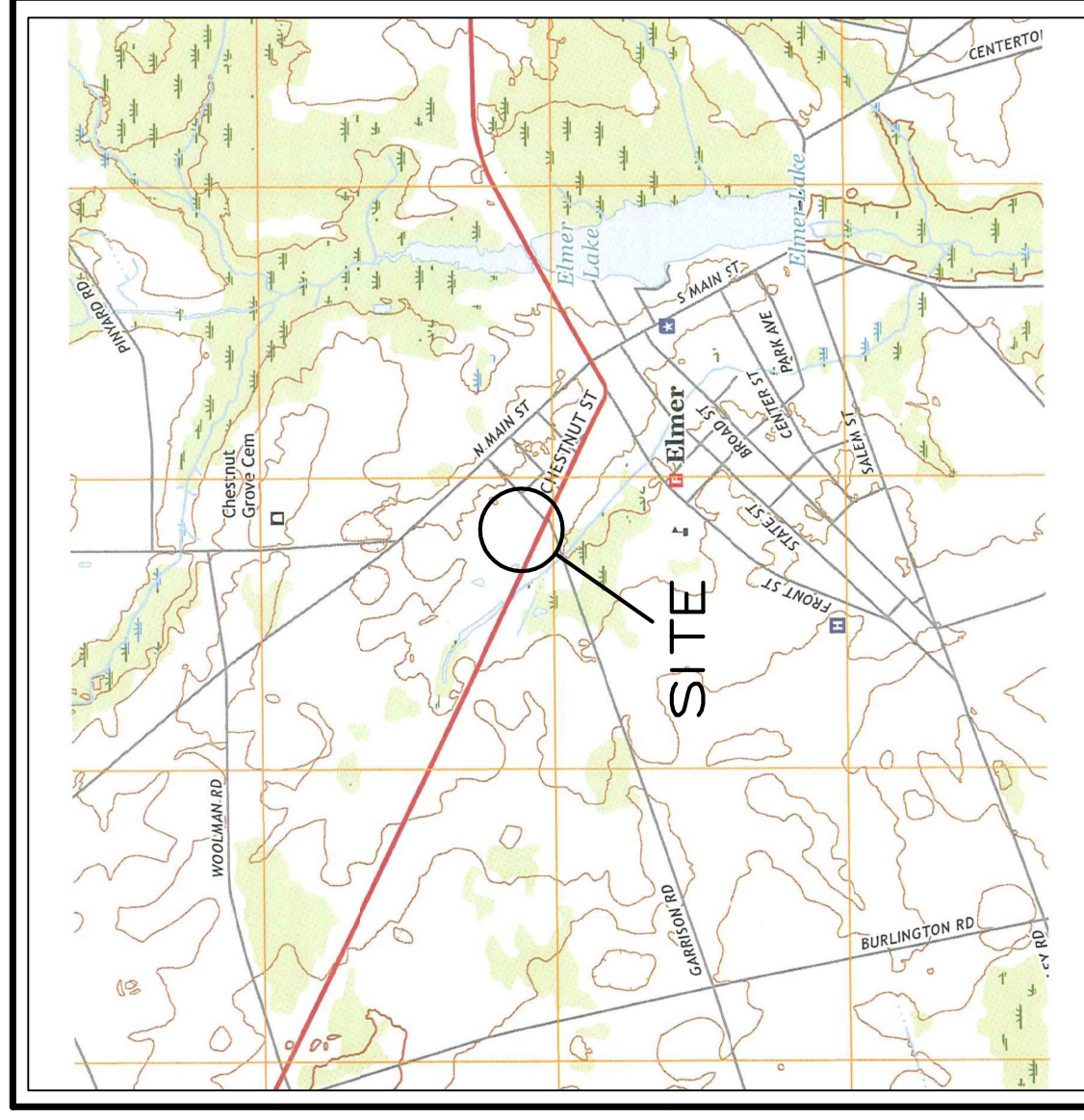
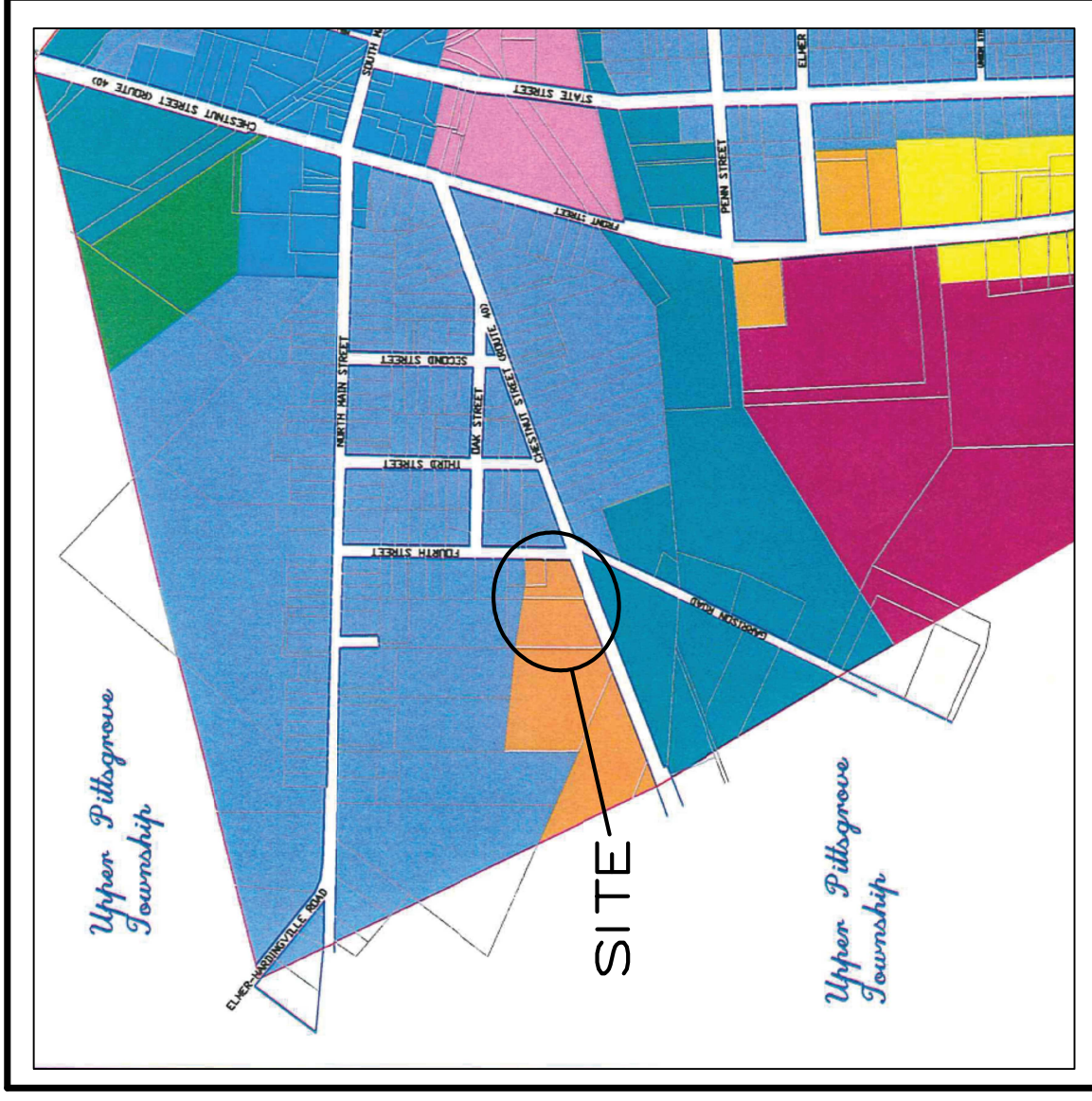


TAX MAP



USGS QUADRANGLE



ZONING MAP

# SITE PLAN

FOR

## 415 CHESTNUT STREET

### LOTS 31, 32 BLOCK 3

### BOROUGH OF ELMER

### SALEM COUNTY, NJ

**SITE INFORMATION**

**TAX MAP IDENTIFICATION:**  
 LOTS: 31 & 32  
 BLOCK: 3  
 PLATE: 2

**OWNER NAME & ADDRESS:**  
 K & M REAL ESTATE, LLC  
 103 COVENTRY LANE  
 WOOLWICH TWP, NJ 08085

**APPLICANT NAME & ADDRESS:**  
 ROGER ANDERSON & ROGER ANDERSON  
 409 N MAIN ST  
 ELMER, NJ 08318

I HEREBY CERTIFY THAT I AM THE OWNER OF RECORD OF THE SITE HEREIN DEPICTED AND THAT I CONCUR WITH THE PLAN(S).

