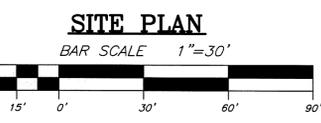


| REVISIONS | | |
|-----------|-------------|----|
| No./Date | Description | By |
| | | |
| | | |
| | | |

| SITE DATA: | |
|--|---|
| PROPERTY OWNER | THE OFFICES AT AIRLIE, LLC |
| PROJECT ADDRESS | 1613 MILITARY CUTOFF RD. |
| PIN NUMBER | R05600-002-004-000 |
| AREA NOT IN A FEMA 100-YEAR FLOOD ZONE | 0&I-1 (CD) CD-6-214 |
| ZONING DISTRICT | 0&I-1 (CD) CD-6-214 |
| DISTURBED AREA | 2.1 Ac. |
| SETBACKS REQUIRED | FRONT: 20' REAR: 25' INTERIOR SIDE: 5' CORNER SIDE: 20' |
| PROPOSED BUILDING SETBACKS | FRONT: 14* REAR: 83* INTERIOR SIDE: -1' CORNER SIDE: 21' |
| *ALTERNATIVE FRONT SETBACK FOR TREE PRESERVATION | |
| TRACT AREA | 78,683 SF (1.80 AC) |
| BUILDING USE | OFFICE-PROFESSIONAL |
| EXISTING BUILDING AREA | 1,562 SF |
| PROPOSED BUILDING AREA (GROSS) | 20,000 SF |
| BUILDING LOT COVERAGE (10,000/78,683) | 12.7% |
| NUMBER OF BUILDINGS | 1 |
| NUMBER OF UNITS | 28 |
| BUILDING HEIGHT | 2 |
| NUMBER OF STORIES | 2 |
| SF PER FLOOR (GROSS) | 10,000 SF |
| EXISTING IMPERVIOUS AREAS: | |
| EXISTING BUILDING | 1,562 SF |
| EXISTING CONCRETE | 0 SF |
| EXISTING GRAVEL | 0 SF |
| EXISTING IMPERVIOUS AREA | 1,562 SF (2%) |
| PROPOSED IMPERVIOUS AREAS: | |
| PROPOSED BUILDING FOOTPRINT | 10,000 SF |
| PROPOSED ASPHALT + CURB | 14,263 SF |
| PROPOSED CONCRETE | 2,664 SF |
| PERVIOUS PARKING | 16,927 SF |
| CREDIT FOR PERVIOUS PARKING | -12,695 SF |
| EXISTING IMPERVIOUS (TO REMAIN) | 0 SF |
| TOTAL IMPERVIOUS AREA | 31,159 SF (40%) |
| PARKING REQUIRED: (OFFICE-PROFESSIONAL) | 20,000 SF |
| MAXIMUM: 1/200 | 100 |
| MINIMUM: 1/400 | 67 |
| TOTAL PARKING PROVIDED: | 97 |
| CAMA LAND USE: | WATERSHED RESOURCE PROTECTION |
| PUBLIC WATER AND SEWER BY CFPWA | |
| EXISTING WATER FLOW: | 0 GPD |
| EXISTING SEWER FLOW: | 0 GPD |
| PROPOSED WATER FLOW: | (120 GPD/1,000 SF x 20,000 SF x 110%) |
| PROPOSED SEWER FLOW: | 2,640 GPD |
| PROPOSED WATER FLOW: | (120 GPD/1,000 SF x 20,000 SF) |
| PROPOSED SEWER FLOW: | 2,400 GPD |
| HANDICAP SPOTS REQUIRED | PROPOSED |
| (1-25 SPOTS= 1 HANDICAP SPOT) | |
| 99 SPOTS/25=3.96 | 4 HANDICAP SPOTS |
| BICYCLE PARKING REQUIRED (99 SPACES) | 5 BICYCLE PARKS |
| BICYCLE PARKING PROPOSED | 5 BICYCLE PARKS |
| BUILDING CONSTRUCTION TYPE | TYPE V WOOD |

LEGEND

| | |
|--|-----------------------|
| | PROPERTY BOUNDARY |
| | EXISTING CONTOUR |
| | PROPOSED SEWER |
| | PROPOSED WATER |
| | PROPOSED STORM WATER |
| | LIMITS OF DISTURBANCE |
| | TEMPORARY SILT FENCE |
| | EXISTING TREE |
| | PERVIOUS CONCRETE |



NOTES:

ZONING

- TOPOGRAPHY AND TREE SURVEY COMPLETED BY PATRICK C. BRISTOW, LAND SURVEYING, P.C.
- PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- EXISTING EASEMENTS AS SHOWN
- CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.

