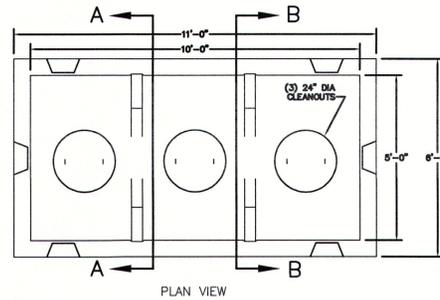
12/23/2019 10:00 AM C:\PROJECTS\19068\Cover and Details.dwg Matthew Baker

MA19068/CURRENT

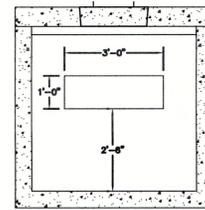


**TRENCH DRAIN DETAIL**  
NOT TO SCALE

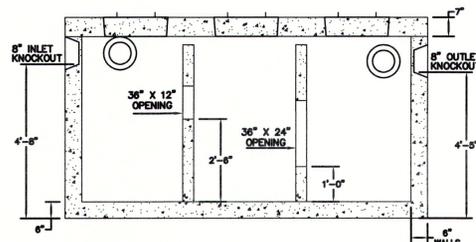
\*TRENCH DRAIN WILL BE ABT A-67 OR APPROVED EQUIVALENT



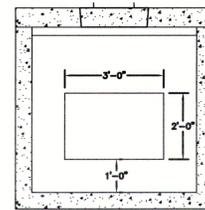
PLAN VIEW



SECTION A-A VIEW



SECTION SIDE VIEW



SECTION B-B VIEW

BAFFLE WALL DETAIL

ITEM: TK-M1500CSEP  
WEIGHT: 24,400LBS

- NOTES:**
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
  2. DESIGNED FOR H-20 LOADING. ALSO AVAILABLE IN H-10 LOADING WITH 3" WALL.
  3. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.

**SHEA** *New England's Premier Precaster*  
CONCRETE PRODUCTS  
800-696-7432 (SHEA)  
www.sheaconcrete.com  
773 Salem Street--Wilmington, MA 153 Cranberry Hwy--Rochester, MA  
87 Haverhill Road--Amesbury, MA 160 Old Turnpike Rd--Nottingham, NH  
Mail to: PO Box 520--Wilmington, MA 01887

Specifications subject to change without notice

SEDIMENT & OIL SEPARATOR  
1500 GALLON TANK (TYPICAL)

APPROVED BY THE TOWN OF NORFOLK  
PLANNING BOARD:  
DATE: \_\_\_\_\_

I CERTIFY THAT 20 DAYS HAVE PASSED  
SINCE PLANNING BOARD APPROVAL AND  
NO APPEAL HAS BEEN FILED IN THIS  
OFFICE.

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

TOWN CLERK OF NORFOLK



PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.  
17 A STREET BURLINGTON, MA 01803  
PHONE: (781) 221 0123 FAX: (781) 221 7212

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R7-8 NO PARKING

LEGEND - GREEN (RETROREFL), WHITE SYMBOL ON BLUE (RETROREFL)  
BACKGROUND - WHITE (RETROREFL)

| A  | B | C    | D     | E   | F   | G   | H   | J     | K     | L   |
|----|---|------|-------|-----|-----|-----|-----|-------|-------|-----|
| 12 | 6 | 3.75 | 4.875 | 1.5 | 1.5 | 1.5 | 1.5 | 1.875 | 3.875 | 1.5 |



**HANDICAP & VAN ACCESSIBLE SIGNS DETAIL**  
NOT TO SCALE



| REVISION | DATE | DESCRIPTION |
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CLIENT  
**CAMGER COATINGS  
SYSTEMS INC.**  
364 MAIN STREET  
NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**DETAIL SHEET  
3 OF 5**

| LAST MODIFICATION | ARCHITECT | PROCESS | CONTROLS |
|-------------------|-----------|---------|----------|
|                   |           |         |          |
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CLIENT SIGNATURE  
SPEC PROJECT NO. 1811  
CAD FILE NAME 19068 COVER AND DETAILS.DWG

