

CONSTRUCTION PLANS

GOVERNMENT RESOURCE CENTER

127 CARDINAL DRIVE EXTENSION

SITE PLAN/PROPOSED SUBDIVISION

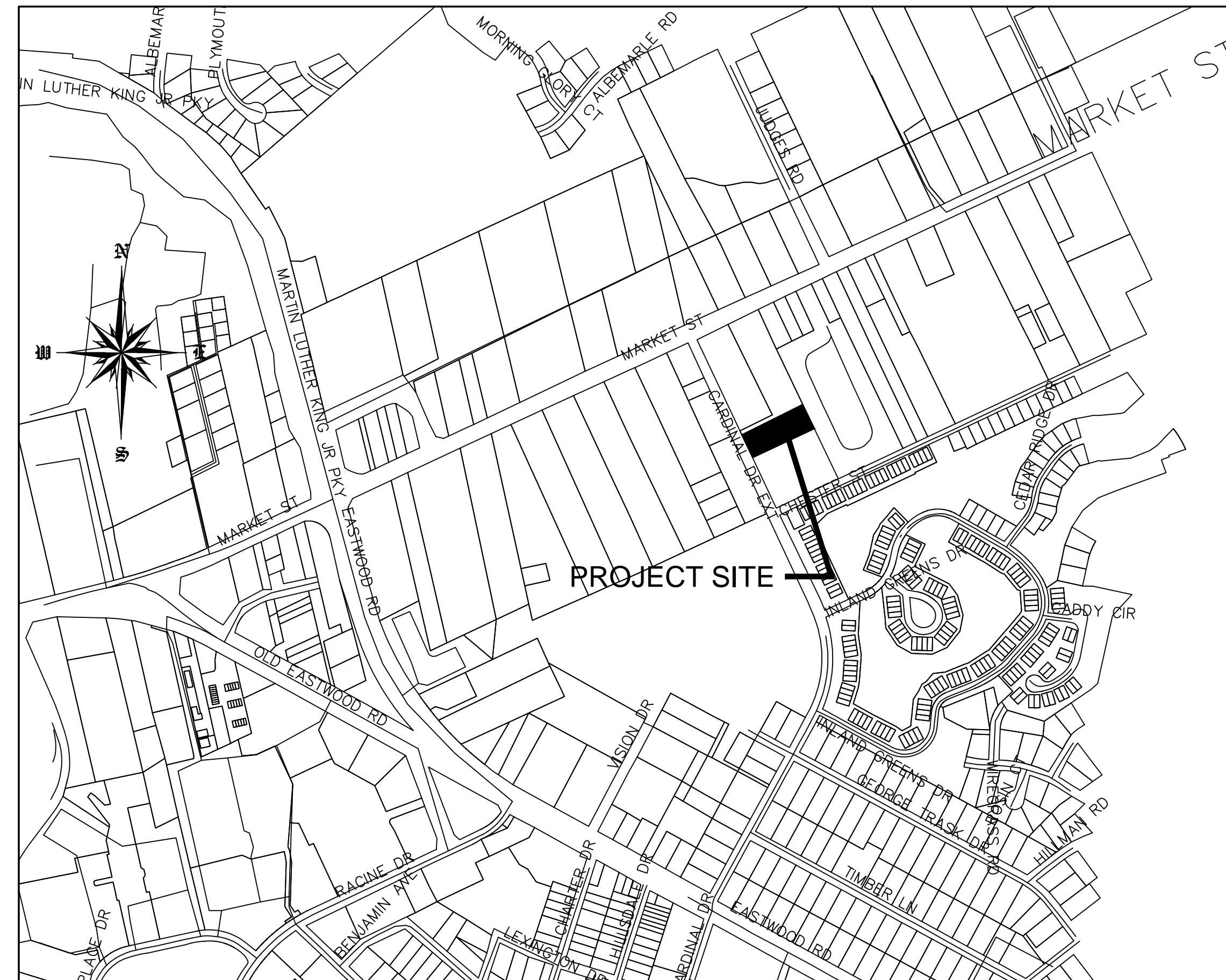
Approved Construction Plan	
Name _____	Date _____
Planning _____	
Traffic _____	
Fire _____	

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

- 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.
- 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.
- 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.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS OF WAY AND FOR DRIVEWAY ARE TO BE THERMO PLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 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.
- 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.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- TRAFFIC ENGINEERING TO BE NOTIFIED AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 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.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEEL CHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY DETAILS AND SPECIFICATIONS.
- 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.
- 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.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA SHALL COMPLY WITH THE CFPWA CROSS CONNECTION REGULATIONS.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR.
- CONTRACTOR TO FILED VERIFY EXISTING WATER AND SEWER LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF CONFLICTS.
- AN ALL WEATHER DRIVING SURFACE FOR EMERGENCY VEHICLES MUST BE MAINTAINED DURING CONSTRUCTION.
- 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.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (TEN) FEET ABOVE THE GROUND WITHIN THE TRIANGLE SIGHT DISTANCE.
- 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
- THERE SHALL BE NO ENCUMBRANCES WITHIN THE NCDOT RIGHT OF WAY.
- 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)
- FIRE HYDRANTS CANNOT BE FURTHER THAN 6' FROM THE CURB.
- PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OF FDC'S
- FDC'S CAN BE NO FURTHER THAN 40' FROM FIRE DEPARTMENT VEHICLE PLACEMENT
- FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT
- BICYCLE PARKING IS PROVIDED ON THE SOUTHWEST CORNER OF PROPOSED BUILDING



SCALE 1" = 600'
VICINITY MAP
FEBRUARY, 2015

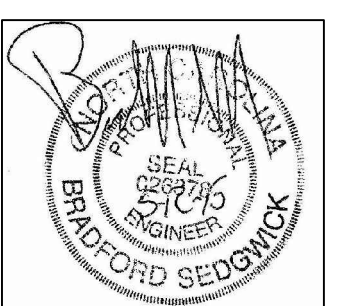
LIST OF DRAWINGS

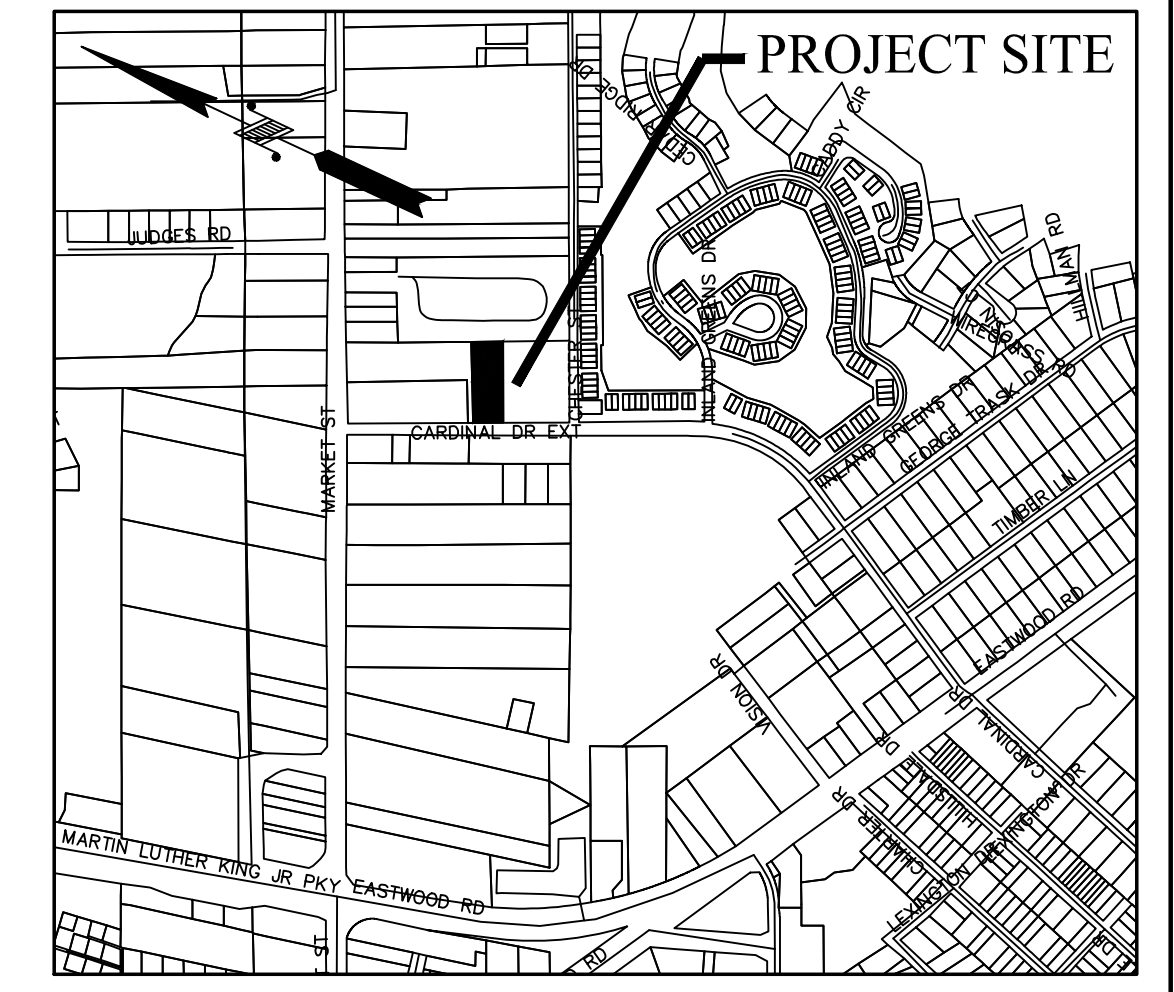
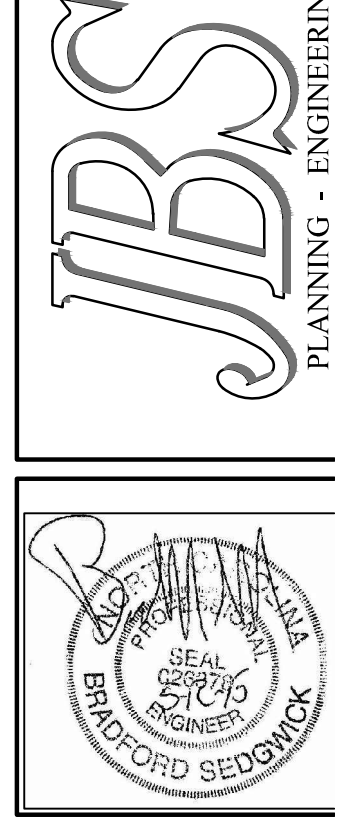
XX	COVER SHEET
C1	SITE PLAN
C2	GRADING, DRAINAGE & EROSION CONTROL
C3	DETAILS
C4	DRAINAGE BASINS
C5	TREE SURVEY
L1	LANDSCAPE PLAN
A201	PRELIMINARY BLDG ELEVATION & PLAN VIEW
OMITTED FROM COW SUBMITTAL	WSD-1 CFPUA WATER - STANDARD DETAILS
OMITTED FROM COW SUBMITTAL	SSD-2 CFPUA SEWER - STANDARD DETAILS

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 127 CARDINAL DRIVE EXTENSION
 WILMINGTON, NC 28405

PARCEL ID NUMBERS R05010-001-008-000

DEED BOOK & PAGE D.B. 5295 PG. 293

ZONING RB-REGIONAL BUSINESS
 CITY OF WILMINGTON

TOTAL LOT AREA 4.37 ACRES
 AFTER PROPOSED SUBDIVISION..... 1.05 ACRES

CAMA LAND USE CLASSIFICATION .. URBAN

PROPOSED USE.....OFFICE

NUMBER OF BUILDINGS 1 PROPOSED (4-2,000 SF UNITS)

BUILDING SQUARE FOOTAGE
 TOTAL..... 8,000 SF

RB - REGIONAL BUSINESS

	REQUIRED	PROPOSED
MIN. LOT AREA	1 ACRE	1.05 ACRES
MIN. LOT WIDTH	100'	113.74'
MAX. LOT COVERAGE	40%	17.5% (8000/45,826)
FRONT BUILDING SETBACK	25'	25'
REAR BUILDING SETBACK	25'	30'
SIDE BUILDING SETBACK	0'	7.5'
MAX. BUILDING HEIGHT	35'	EAVE HEIGHT = 11' PEAK HEIGHT = 21.5'