SOLID WASTE

- SITE TO USE ON-SITE DUMPSTER.

TRAFFIC

- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- NO ROWS TO BE CLOSED.
- NO STREETS PROPOSED.
- OFF SITE PARKING PROPOSED AS SHOWN.
- DRIVEWAYS TO MEET CITY STANDARDS.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.

LANDSCAPING

- A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

SIGNS

ANY FREESTANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN.

CFPUA

- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCCHOR OR ASSE.
- PUBLIC WATER AND SEWER EXISTING.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

ACCESS/PARKING DRAINAGE

- SHEET FLOW TO PERVIOUS PAVEMENT AND INLETS.
- OUTFALL DRAINS TO EXIST. CURB INLET AT MILITARY CUTOFF RD.

ROOF DRAINAGE

- DOWNSPOUTS CONNECTED TO UNDERGROUND ROOF DRAIN SYSTEM TO INFILTRATION BASIN.
- OUTFALL DRAINS TO EXIST. CURB INLET AT MILITARY CUTOFF RD.

Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |

STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

DATE 06-18-15
DESIGN PGT
DRAWN EJW

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

SITE AND UTILITY PLAN

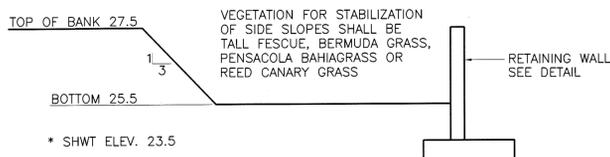
AIRLIE OFFICES
1613 MILITARY CUTOFF ROAD
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631

SEAL
17374
ENGINEER
WILMINGTON, NORTH CAROLINA
GREGORY TRIPP

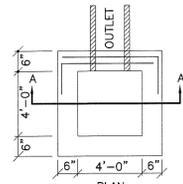
C2

SHEET 2 OF 5
13016

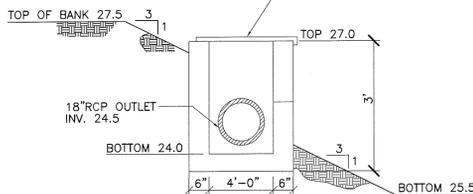


NOTE: 4" OF CLEAN SAND TO BE PLACED IN BOTTOM OF INFILTRATION BASIN AT ELEVATION 25.5

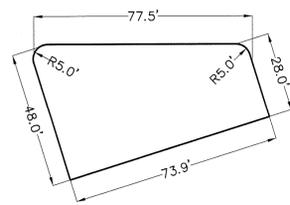
INFILTRATION BASIN SECTION
NTS



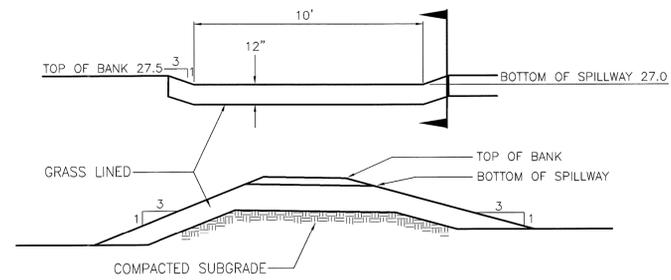
GALV. BAR GRATING - 1"x1/8" BEARING BARS (MAX OPENING 4"), FASTEN WITH TYPE J CLIPS. ATTACH TO 1-1/4"x1-1/4"x1/4" GALVANIZED ANGLE FRAME. MORTAR FRAME TO TOP OF OUTLET STRUCTURE.