DRAWING NO. C6-03







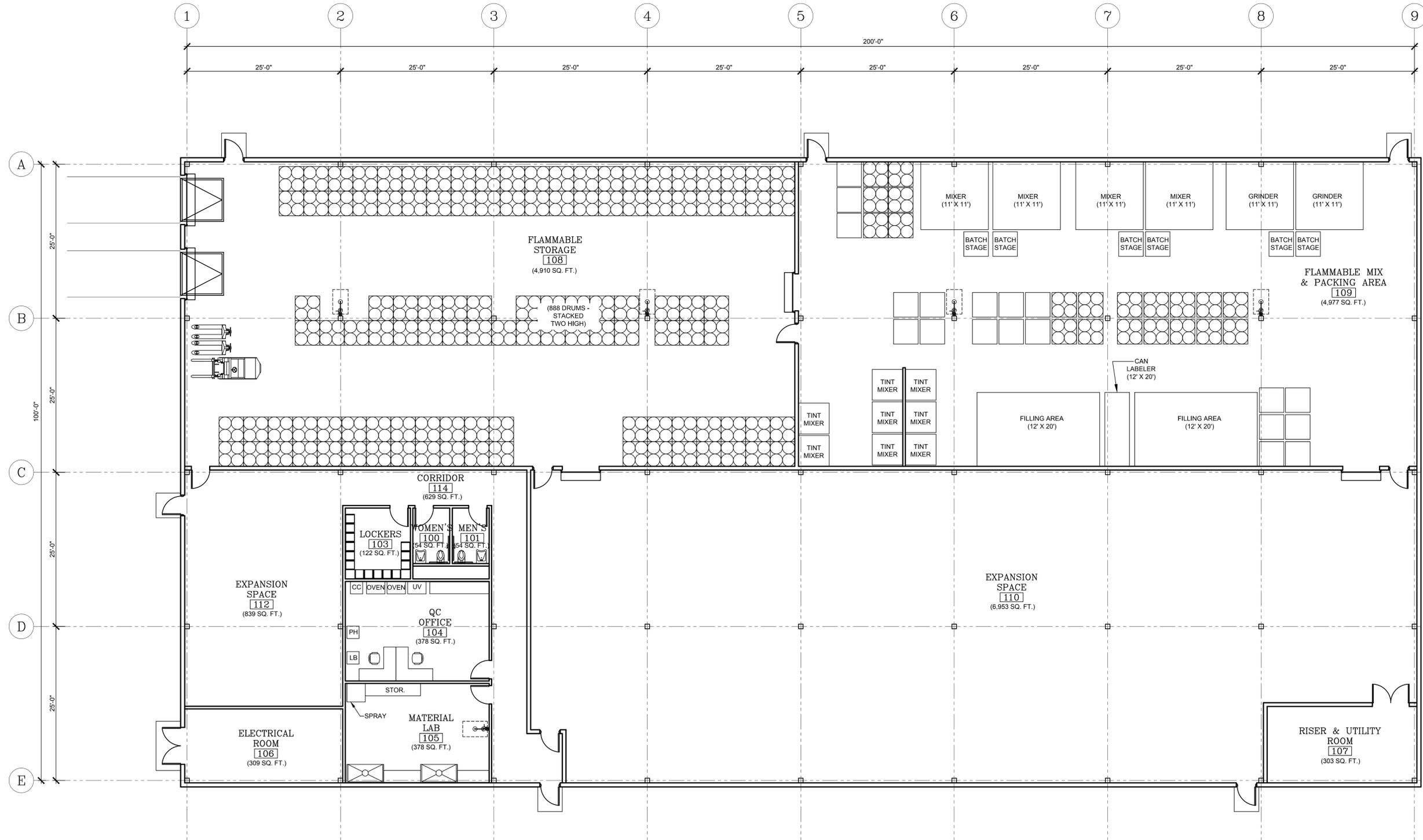
PROCESS ENGINEERS WHO BUILD

SPEC PROCESS ENGINEERING & CONSTRUCTION, INC.

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1 PROPOSED - OVERALL FLOOR PLAN  
SCALE: 1/8" = 1'-0"



| REVISION | DATE     | DESCRIPTION               |
|----------|----------|---------------------------|
| C        | 11/05/19 | REVISED FOR CLIENT REVIEW |
| B        | 06/13/19 | REVISED FOR CLIENT REVIEW |
| A        | 05/31/19 | FOR CLIENT REVIEW         |

CLIENT  
**CAMGER COATINGS SYSTEMS INC.**  
 364 MAIN STREET  
 NORFOLK, MA 02056

PROJECT TITLE  
**FACILITY STUDY**

DRAWING TITLE  
**PROPOSED OVERALL FLOOR PLAN**

| LAST MODIFICATION | ARCHITECT | PROCESS    | CONTROLS   |
|-------------------|-----------|------------|------------|
| 11/05/19          |           |            |            |
| CREATED           | ENGINEER  | ELECTRICAL | MECHANICAL |
| 05/31/19          | ATP       |            |            |
| SCALE             | DRAWN BY  | PM         | ARCHITECT  |
| 1/8" = 1'-0"      | PRK PRK   |            |            |

