

CONSTRUCTION PLANS GOVERNMENT RESOURCE CENTER 123 CARDINAL DRIVE EXTENSION SITE PLAN

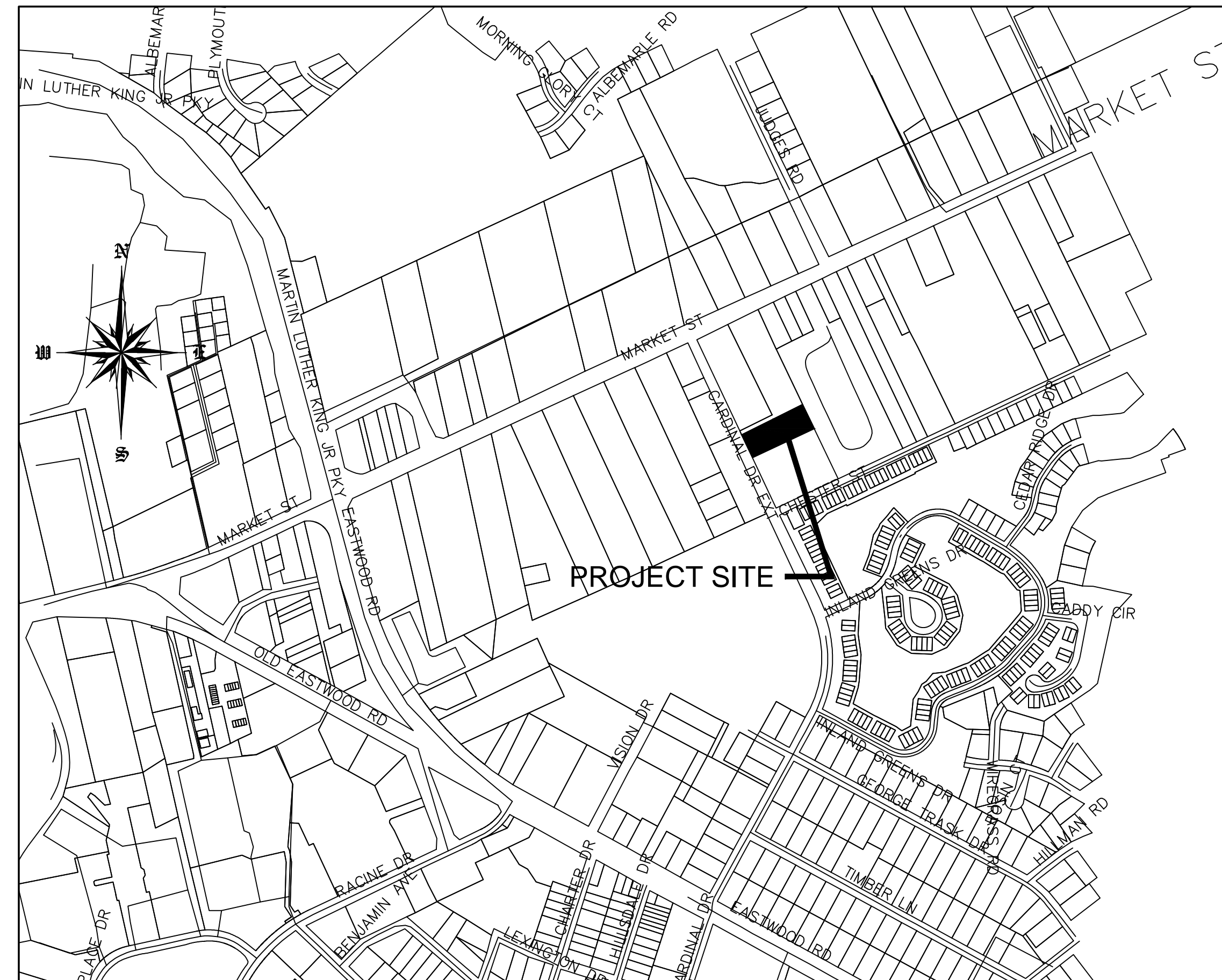
Approved Construction Plan	
Name _____	Date _____
Planning _____	
Traffic _____	
Fire _____	

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.

NOTES

1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING (IF REQUIRED) WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION.
2. 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 OCCUR IN THOSE AREAS.
3. 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 INSTRUCTION ON TREE PROTECTION METHODS.
4. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAY ARE TO BE THERMO PLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
5. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET SIGN NAMES.
6. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD STANDARDS AND BE MAINTAINED BY THE OWNER.
7. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
8. TRAFFIC ENGINEERING TO BE NOTIFIED AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
10. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN PARKING AREAS SHALL BE WHITE. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY FOR DRIVEWAY ARE TO BE THERMO PLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
11. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
12. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
13. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEEL CHAIR RAMPS.
14. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
15. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
16. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
17. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY DETAILS AND SPECIFICATIONS.
18. PROJECT SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
19. IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST SUPPLY A RPZ BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
20. ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA SHALL COMPLY WITH THE CFPWA CROSS CONNECTION REGULATIONS.
21. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR.
22. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR.
23. CONTRACTOR TO FILED VERIFY EXISTING WATER AND SEWER LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF CONFLICTS.
24. AN ALL WEATHER DRIVING SURFACE FOR EMERGENCY VEHICLES MUST BE MAINTAINED DURING CONSTRUCTION.
25. UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC ROW TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.
26. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (TEN) FEET ABOVE THE GROUND WITHIN THE TRIANGLE SIGHT DISTANCE.
27. CONTRACTOR IS TO NOTIFY (AT A MINIMUM) THE FOLLOWING COMPANIES FOR LOCATION SERVICES:
ULOCO1-800-632-4949, 48 HOURS IN ADVANCE
BELL SOUTH.....1-800-392-8712 (STEVE DAYVAULT)
CAROLINA ONE CALL CENTER 1-800-632-4949
28. THERE SHALL BE NO ENCUMBRANCES WITHIN THE NCDOT RIGHT OF WAY.
29. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT (SD 15-14 CoW TECH STDS)
30. FIRE HYDRANTS CANNOT BE FURTHER THAN 6' FROM THE CURB.
31. PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OF FDC'S
32. FDC'S CAN BE NO FURTHER THAN 40' FROM FIRE DEPARTMENT VEHICLE PLACEMENT
33. FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT
34. BICYCLE PARKING IS PROVIDED ON THE SOUTHWEST CORNER OF PROPOSED BUILDING



SCALE 1" = 600'

VICINITY MAP
FEBRUARY, 2015
REVISED MARCH, 2016

LIST OF DRAWINGS

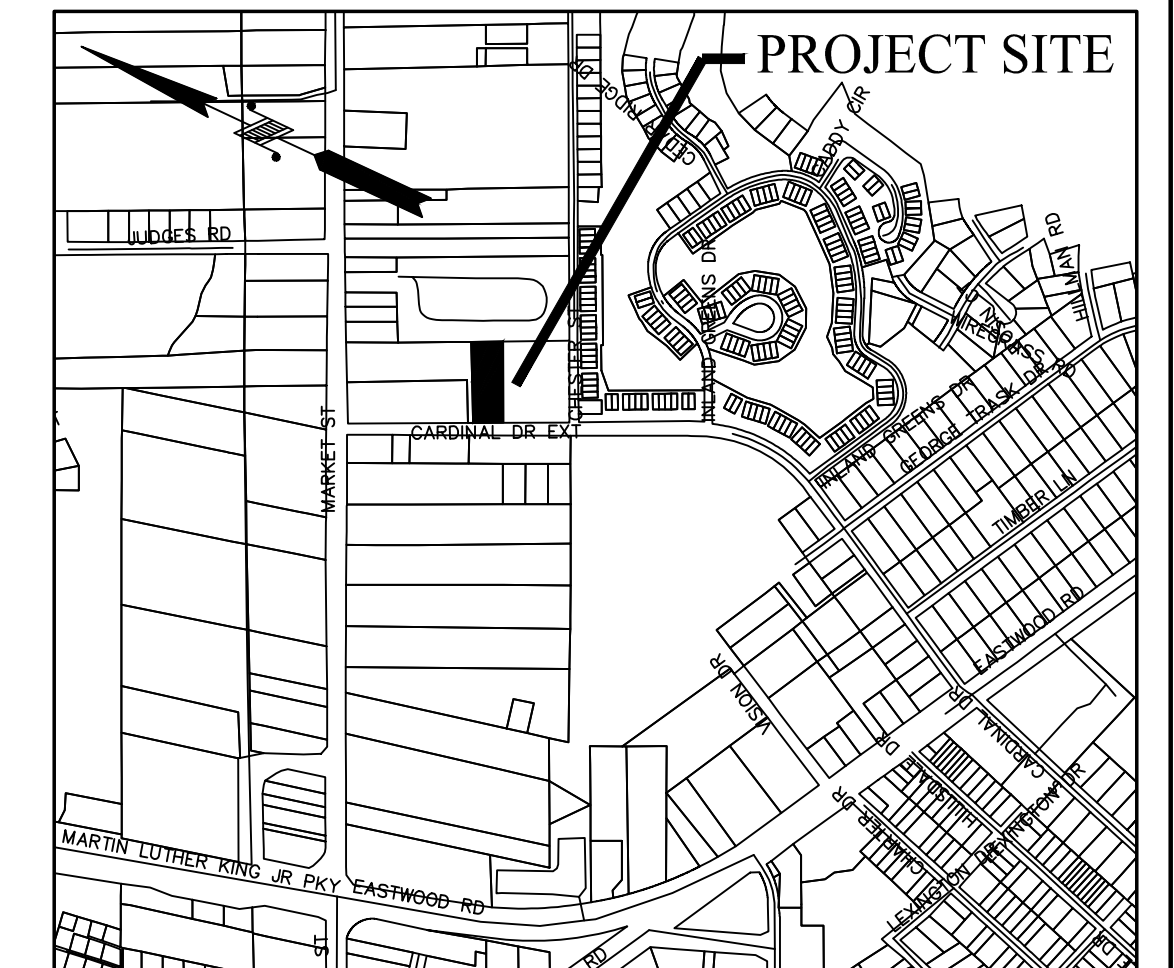
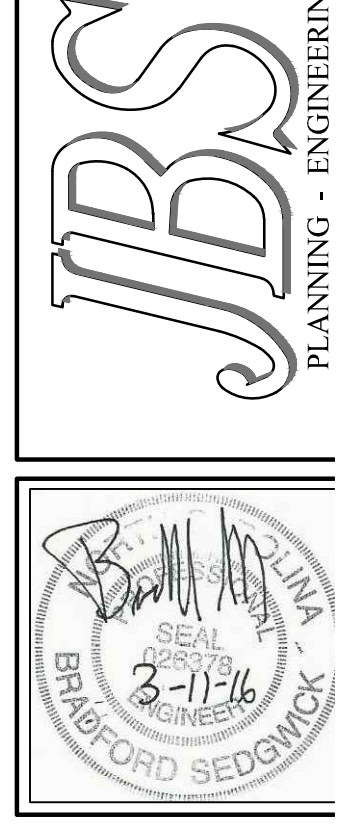
XX	COVER SHEET
C1	SITE PLAN
C2	GRADING, DRAINAGE & EROSION CONTROL
C3	DETAILS
C4	TREE SURVEY
C5	DRAINAGE BASINS
L1	LANDSCAPE PLAN
A201	PRELIMINARY BLDG ELEVATION & PLAN VIEW
OMITTED FROM COW SUBMITTAL	WSD-1 CFPUA WATER - STANDARD DETAILS
OMITTED FROM COW SUBMITTAL	SSD-2 CFPUA SEWER - STANDARD DETAILS

OWNER/DEVELOPER
CARD HOLDINGS, LLC
MR. EARL WORSLEY
1135 MILITARY CUTOFF
WILMINGTON, NC 28405
1-910-256-0044

CIVIL ENGINEER
JBS CONSULTING, PA
BRAD SEDGWICK, PE
7332 COTESWORTH DRIVE
WILMINGTON, NC 28405
1-910-619-9990

SURVEYOR
GEOINNOVATION, PC
MR. DEAN EXLINE, PLS
311 JUDGES ROAD
SUITE 3D
WILMINGTON, NC 28405
1-910-367-2110





VICINITY MAP
 NTS

SITE DATA

ADDRESS 123 CARDINAL DRIVE EXTENSION
 WILMINGTON, NC 28405

PARCEL ID NUMBERS R05010-001-022-000
 DEED BOOK & PAGE D.B. 5295 PG. 293
 MAP BOOK & PAGE M.B. 60 PG. 239
 ZONING RB-REGIONAL BUSINESS
 CITY OF WILMINGTON

TOTAL LOT AREA 1.04

CAMA LAND USE CLASSIFICATION .. URBAN
 PROPOSED USE.....OFFICE

NUMBER OF BUILDINGS 1 PROPOSED
BUILDING SQUARE FOOTAGE
 TOTAL..... 9,000 SF

RB - REGIONAL BUSINESS

	REQUIRED	PROPOSED
MIN. LOT AREA	1 ACRE	1.04 ACRES
MIN. LOT WIDTH	100'	113.74'
MAX. LOT COVERAGE	40%	20.05% (9000/45,302)
FRONT BUILDING SETBACK	25'	25'
REAR BUILDING SETBACK	25'	30'
SIDE BUILDING SETBACK	0'	10.25'
MAX. BUILDING HEIGHT	35'	EAVE HEIGHT = 11' PEAK HEIGHT = 21.5'

PARKING REQUIREMENTS

NUMBER OF SPACES	1 PER 300 MIN (9000/300) = 30 SPACES
	1 PER 200 MAX (9000/200) = 45 SPACES
PROPOSED SPACES.....	30 SPACES + 2 H/C = 32

BUA CALCULATIONS

	ACTUAL	PER PERMIT
NCDENR PERMIT SWB 920211 (EXISTING)	90,086 SF	124,200 SF
PROPOSED BUA		
PROPOSED PARKING LOT	13,315 SF	
UNDER DRIP LINE PRO BUILDING	9,328 SF	
S/W NOT UNDER DRIP LINE	1,269 SF	
TOTAL	23,959 SF	
% IMPERVIOUS (23,959 + 90,086) / 190,357)		60%

OVERLAY DISTRICTS

THE SITE IS NOT IN A KNOWN OVERLAY DISTRICT

FLOOD INFORMATION

PER FLOOD MAP 37203314800J THIS SITE IS IN A "X" ZONE.

STORMWATER - THIS SITE IS COVERED UNDER AN EXISTING NCDENR STORMWATER PERMIT # SWB 20211 AND OFFSITE SUPPLEMENT SWB 970715. ACCORDING TO THE PERMIT THERE IS EXTRA ALLOWABLE BUA ALLOWED FOR THIS DEVELOPMENT. THIS DEVELOPMENT CAN BE COVERED BY THE EXTRA ALLOWABLE BUA IN THE PERMIT. PERMIT FROM CITY OF WILMINGTON WILL BE REQUESTED.