PARKING REQUIREMENTS

NUMBER OF SPACES	1 PER 300 MIN (8000/300) = 27 SPACES
	1 PER 200 MAX (8000/200) = 40 SPACES
PROPOSED SPACES.....	25 SPACES + 2 H/C = 27

BUA CALCULATIONS

	ACTUAL	PER PERMIT
NCDENR PERMIT SWB 920211 (EXISTING)	90,086 SF	124,200 SF
PROPOSED BUA		
PROPOSED PARKING LOT UNDER DRIP LINE PRO BUILDING	13,315 SF	
S/W NOT UNDER DRIP LINE	9,328 SF	
	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

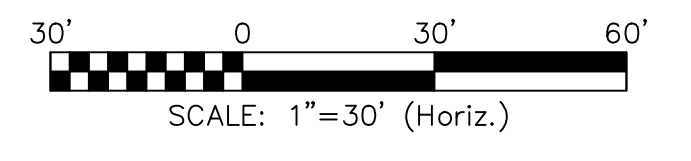
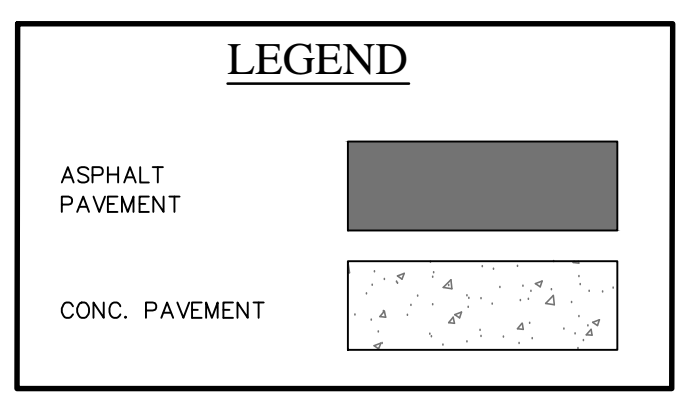
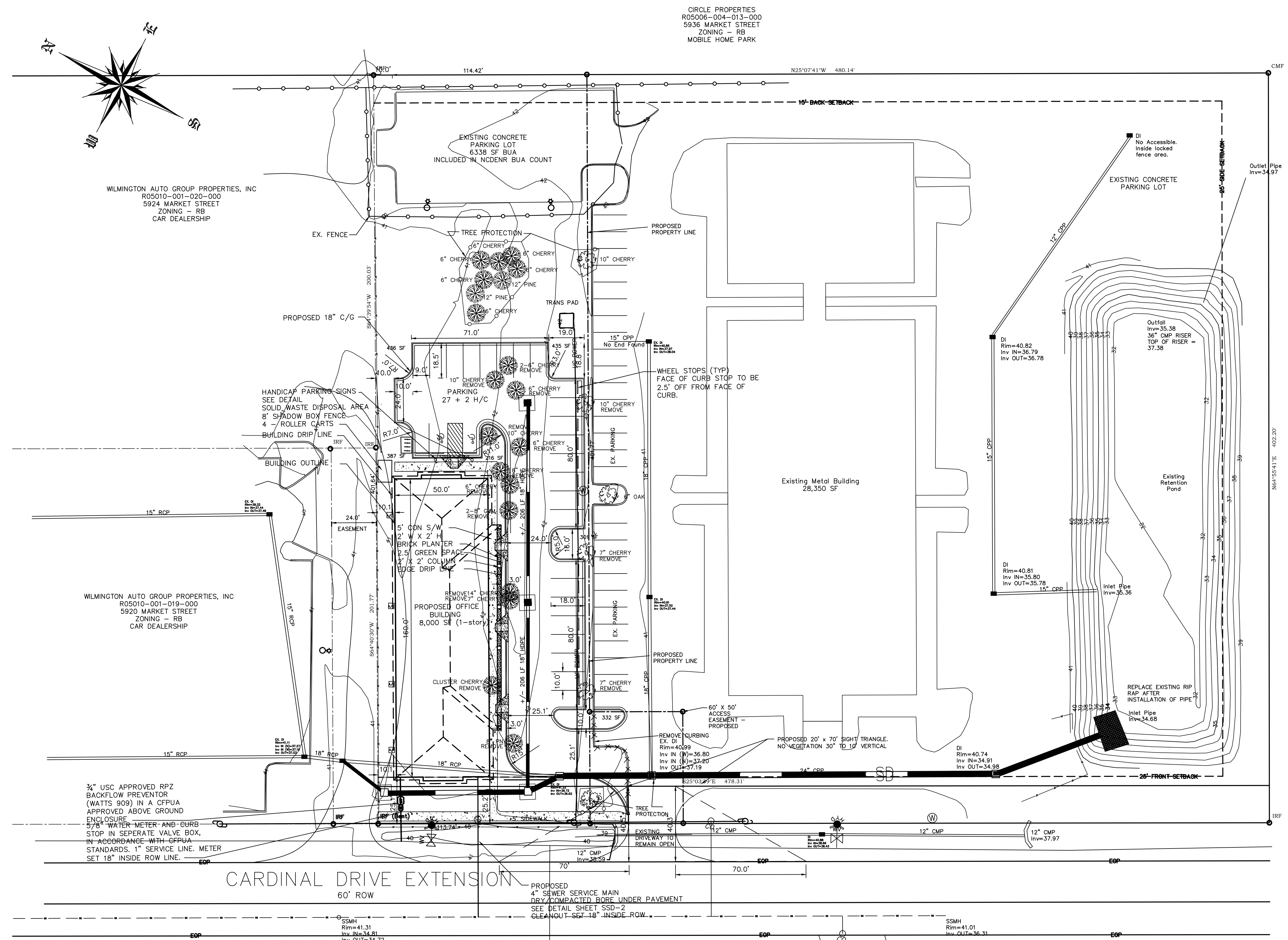
FLOOD INFORMATION
 PER FLOOD MAP 37203314800J THIS SITE IS IN A "X" ZONE.

STORMWATER - THIS SITE IS COVERED UNDER AN EXISTING NC DENR 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. THE ENGINEER WILL SUBMIT A "PLAN REVISION" TO NC DENR.

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.



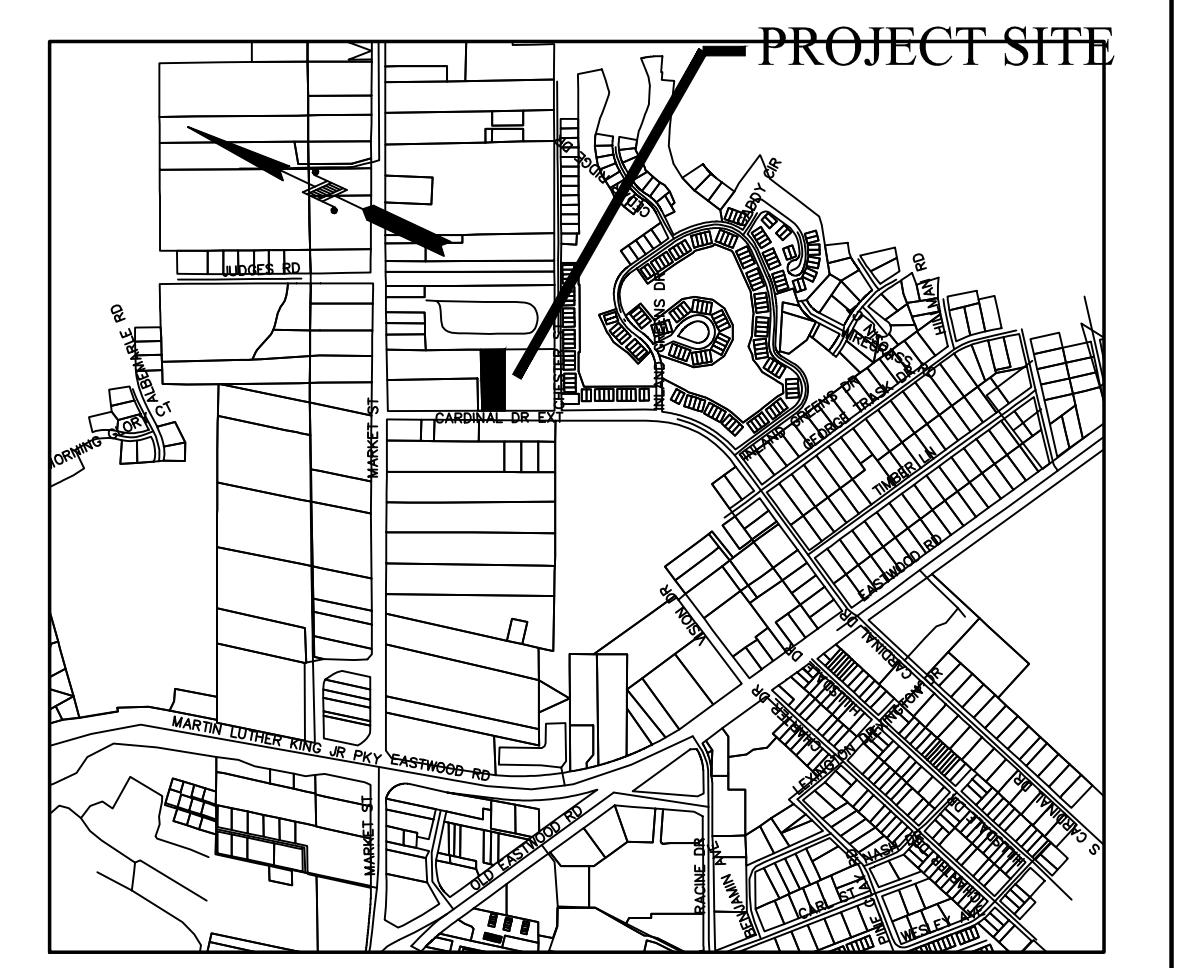
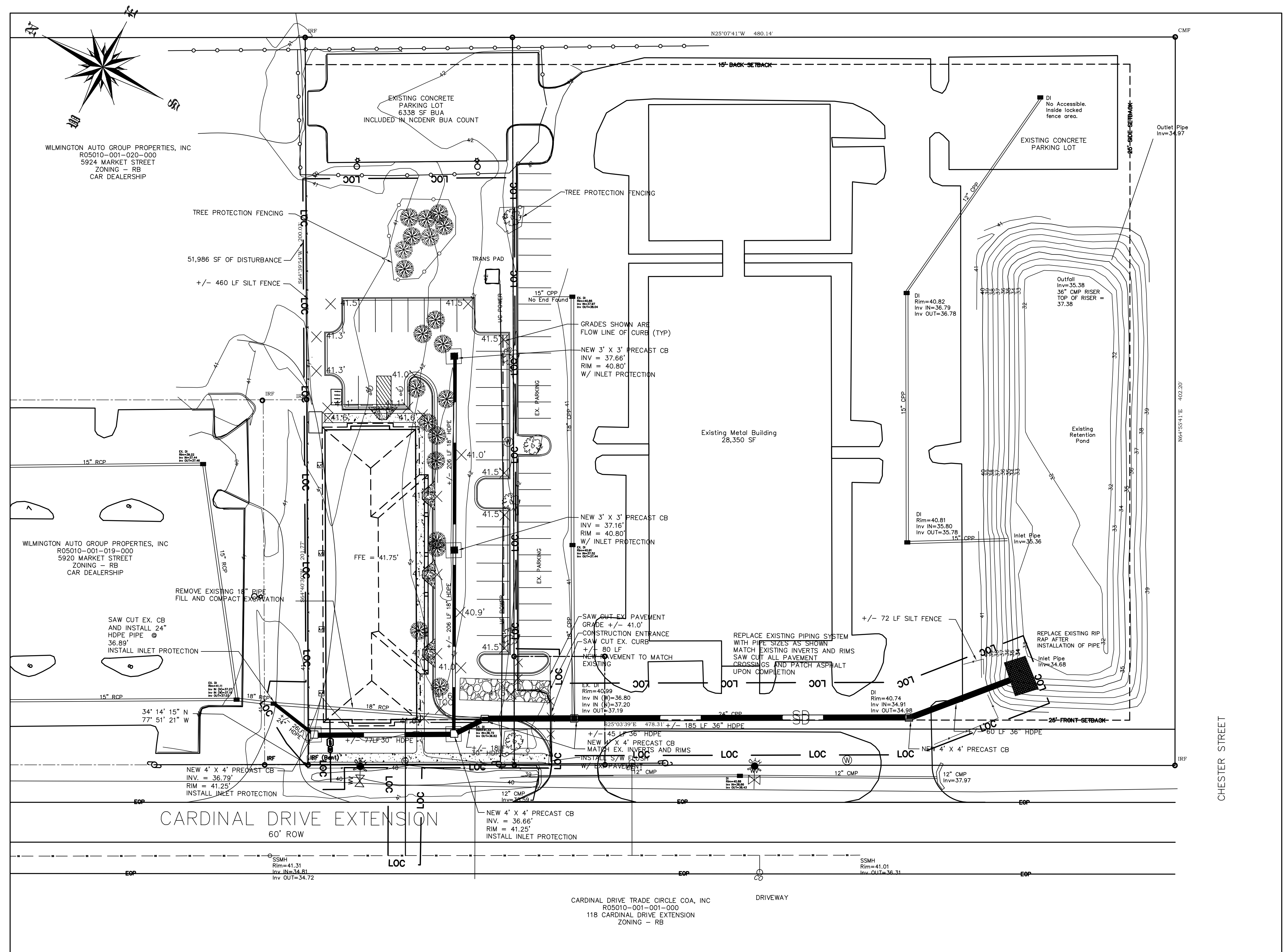
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NO WETLAND WITHIN PROJECT AREA