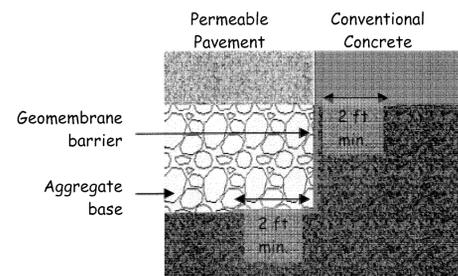
SECTION A - A
INFILTRATION BASIN OUTLET STRUCTURE
NTS



INFILTRATION BASIN BOTTOM DIMENSIONS
1"=30'

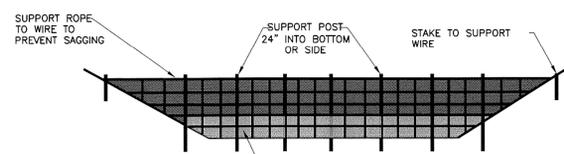


EMERGENCY SPILLWAY DETAIL
NTS

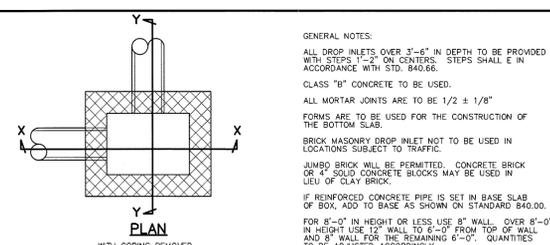


CONCRETE/PERVIOUS CONCRETE TRANSITION DETAIL
NTS

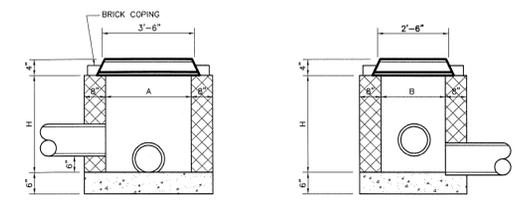
- BAFFLE CONSTRUCTION SPECIFICATION:**
1. GRADE THE BASIN SO THAT THE BOTTOM IS LEVEL FRONT TO BACK AND SIDE TO SIDE.
 2. INSTALL THE COIR FIBER BAFFLES IMMEDIATELY UPON EXCAVATION OF THE BASINS.
 3. INSTALL POSTS ACROSS THE WIDTH OF THE SEDIMENT TRAP.
 4. STEEL POSTS SHOULD BE DRIVEN TO A DEPTH OF 24 INCHES AND SPACED A MAXIMUM OF 4 FEET APART. THE TOP OF THE FABRIC SHOULD BE 6 INCHES HIGHER THAN THE INVERT OF THE SPILLWAY. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE EARTHEN EMBANKMENT.
 5. INSTALL AT LEAST THREE ROWS OF BAFFLES BETWEEN THE INLET AND OUTLET DISCHARGE POINT. BASINS LESS THAN 20 FEET IN LENGTH MAY USE 2 BAFFLES.
 6. ATTACH A 9 GAUGE HIGH TENSION WIRE STRAND TO THE STEEL POSTS AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION WITH PLASTIC TIES OR WIRE FASTENERS TO PREVENT SAGGING. IF THE TEMPORARY SEDIMENT BASIN WILL BE CONVERTED TO A PERMANENT STORMWATER BASIN OF A GREATER DEPTH, THE BAFFLE HEIGHT SHOULD BE BASED ON THE POOL DEPTH DURING USE AS A TEMPORARY SEDIMENT BASIN.
 7. EXTEND 9 GAUGE MINIMUM HIGH TENSION WIRE STRAND TO SIDE OF BASIN OR INSTALL STEEL T-POSTS TO ANCHOR BAFFLE TO SIDE OF BASIN AND SECURE TO VERTICAL END POSTS.
 8. DRAPE THE COIR FIBER MAT OVER THE WIRE STRAND MOUNTED AT A HEIGHT OF 6 INCHES ABOVE THE SPILLWAY ELEVATION. SECURE THE COIR FIBER MAT TO THE WIRE STRAND WITH PLASTIC TIES OR WIRE FASTENERS. ANCHOR THE MATTING TO THE SIDES AND FLOOR OF THE BASIN WITH 12 INCH WIRE STAPLES, APPROXIMATELY 1 FT APART, ALONG THE BOTTOM AND SIDE SLOPES OF THE BASIN.
 9. DO NOT SPLICE THE FABRIC, BUT USE A CONTINUOUS PIECE ACROSS THE BASIN.
 10. ADJUSTMENTS MAY BE REQUIRED IN THE STAPLING REQUIREMENTS TO FIT INDIVIDUAL SITE CONDITIONS.