PROPERTY OWNER: \_\_\_\_\_ DATE \_\_\_\_\_

**SHEET INDEX**

| SHEET NUMBER | SHEET DESCRIPTION                        |
|--------------|--|
| 1            | TITLE SHEET                              |
| 2            | PLAN OF EXISTING CONDITIONS & DEMOLITION |
| 3            | SITE PLAN                                |
| 4            | DRAINAGE DIVIDE PLAN                     |
| 5            | LANDSCAPING PLAN                         |
| 6            | LIGHTING PLAN                            |
| 7            | SOIL EROSION PLAN                        |
| 8            | SOIL EROSION DETAILS & NOTES             |
| 9            | DETAIL SHEET                             |
| 10           | DETAIL SHEET                             |
| 11           | DETAIL SHEET                             |
| 12           |  |
| 13           |  |
| 14           |  |
| 15           |  |
| 16           |  |
| 17           |  |
| 18           |  |
| 19           |  |
| 20           |  |
| 21           |  |
| 22           |  |
| 23           |  |
| 24           |  |
| 25           |  |

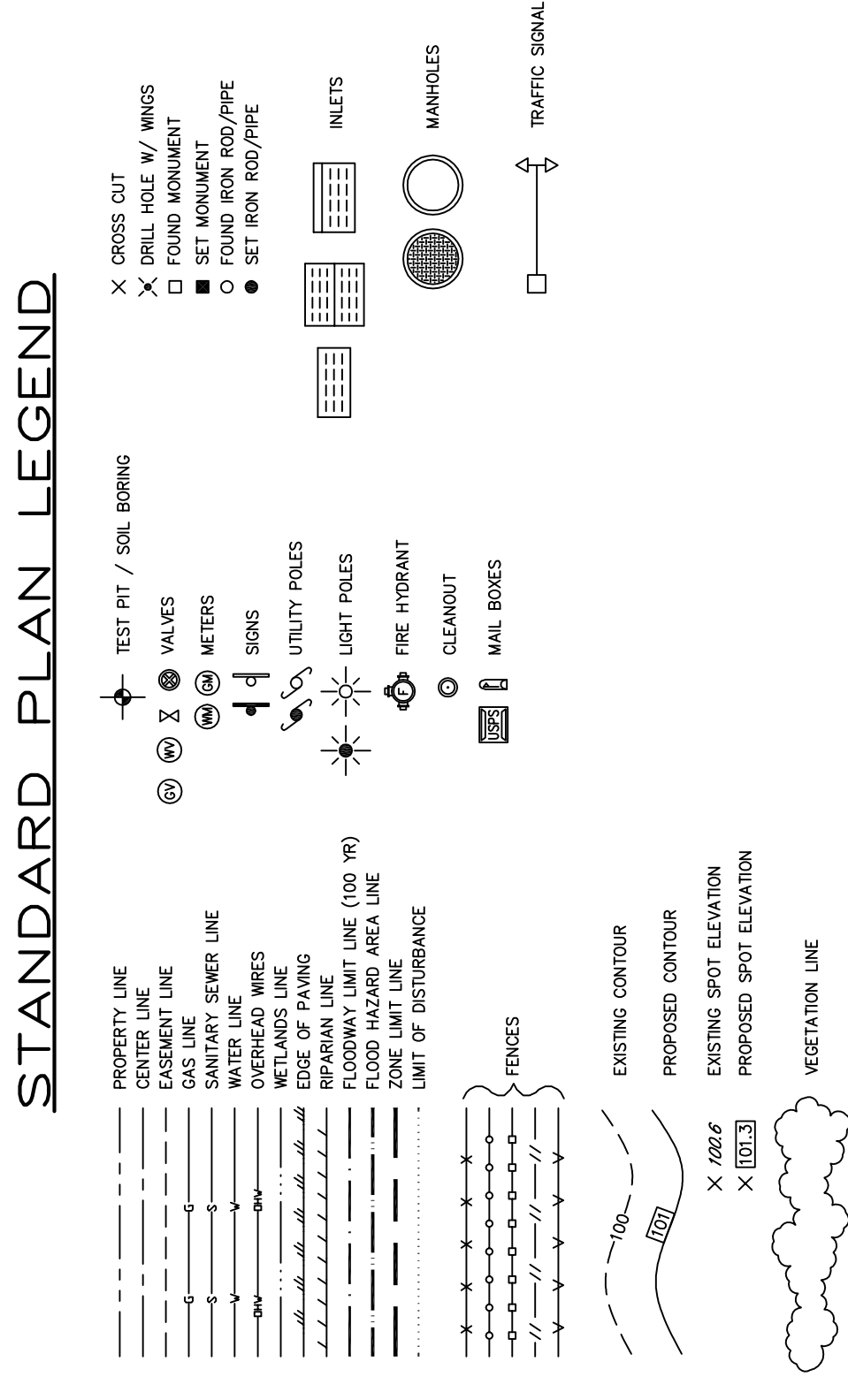
**BOROUGH OF ELMER PLANNING BOARD**

APPLICATION NO. \_\_\_\_\_

PLANNING BOARD PLANNER \_\_\_\_\_ (DATE) \_\_\_\_\_

PLANNING BOARD CHAIRMAN \_\_\_\_\_ (DATE) \_\_\_\_\_

PLANNING BOARD SECRETARY \_\_\_\_\_ (DATE) \_\_\_\_\_



**200 FOOT LIST**

08/10/18 Page 1 of 1

| BLOCK | LOT | OWNER                           | CLAS  | PROPERTY LOCATION | ADD 1 | ADD 2 |
|-------|-----|---------------------------------|-------|-------------------|-------|-------|
| 3     | 14  | ELMER NJ                        | 2     | 420 N MAIN ST     |       |       |
| 3     | 26  | BOYDICK, LEIGH S & BARBARA A    | 08318 | 86 FORTH ST       |       |       |
| 3     | 27  | ROBINSON, THOMAS B & DOROTHY J  | 08318 | 101 FORTH ST      |       | 28    |
| 3     | 29  | ADLER, DOROTHY                  | 08318 | 106 FORTH ST      |       |       |
| 3     | 30  | JOHNSON, ROBERT H & LYNN M      | 08318 | 107 FORTH ST      |       |       |
| 7     | 1   | LEWIS, DONNA S                  | 08318 | 316 CHESTNUT ST   |       | 2     |
| 7     | 3   | ELMER NJ                        | 08318 | 311 CHESTNUT ST   |       |       |
| 7     | 9   | LUCIANO, BARBARA A              | 08318 | 206 OAK ST        |       |       |
| 10    | 3   | CONNER, WALTER J                | 08318 | 400 CHESTNUT ST   |       |       |
| 11    | 4   | MAHEW, KELSEY HELENA & ERIC LEE | 08318 | 318 CHESTNUT ST   |       |       |

**H. C. E. & S., LLC**  
 CONSULTING ENGINEERS  
 Engineers • Land Surveyors • Planners

601 Asbury Avenue  
 National Park, NJ 08063  
 Phone: (856) 853-7306  
 Fax: (856) 853-7381

CERTIFICATE OF AUTHORIZATION NO. 24627943500

**TITLE SHEET**  
 FOR  
 415 CHESTNUT STREET  
 LOT(S): 31, 32 & PART OF 33  
 BLOCK: 3, PLATE 2  
 BOROUGH OF ELMER  
 SALEM COUNTY, NEW JERSEY

CLIENT: ROGER ANDERSON  
 DRAWN: FAS  
 SCALE: NONE  
 SHEET: 1 OF 11  
 JOB#: C-18018

**REVISIONS**

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 10/19/18 | PER COMPLETENESS REVIEW |
| 2     | 11/27/18 | PER ENGINEER'S LETTER   |
| 3     | 11/27/18 | PER COUNTY SOIL LETTER  |
| 4     | 3/6/20   | PER ENGINEER'S LETTER   |

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 33968  
 Date 3/6/20

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 04202  
 Date 3/6/20

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 12076  
 Date 3/6/20

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 42340  
 Date 3/6/20

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 61357  
 Date 3/6/20



**JAMES A. CIANCY**  
 Professional Engineer  
 Professional Land Surveyor  
 PA Lic. # 42340  
 PL Lic. # 12076  
 NJ Lic. # 04202  
 NJ Lic. # 33998  
 Date 3/6/20