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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		





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

- ### CONSTRUCTION SEQUENCE
- OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING ACTIVITY.
 - HOLD A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL INSPECTOR.
 - INSTALL GRAVEL CONSTRUCTION ENTRANCE AND SILT FENCE. COMMENCE CLEARING AND ROUGH GRADING OPERATIONS TO ESTABLISH DIVERSION SWALES AND SEDIMENT TRAPS AND BASIN.
 - ROUGH GRADE SITE AND INSTALL UNDERGROUND UTILITIES.
 - 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.
 - STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
 - ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES.

- ### EROSION CONTROL MAINTENANCE PLAN
- 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.
 - INSPECT TEMPORARY 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.
 - 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.
 - ALL AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
 - 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.
 - 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
- 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.
 - CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN ROAD RIGHT OF WAYS UNLESS OTHERWISE DESIGNATED TO REMAIN.
 - 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.
 - CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.
 - CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
 - THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.
 - 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.
 - ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPARTMENT.
 - SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
 - ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.
 - 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

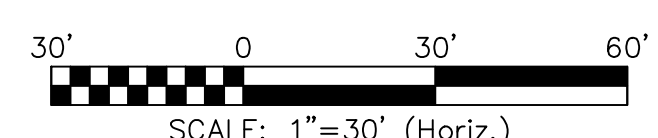
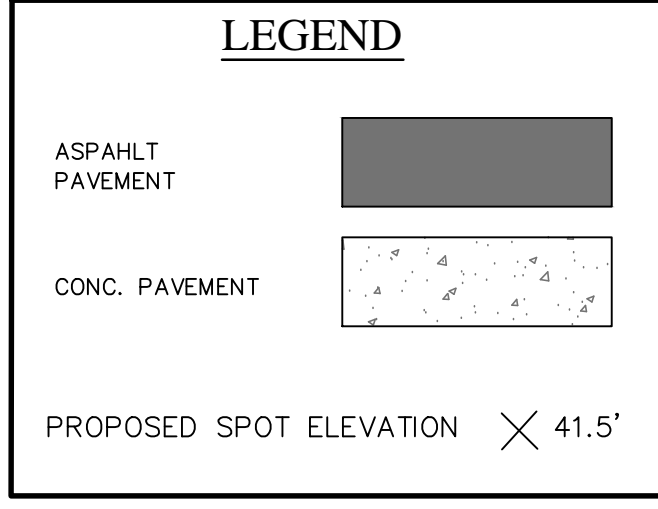
Name	Date
Planning	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN
APPROVED

CITY OF WILMINGTON
ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____
SIGNED _____

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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

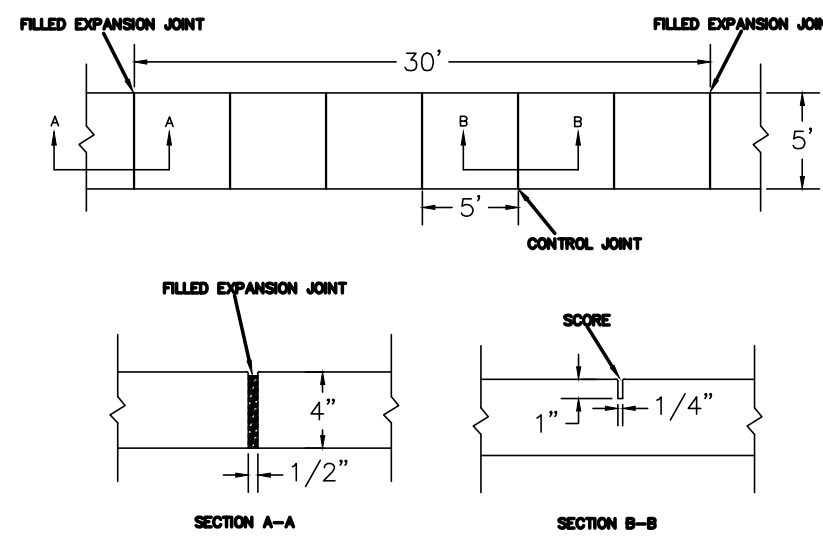
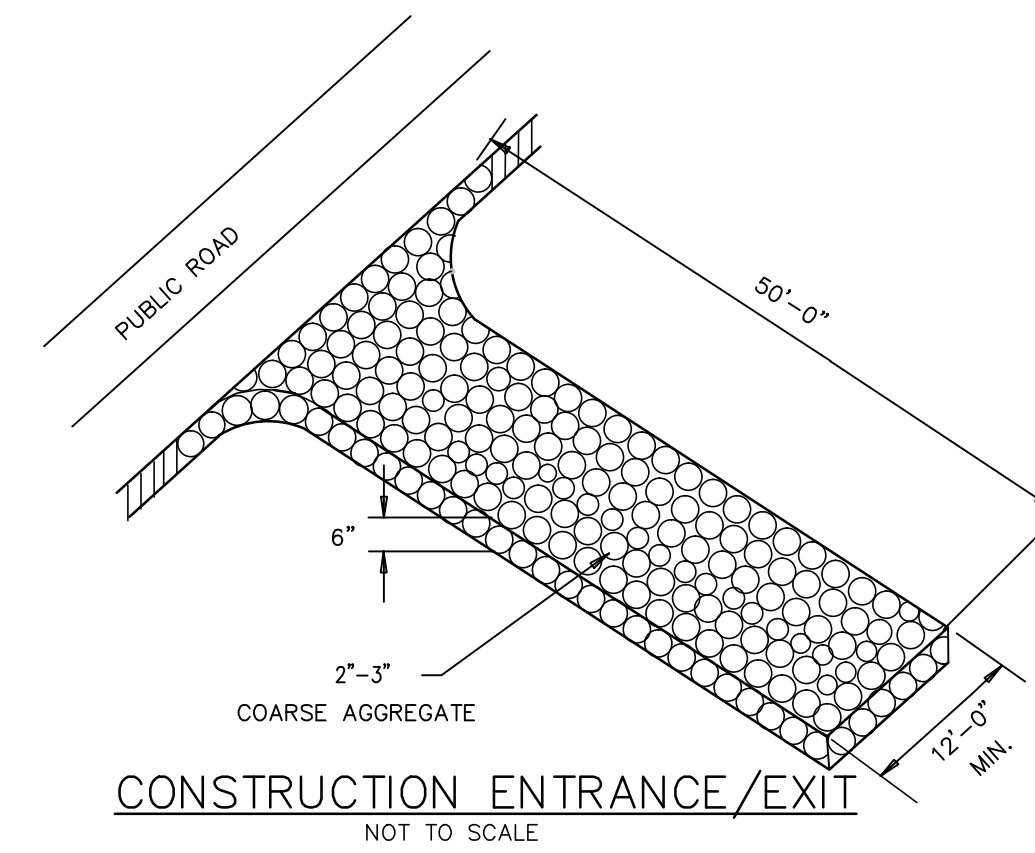
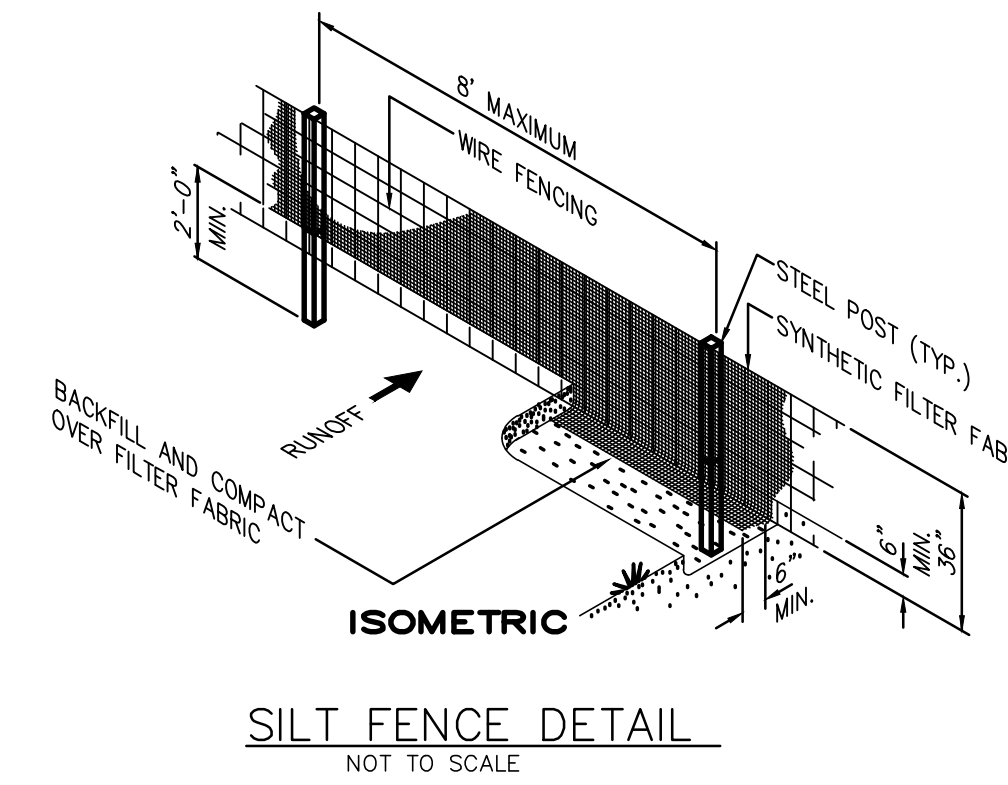
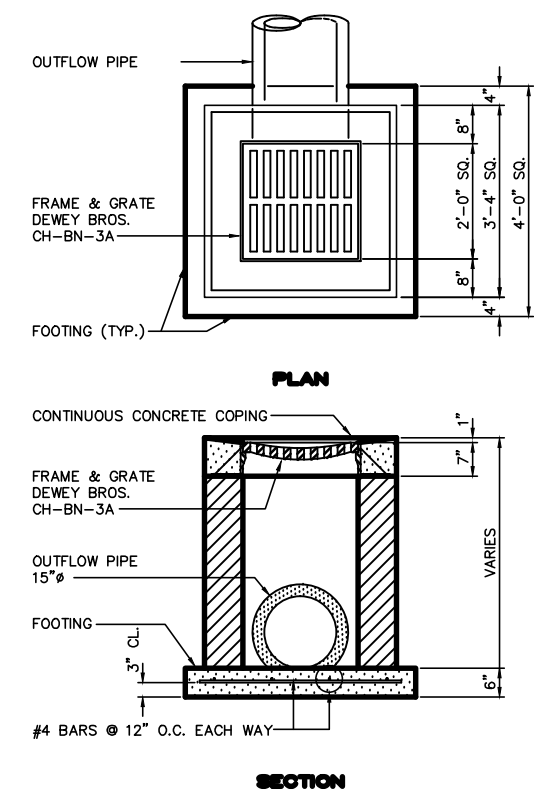
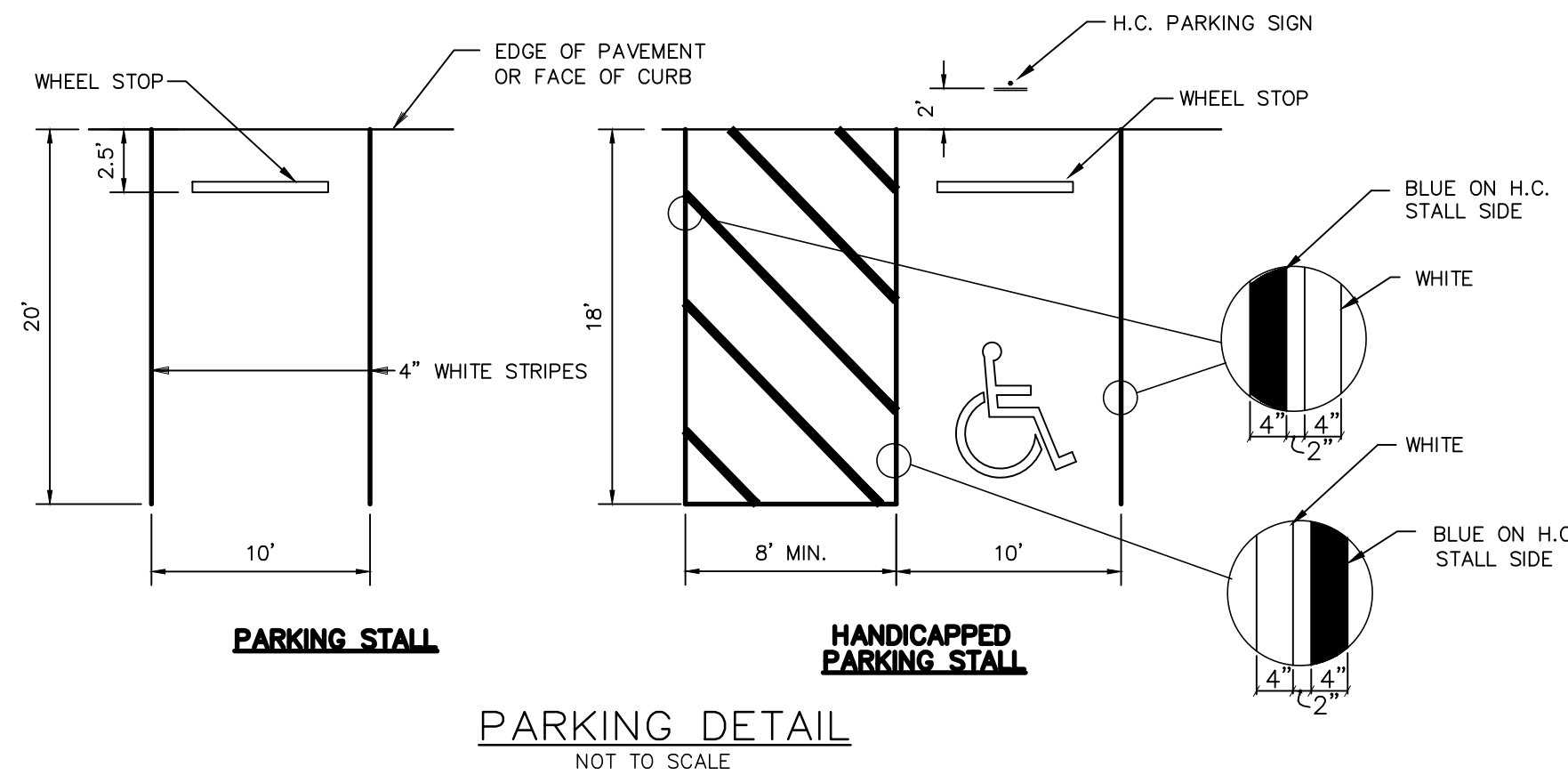
CONSULTING, PA
7332 Cotesworth Drive
Wilmington, NC 28045
(910) 619-9990
LICENSE NUMBER C-2525
PLANNING - ENGINEERING - PROJECT MANAGEMENT