CROSS SECTION OF POROUS BAFFLE
NTS



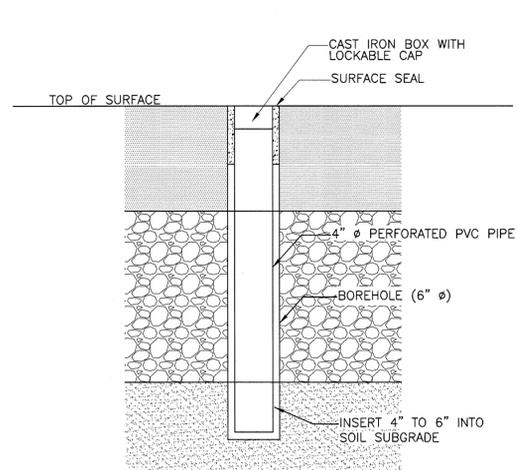
GENERAL NOTES:
ALL DROP INLETS OVER 3" IN DEPTH TO BE PROVIDED WITH STEPS 1"-2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STD. 840.66.
CLASS "B" CONCRETE TO BE USED.
ALL MORTAR JOINTS ARE TO BE 1/2 ± 1/8" FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
BRICK MASONRY DROP INLET NOT TO BE USED IN LOCATIONS SUBJECT TO TRAFFIC.
JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD 840.00.
FOR 8"-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8"-0" IN HEIGHT USE 12" WALL TO 6"-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6"-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.



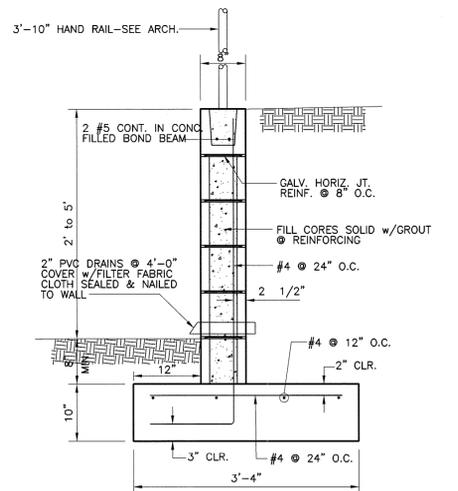
SECTION X-X and **SECTION Y-Y**

| DIMENSIONS OF BOX & PIPE | | | DIMENSIONS AND QUANTITIES | | | | | | |
|--------------------------|-------|-------|---------------------------|---------------|-----------------------|-------------------------|-------|-------|-------|
| PIPE DIA. | SPAN | WIDTH | HEIGHT | CONC. IN BASE | PER FT. BRICK MASONRY | DEDUCTIONS FOR ONE PIPE | | | |
| D | A | B | H (MIN) | CU. YDS. | MIN. | C.M. | R.C. | | |
| 12" | 3'-0" | 2'-0" | 2'-8" | 0.267 | 0.313 | 0.037 | 0.871 | 0.020 | 0.032 |
| 15" | 3'-0" | 2'-0" | 3'-0" | 0.267 | 0.313 | 0.037 | 0.976 | 0.031 | 0.047 |
| 18" | 3'-0" | 2'-0" | 3'-5" | 0.267 | 0.313 | 0.037 | 1.106 | 0.044 | 0.065 |
| 24" | 3'-0" | 2'-0" | 4'-0" | 0.267 | 0.313 | 0.037 | 1.289 | 0.078 | 0.113 |
| 30" | 3'-0" | 2'-0" | 4'-3" | 0.267 | 0.313 | 0.037 | 1.367 | 0.122 | 0.170 |

NCDOT DROP INLET DETAIL
NTS

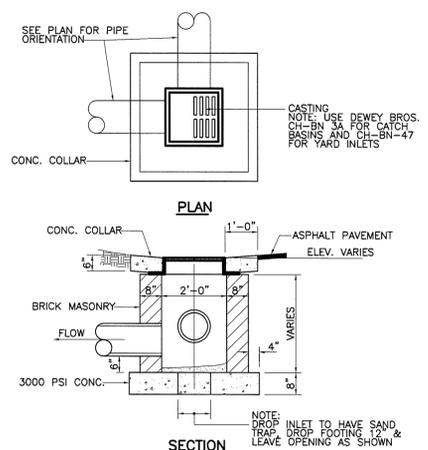


OBSERVATION WELL DETAIL
NTS

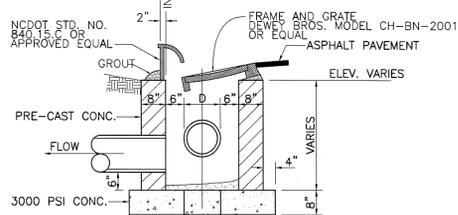


TYPICAL RETAINING WALL SECTION
NTS

CONTRACTOR TO SUBMIT SHOP DRAWINGS TO NEW HANOVER COUNTY FOR THE RETAINING WALL PRIOR TO CONSTRUCTION.