CLIENT SIGNATURE \_\_\_\_\_ DRAWING NO. **SKA-07**  
 SPEC PROJECT NO. 1751.01  
 CAD FILE NAME SKA-07.DWG

P:\CAMGER COATINGS\1811 - NEW BUILDING STUDY\ACAD\ARCH\SKETCHES



PROCESS ENGINEERS WHO BUILD

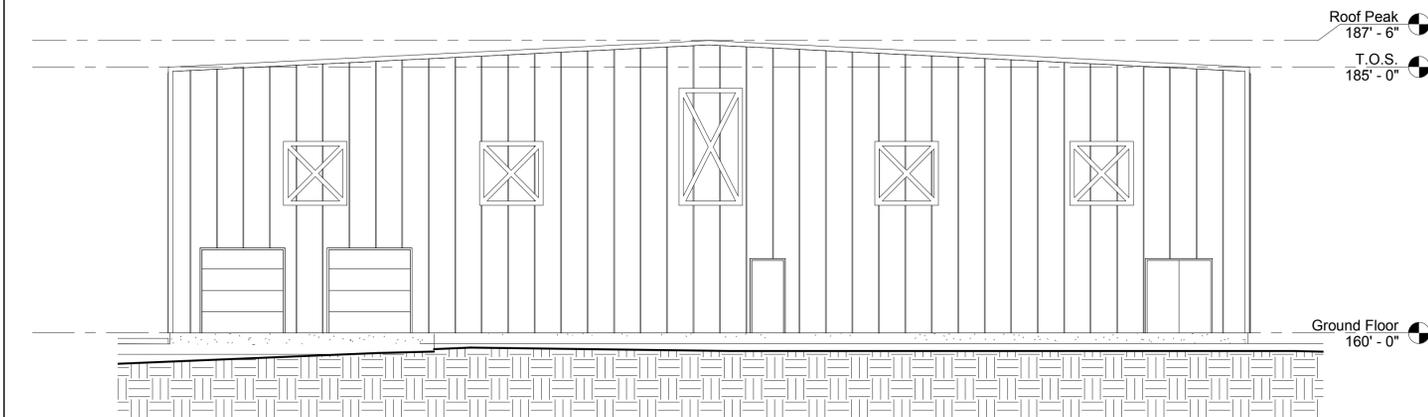
SPEC PROCESS ENGINEERING & CONSTRUCTION

17 "A"  
PHONE: (781) 221

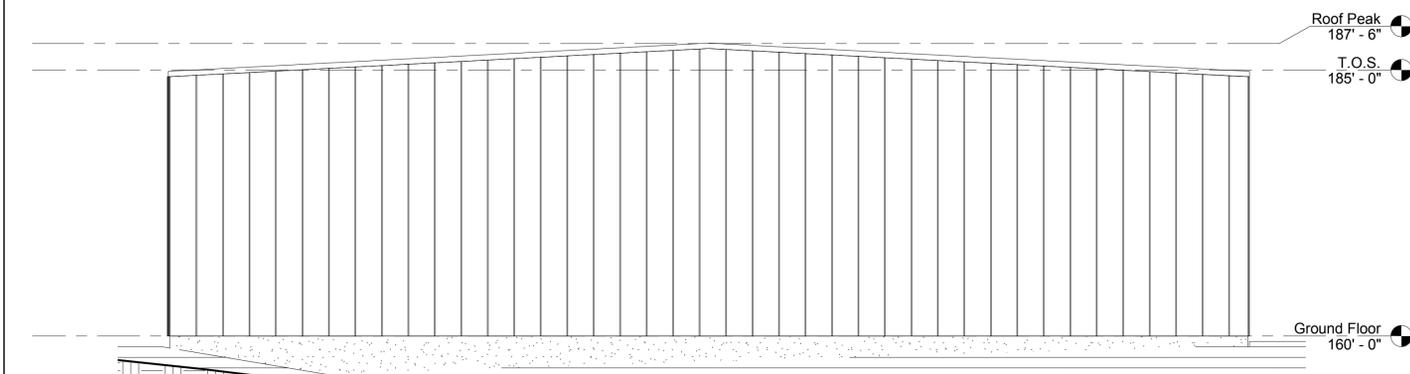
BURLINGTON, MA  
FAX: (781) 221

**CONFIDENTIAL**

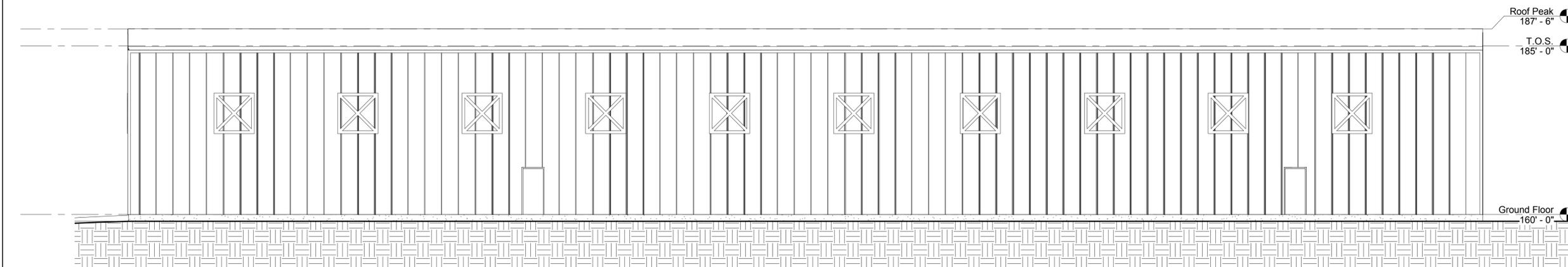
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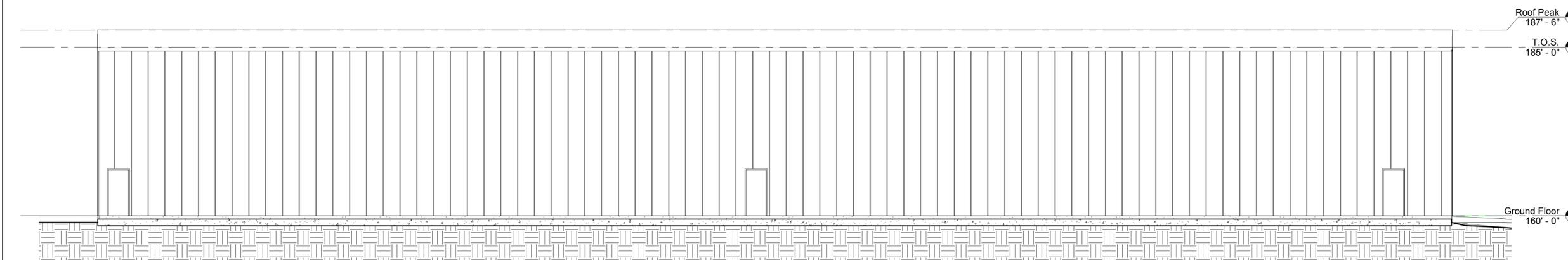
1 NORTH ELEVATION - FRONT VIEW  
1/8" = 1'-0"



2 SOUTH ELEVATION - REAR VIEW  
1/8" = 1'-0"



3 EAST ELEVATION - SIDE VIEW  
1/8" = 1'-0"



4 WEST ELEVATION - SIDE VIEW  
1/8" = 1'-0"

| REV | DATE     | DESCRIPTION |
|-----|----------|-------------|
| A   | 12/09/19 | FOR PERMIT  |

CLIENT  
**CAMGER COATINGS SYSTEMS INC.**  
 360 MAIN STREET  
 NORFOLK, MA 02056

PROJECT TITLE  
**NEW BUILDING**

DRAWING TITLE  
**PROPOSED EXTERIOR ELEVATIONS**

|                       |                  |                        |
|-----------------------|------------------|------------------------|
| LAST<br>12/06/19      | ARCHITECT<br>PRK | ENGINEERING<br>ATP     |
| DATE<br>12/09/19      | ENGINEER<br>ATP  | PROJECT MANAGER<br>PRK |
| SCALE<br>1/8" = 1'-0" | DRAWN BY<br>PRK  | CLIENT<br>PRK          |

|  |                              |
|--|------------------------------|
| CLIENT PROJECT NO.<br>1811   | DRAWING NO.<br><b>SKA-11</b> |
| SPEC PROJECT NO.<br>1811   |                              |
| CAD FILE NAME<br>P:\Camger Coatings\ACAD_XREFS\Norfolk_MA\New Building\Study\Revit\Camger New Building.dwg |                              |