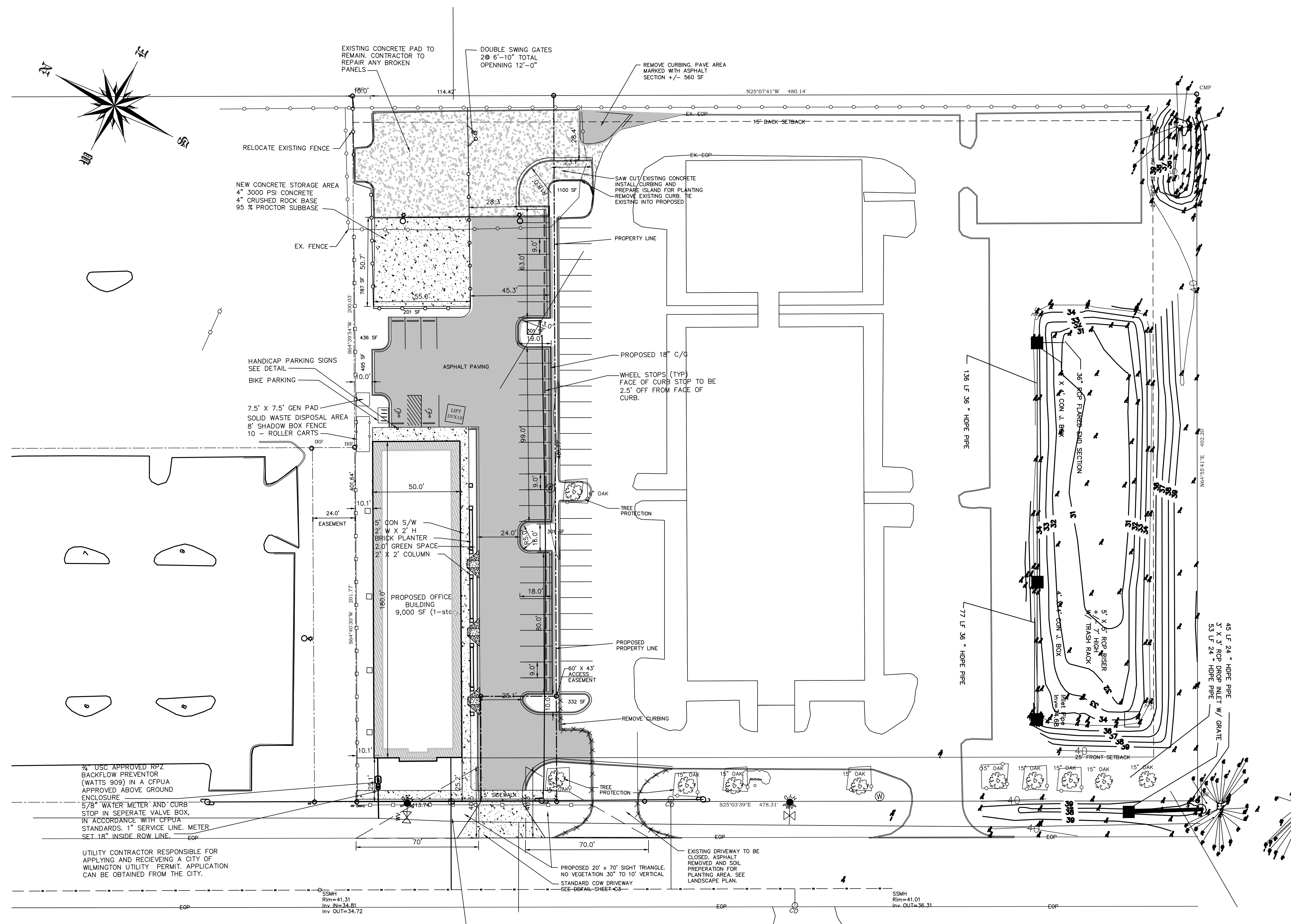
WATER/SEWER INFO

GENERAL OFFICE 25 GPD/EMPLOYEE/SHIFT
 3 EMPLOYEES/4 OFFICES/ 1 SHIFT = 300 GPD

WATER USE - CURRENT - 0 GPD
 WATER USE - PROPOSED - 300 GPD
 SEWER USE - CURRENT - 0 GPD
 SEWER USE - PROPOSED - 300 GPD

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD SEWER NOTES

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GAURDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS
- SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY. SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR OR ORGNATE IN MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
- ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
- MINIMUM 10' UTILITY EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTNERS SHALL BE 316.



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

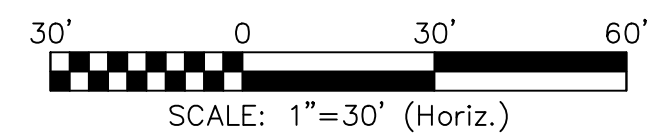
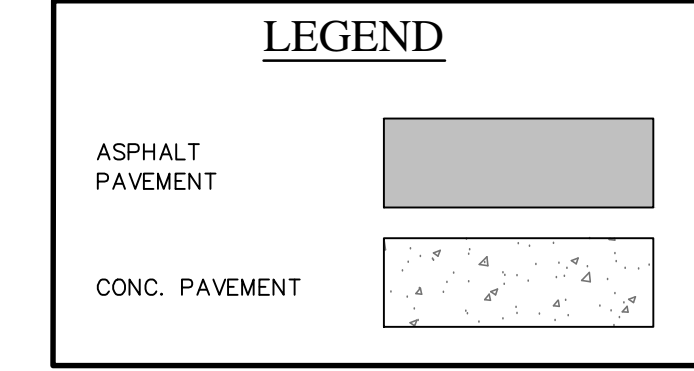
Fire _____

STORMWATER MANAGEMENT PLAN
APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

SIGNED _____

SITE PLAN
 SCALE 1" = 30'



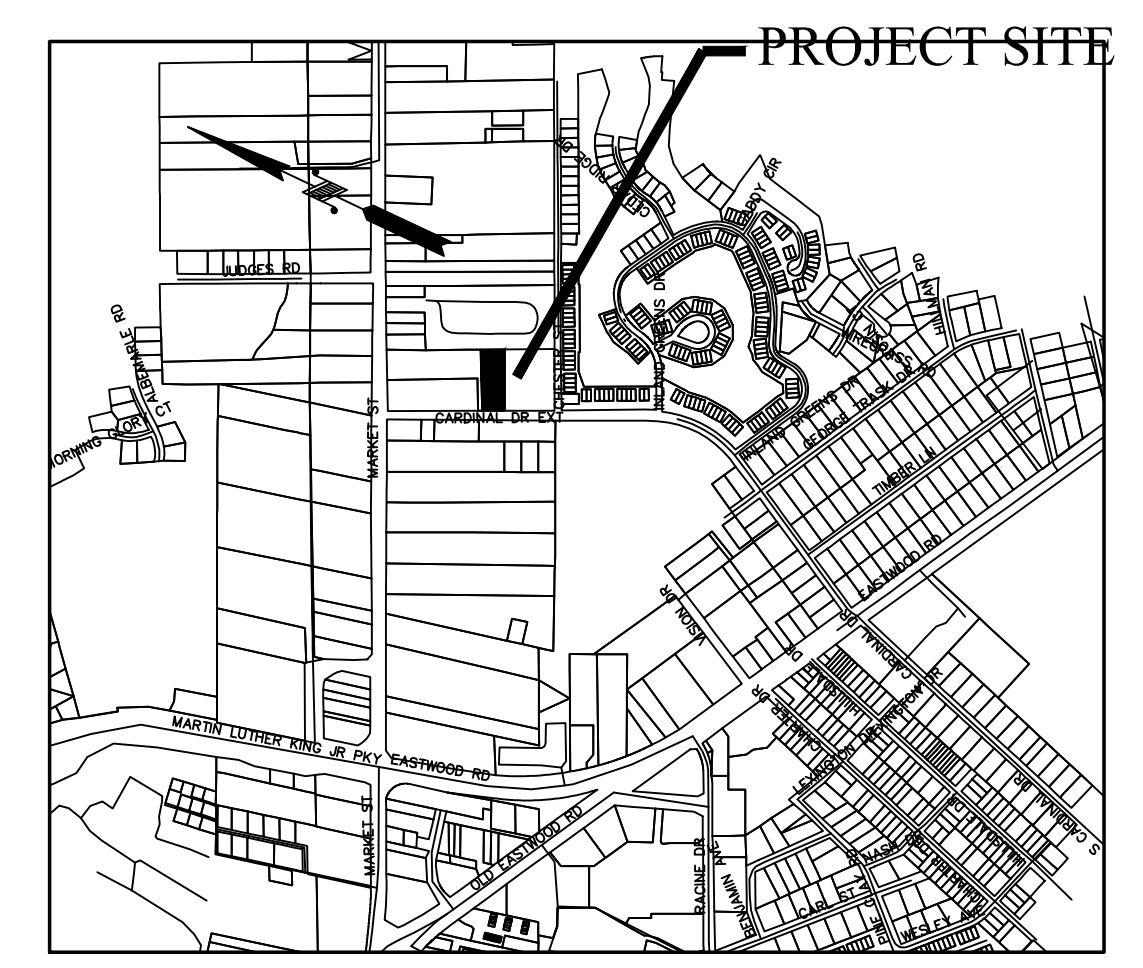
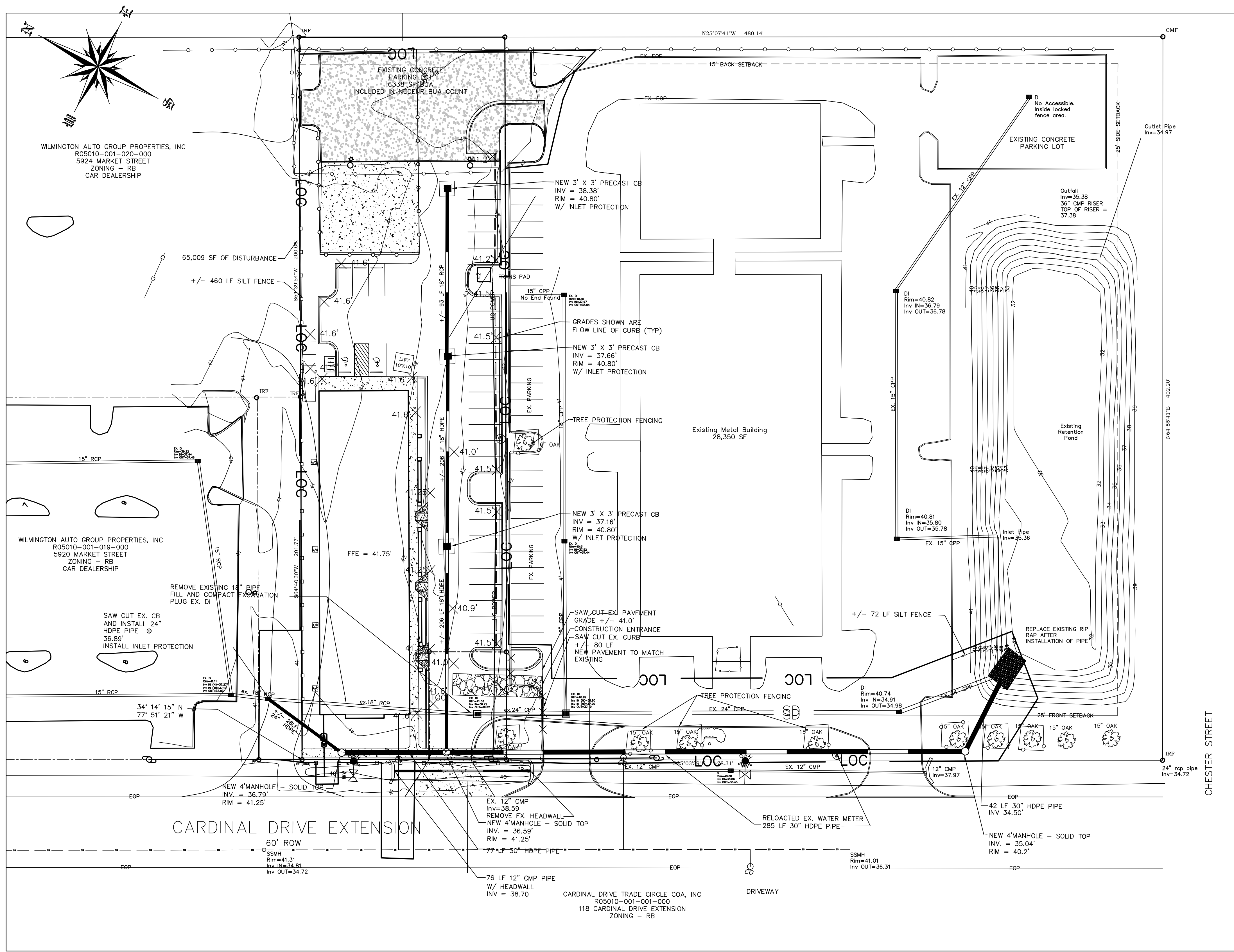
NO WETLAND WITHIN PROJECT AREA

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

NO WETLAND WITHIN PROJECT AREA



REVISION	DATE	DESCRIPTION
R4	5-12-15	REVISED PER PLANNING AND TRAFFIC COMMENTS
R3	5-7-15	CFPUA 5-7-15 COMMENTS ADDRESSED
R2	4-22-15	SUBMITTED TO COM WITH TRC COMMENTS ADDRESSED
R1	4-22-15	ISSUED



VICINITY MAP
NTS

GRADING NOTES

1. INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING, GRUBBING AND GRADING OPERATIONS.
2. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
3. STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.
4. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.
5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1 SLOPES.
6. ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR.
7. PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
8. OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

CONSTRUCTION SEQUENCE

1. OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
2. HOLD A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL INSPECTOR.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCE AND SILT FENCE. COMMENCE CLEARING AND ROUGH GRADING OPERATIONS TO ESTABLISH DIVERSION SWALES AND SEDIMENT TRAPS AND BASIN.
4. ROUGH GRADE SITE AND INSTALL UNDERGROUND UTILITIES.
5. PROVIDE TEMPORARY PROTECTION MEASURES AND DEVICES AS REQUIRED UNTIL UNDERGROUND UTILITIES AND PAVEMENT SECTION IS COMPLETE AND FINAL GRADES ARE STABILIZED WITH TEMPORARY VEGETATIVE COVER.
6. STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
7. ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES.

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF - PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. INSPECT SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN DESIGNATED DISPOSAL AREA, AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.
3. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
4. ALL AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
5. GRAVEL CONSTRUCTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS DEPOSITED ON THE ASPHALT AND STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6 INCH DEPTH.
6. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1" OR GREATER) RAINFALL EVENT. CLEAR THE WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

EROSION CONTROL NOTES

1. ANY CONSTRUCTION ACTIVITY BEYOND THE 1.2 ACRE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO FINES.
2. CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN ROAD RIGHT OF WAYS UNLESS OTHERWISE DESIGNATED TO REMAIN.
3. CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITH IN THE LIMITS OF CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
5. CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
6. THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
7. ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS OF COMPLETION OF GRADING. STABILIZE AREAS OTHER THAN SLOPES WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.
8. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPARTMENT.
9. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
10. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
11. IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, AND TACKED.