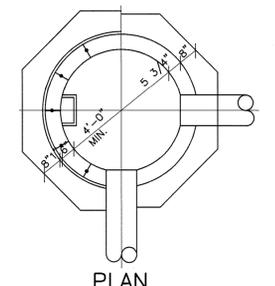


DROP INLET DETAIL
NTS

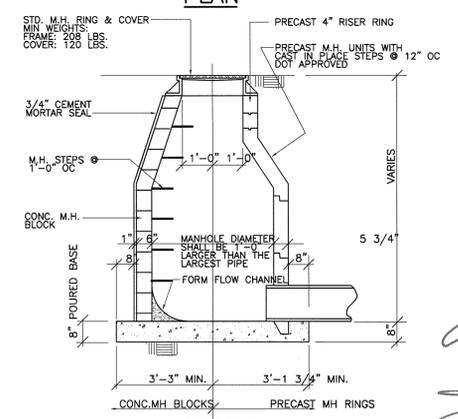


CURB INLET DETAIL
NTS

NOTE:
1. CONTRACTOR MAY USE BRICK WITH MAX. CORSEL 1" PER COURSE
2. CONTRACTOR MAY USE ECCENTRIC M.H. UNIT



PLAN



SECTION

STORM DRAIN MANHOLE DETAIL
NTS

Approved Construction Plan

| Name | Date |
|----------|------|
| Planning | |
| Traffic | |
| Fire | |

STORMWATER MANAGEMENT PLAN
APPROVED
CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

REVISIONS

| No. | Date | Description | By |
|-----|------|-------------|----|
| | | | |
| | | | |
| | | | |
| | | | |

DETAILS AND NOTES

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
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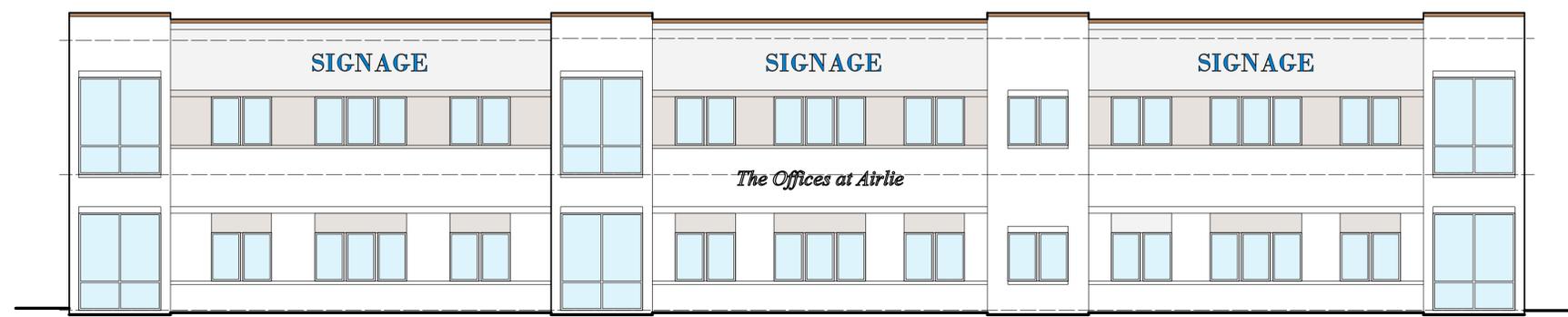
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
GREGOR TRIPP
17374