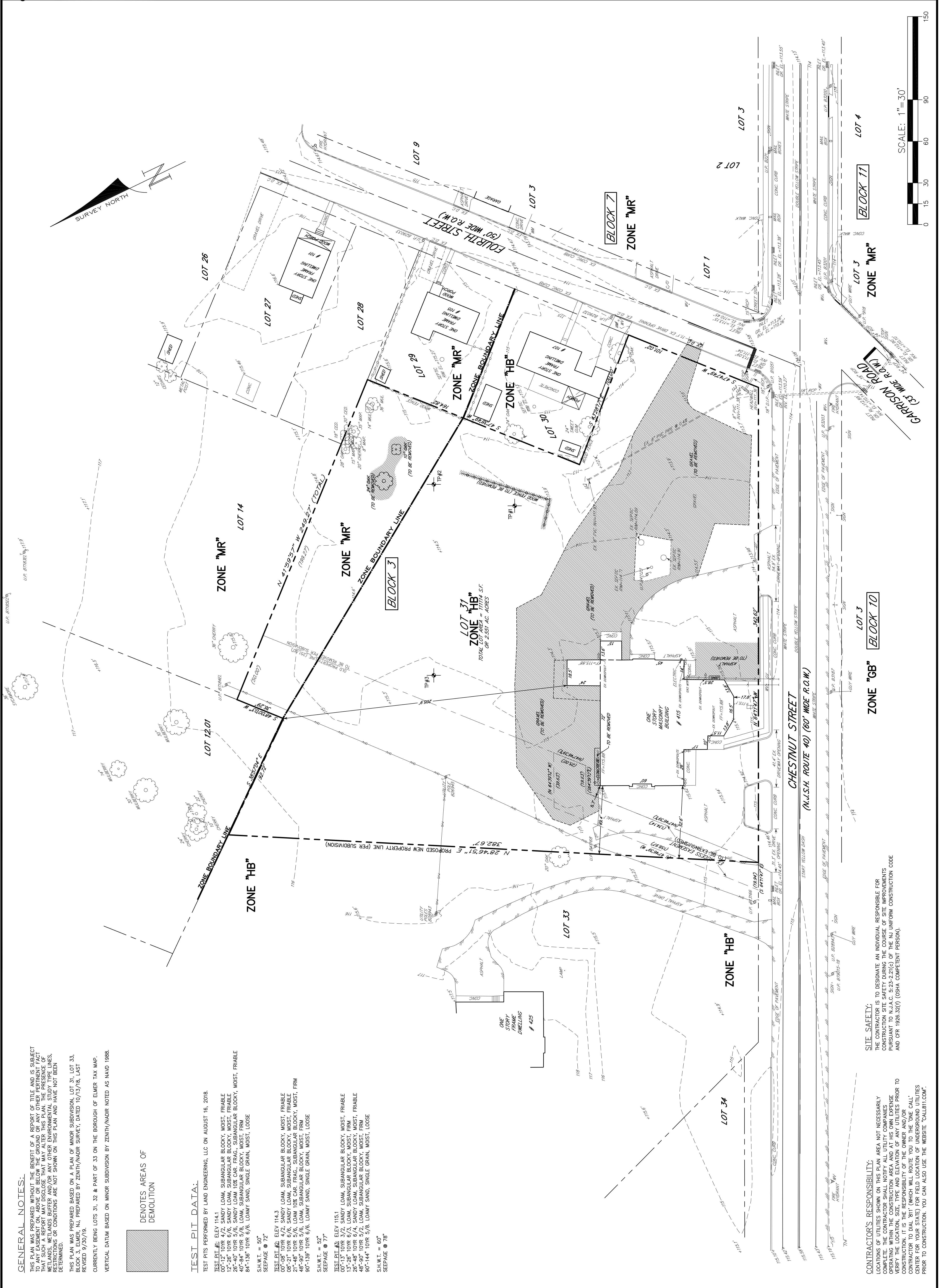
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 National Park, NJ 08063  
 Phone: (856) 853-7306  
 Fax: (856) 853-7381  
 CERTIFICATE OF AUTHORIZATION NO. 240427343500

**PLAN OF EXISTING CONDITIONS & DEMOLITION**  
 FOR  
 415 CHESTNUT STREET  
 BLOCK 3, PLATE 2  
 BOROUGH OF ELMER  
 SALEM COUNTY, NEW JERSEY  
 CLIENT: ROGER ANDERSON

**REVISIONS**

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 10/19/18 | PER COMPLETENESS REVIEW |
| 2     | 11/27/18 | PER ENGINEER'S LETTER   |
| 3     | 11/27/18 | PER COUNTY SOIL LETTER  |
| 4     | 3/6/20   | PER ENGINEER'S LETTER   |

JOB#: C-18018  
 DATE: 6/4/15  
 DRAWN: RAS  
 SCALE: 1"=30'  
 SHEET: 2 OF 11  
 CHECKED: JAC



**GENERAL NOTES:**  
 THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A REPORT OF TITLE AND IS SUBJECT TO THE DEFECTS, OMISSIONS AND ENCUMBRANCES THEREON. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE INFORMATION SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, TYPE AND ELEVATION OF ANY UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

**TEST PIT DATA:**  
 TEST PIT #1: ELEV 114.1  
 00'-12" 10YR 4/2 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 12'-26" 10YR 6/6 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 26'-40" 10YR 5/6 SANDY LOAM, 10% CAR. FRAC., SUBANGULAR BLOCKY, MOIST, FRIABLE  
 40'-64" 10YR 5/6 LOAM, SUBANGULAR BLOCKY, MOIST, FIRM  
 64'-136" 10YR 6/6 LOAMY SAND, SINGLE GRAIN, MOIST, LOOSE  
 S.H.W.T. = 50"  
 SEEPAGE @ 72"

**TEST PIT #2: ELEV 114.3**  
 00'-08" 10YR 4/2 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 08'-21" 10YR 6/6 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 21'-35" 10YR 6/6 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 35'-48" 10YR 5/6 LOAM, SUBANGULAR BLOCKY, MOIST, FIRM  
 48'-80" 10YR 5/2 LOAM, SUBANGULAR BLOCKY, MOIST, FIRM  
 80'-144" 10YR 5/8 LOAMY SAND, SINGLE GRAIN, MOIST, LOOSE  
 S.H.W.T. = 55"  
 SEEPAGE @ 77"

**TEST PIT #3: ELEV 115.1**  
 00'-12" 10YR 4/2 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 12'-26" 10YR 6/6 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 26'-48" 10YR 6/4 SANDY LOAM, SUBANGULAR BLOCKY, MOIST, FRIABLE  
 48'-90" 10YR 5/2 LOAM, SUBANGULAR BLOCKY, MOIST, FIRM  
 90'-144" 10YR 5/8 LOAMY SAND, SINGLE GRAIN, MOIST, LOOSE  
 S.H.W.T. = 60"  
 SEEPAGE @ 78"



**CONTRACTOR'S RESPONSIBILITY:**  
 LOCATIONS OF UTILITIES SHOWN ON THIS PLAN AREA NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OPERATING WITHIN THE CONSTRUCTION AREA AND AT HIS OWN EXPENSE VERIFY THE LOCATION, SIZE, TYPE AND ELEVATION OF ANY UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

**SITE SAFETY:**  
 THE CONTRACTOR IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.2(c) OF THE NJ UNIFORM CONSTRUCTION CODE AND CFR 1926.32(f) (OSHA COMPETENT PERSON).