JBS

GRADING, DRAINAGE
EROSION CONTROL
GOVERNMENT RESOURCE CENTER
127 CARDINAL DRIVE EXTENSION
WILMINGTON, NORTH CAROLINA 28405

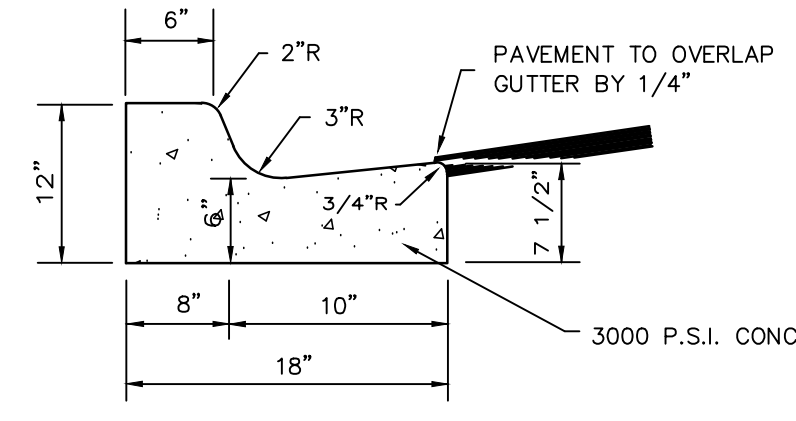
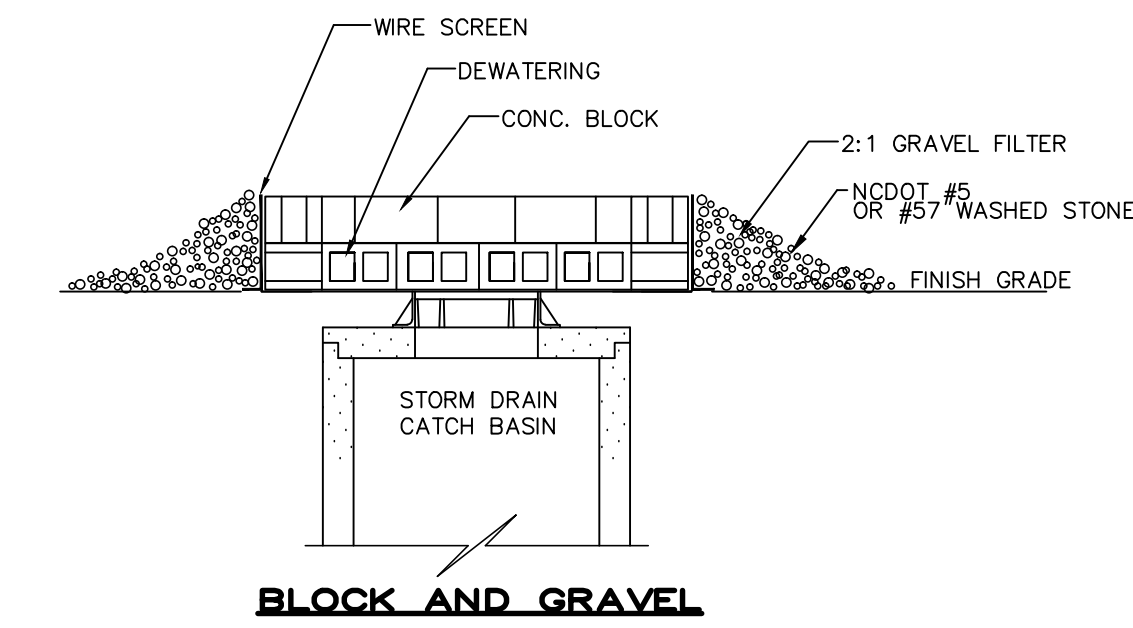
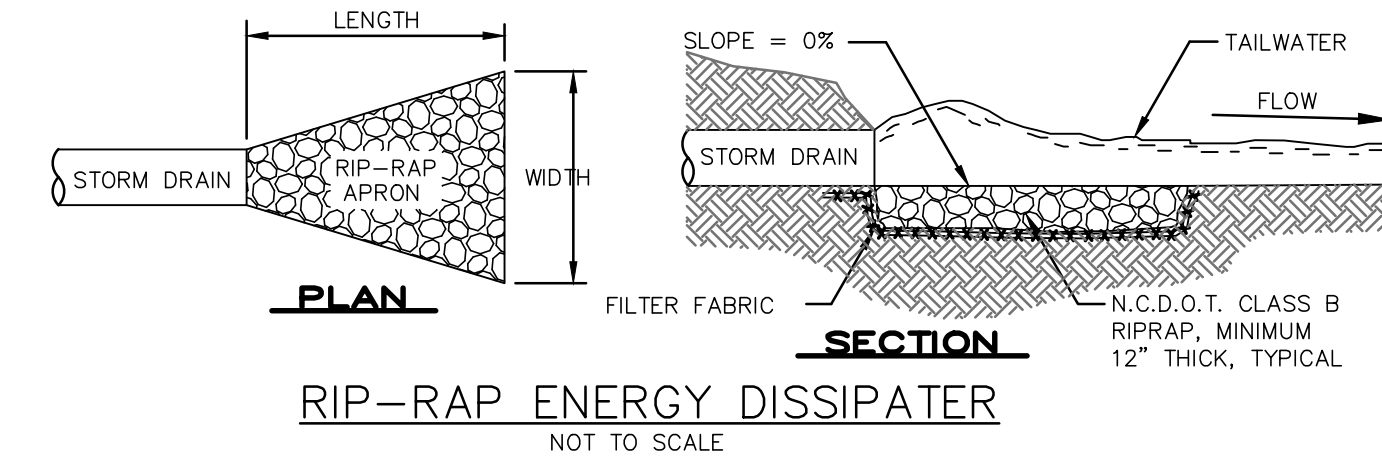
CARD HOLDINGS, LLC
1135 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
1-910-256-0044