GRADING, DRAINAGE, EROSION CONTROL
SCALE 1" = 30'

Approved Construction Plan

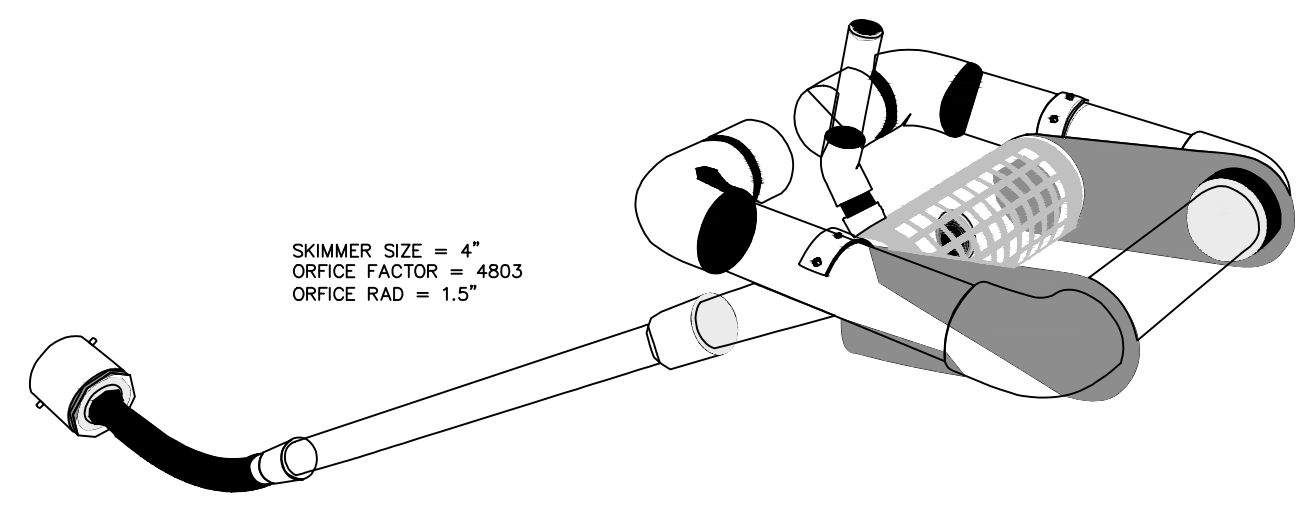
Name	Date
Planning	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____
SIGNED _____

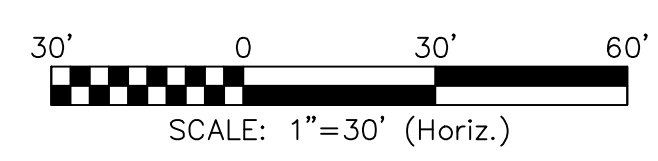
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FAIRCLOTH FLOATING SKIMMER
NOT TO SCALE

LEGEND

PRO. ASPHALT PAVEMENT	[Symbol]
EX. SPOT ELEVATION	29.63
PROPOSED SPOT ELEVATION	x 33.33
SILT FENCE	[Symbol]
TREE PROTECTION FENCE	[Symbol]
PRO. CONC. PAVEMENT	[Symbol]
PRO. TOP CONCRETE STRIP	TOCS



NO WETLAND WITHIN PROJECT AREA

REVISION	DATE	DESCRIPTION
R4	5-12-15	REVISED PER PLANNING AND TRAFFIC COMMENTS
R3	4-22-15	SUBMITTED TO COW WITH TRC COMMENTS ADDRESSED
R2		
R1		



DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: FEBRUARY, 2015

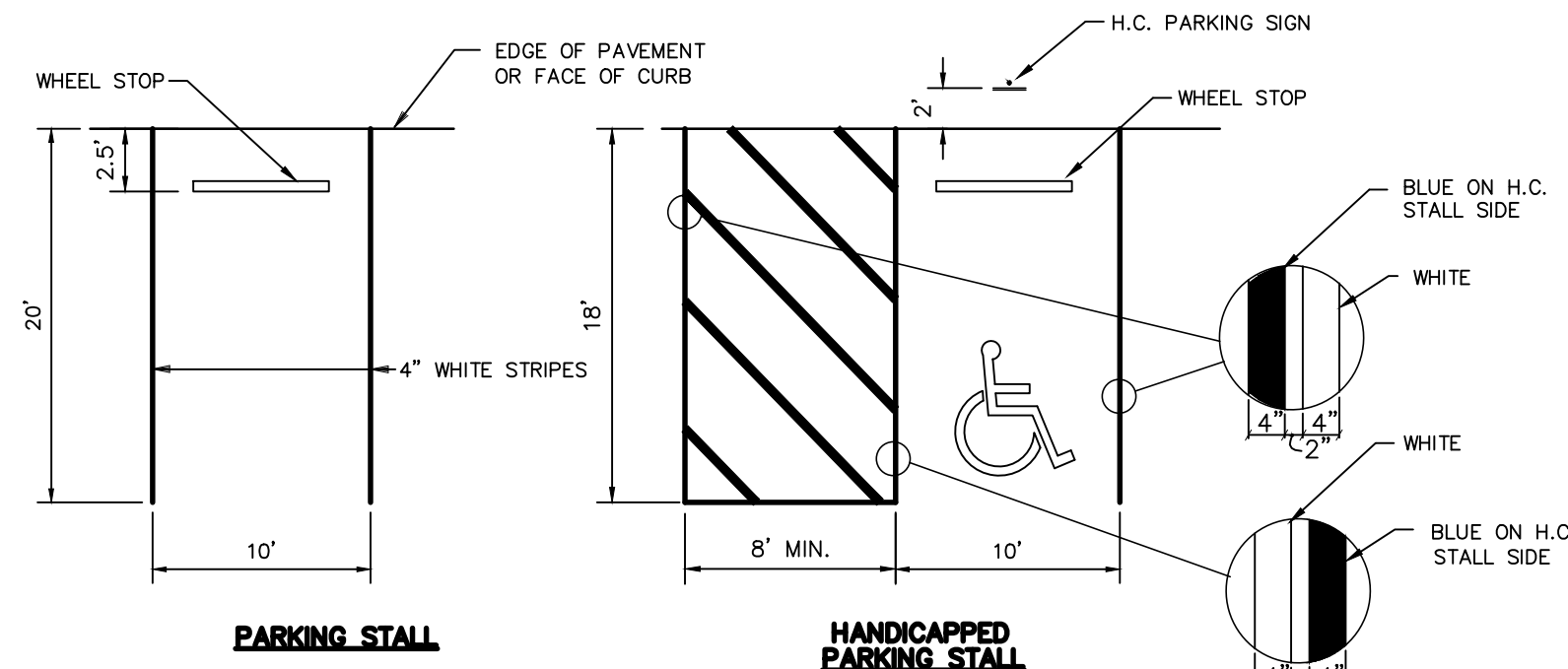
JBS CONSULTING, PA
7332 Cotesworth Drive
Wilmington, NC 28045
(910) 619-9990
LICENSE NUMBER C-2525
PLANNING - ENGINEERING - PROJECT MANAGEMENT

GRADING, DRAINAGE, EROSION CONTROL

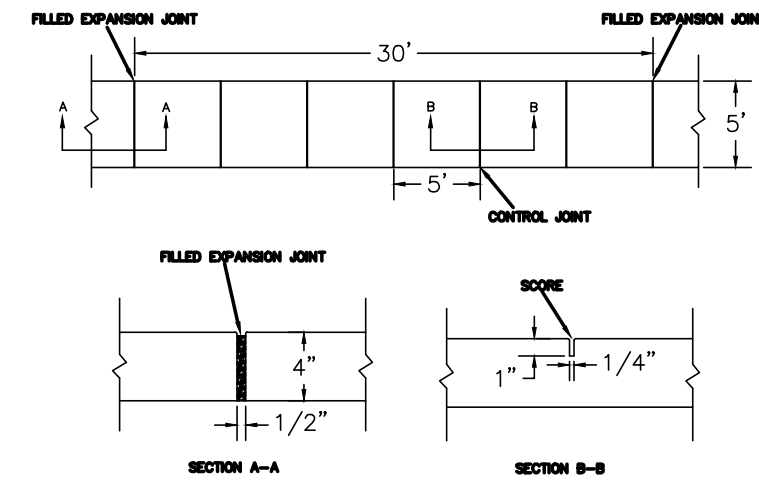
GOVERNMENT RESOURCE CENTER
127 CARDINAL DRIVE EXTENSION
WILMINGTON, NORTH CAROLINA 28405

CARD HOLDINGS, LLC
1135 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
1-910-256-0044

SHEET
C2
of 6
JOB NO. 051-004

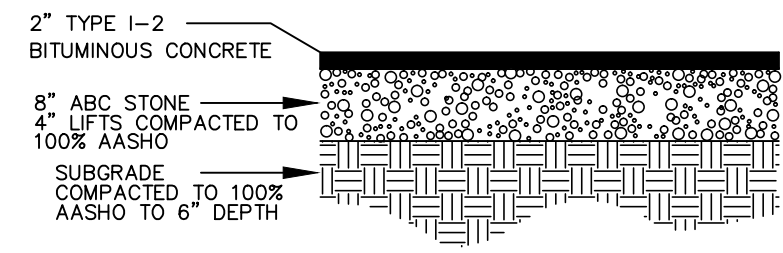


PARKING DETAIL
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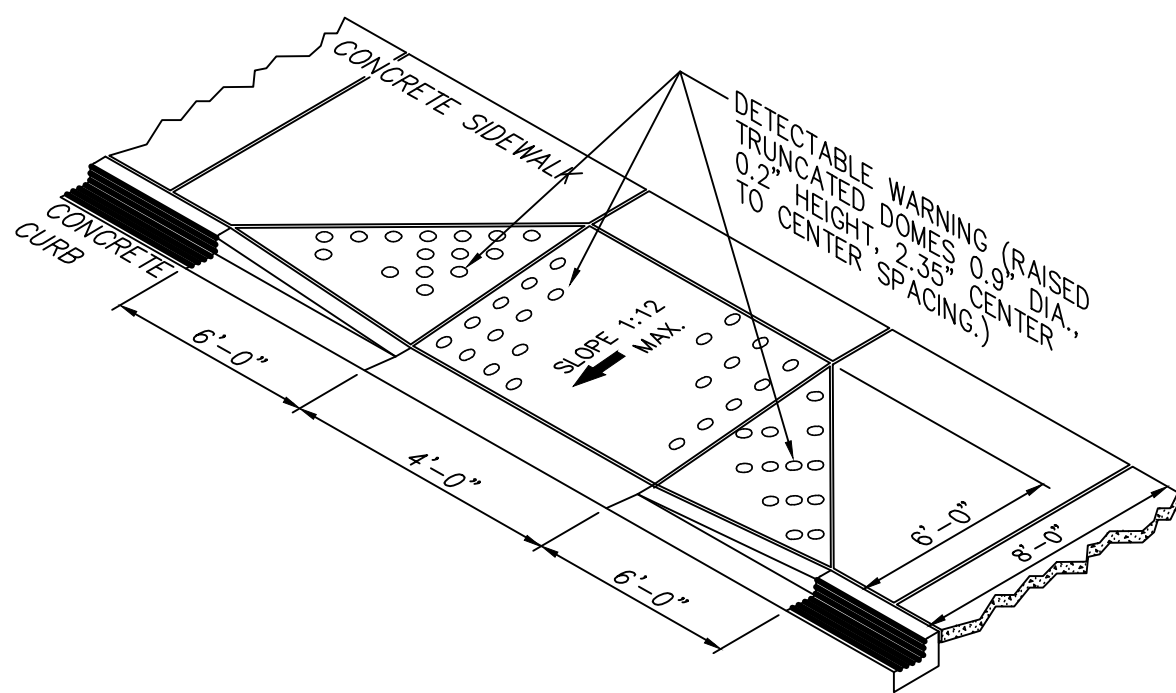


1. JOINT MATERIAL TO COMPLY WITH CURRENT MCDOT STANDARDS.
2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LBS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 4' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS EXCEPT ANY PORTION CONTAINING A DRIVEWAY APPROX. SHALL BE CLASS "C" 3000 P.S.I. CONCRETE.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 2' x 2' PANEL.
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
7. MINIMUM DEPTH FOR TRENCHES BELOW SIDEWALK IS 18".
8. MAX ADJUSTMENT GROUND SLOPE WITHOUT SLOPING IS 3:1.
9. MIN GRADE FOR PROPER DRAINAGE IS 1/4" IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE OR NO GREATER THAN 1/4" PER 1'-0".
10. SLOPE OF THE EXISTING ADJACENT ROAD.

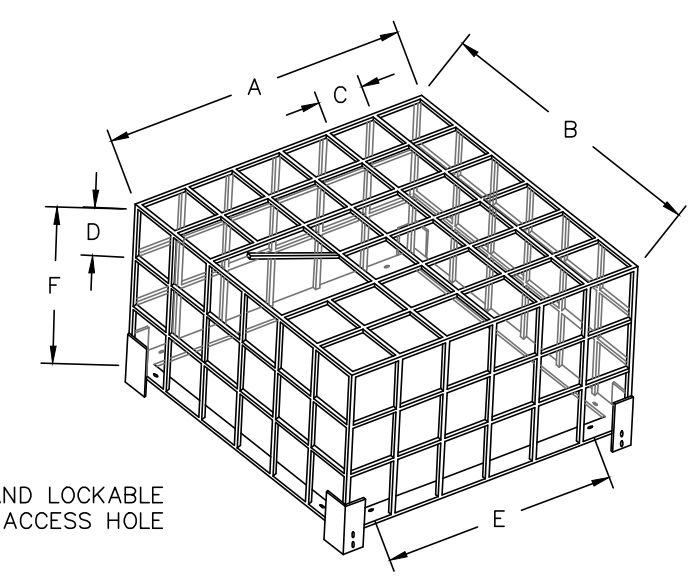
CONCRETE WALK SECTION
SD 8-10



ASPHALT PAVEMENT SECTION
NOT TO SCALE

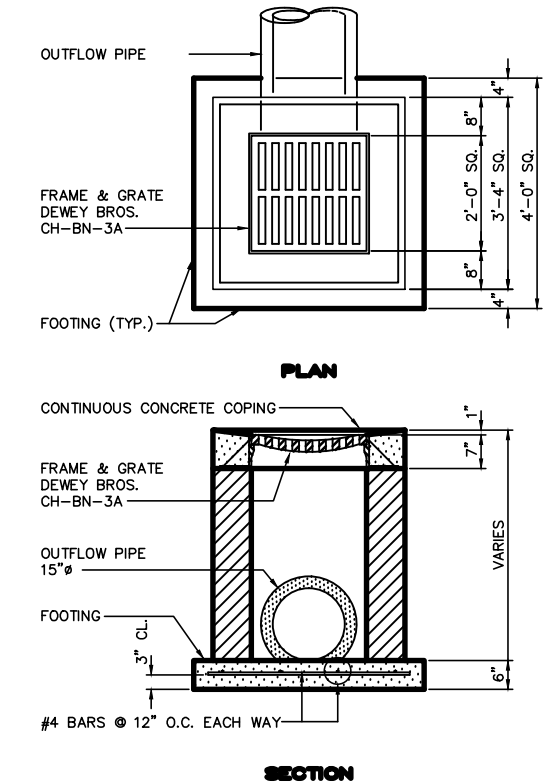


HANDICAPPED RAMP
NOT TO SCALE

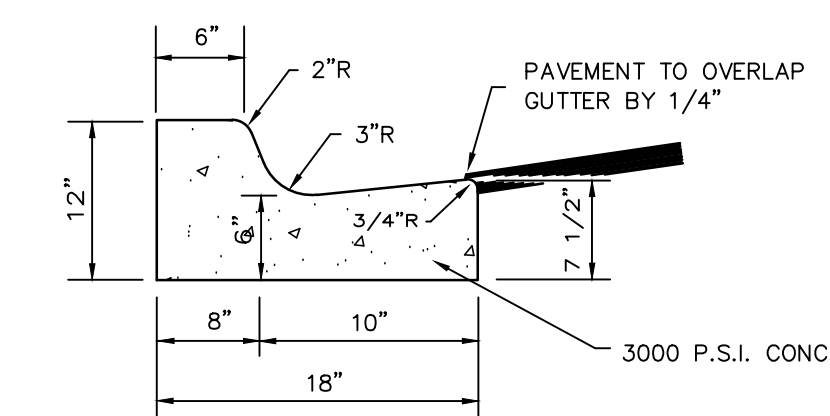


- DIMENSIONS:**
 A: 60"
 B: 60"
 C: 6"
 D: 6"
 E: 52"
 F: 12"
- MATERIALS:**
 FLAT PLATE: 1/2"
 FLAT ANGLE: 1/4"
 BAR STOCK: #4
 HOLE SIZE: 3/8"
 COATING: N/A
 HINGED: N/A