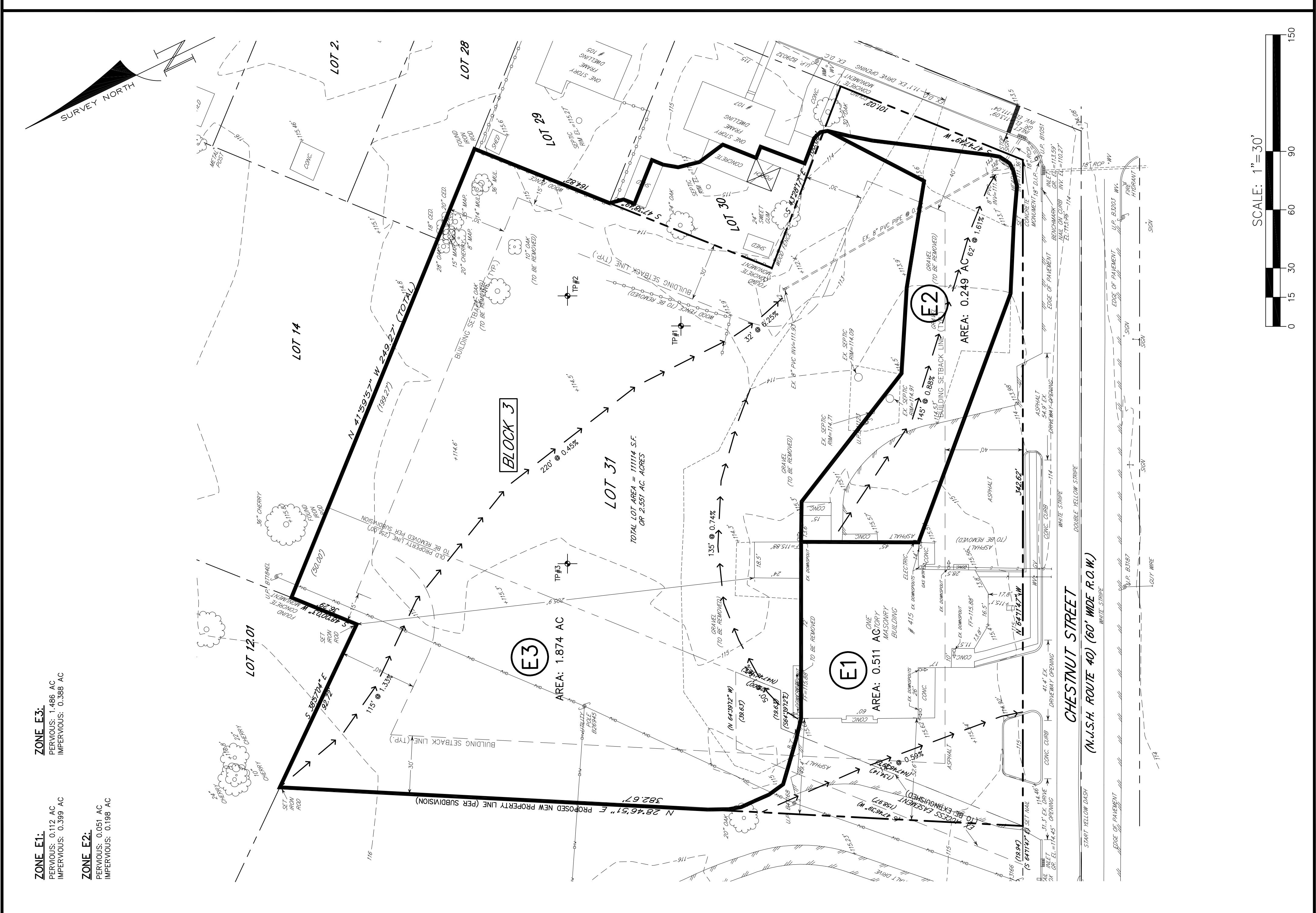
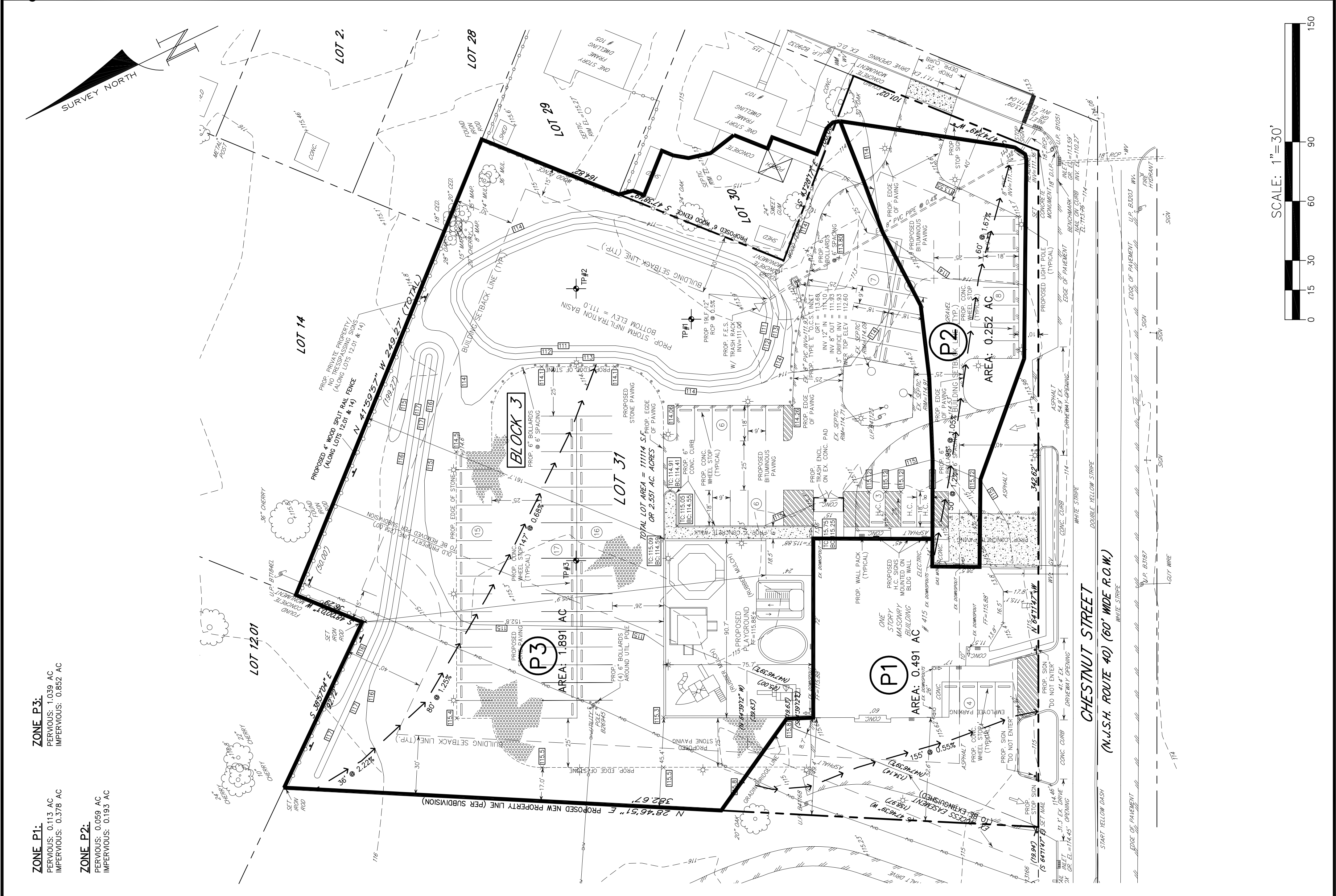


| - REVISIONS - |                                  |
|---------------|----------------------------------|
| ISSUE         | DESCRIPTION                      |
| 1             | 10/19/18 PER COMPLETENESS REVIEW |
| 2             | 11/27/18 PER ENGINEER'S LETTER   |
| 3             | 11/27/18 PER COUNTY SOIL LETTER  |
| 4             | 3/6/20 PER ENGINEER'S LETTER     |

**DRAINAGE DIVIDE PLAN**  
 FOR  
 LOT(S): 31, 32 & PART OF 33  
 BLOCK 3, PLATE 2  
 415 CHESTNUT STREET  
 BOROUGH OF ELMER  
 SALEM COUNTY, NEW JERSEY  
 CLIENT: ROGER ANDERSON  
 DRAWN: RAS  
 CHECKED: JAC  
 SCALE: 1"=30'  
 SHEET: 4 OF 11  
 JOB#: C-18018  
 DATE: 6/4/15

**H. C. E. & S., LLC**  
 CONSULTING ENGINEERS  
 Engineers • Land Surveyors • Planners  
 601 Asbury Avenue  
 National Park, NJ 08063  
 Phone: (856) 853-7306  
 Fax: (856) 853-7381  
 CERTIFICATE OF AUTHORIZATION NO. 2462743500

**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 33998  
 Date: 3/6/20  
 Professional Engineer  
 NJ Lic. # 46201  
 Professional Engineer  
 NJ Lic. # 42340  
 Professional Land Surveyor  
 PA Lic. # 61357