SHEET
C2
of 4
JOB NO. 051-004

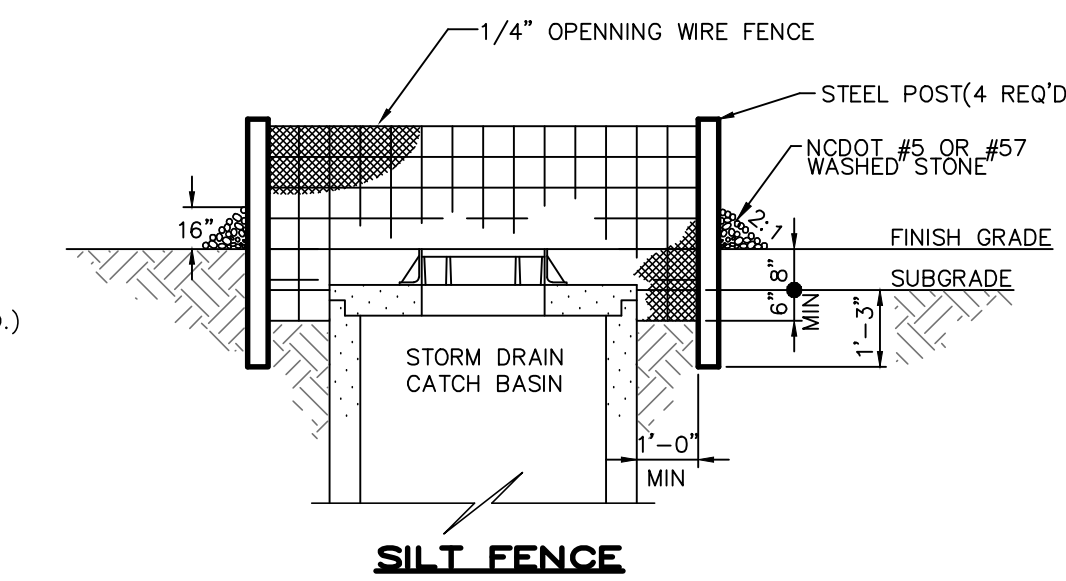
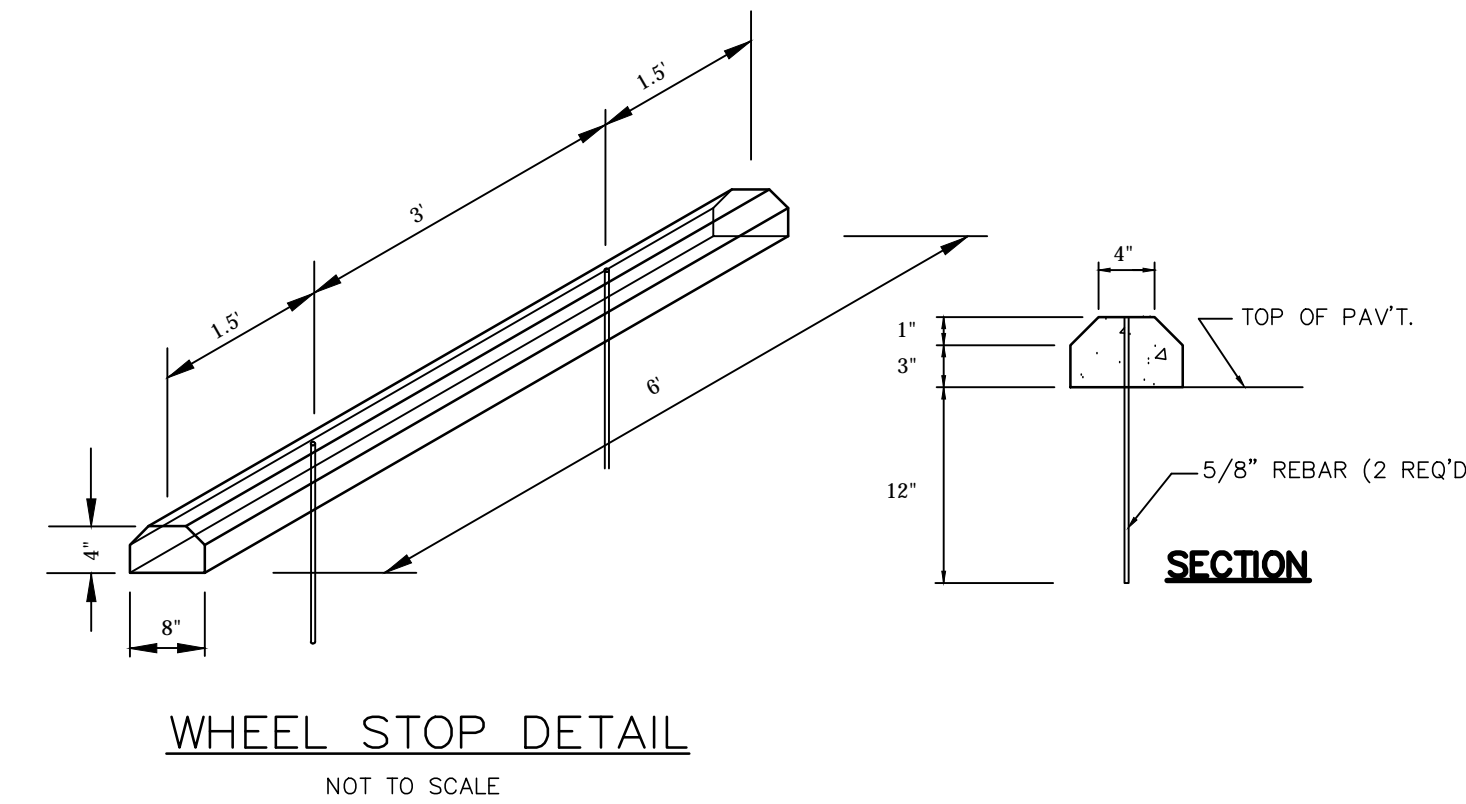


- NOTES:**
1. JOINT MATERIAL TO COMPLY WITH CURRENT MCDOT STANDARDS.
 2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
 3. MINIMUM SIDEWALK WIDTH TO BE 8' UNLESS OTHERWISE PLACED AT BACK OF CURB.
 4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3000 PSI.
 5. MINIMUM REPLACEMENT FOR REPAIRS IS 4' X 4' PANEL.
 6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS.
 7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
 8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
 9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 0.5% FOR IF LIMITED BY EXISTING SLOPE OF THE EXISTING ADJACENT ROAD.
- CONCRETE WALK SECTION**
SECTION A-A SECTION B-B

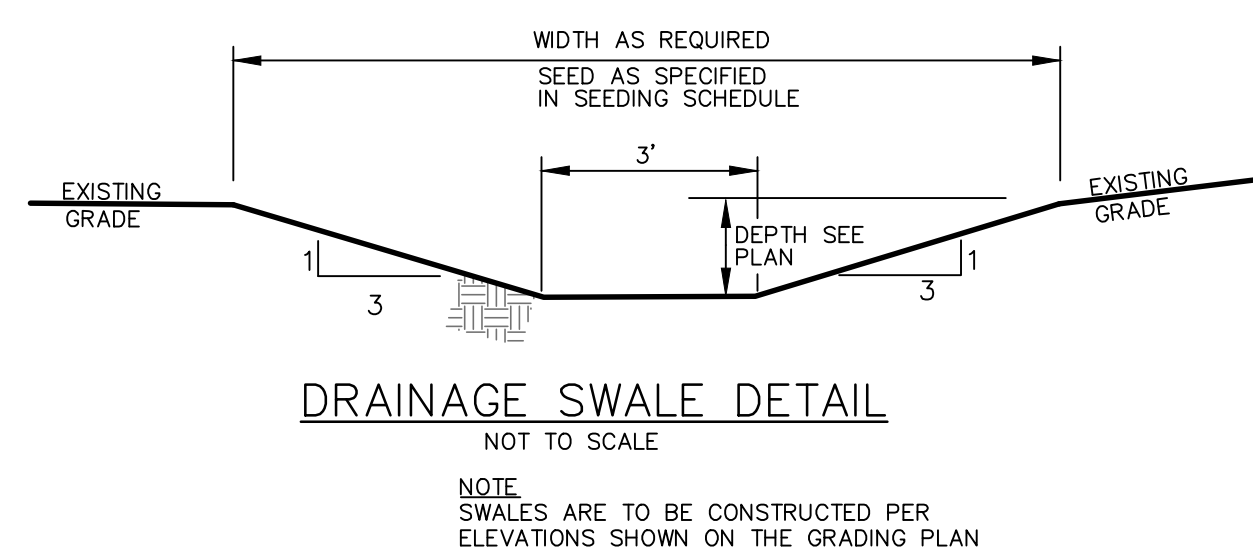
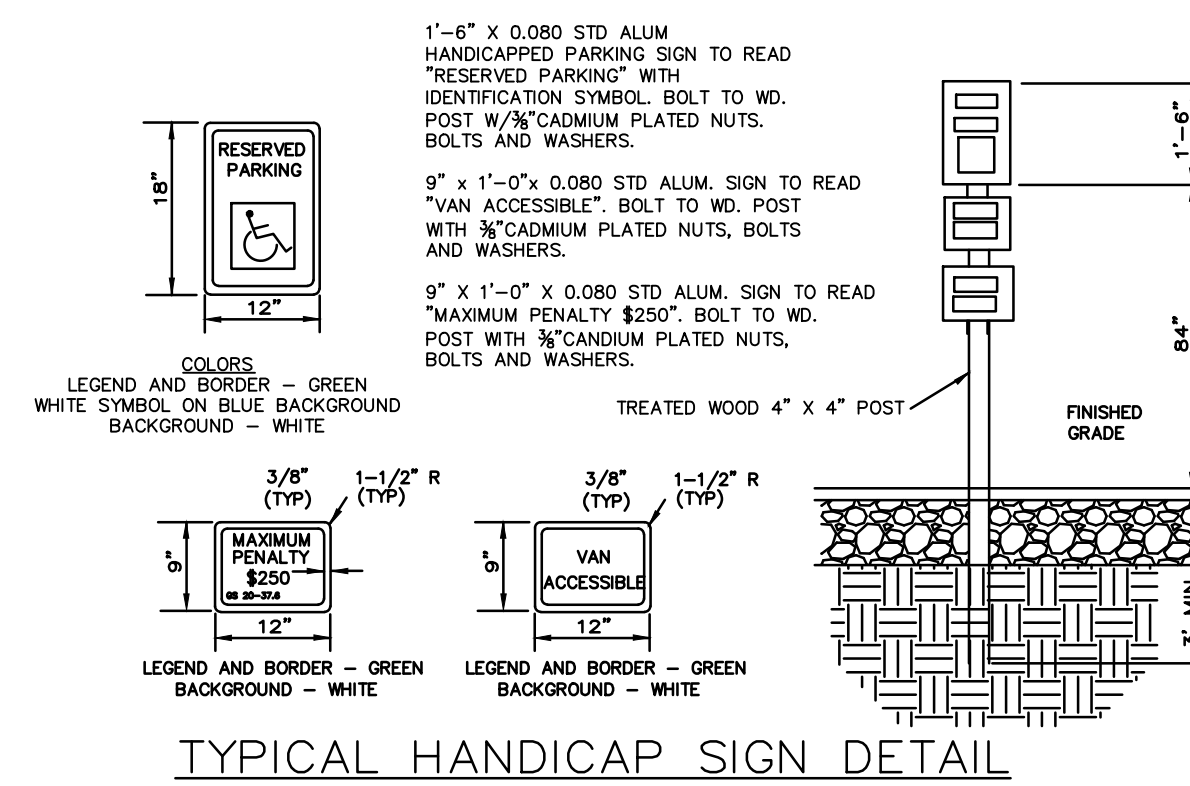
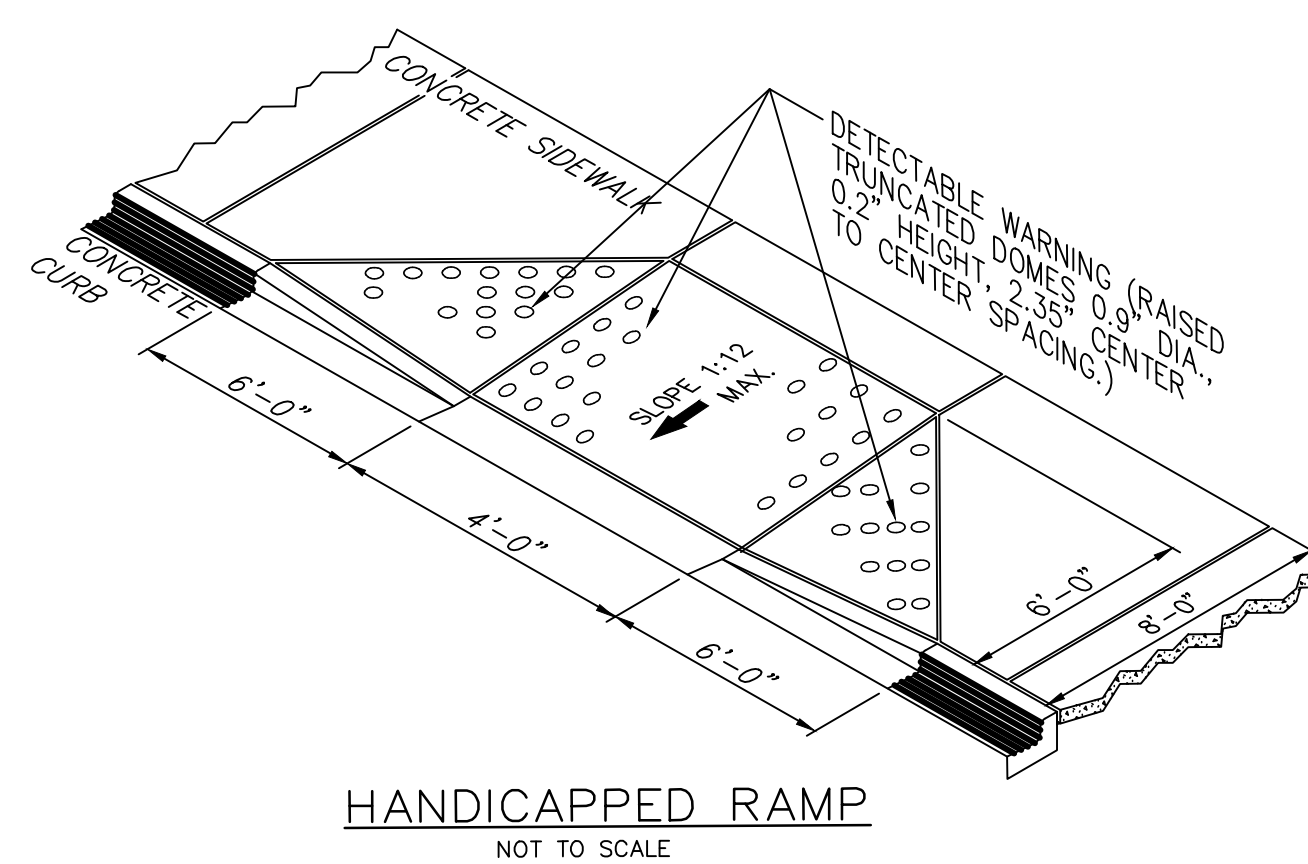
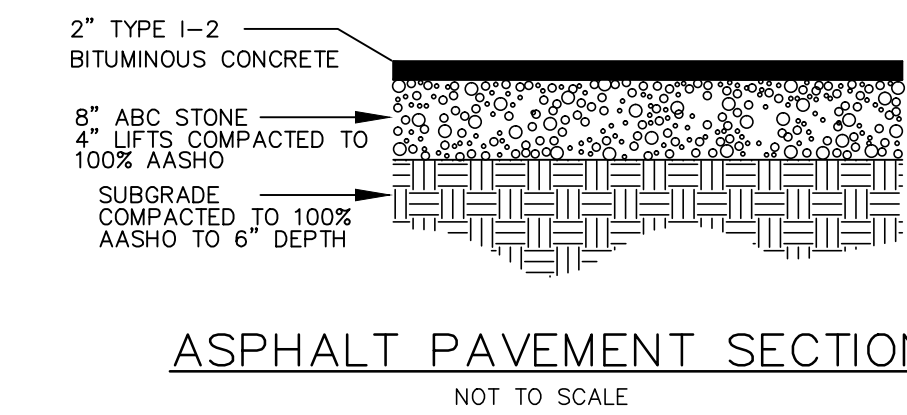
DROP INLET DETAIL
NOT TO SCALE