DATE 06-18-15
DESIGN PGT
DRAWN EJW

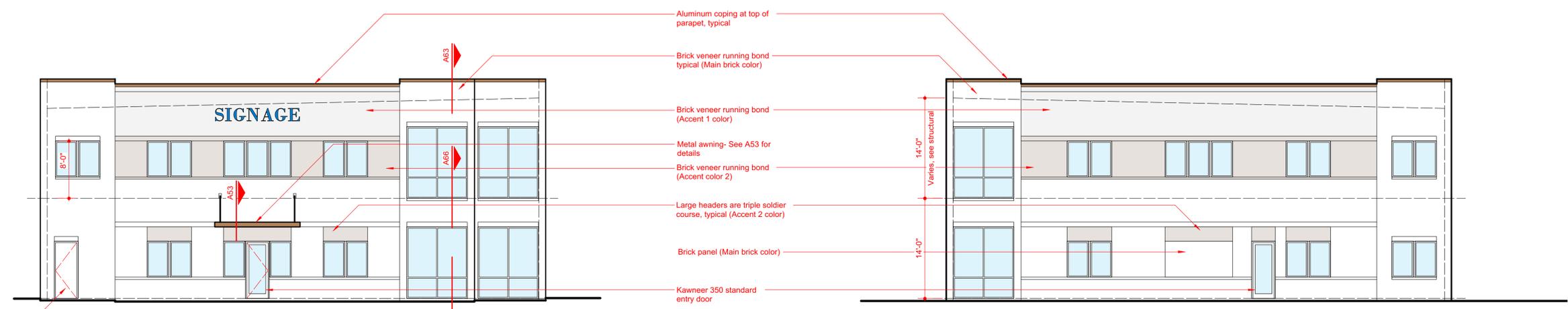
C5
SHEET 5 OF 5
13016



COTRAN HARRIS ARCHITECTURE
 MEMBER AMERICAN INSTITUTE OF ARCHITECTS
 5725 OLANDER DRIVE, SUITE E1
 WILMINGTON, NC 28403



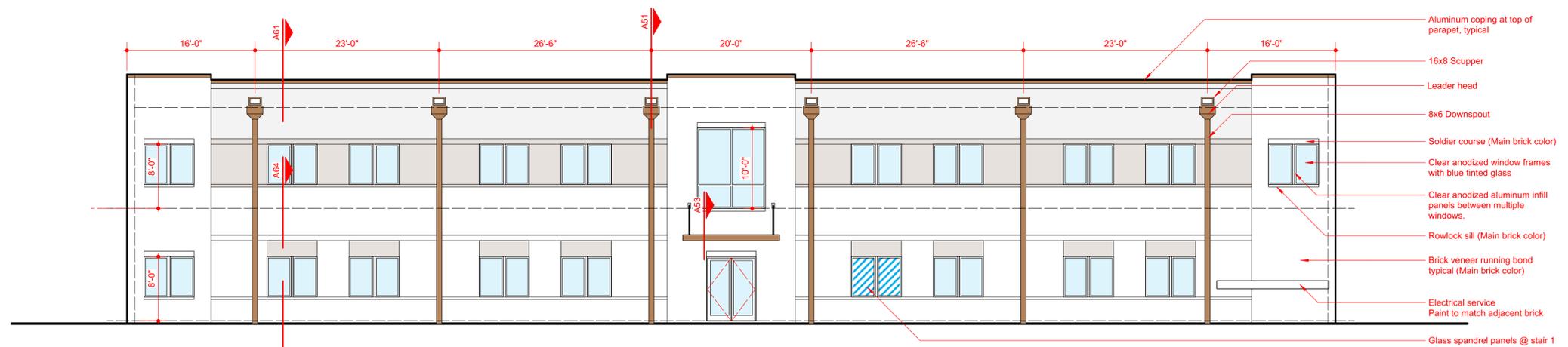
A42 ELEVATION 1/8"



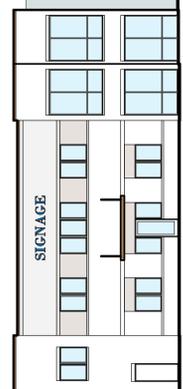
Flush exterior door
 Paint to match adjacent brick

A44 ELEVATION 1/8"

A46 ELEVATION 1/8"



A48 ELEVATION 1/8"



OFFICES AT AIRLIE
 1613 MILITARY CUTOFF ROAD
 WILMINGTON, NC

For Construction

VOICE: 910-783-3433
 OFFICE@COTRANHARRIS.COM

ELEVATIONS
 CONSTRUCTION DRAWINGS
 MAY 12, 2015

A4
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