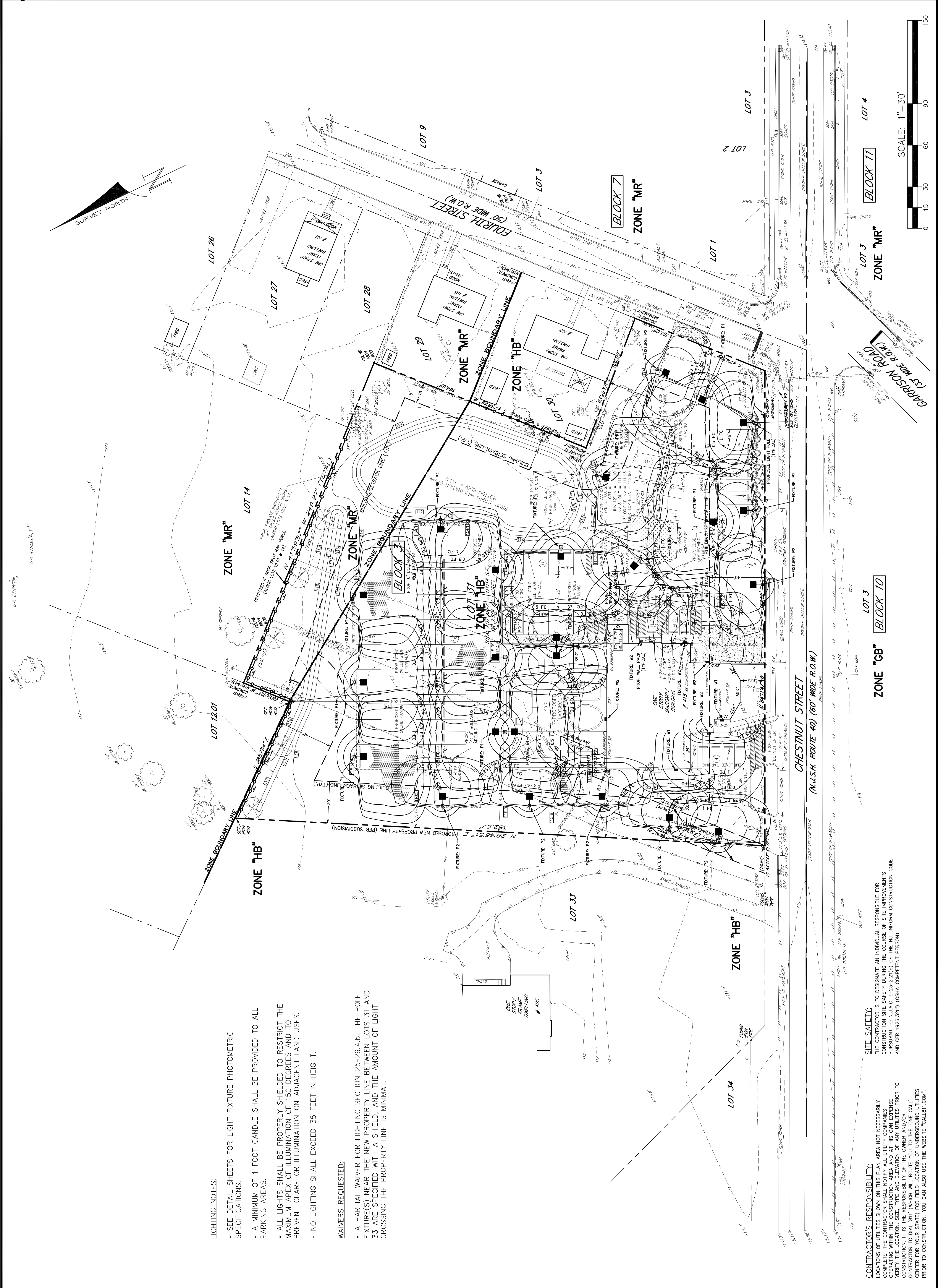
**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 33998  
 PA Lic. # 42400  
 DE Lic. # 12076  
 PA Lic. # 61357  
 Date 3/6/20

Professional Engineer  
 NJ Lic. # 33998  
 PA Lic. # 42400  
 DE Lic. # 12076  
 PA Lic. # 61357  
 Date 3/6/20

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 National Park, NJ 08063  
 Phone: (866) 853-7306  
 Fax: (866) 853-7381  
 CERTIFICATE OF AUTHORIZATION NO. 24627943500

**LIGHTING PLAN**  
 FOR  
 415 CHESTNUT STREET  
 BLOCK 3, PLATE 2  
 BOROUGH OF ELMER  
 SALEM COUNTY, NEW JERSEY  
 CLIENT: ROGER ANDERSON  
 DRAWN: RAS  
 SCALE: 1"=30'  
 SHEET: 6 OF 11  
 DATE: 6/4/15

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 10/19/18 | PER COMPLETENESS REVIEW |
| 2     | 11/27/18 | PER ENGINEER'S LETTER   |
| 3     | 11/27/18 | PER COUNTY SOIL LETTER  |
| 4     | 3/6/20   | PER ENGINEER'S LETTER   |

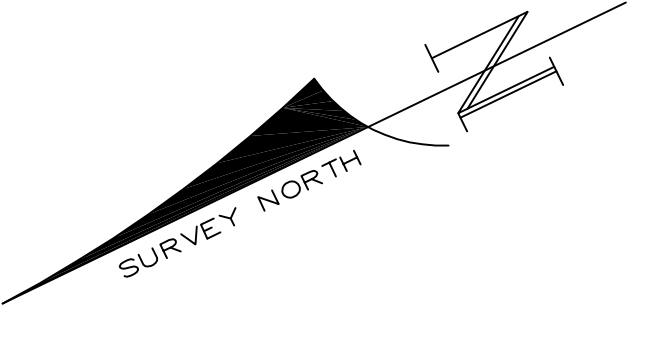
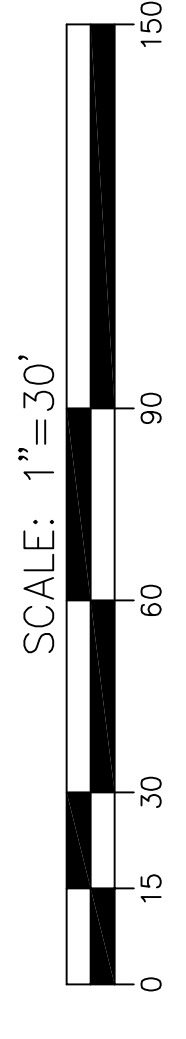


**LIGHTING NOTES:**  
 \* SEE DETAIL SHEETS FOR LIGHT FIXTURE PHOTOMETRIC SPECIFICATIONS.  
 \* A MINIMUM OF 1 FOOT CANDLE SHALL BE PROVIDED TO ALL PARKING AREAS.  
 \* ALL LIGHTS SHALL BE PROPERLY SHIELDED TO RESTRICT THE MAXIMUM APEX OF ILLUMINATION OF 150 DEGREES AND TO PREVENT GLARE OR ILLUMINATION ON ADJACENT LAND USES.  
 \* NO LIGHTING SHALL EXCEED 35 FEET IN HEIGHT.

**WAIVERS REQUESTED:**  
 \* A PARTIAL WAIVER FOR LIGHTING SECTION 25-29.4.b. THE POLE FIXTURE(S) NEAR THE NEW PROPERTY LINE BETWEEN LOTS 31 AND 33 ARE SPECIFIED WITH A SHIELD, AND THE AMOUNT OF LIGHT CROSSING THE PROPERTY LINE IS MINIMAL.

**CONTRACTOR'S RESPONSIBILITY:**  
 LOCATIONS OF UTILITIES SHOWN ON THIS PLAN AREA NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OPERATING WITHIN THE CONSTRUCTION AREA AND AT HIS OWN EXPENSE VERIFY THE LOCATION, SIZE, TYPE AND ELEVATION OF ANY UTILITIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE A CALL TO THE UTILITY LOCATOR (800) 487-4874 (OR 201) 982-3200 (OR 908) 487-4874 PRIOR TO CONSTRUCTION. YOU CAN ALSO USE THE WEBSITE "CALL811.COM".

**SITE SAFETY:**  
 THE CONTRACTOR IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(c) OF THE NJ UNIFORM CONSTRUCTION CODE AND CFR 1926.320(f) (OSHA COMPETENT PERSON).