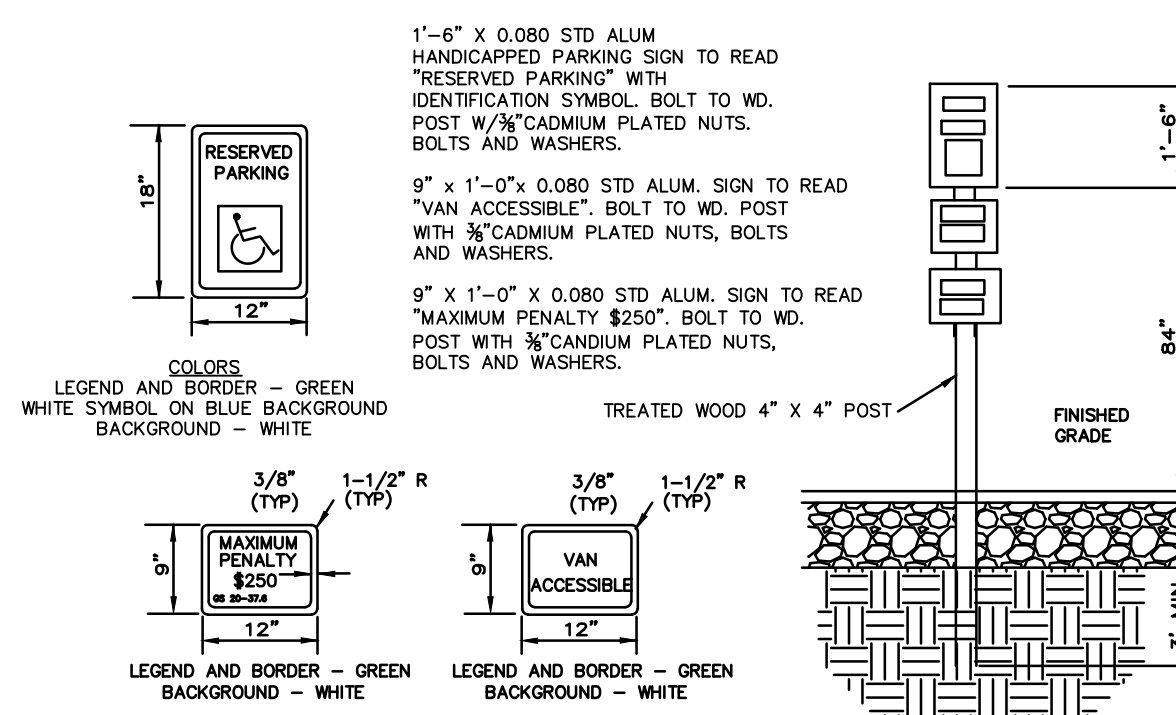
TRASH RACK DETAILS
NOT TO SCALE



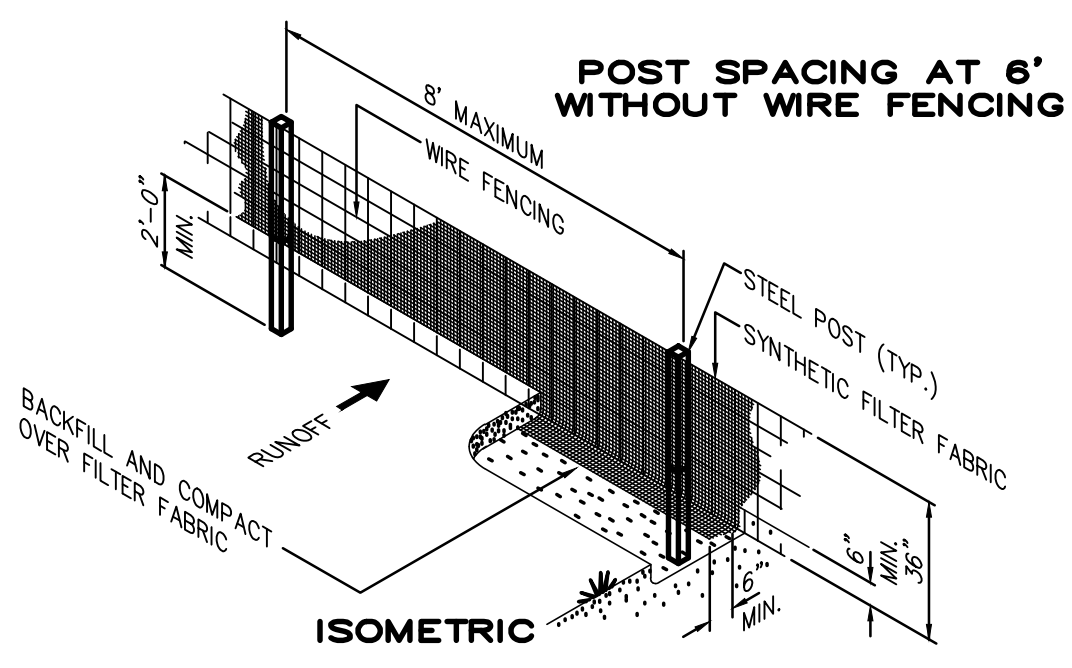
DROP INLET DETAIL
NOT TO SCALE



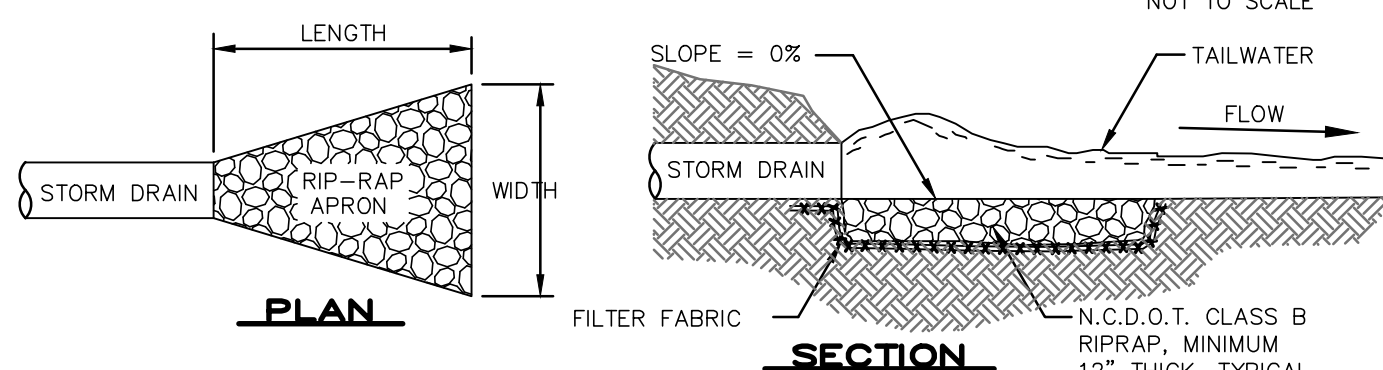
18" CURB AND GUTTER DETAIL
NOT TO SCALE



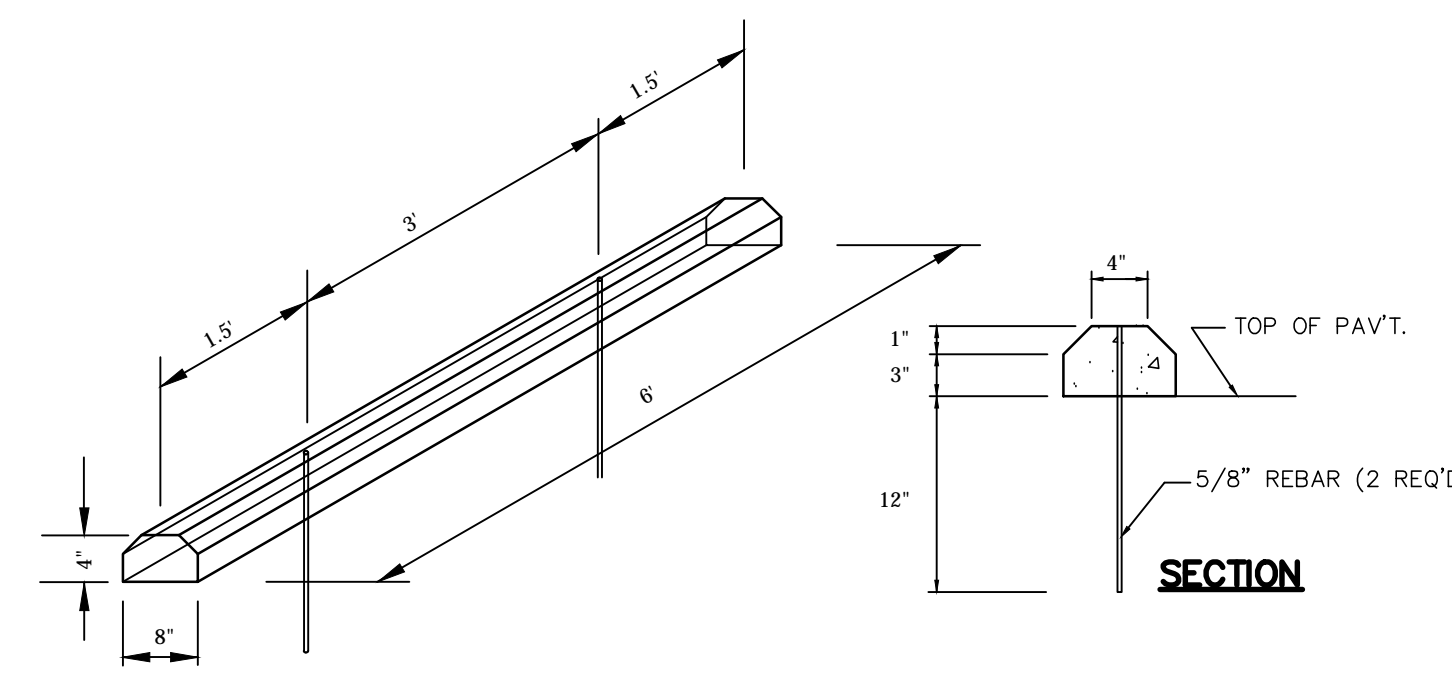
TYPICAL HANDICAP SIGN DETAIL



SILT FENCE DETAIL
NOT TO SCALE



RIP-RAP ENERGY DISSIPATER
NOT TO SCALE



WHEEL STOP DETAIL
NOT TO SCALE

LABEL	1) GROUND STABILIZATION	2) BUILDING WASTES HANDLING
[Symbol]	SITE AREA DESCRIPTION	-NO PAINT OR LIQUID WASTES IN STREAM OF STORM DRAINS
[Symbol]	STABILIZATION TIME FRAME	-DEDICATED AREAS FOR DETENTION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE
[Symbol]	PERIMETER DIKES, DITCHES AND SLOPES	-EARTHEN MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE
[Symbol]	HIGH QUALITY WATER (HOW) ZONES	-CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.
[Symbol]	SLOPES STEEPER THAN 3:1	3) INSPECTIONS
[Symbol]	SLOPES 3:1 OR FLATTER	-SAME WEEKLY INSPECTION REQUIREMENTS
[Symbol]	SLOPES 3:1 OR FLATTER	-SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT
[Symbol]	SLOPES 3:1 OR FLATTER	-INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
[Symbol]	SLOPES 3:1 OR FLATTER	-INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED
[Symbol]	SLOPES 3:1 OR FLATTER	-RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST
[Symbol]	SLOPES 3:1 OR FLATTER	-ELECTRONICALLY-AVAILABLE RECORDS MAY BE SUBSTITUTES UNDER CERTAIN CONDITIONS
[Symbol]	SLOPES 3:1 OR FLATTER	4) SEDIMENT BASINS
[Symbol]	SLOPES 3:1 OR FLATTER	-OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACES UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE
[Symbol]	SLOPES 3:1 OR FLATTER	-USE ONLY DWO-APPROVED FLOCCULANTS
[Symbol]	SLOPES 3:1 OR FLATTER	-NPDES - SPECIFIC PLAN SHEET NOTES
[Symbol]	SLOPES 3:1 OR FLATTER	1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000.
[Symbol]	SLOPES 3:1 OR FLATTER	2. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
[Symbol]	SLOPES 3:1 OR FLATTER	3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
[Symbol]	SLOPES 3:1 OR FLATTER	4. THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

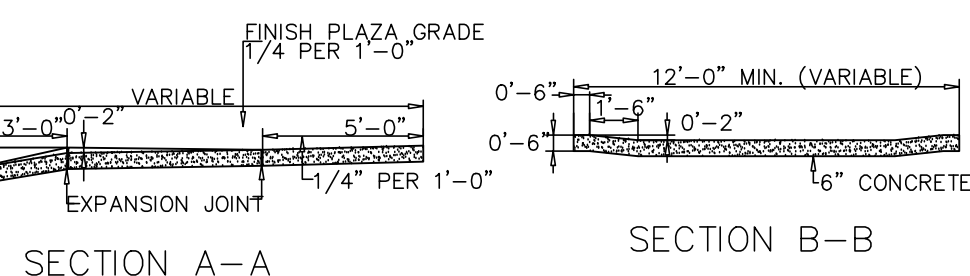
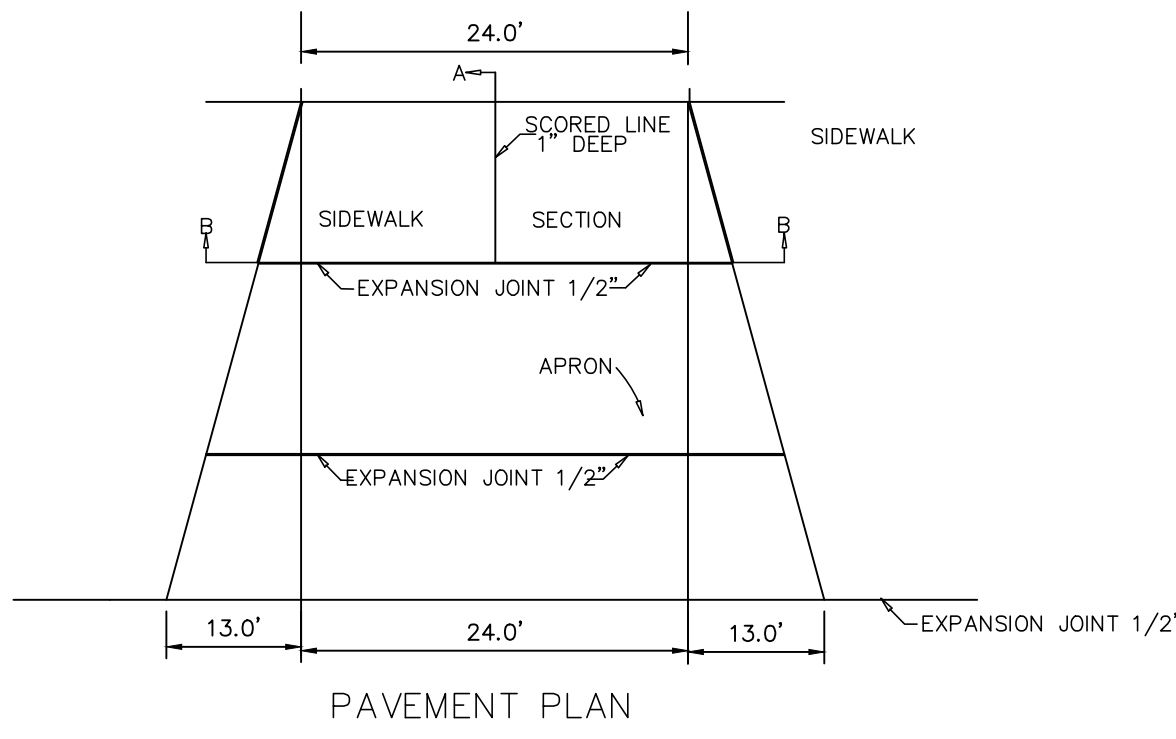
Fire _____