18" CURB AND GUTTER DETAIL
NOT TO SCALE



INLET SEDIMENTATION CONTROL
NOT TO SCALE



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

STORMWATER MANAGEMENT PLAN

APPROVED

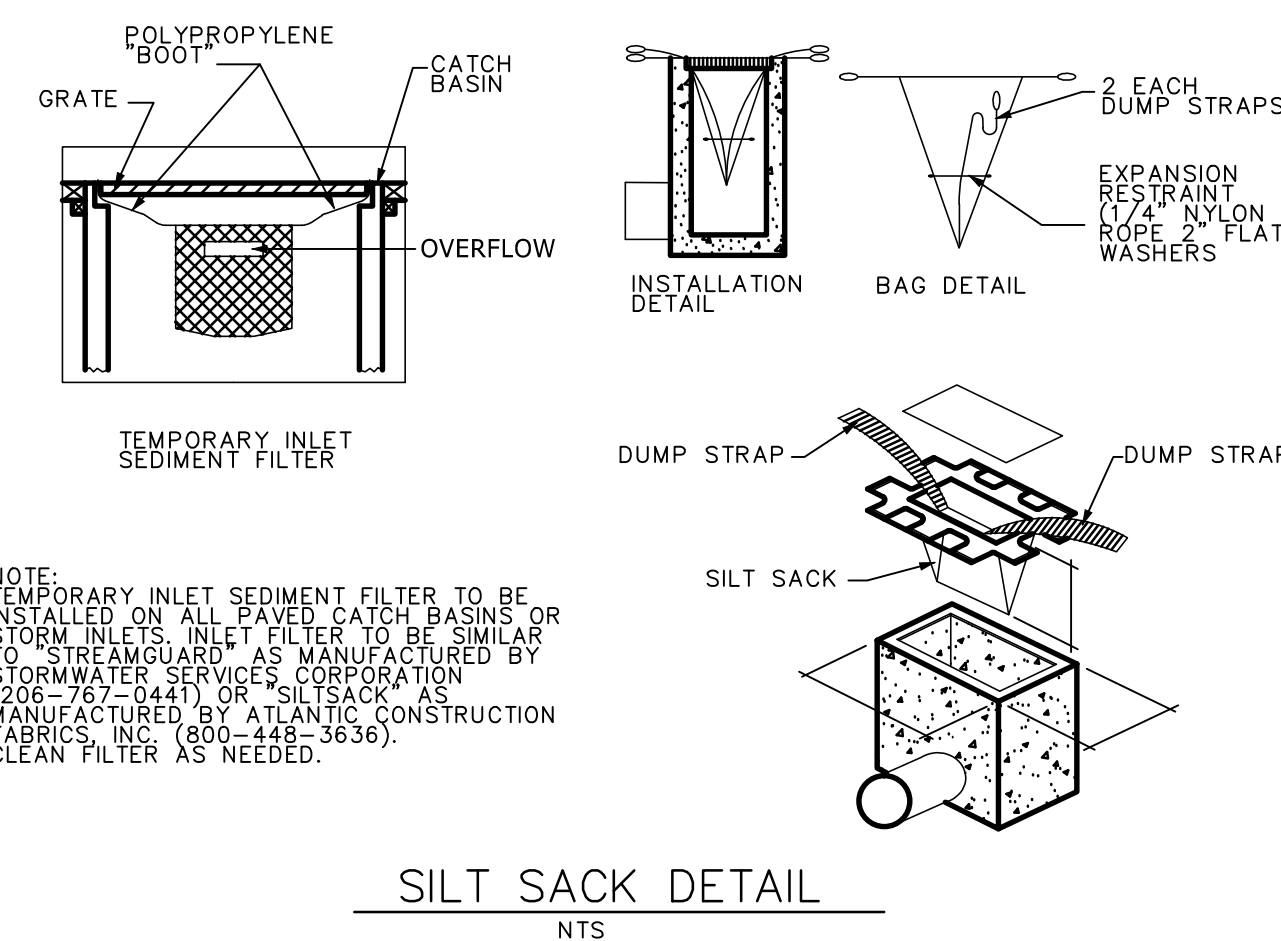
CITY OF WILMINGTON

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



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.

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

BRADFORD SEDGWICK
SEAL
REGISTERED PROFESSIONAL ENGINEER
NO. 12753
STATE OF NORTH CAROLINA

DETAILS

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

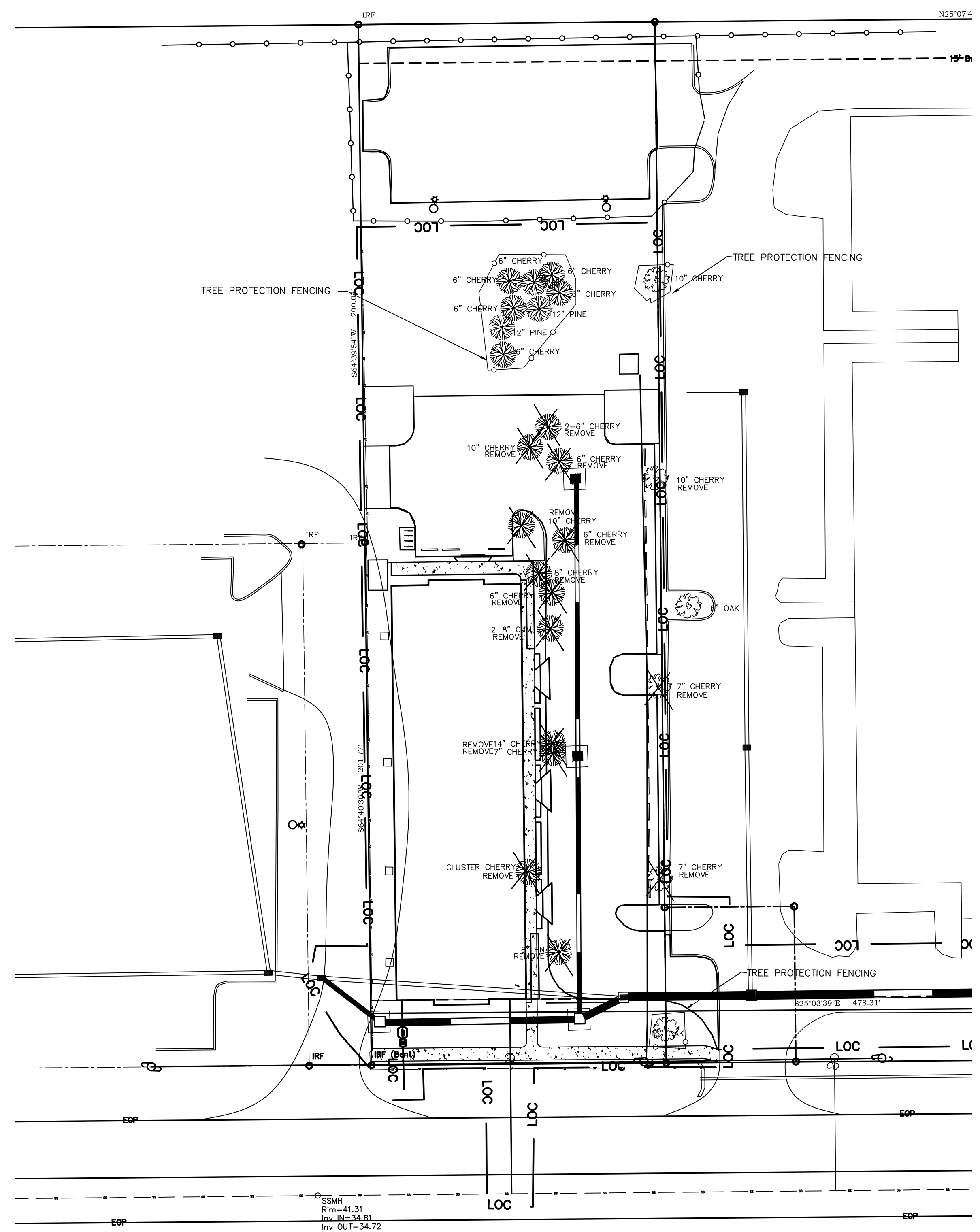
CARD HOLDINGS, LLC
1135 MILITARY CUTOFF ROAD
WILMINGTON, NC 28405
1-910-256-0044