**JAMES A. CIANCY**  
 Professional Engineer  
 NJ Lic. # 33998  
 PA Lic. # 61557  
 Date 3/6/20

Professional Engineer  
 NJ Lic. # 46203  
 PA Lic. # 42340  
 Professional Engineer  
 NJ Lic. # 12078  
 PA Lic. # 42340  
 Professional Land Surveyor  
 NJ Lic. # 12078  
 PA Lic. # 61557

**H. C. E. & S., LLC**  
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 CERTIFICATE OF AUTHORIZATION NO. 24627943500

**SOIL EROSION PLAN**  
 FOR  
 415 CHESTNUT STREET  
 BLOCK 3, PLATE 2  
 BOROUGH OF ELMER  
 SALEM COUNTY, NEW JERSEY

CLIENT: ROGER ANDERSON

DATE: 6/4/15  
 DRAWN: FAS  
 SCALE: 1"=30'  
 SHEET: 7 OF 11

| ISSUE | DATE     | DESCRIPTION            |
|-------|----------|------------------------|
| 1     | 10/19/18 | PER COMPETENCE REVIEW  |
| 2     | 11/27/18 | PER ENGINEER'S LETTER  |
| 3     | 11/27/18 | PER COUNTY SOIL LETTER |
| 4     | 3/6/20   | PER ENGINEER'S LETTER  |

REVISIONS -



**NRCS SOILS MAP**

**LIMIT OF DISTURBANCE**  
 77,000 SQ FT ± (1.77 AC. ±)

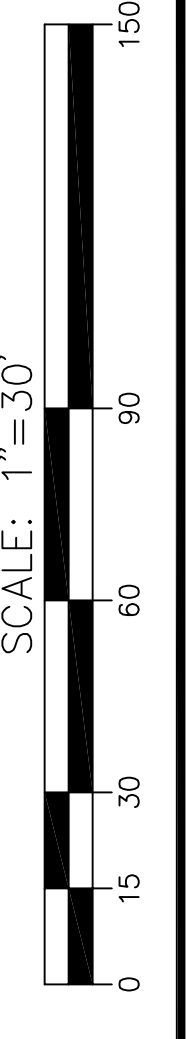
|             |           |           |            |              |            |                |                   |               |          |
|-------------|-----------|-----------|------------|--------------|------------|----------------|-------------------|---------------|----------|
| Soil Series | Soil Name | Soil Type | Soil Depth | Soil Texture | Soil Color | Soil Structure | Soil Permeability | Soil Drainage | Soil Use |
| Soil Series | Soil Name | Soil Type | Soil Depth | Soil Texture | Soil Color | Soil Structure | Soil Permeability | Soil Drainage | Soil Use |

**CONTRACTOR'S RESPONSIBILITY:**  
 LOCATIONS OF UTILITIES SHOWN ON THIS PLAN AREA NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OPERATING WITHIN THE CONSTRUCTION AREA AND AT HIS OWN EXPENSE VERIFY THE LOCATION, SIZE, TYPE AND ELEVATION OF ANY UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE OTHER UTILITY CALL CENTER FOR YOUR STATE FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. YOU CAN ALSO USE THE WEBSITE "CALL811.COM."

**SITE SAFETY:**  
 THE CONTRACTOR IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(c) OF THE NJ UNIFORM CONSTRUCTION CODE AND CFR 1926.320(f) (OSHA COMPETENT PERSON).

SOIL DE-COMPACTION TESTING AREAS

RECOMMENDED SOIL COMPACTION TEST LOCATION (APPROX. 1 PER 0.5 ACRES)









**JAMES A. CIANCY**  
Professional Engineer  
NJ Lic. # 33983  
Date 3/6/20

**JAMES A. CIANCY**  
Professional Engineer  
NJ Lic. # 42340  
PA Lic. # 61357

**JAMES A. CIANCY**  
Professional Engineer  
NJ Lic. # 42340  
PA Lic. # 61357

**JAMES A. CIANCY**  
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CERTIFICATE OF AUTHORIZATION NO. 24627343500

**DETAIL SHEET**  
FOR  
LOT(S): 31, 32 & PART OF 33  
BLOCK: 3, PLATE 2  
BOROUGH OF ELMER  
SALEM COUNTY, NEW JERSEY

CLIENT: ROGER ANDERSON

DATE: 6/4/15  
DRAWN: RAS  
CHECKED: JAC  
SCALE: NONE  
SHEET: 9 OF 11

| ISSUE | DATE     | DESCRIPTION            |
|-------|----------|------------------------|
| 1     | 10/19/18 | PER ENGINEER'S LETTER  |
| 2     | 11/27/18 | PER COUNTY SOIL LETTER |
| 3     | 11/27/18 | PER ENGINEER'S LETTER  |
| 4     | 3/6/20   | PER ENGINEER'S LETTER  |

REVISIONS -

**LIGHT FIXTURE: "P1"**

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

**LIGHT FIXTURE: "P2"**

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

**LIGHT FIXTURE: "W1"**

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

**LIGHT FIXTURE: "W2"**

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

30 FEET BETWEEN AND TO MARKS  
LUMENS PER LAMP = 1  
LIGHT LOSS FACTOR = 0.8  
OPTICAL HOLES = 15 FEET  
ARM LENGTH = 6 FEET  
MOUNTING LUMINAIRE = 4 FOOTCANDLES  
COLOR TEMPERATURE: 3000K

OPTIONAL 12 GAUGE 2"x4" BLACK VINYL COATED WIRE MESH

9' LONG RAILS

EXISTING GROUND SURFACE

POST SPACING 8'

MATERIAL TYPE - CEDAR EXPOSED SURFACE TO BE NATURAL FINISH WOOD POST & RAIL FENCE

N.T.S.

CONCRETE SHALL BE 4000 PSI @ 28 DAYS.

CONCRETE FOOTINGS SHALL GO DOWN TO FROST DEPTH.

FOUR (4) HIGH STRENGTH STEEL ANCHOR BOLTS BY POLE MFR. (typ.)

BOND GROUND CONDUCTOR TO POLE

HAND HOLE WITH FUSE HOLDERS

INSULATED CONDUIT

BUSHINGS

CHAMFER EXPOSED CORNERS 3/4"

2" (GRASSED AREAS)

36" (CAR PARKING AREAS)

FINISHED GRADE

CONDUIT

3'-0" MIN.

CADWELD GND. CONNECTION

#6 BARE COPPER GROUND

3/4" D. x 10'-0" GROUND ROD

2" RIGID STEEL CONDUIT

#3 TIES AT 12" O.C. (NOT SHOWN ON ELEVATION)

(4) #7 VERTICAL REINFORCING RODS FULL LENGTH OF BASE (NOT SHOWN IN ELEVATION)

SECTION "A-A"

2" ROUND DRILLED PIER

CONCRETE LIGHTING STANDARD FOUNDATION DETAIL

N.T.S.

PER PHOTOMETRICS

FIXTURE PER PHOTOMETRICS

WALL MOUNT FIXTURE

N.T.S.

PER PHOTOMETRICS

WALL MOUNT FIXTURE

N.T.S.

NOTES

1. POLE SHALL BE CONSTRUCTED OF A FLUSH MOUNTED CAST ALUMINUM POLE CAP TO A STEEL BASE AT BOTH TOP AND BOTTOM OF BASE CASTING.

2. THE POLE SHALL BE SECURED TO A HAND HOLE SHALL BE PROVIDED. A HAND HOLE SHALL BE PROVIDED FROM BASE - FOUR (4) GALVANIZED ANCHOR BOLTS SHALL BE PROVIDED COMPLETE WITH (6) NUTS, (8) FLAT WASHERS AND WASHING STEEL TEMPLATE. PAGES SHALL WITHSTAND STEADY WINDS UP TO 80 MPH (104 MPH GUSTING) WHEN LUMINAIRES ARE MOUNTED ANY WHERE ON ACCESSORIES ATTACHED TO POLE SHALL VOID GUARANTEE.

3. FINISH: BONZE ENAMEL

PER PHOTOMETRICS

PHOTOMETRICS

HANDHOLE

BASE COVER

ENCASED IN CONCRETE 8" MIN. ALL AROUND (MIN. 4000 P.S.I.)

6" MIN.

18"

18"

5"

FLUSH MOUNTED CAST ALUMINUM POLE CAP

LIGHT FIXTURE

NOTES

1. POLE SHALL BE CONSTRUCTED OF A FLUSH MOUNTED CAST ALUMINUM POLE CAP TO A STEEL BASE AT BOTH TOP AND BOTTOM OF BASE CASTING.

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PER PHOTOMETRICS

PHOTOMETRICS

HANDHOLE

BASE COVER

ENCASED IN CONCRETE 8" MIN. ALL AROUND (MIN. 4000 P.S.I.)

6" MIN.

18"

18"

5"

FLUSH MOUNTED CAST ALUMINUM POLE CAP

LIGHT FIXTURE

PER PHOTOMETRICS

FIXTURE PER PHOTOMETRICS

WALL MOUNT FIXTURE

N.T.S.

PER PHOTOMETRICS

FIXTURE PER PHOTOMETRICS

WALL MOUNT FIXTURE

N.T.S.