STORMWATER MANAGEMENT PLAN APPROVED

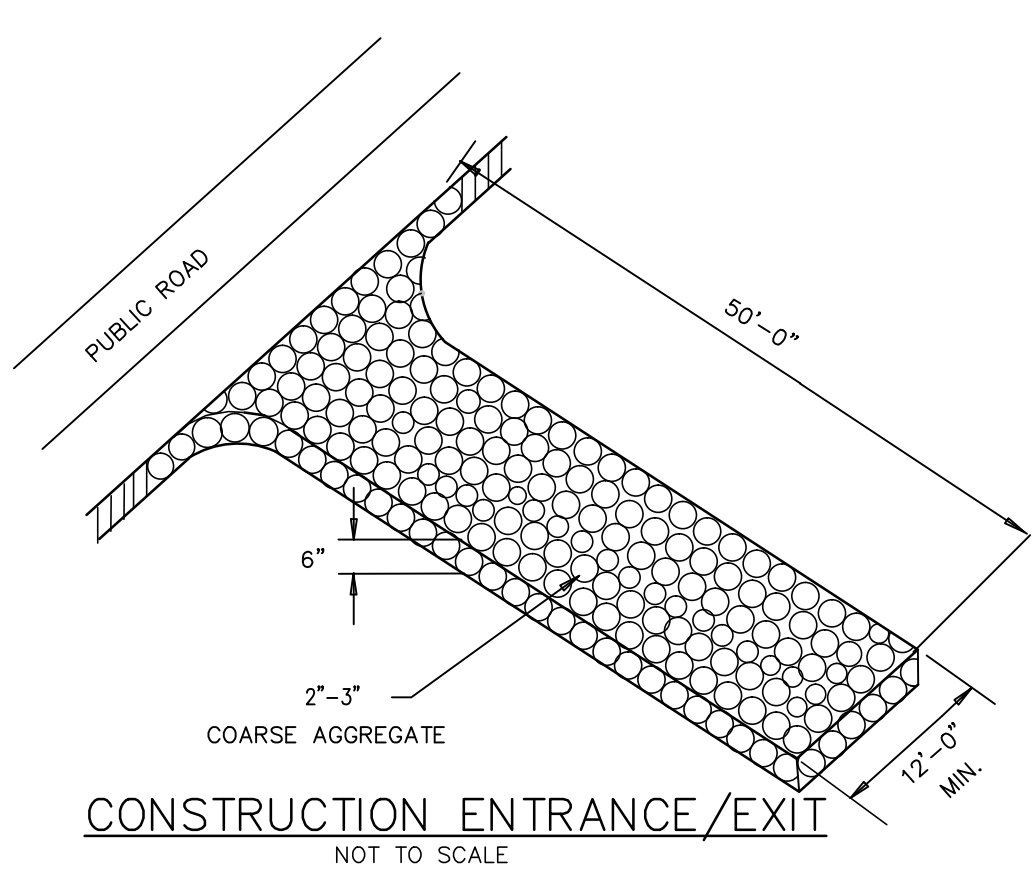
CITY OF WILMINGTON
 ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

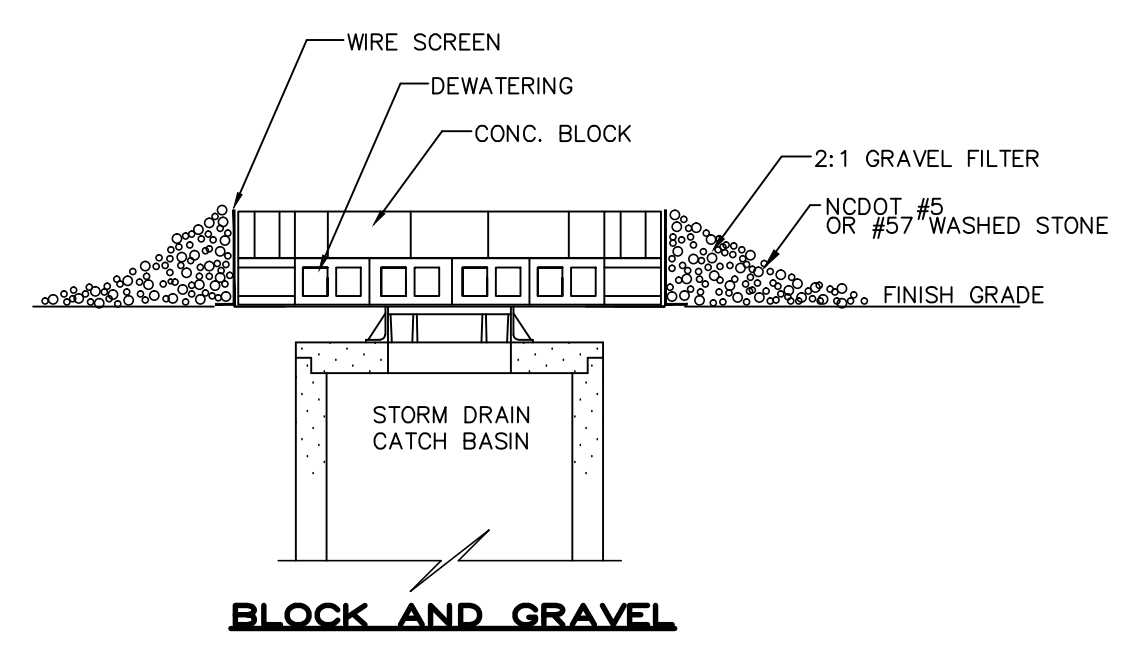
SIGNED _____



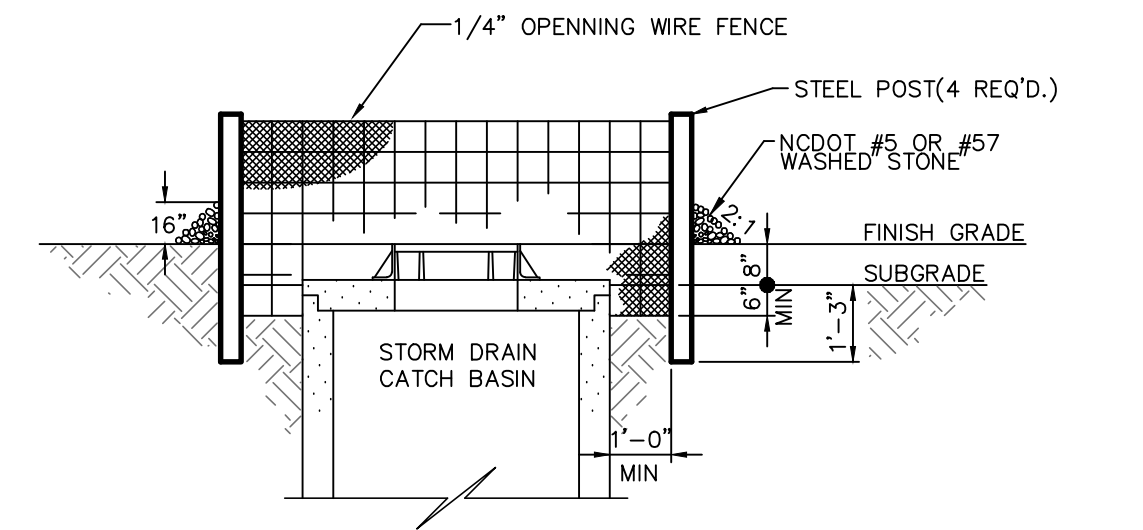
STANDARD DRIVEWAY DETAIL
SD 8-02
NOT TO SCALE



CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE



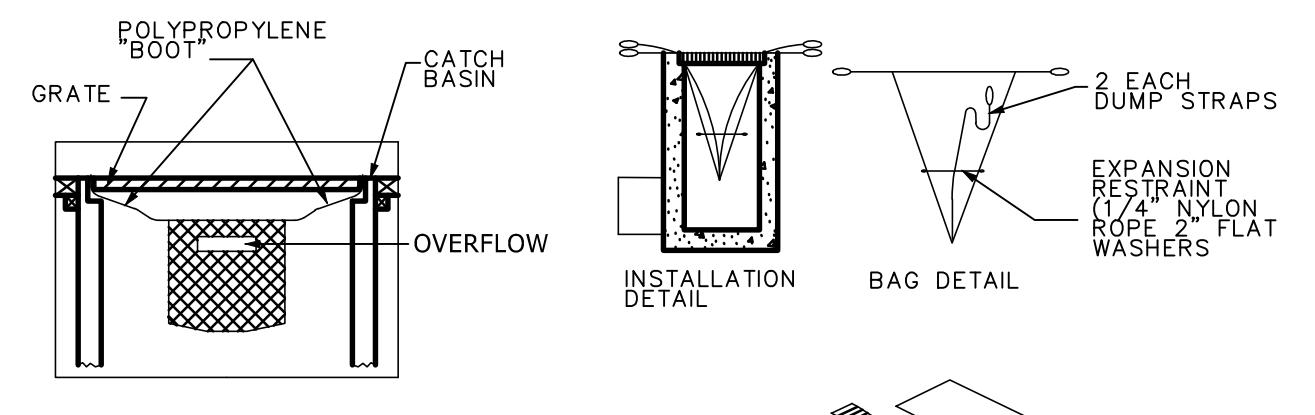
BLOCK AND GRAVEL



SILT FENCE

NOTE: USE BLOCK AND GRAVEL INLET PROTECTION IN AREAS WHERE SILT FENCE INLET PROTECTION CAN NOT BE INSTALLED.

INLET SEDIMENTATION CONTROL
NOT TO SCALE



TEMPORARY INLET SEDIMENT FILTER

NOTE: TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STRENGTHGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (706-767-5841) OR SILTSACK AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.

SILT SACK DETAIL
NTS

DESIGN BY: BDS
 DRAWN BY: BDS
 CHECKED BY: BDS
 DATE: FEBRUARY, 2015

JBS CONSULTING, PA
 7332 Colesworth Drive
 Wilmington, NC 28045
 (910) 619-9990
 LICENSE NUMBER C-2525
 PLANNING - ENGINEERING - PROJECT MANAGEMENT



DETAILS
GOVERNMENT RESOURCE CENTER
 127 CARDINAL DRIVE EXTENSION
 WILMINGTON, NORTH CAROLINA 28405

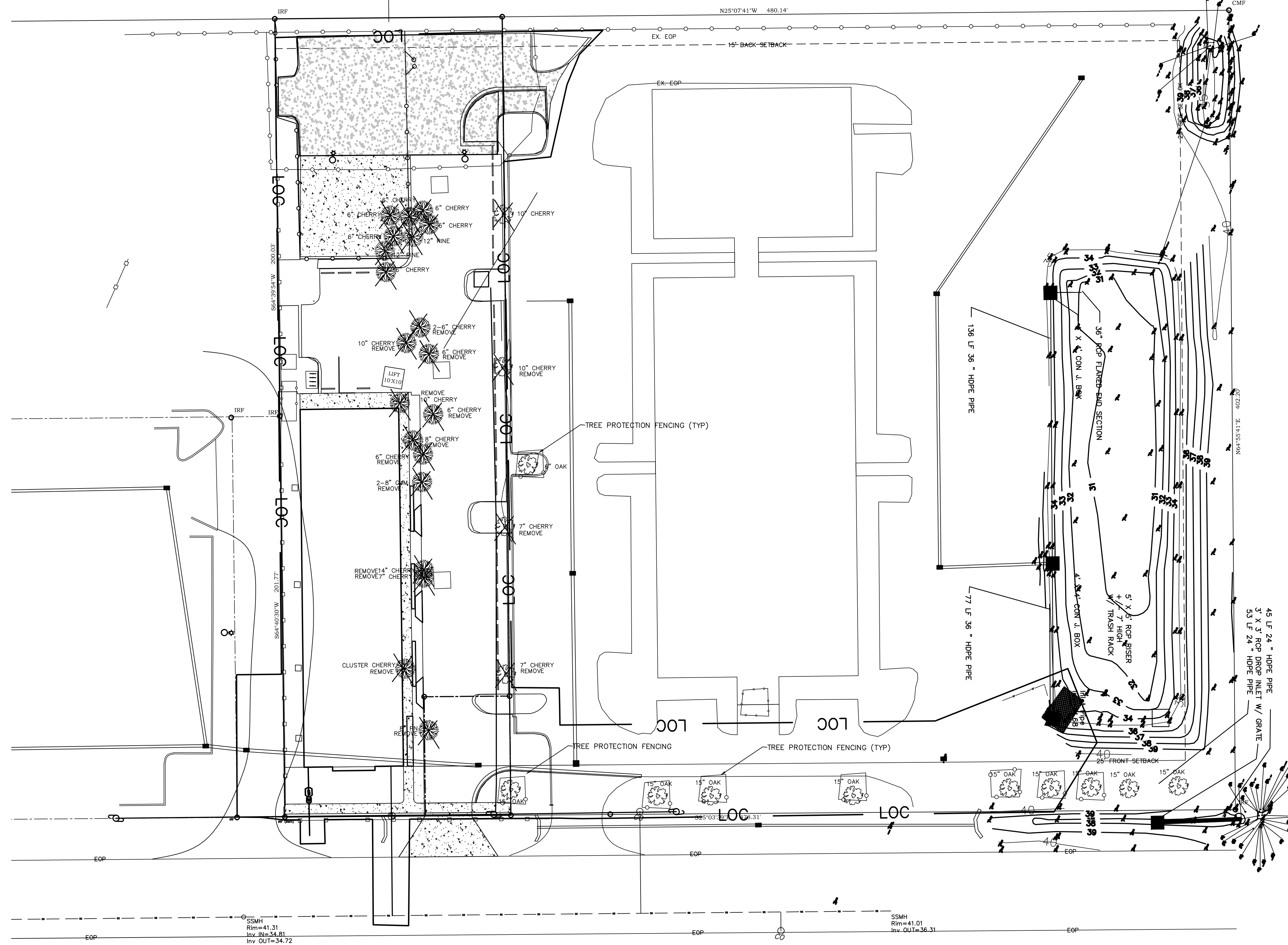
CARD HOLDINGS, LLC
 1135 MILITARY CUTOFF ROAD
 WILMINGTON, NC 28405
 1-910-256-0044

SHEET
C3
 of 6
 JOB NO. 051-004

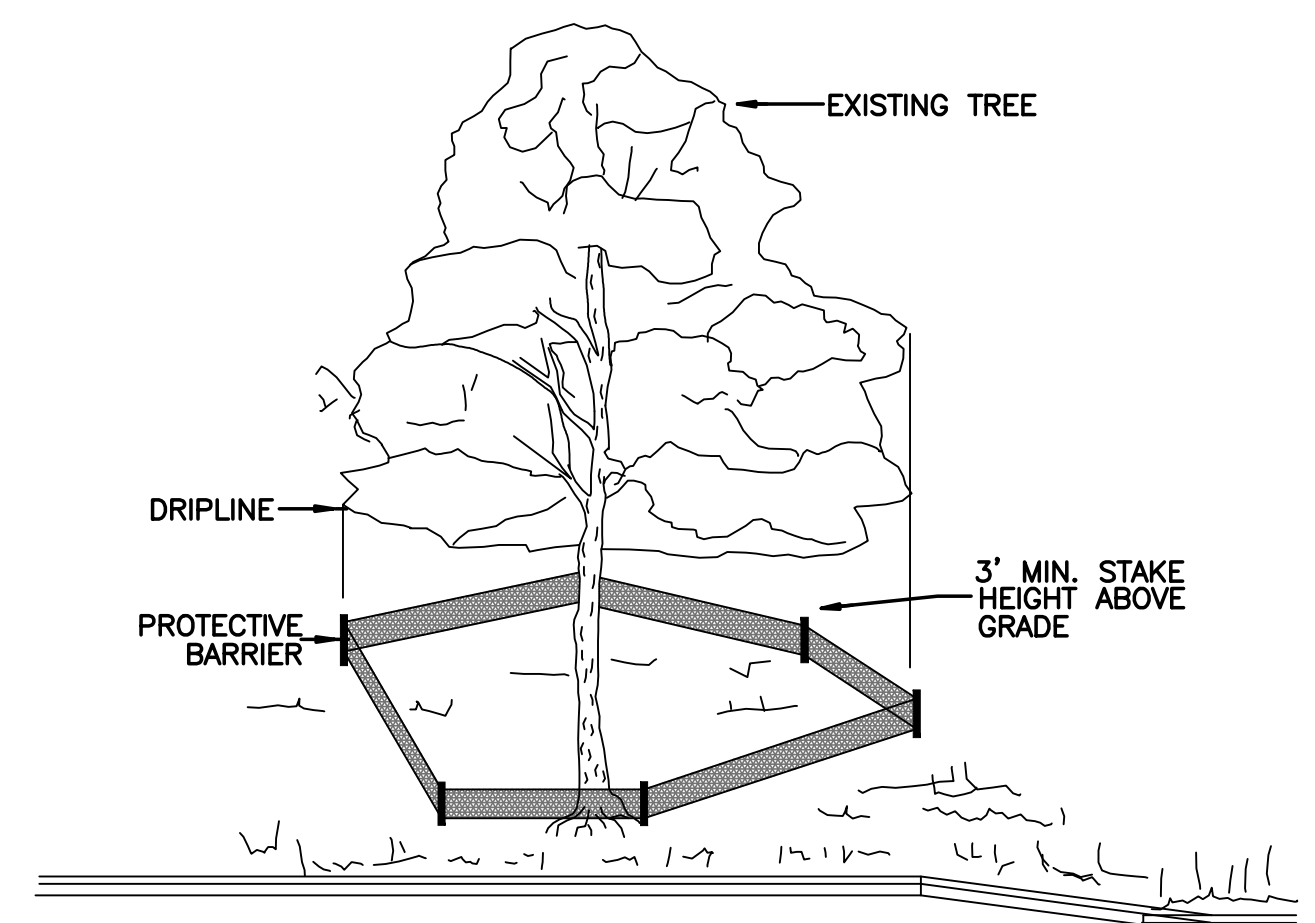
REVISION NUMBER	DATE	REVISION
R4	5-12-15	REVISED PER PLANNING AND TRAFFIC COMMENTS
R2	4-22-15	SUBMITTED TO COV WITH TRC COMMENTS ADDRESSED