SHEET
C3
of 4

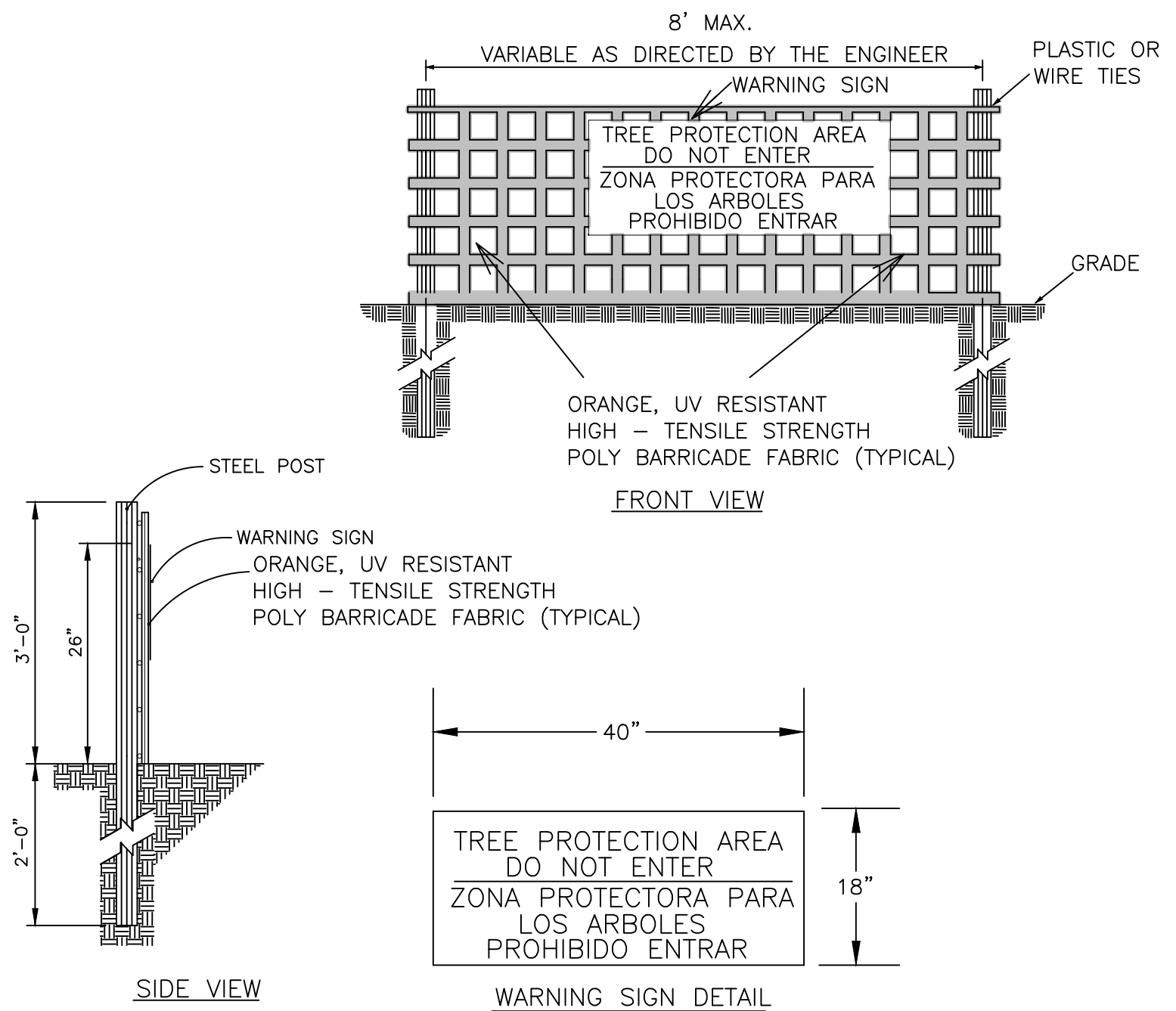
JOB NO. 051-004

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

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

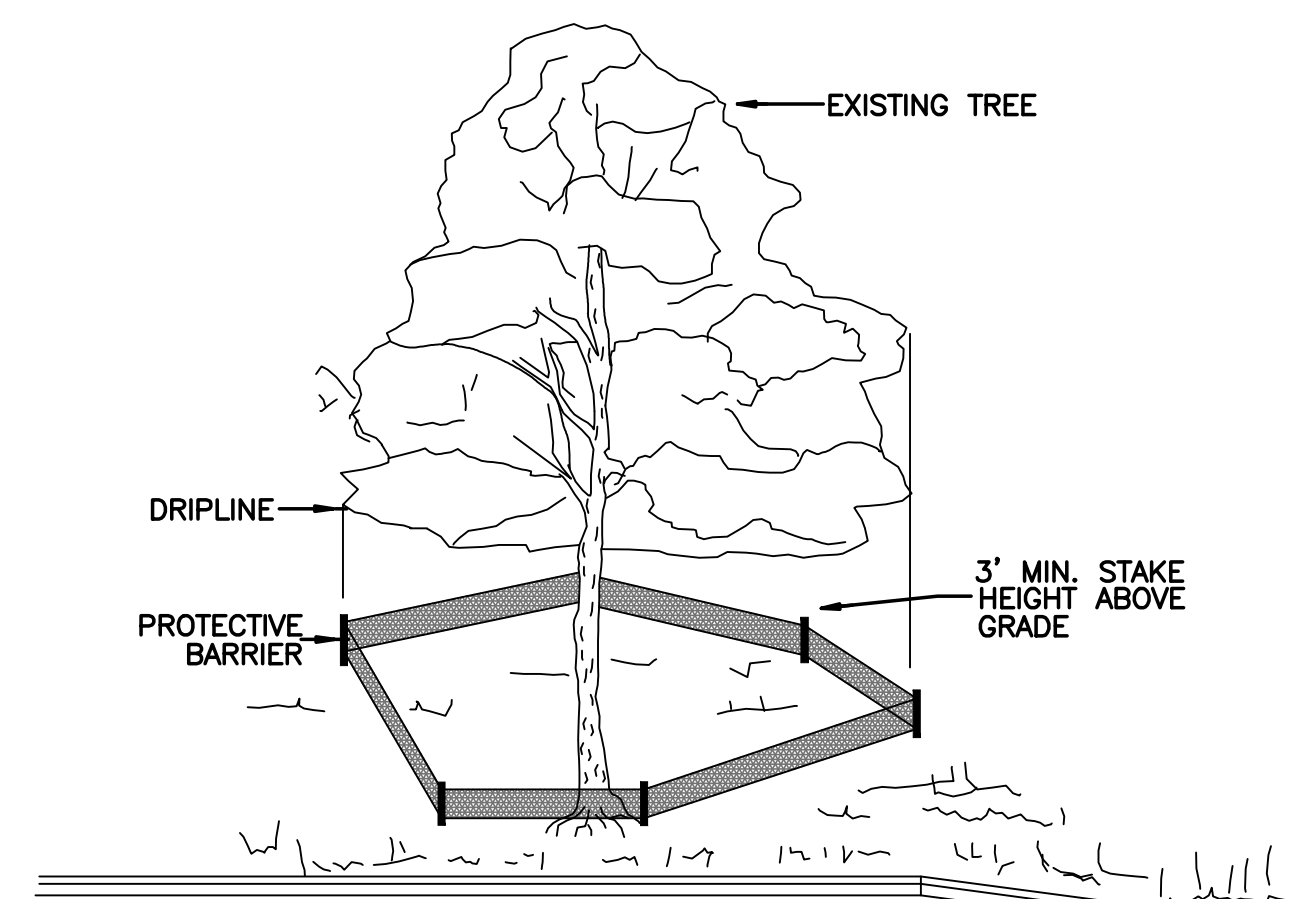


TREE INVENTORY MAP
SCALE 1" = 30'



- 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.

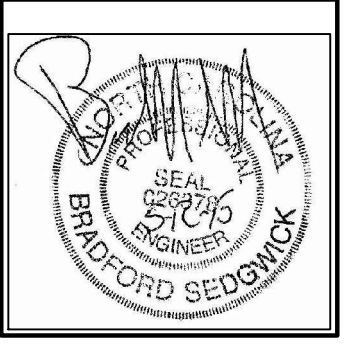
TREE PROTECTION DURING CONSTRUCTION
SD 15-09
NOT TO SCALE



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

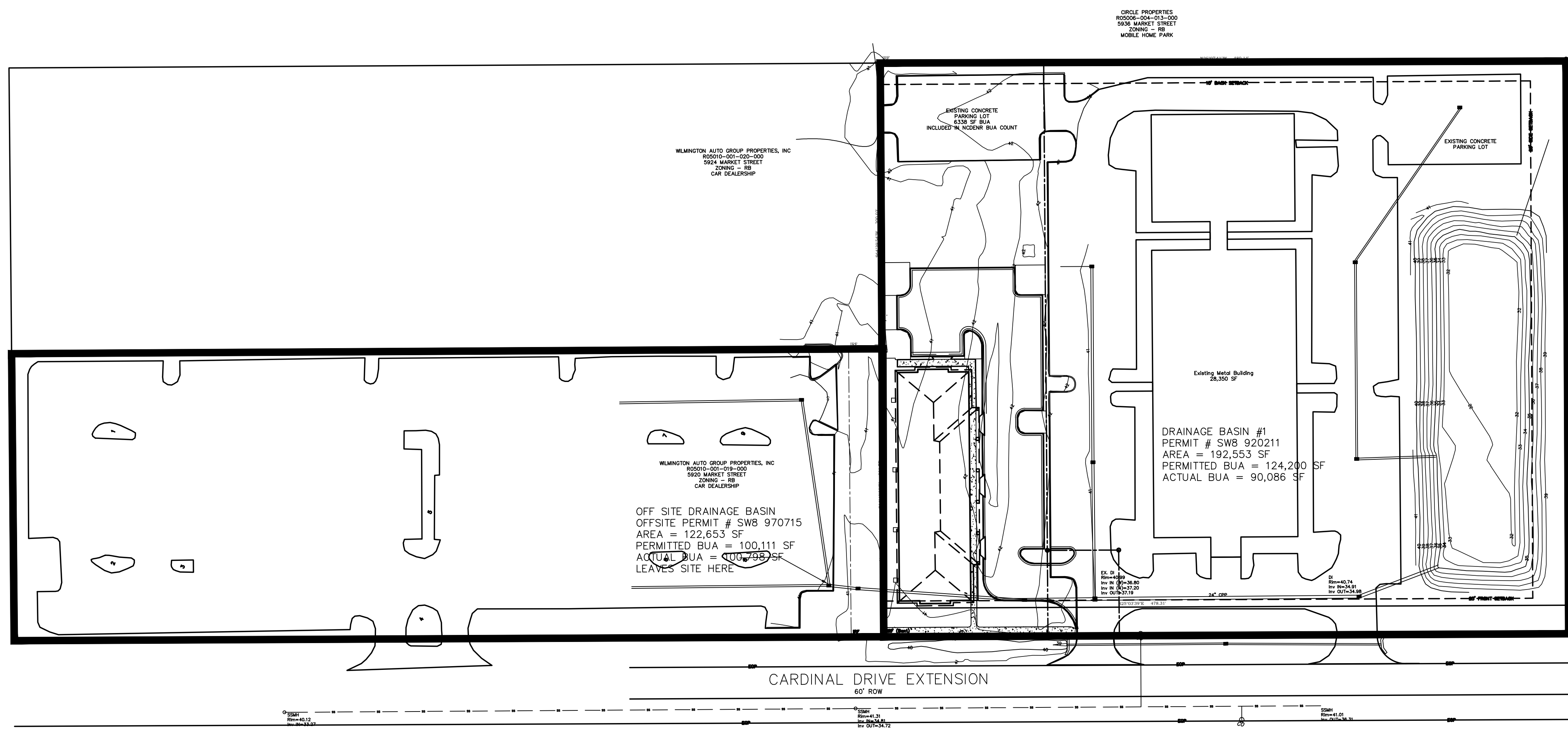
DESIGN BY: BDS
DRAWN BY: BDS
CHECKED BY: BDS
DATE: FEBRUARY, 2015

JBS CONSULTING, P.A.
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

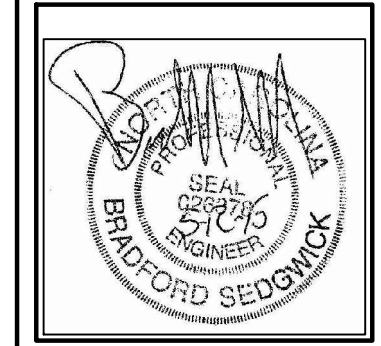


DRAINAGE BASIN
 SCALE 1" = 50'