PER PHOTOMETRICS

FIXTURE PER PHOTOMETRICS

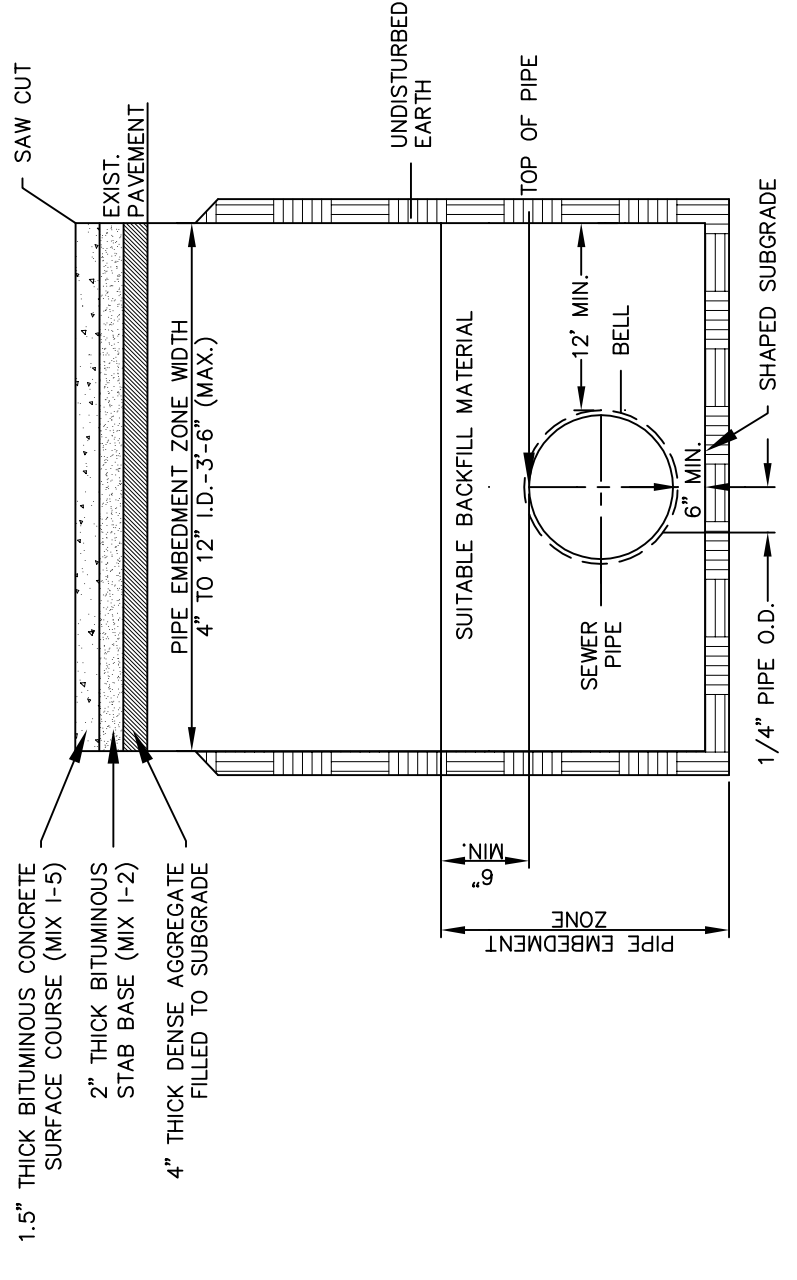
WALL MOUNT FIXTURE

N.T.S.

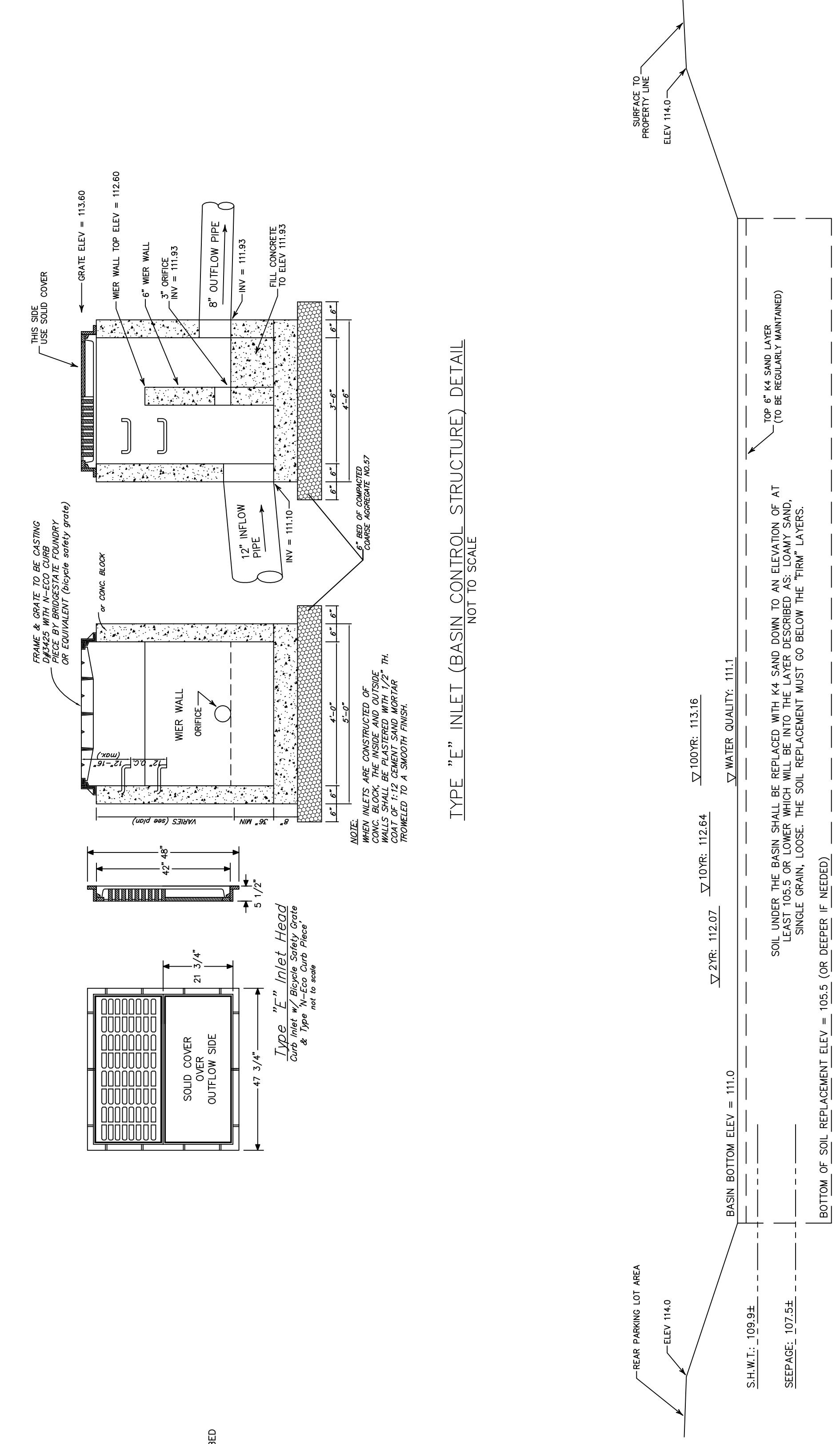








TRENCH RESTORATION DETAIL  
SCALE: N.T.S.



BASIN CROSS SECTION AT MIDDLE OF REAR PARKING LOT  
SCALE: 1"=5'