NO.	DATE	REVISION
1	5-12-15	REVISED PER PLANNING AND TRAFFIC COMMENTS
2	4-22-15	SUBMITTED TO COW WITH TRC COMMENTS ADDRESSED
3		REVISION

3/11/2016 4:31:32 PM

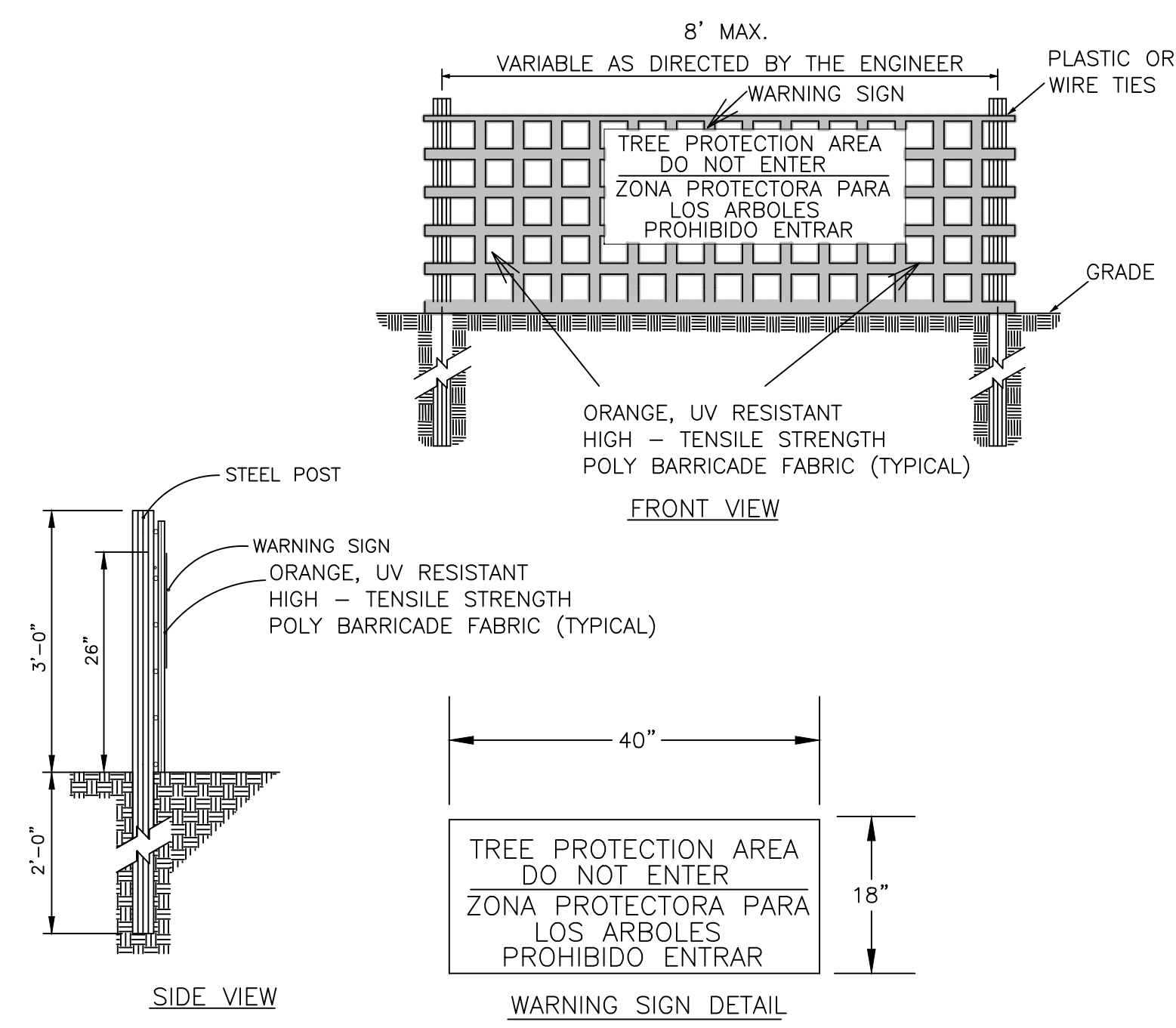


TREE INVENTORY MAP
SCALE 1" = 30'



TREES TO BE SAVED WILL BE CLEARLY MARKED PRIOR TO CONSTRUCTION AND A PROTECTIVE BARRIER IS TO BE INSTALLED AT THE DRIPLINE.
DRIPLINE - THE AREA OF SOIL DIRECTLY BENEATH THE TREE EXTENDING OUT TO THE TIPS OF THE OUTERMOST BRANCHES.
CONTRACTOR TO COMPLY WITH COW SIGN ORDINANCE FOR MARKING FENCING

METHOD OF TREE PROTECTION DURING CONSTRUCTION
SD 15-08
NOT TO SCALE

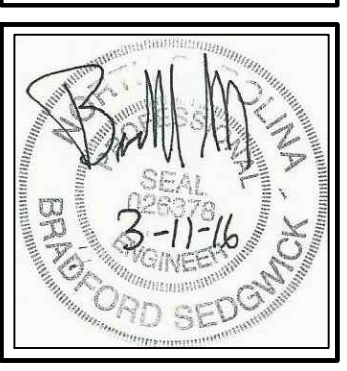


- NOTES:
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

TREE PROTECTION DURING CONSTRUCTION
SD 15-09
NOT TO SCALE

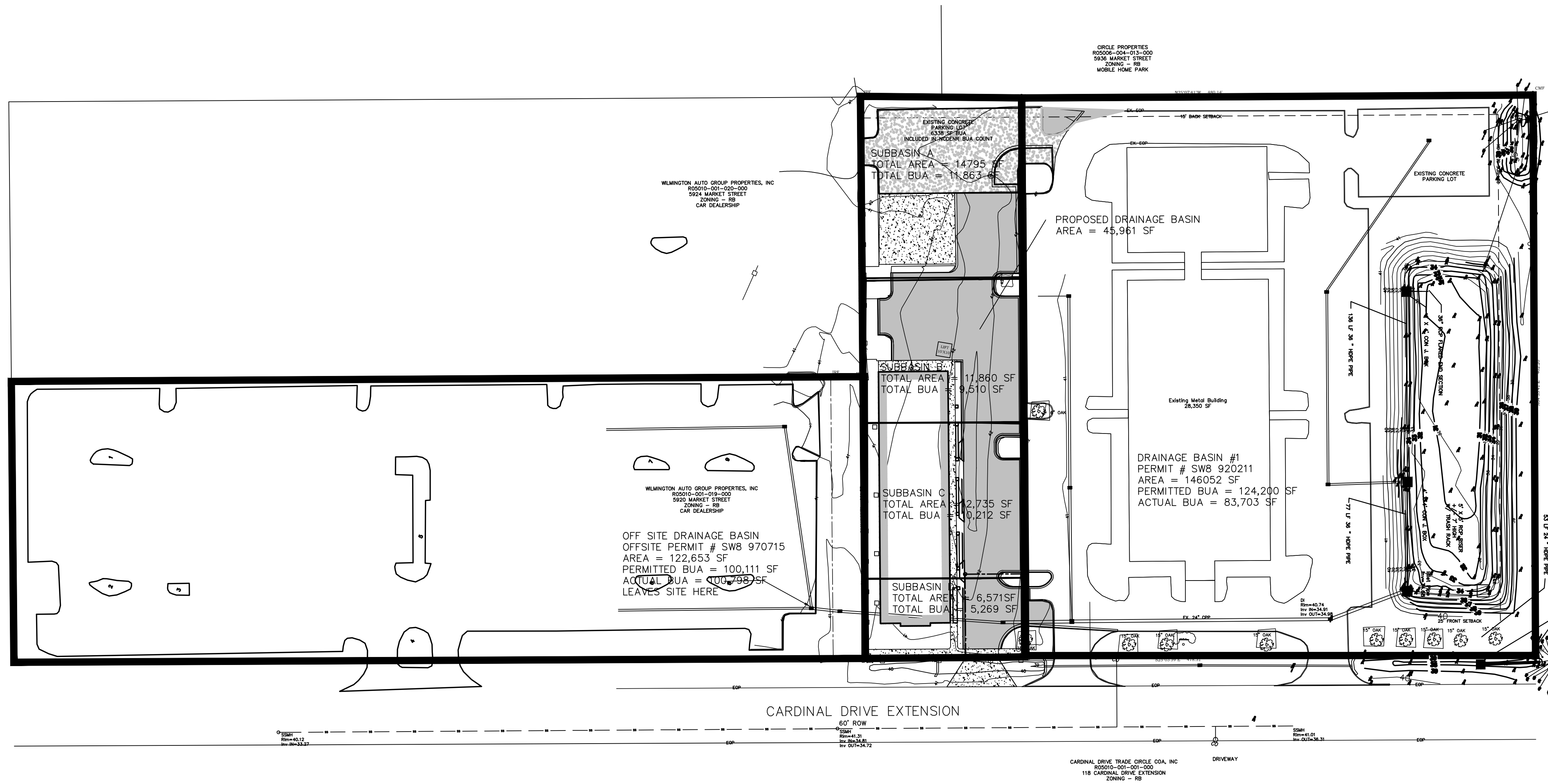
DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: FEBRUARY, 2015

JBS CONSULTING, PA
7332 Cotesworth Drive
Wilmington, NC 28045
(910) 619-9990
LICENSE NUMBER C-2525
PLANNING - ENGINEERING - PROJECT MANAGEMENT



TREE INVENTORY MAP
GOVERNMENT RESOURCE CENTER
127 CARDINAL DRIVE EXTENSION
WILMINGTON, NORTH CAROLINA 28405

CARD HOLDINGS, LLC
1135 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
1-910-256-0044



DRAINAGE BASIN
SCALE 1" = 50'

NO.	DATE	REVISION
1	4-22-16	SUBMITTED TO COM WITH TRC COMMENTS ADDRESSED

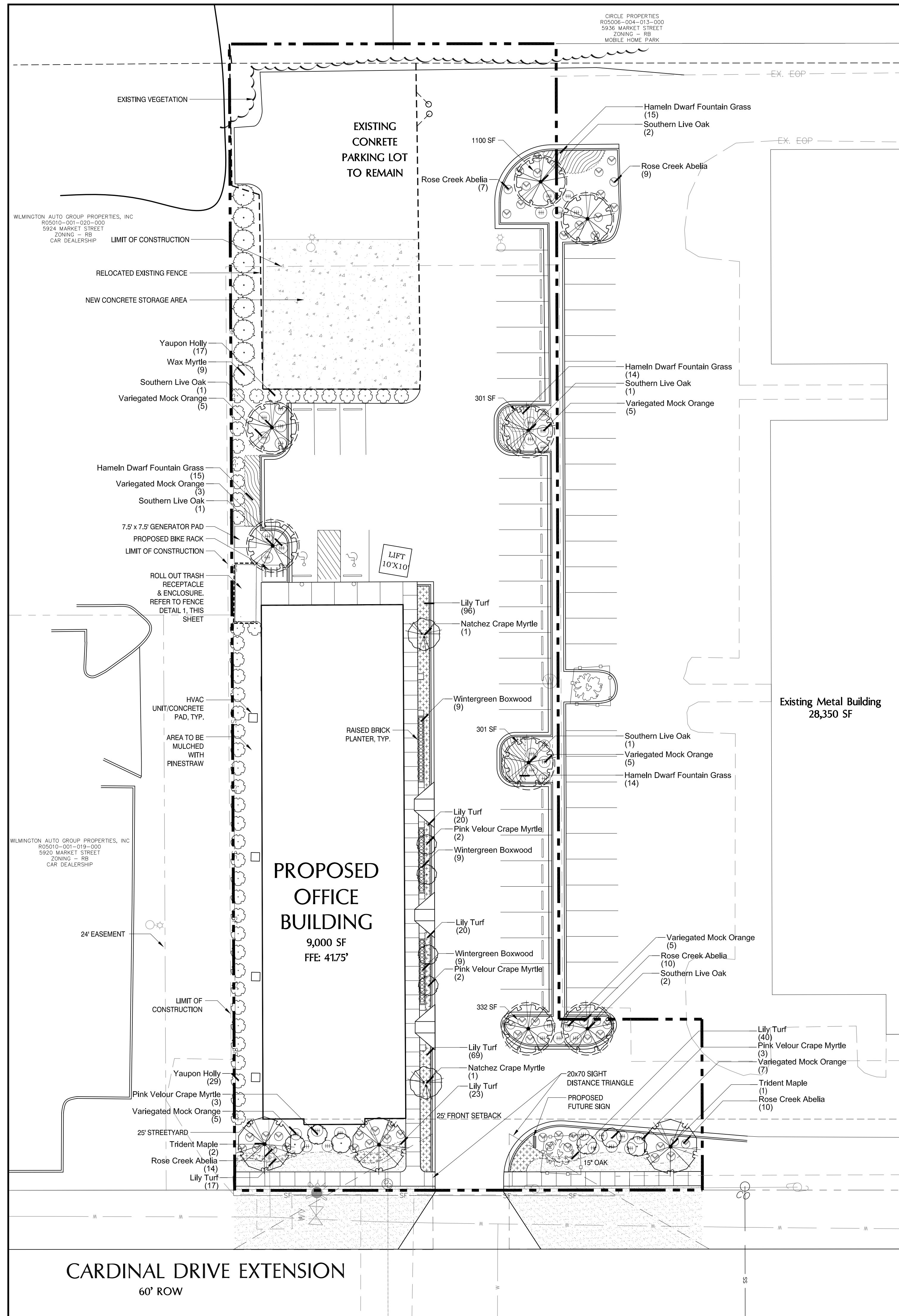
DESIGN BY:	BDS
DRAWN BY:	BDS
CHECKED BY:	BDS
DATE:	FEBRUARY, 2015

JBS CONSULTING, PA
7332 Catesworth Drive
Wilmington, NC 28045
(910) 619-9990
LICENSE NUMBER C-2525
PLANNING - ENGINEERING - PROJECT MANAGEMENT

DRAINAGE BASIN
GOVERNMENT RESOURCE CENTER
127 CARDINAL DRIVE EXTENSION
WILMINGTON, NORTH CAROLINA 28405

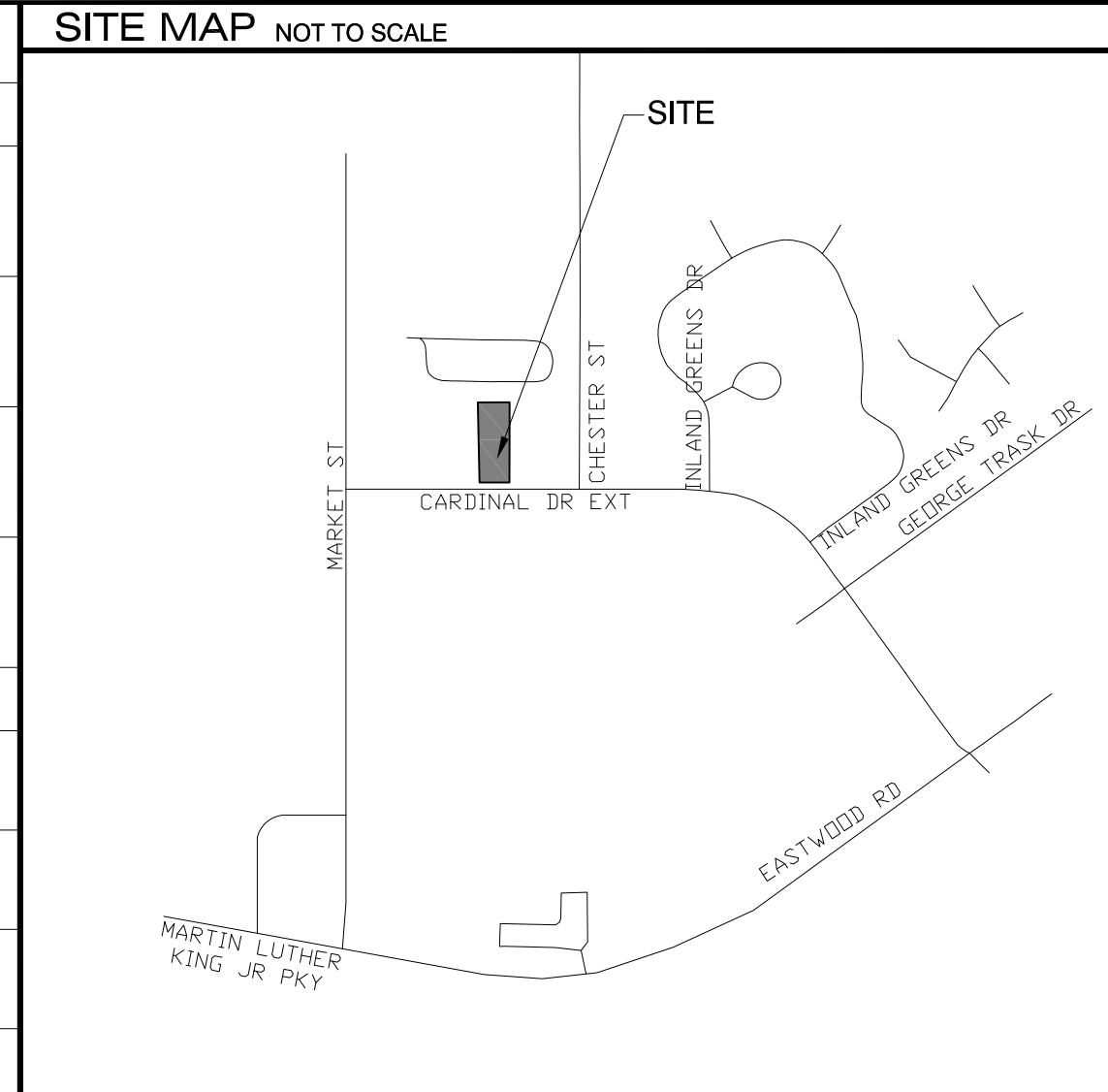
CARD HOLDINGS, LLC
1135 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
1-910-256-0044

SHEET	C5
JOB NO.	051-004
	of 6



PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	RANGE	QTY
	Acer buergerianum / Trident Maple	B & B	3" CAL	10-12' HT	3
	Lagerstroemia l. "Pink Velour" / Pink Velour Crape Myrtle	25 GAL	1-1.5" CAL	8-10' HT	10
	Lagerstroemia x "Natchez" / Natchez Crape Myrtle	B & B	3" CAL	8-10' HT	2
	Quercus virginiana / Southern Live Oak	B & B	3" CAL	10-12' HT	8
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	QTY	
	Abelia x grandiflora "Rose Creek" / Rose Creek Abelia	3 gal	18-24" HT	50	
	Buxus m. "Wintergreen" / Wintergreen Boxwood	3 gal	12-18" HT	27	
	Ilex vomitoria / Yaupon Holly	3 gal	18-24" HT	46	
	Myrica cerifera / Wax Myrtle	7 gal	36" HT	9	
	Pittosporum l. "Variegata" / Variegated Mock Orange	3 gal	18-24" HT	40	
GROUND COVERS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	SPACING	QTY
	Lilhoe muscari / Lily Turf	1 GAL	6-12" HT	18" o.c.	285
	Pennisetum a. "Hameln" / Hameln Dwarf Fountain Grass	3 GAL	12-15" HT	36" o.c.	58
SOD/SEED	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	SPACING	QTY
	Eremochloa ophiuroides / Centipede Sod	sod			3,422 sf

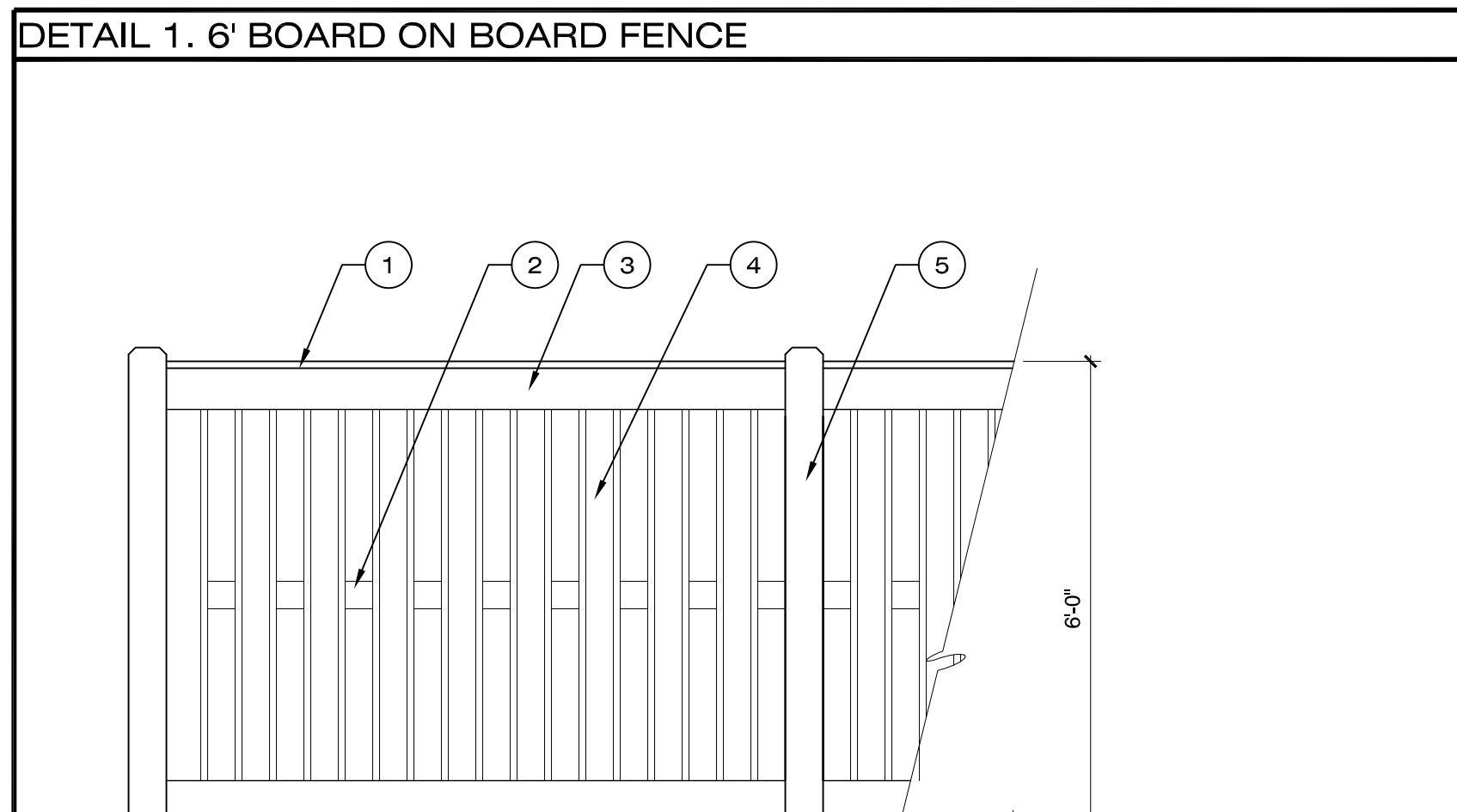


LANDSCAPE REQUIREMENTS

ADDRESS: 123 CARDINAL DRIVE EXTENSION
 PARCEL ID: R05010-001-022-000

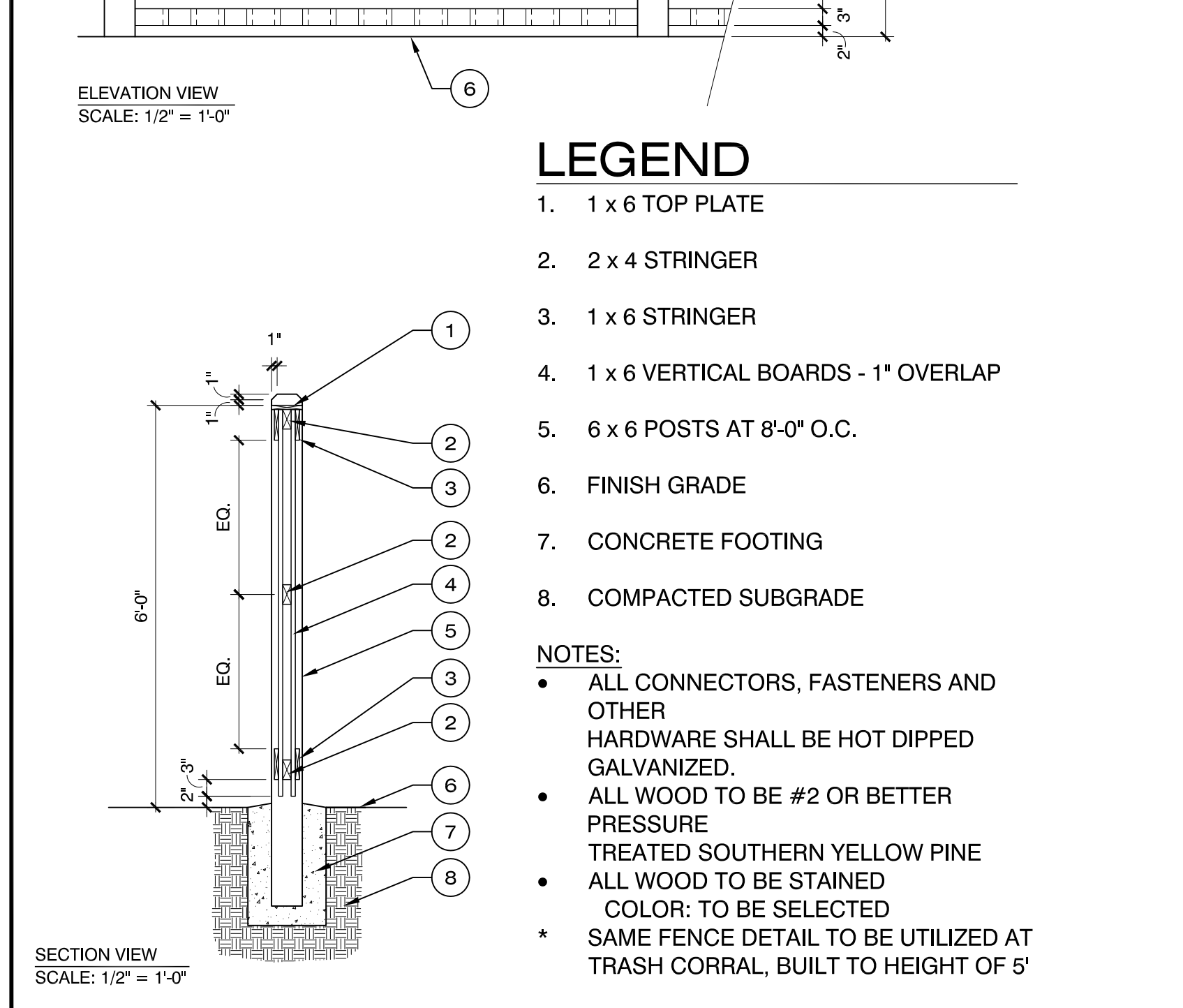
TOTAL LOT AREA: 1.05 ACRES
 EXISTING ZONING: RB - REGIONAL BUSINESS
 CAMA LAND CLASSIFICATION: URBAN
 PROPOSED USE: OFFICE
 NUMBER OF BUILDINGS: 1; (4) 2,250 SF UNITS

LANDSCAPE REQUIREMENTS	REQUIRED	PROVIDED
STREET YARD* PRIMARY STREET YARD (CARDINAL DRIVE EXT.) (140 LF X 25) TREES: 3,500 SF/600	3500 SF 6	3500 SF 1 EXISTING TREES, 3 CANOPY TREES, 6 UNDERSTORY TREES
SHRUBS: (3,500 /600)*6	36	36
FOUNDATION PLANTINGS (230 LF*12)*.12	331 SF	528 SF
PARKING LOT SHADE REQUIREMENTS 16,496 SF*.20 =	3,299 SF	5,656 SF, 8 CANOPY TREES



SYMBOL LEGEND

- 216 SF LANDSCAPE ISLAND AREA
- EXISTING FENCE AROUND PARKING LOT TO REMAIN
- PROPOSED 6" BOARD ON BOARD FENCE AROUND TRASH RECEPTACLE
- 10" CHERRY EXISTING TREES TO REMAIN WITH TREE PROTECTION FENCING
- *TREES COUNTED TOWARD PARKING LOT SHADE REQUIREMENTS



GENERAL PLANTING NOTES

- THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, FINAL GRADING, SEEDING, SOIL AMENDMENTS, ETC., AS MAY BE REQUIRED FOR A COMPLETE INSTALLATION.
- QUANTITIES SHOWN IN PLANT LISTS ARE FOR CONVENIENCE ONLY. PLANS SHALL GOVERN.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
- ALL TREE AND SHRUB MATERIAL SPECIFIED MUST MEET STANDARD INDUSTRY SPECIFICATIONS FOR THE CONTAINER SIZE INDICATED. DOWNSIZING OR SUBSTITUTION OF PLANT MATERIAL WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT WILL NOT BE ALLOWED.
- ALL LANDSCAPE AREAS SHALL BE GRADED TO A SMOOTH EVEN SURFACE PRIOR TO ANY PLANT INSTALLATION. ALL PLANT MATERIALS SHALL BE INSTALLED USING GOOD HORTICULTURAL PRACTICES IN ACCORDANCE WITH THE PLANS AND DETAILS.
- TREES SHALL NOT BE PLANTED CLOSER THAN FOUR (4) FEET FROM ANY WALKWAY OR PUBLIC SIDEWALK EXCEPT WHERE TREE WELLS OR PARKWAYS ARE PROVIDED IN THE SIDEWALK AREA. ALL TREE PLANTED WITHIN FIVE (5) FEET OF WALKS OR PUBLIC UTILITIES SHALL RECEIVE DEEP ROOT BARRIERS.
- TREE LOCATIONS SHOWN ON PLAN MAY REQUIRE ADJUSTMENT IN THE FIELD, WHENEVER FEASIBLE. TREES SHOULD BE PLANTED A MINIMUM OF TEN (10) FEET FROM ALL UNDERGROUND UTILITIES, STREETLIGHTS, HYDRANTS, AND OUT OF DRAINAGE FLOW LINES. SHOULD THIS NOT BE POSSIBLE, CONTACT THE LANDSCAPE ARCHITECT FOR DECISION ON PLACEMENT.
- ALL TREES IN TURF AREAS SHALL HAVE 12" MIN. CLR. CIRCUMFERENCE AROUND THE TRUNK BASE. PROVIDE 2" MIN. THK. MULCH AT BASE OF TRUNK.
- GROUND COVER TYPE SHOWN SHALL BE PLANTED IN ALL SHRUB AREAS AS SPECIFIED ON PLANS. GROUND COVER SHALL BE PLANTED AT 8" ON-CENTER UNIFORM TRIANGULAR SPACING, AND SHALL BE CONTINUOUS UNDER ALL TREE AND SHRUB MASSES AS SHOWN ON PLAN.
- MATURE PLANTINGS SHALL NOT INTERFERE WITH UTILITIES AND TRAFFIC SIGHT LINES.
- ALL PLANTING AREAS SHALL BE MULCHED WITH PINESTRAW, EXCEPT FOR AREAS PLANTED WITH GROUND COVER. ALL AREAS PLANTED WITH GROUND COVER SHALL BE MULCHED WITH HARDWOOD MULCH.
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING (SEC. 18-482d).
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10" (SEC. 18-566).