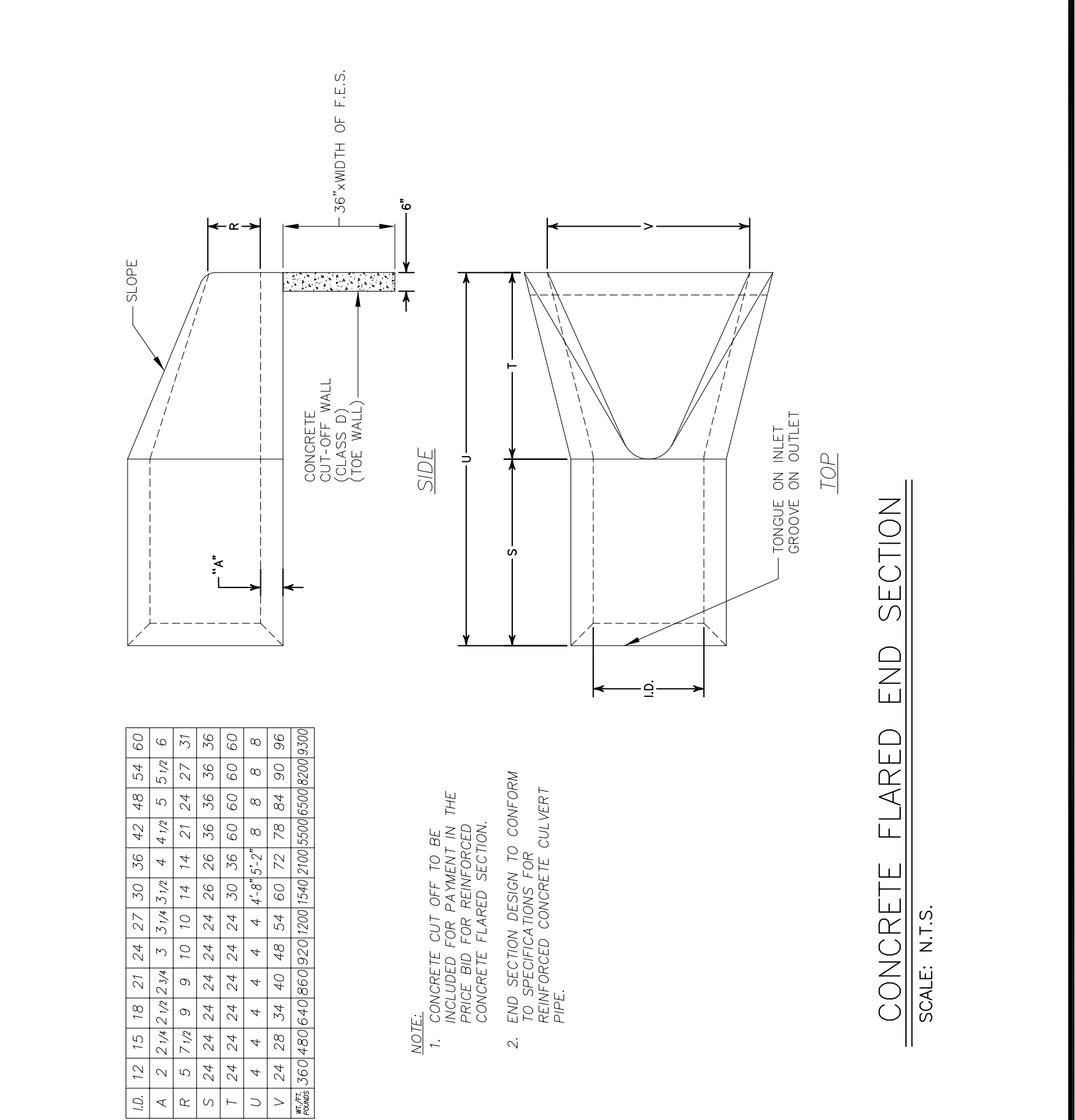
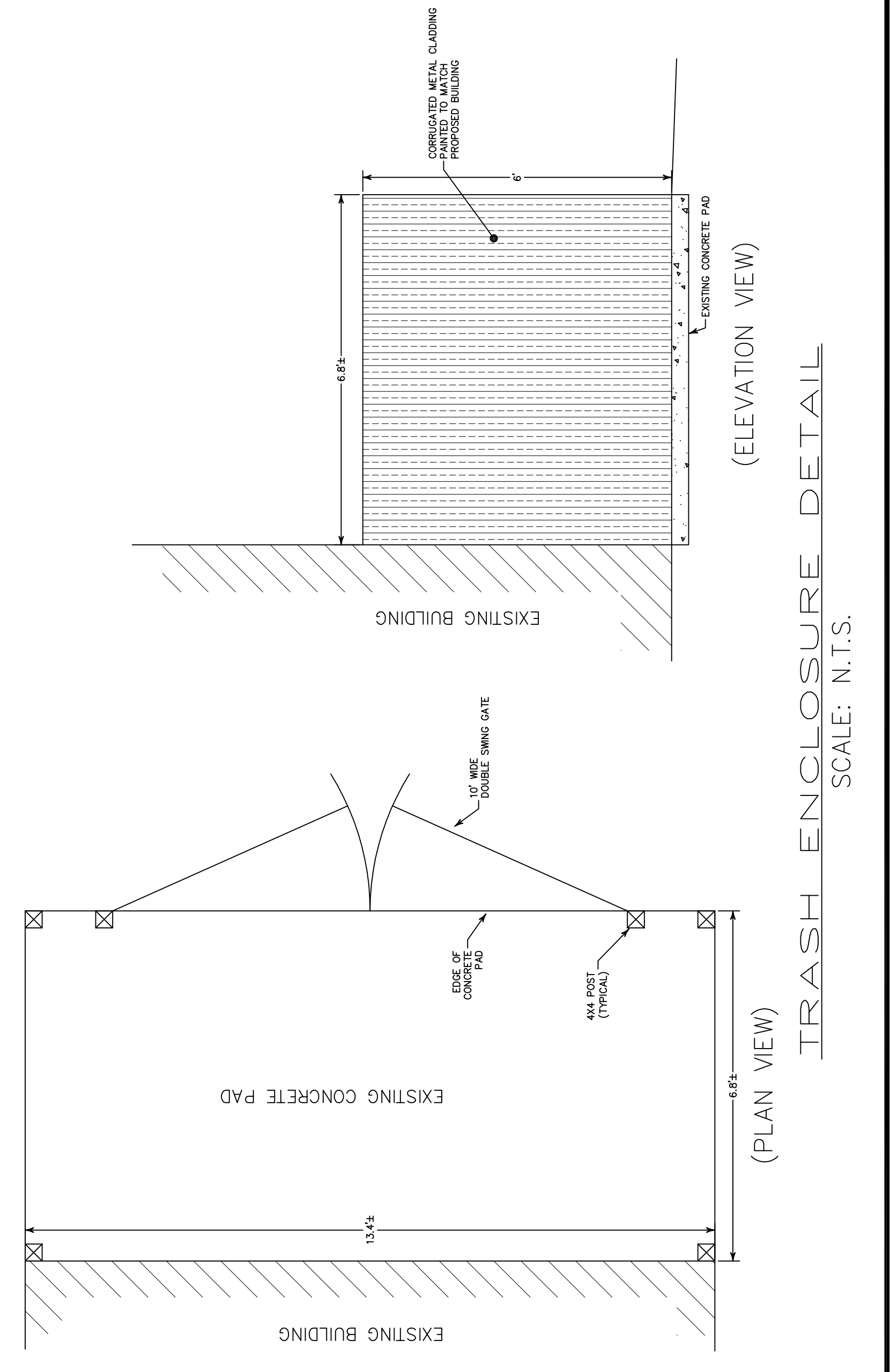
**JAMES A. CIANCY**  
Professional Engineer  
NJ Lic. # 33998  
PA Lic. # 61557  
Date 3/6/20

**H. C. E. & S., LLC**  
CONSULTING ENGINEERS  
Engineers • Land Surveyors • Planners  
601 Asbury Avenue  
National Park, NJ 08063  
Phone: (856) 853-7306  
Fax: (856) 853-7381  
CERTIFICATE OF AUTHORIZATION NO. 24A27943500

**DETAIL SHEET**  
FOR  
LOT(S): 31, 32 & PART OF 33  
BLOCK 3, PLATE 2  
415 CHESTNUT STREET  
BOROUGH OF ELMER  
SALEM COUNTY, NEW JERSEY  
CLIENT: ROGER ANDERSON  
DRAWN: RAS  
CHECKED: JAC  
SCALE: NONE  
SHEET: 11 OF 11  
JOB#: C-18018

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 10/19/18 | PER COMPLETENESS REVIEW |
| 2     | 11/27/18 | PER ENGINEER'S LETTER   |
| 3     | 11/27/18 | PER COUNTY SOIL LETTER  |
| 4     | 3/6/20   | PER ENGINEER'S LETTER   |

REVISIONS -



**Bullnose Trash Guard For Flared Ends**

Hot dip galvanized per ASTM A123

All guards to have:  
(1) cross bar,  
(2) top bar,  
(3) bars up to have equally spaced

Intermediate Cross bar(s)  
1" Bar  
Intermediate Cross bar(s)

Front  
Profile  
Plan

| Bar Sizes                      | Standard Design | Bar Size |
|--------------------------------|-----------------|----------|
| Pipe Size                      | Bar Size        | Bar Size |
| 12"-18"                        | 2"              | 5/8"     |
| 18"-24"                        | 2 1/2"          | 3/4"     |
| 24"-30"                        | 3"              | 1"       |
| 30"-36"                        | 3 1/2"          | 1 1/4"   |
| Bar E.g. - 1/2" x 1/2" x 2.12" |                 |          |

Contact: Scott Hatula  
Sleepy Eye, MN 56085  
Ph: 507-944-5821 ext. 115  
www.hatula.com  
Cell: 507-920-9182

1201 Hwy 4 South  
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FLARED END SECTION TRASH RACK (OR APPROVED EQUAL)