SCALE: 1" = 20'

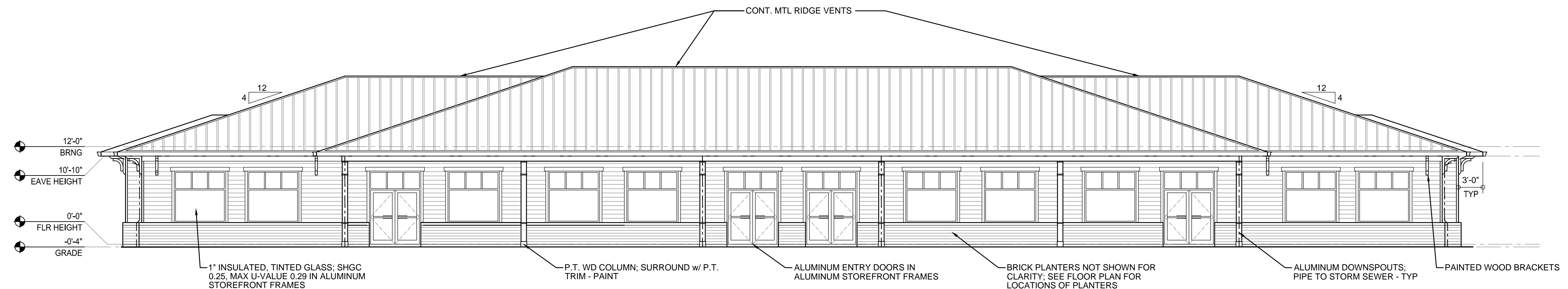
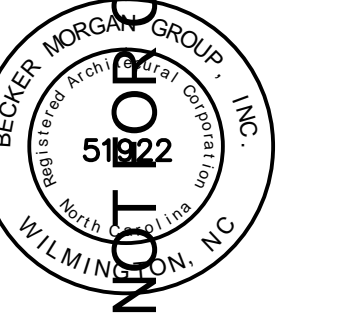
MIHALY LAND DESIGN
 PLANNING + LANDSCAPE ARCHITECTURE
 330 Military Cutoff Rd, Suite A3
 Wilmington, NC 28403 910.392.4355

REVISIONS:
 2015-05-12: UPDATED PLANTING PER REVISED FOOTPRINT, ADDED LANDSCAPE SEPARATION
 2016-02-28: UPDATED PLANTING PER REVISED BUILDING AND DRIVEWAY LAYOUT

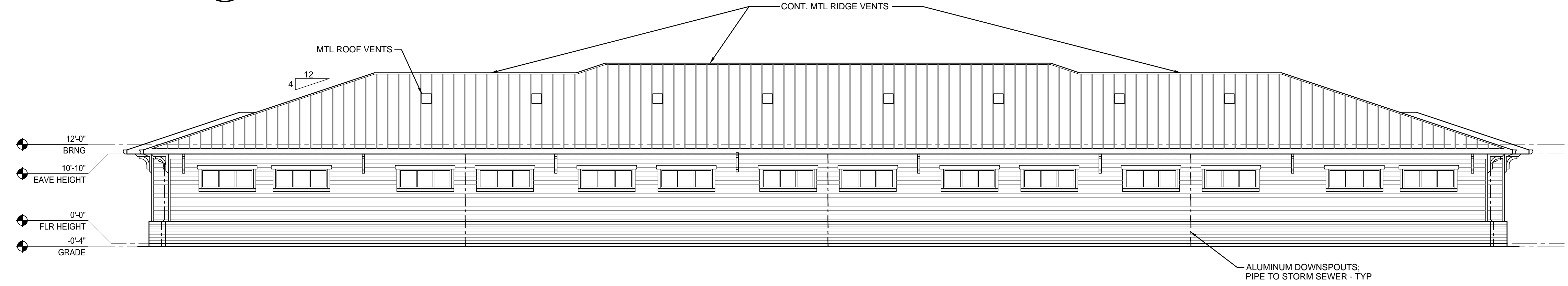
CLIENT
 WORSLEY REAL ESTATE
 1133 MILITARY CUTOFF ROAD, SUITE 100
 WILMINGTON, NC 28405
 CONTACT: EARL WORSLEY
 EWORSLEY@WORLDSESTATE.COM

PROJECT
 GOVERNMENT RESOURCE CENTER
 123 CARDINAL DRIVE EXTENSION
 WILMINGTON, NC 28405
 LANDSCAPE PLAN

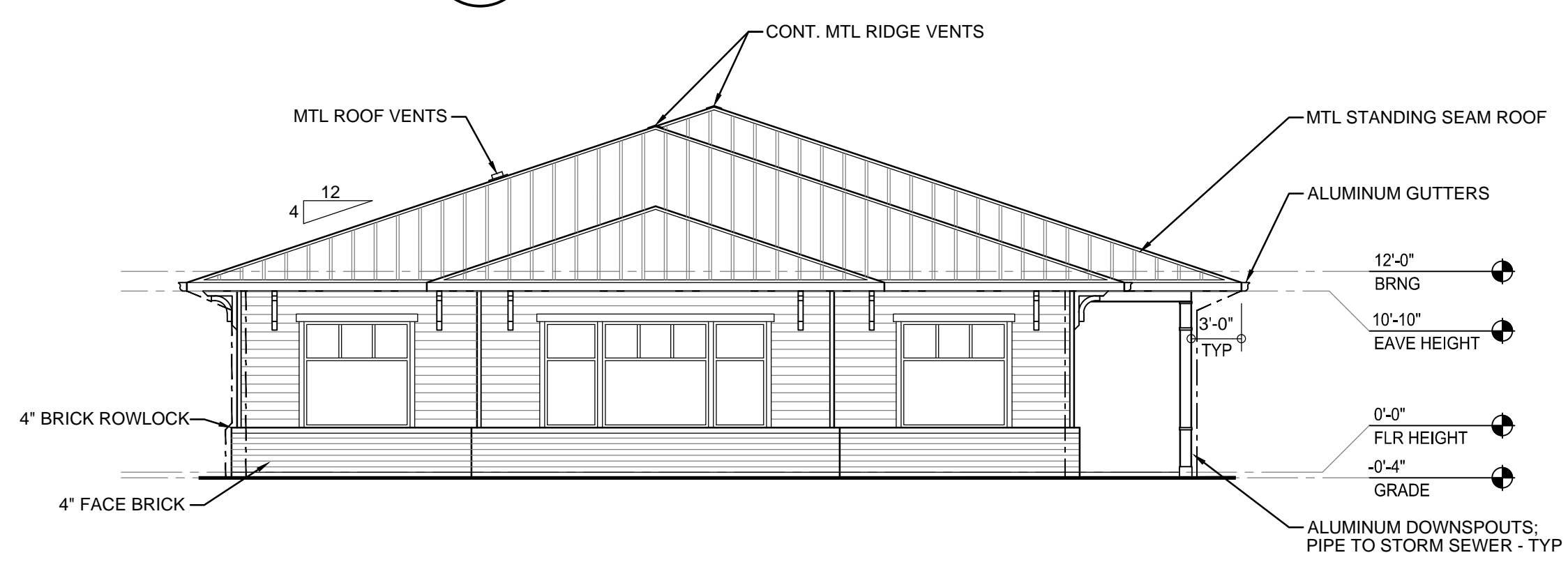
Date: 04/13/2015
 Phase: 000
 Job Number: 340-06
 Designed by: MLD
 Drawn by: ALM
 Checked by: JWM
 Sheet Title: LANDSCAPE PLAN
 Sheet Number: 1.1 of 1 sheets



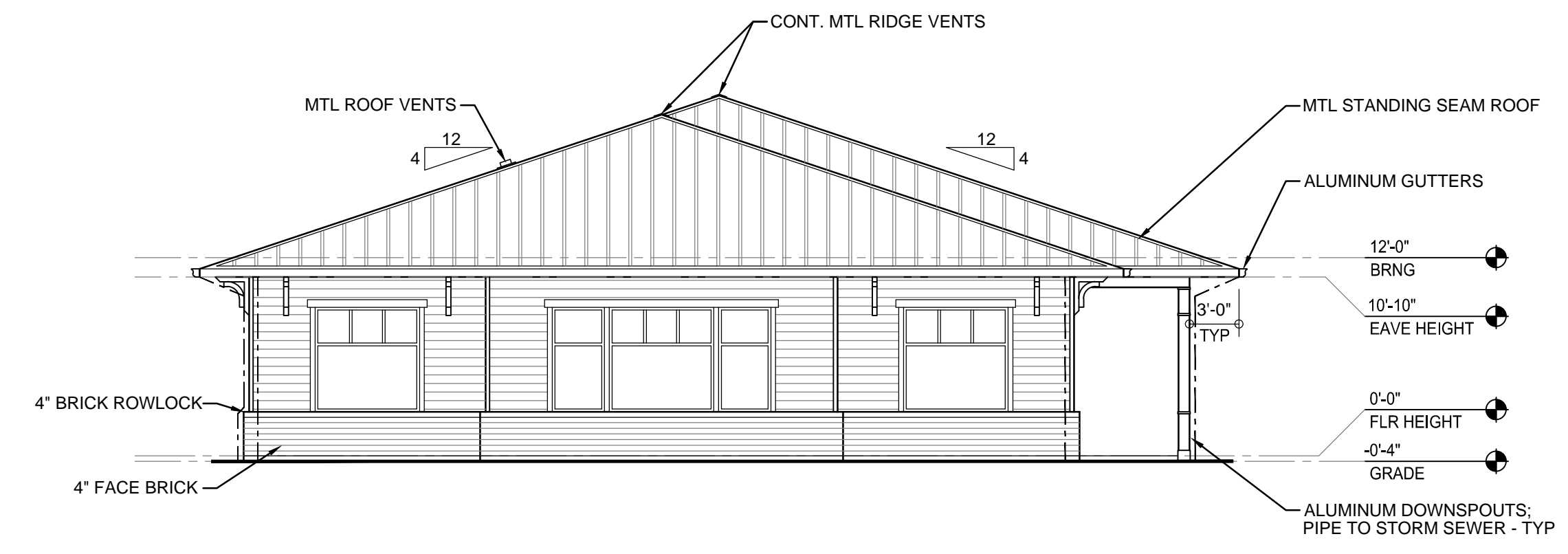
1 EAST ELEVATION
A201 SCALE: 1/8" = 1'-0"



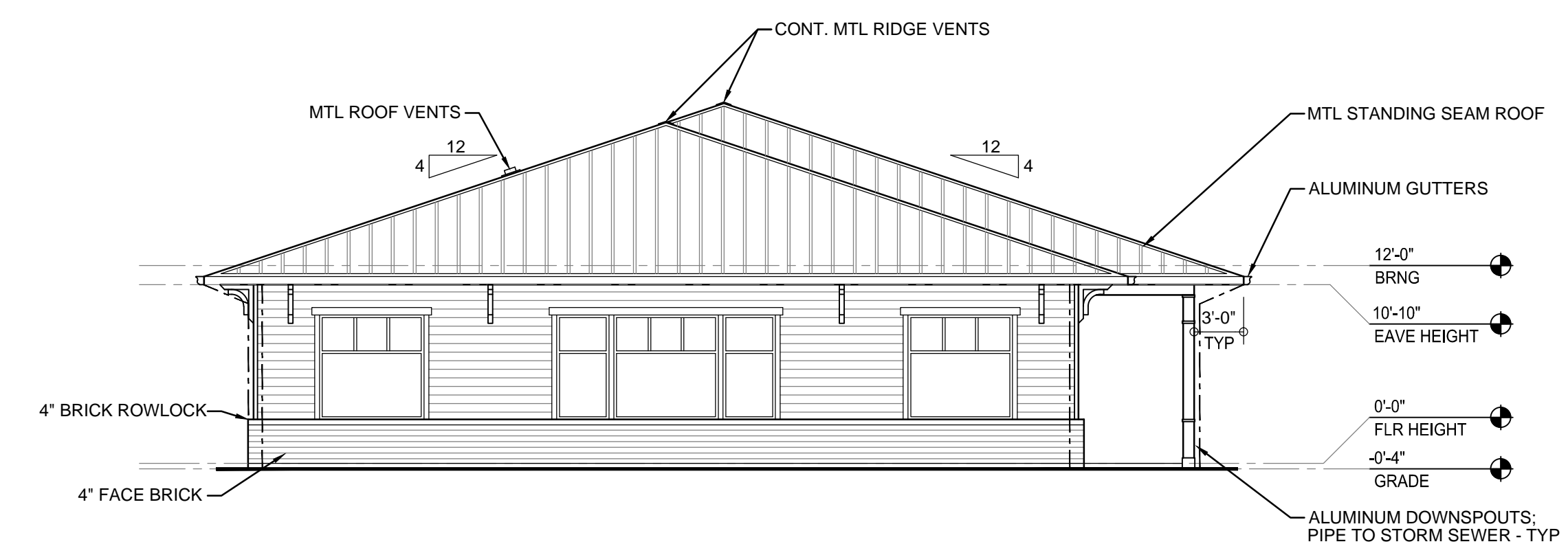
2 WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION - OPTION 1
A201 SCALE: 1/8" = 1'-0"



4 SOUTH ELEVATION - OPTION 2
A201 SCALE: 1/8" = 1'-0"



5 SOUTH ELEVATION - OPTION 3
A201 SCALE: 1/8" = 1'-0"

PROJECT TITLE

**EARL WORSLEY
CARDINAL DRIVE
OFFICES
WILMINGTON, NC**

**SCHEMATIC DESIGN
BUILDING SHELL**

SHEET TITLE
EXTERIOR ELEVATIONS

MARK	DATE	DESCRIPTION
	03/11/2015	ISSUED FOR PRICING

PROJECT NO: 2015017.00
DATE: 03/11/2015
SCALE:
DRAWN BY: EJS | PROJ MGR: RMC