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

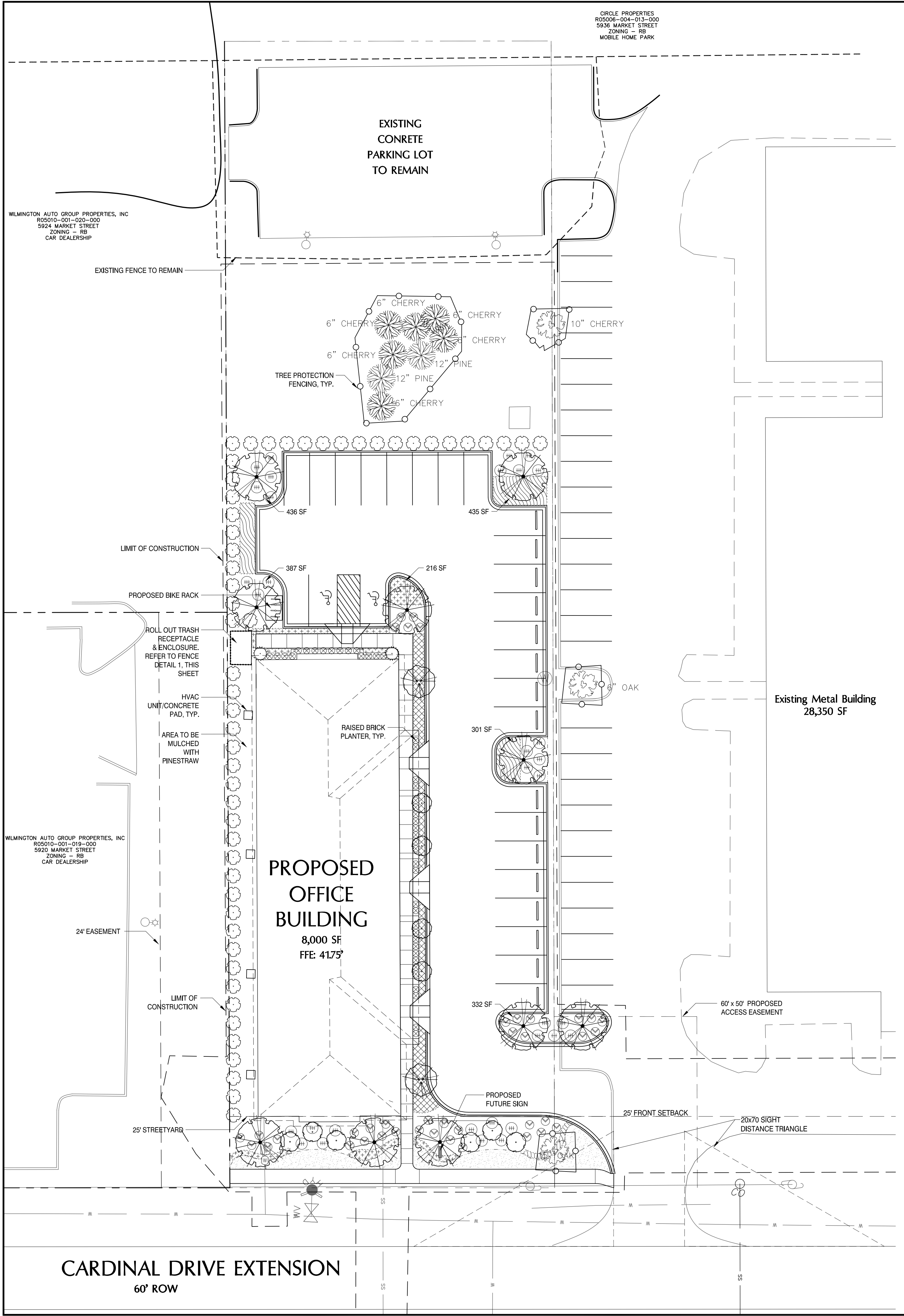
CARD HOLDINGS, LLC
 1135 MILITARY CUTOFF ROAD
 WILMINGTON, NC 28405
 1-910-256-0044

SHEET	C4
JOB NO.	051-004
	of 4

CIRCLE PROPERTIES
R05006-004-013-000
9336 MARKET STREET
ZONING - RB
MOBILE HOME PARK

WILMINGTON AUTO GROUP PROPERTIES, INC
R05010-001-020-000
5924 MARKET STREET
ZONING - RB
CAR DEALERSHIP

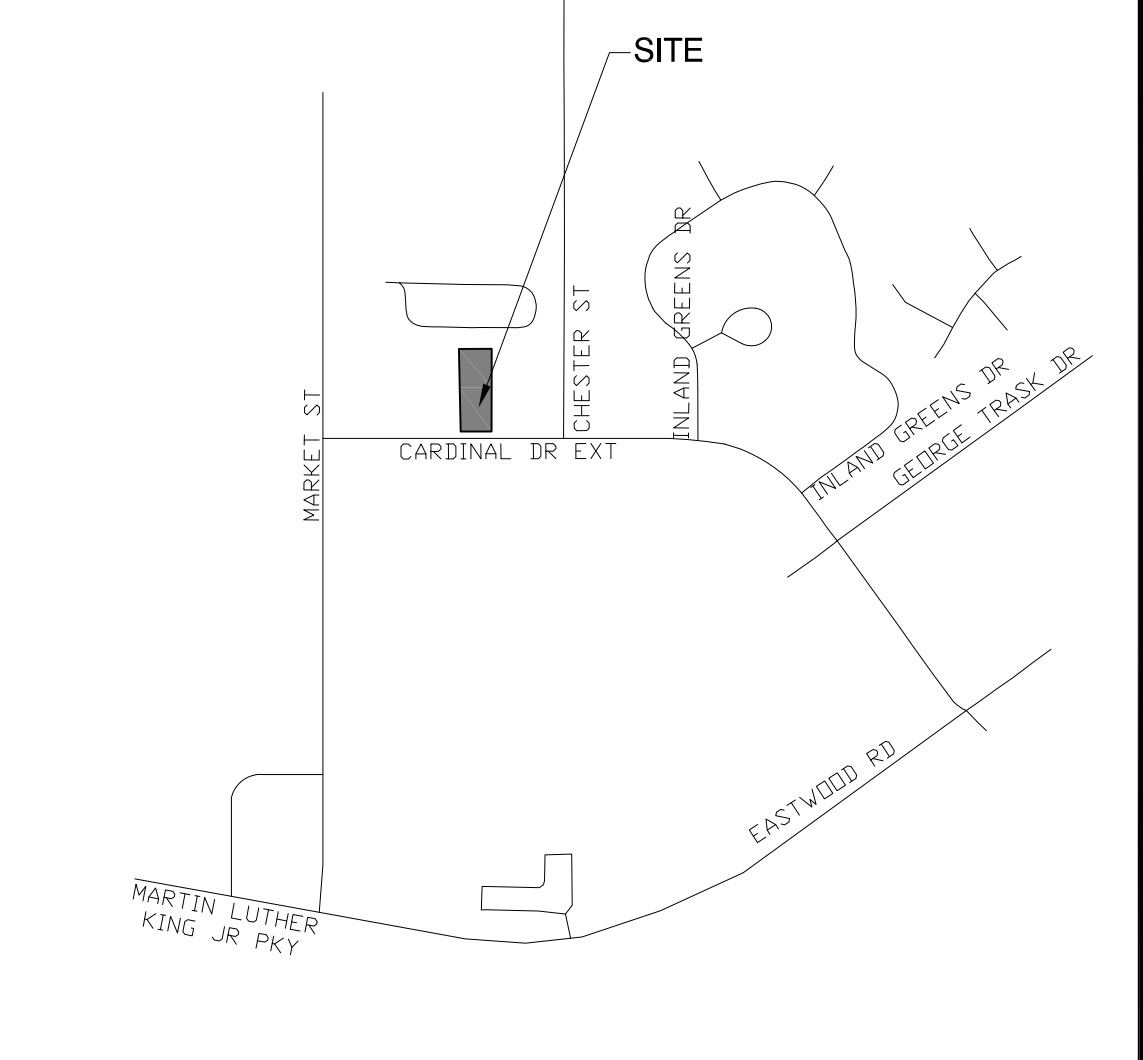
WILMINGTON AUTO GROUP PROPERTIES, INC
R05010-001-019-000
5920 MARKET STREET
ZONING - RB
CAR DEALERSHIP



PLANT SCHEDULE

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	RANGE	HT	QTY
	Lagerstroemia i. '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	10
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	HT	QTY	
	Abelia x grandiflora 'Rose Creek' / Rose Creek Abelia	3 gal	18-24"	HT	39	
	Buxus m. 'Wintergreen' / Wintergreen Boxwood	3 gal	12-18"	HT	44	
	Ilex vomitoria / Yaupon Holly	3 gal	18-24"	HT	54	
	Osmanthus fragrans / Sweet Olive	25 gal	5-6'	HT	2	
	Pittosporum l. 'Variegata' / Variegated Mock Orange	3 gal	18-24"	HT	33	
GROUND COVERS	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	SPACING	QTY	
	Liriope gigantea / Giant Liriope	1 GAL	12-18" HT	24" o.c.	104	
	Liriope muscari / Lily Turf	1 GAL	6-12" HT	18" o.c.	116	
	Pennisetum a. 'Hameln' / Hameln Dwarf Fountain Grass	3 GAL	12-15" HT	36" o.c.	56	
SOD/SEED	BOTANICAL NAME / COMMON NAME	SIZE	RANGE	SPACING	QTY	
	Eremochloa ophiuroides / Centipede Sod	sod			722 sf	

SITE MAP NOT TO SCALE



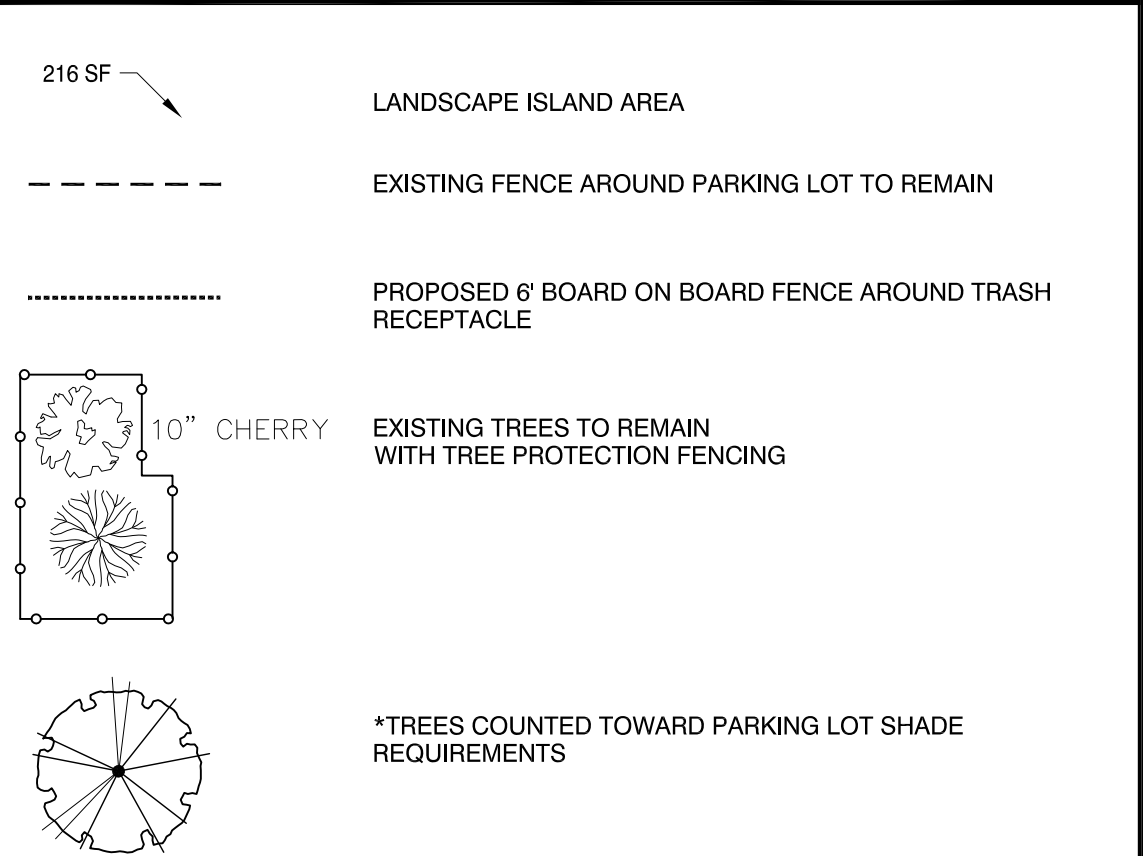
LANDSCAPE REQUIREMENTS

ADDRESS: 127 CARDINAL DRIVE EXTENSION
PARCEL ID: R05010-001-008-000

TOTAL LOT AREA: 4.37 ACRES
AFTER PROPOSED SUBDIVISION: 1.05 ACRES
EXISTING ZONING: RB - REGIONAL BUSINESS
CAMA LAND CLASSIFICATION: URBAN OFFICE
NUMBER OF BUILDINGS: 1; (4) 2,000 SF UNITS

LANDSCAPE REQUIREMENTS	REQUIRED	PROVIDED
STREET YARD* PRIMARY STREET YARD (CARDINAL DRIVE EXT.) (138 LF X 25) TREES: 3,450 SF/600	3450 SF 6	3450 SF 1 EXISTING 3 CANOPY TREES, 6 UNDERSTORY TREES 37
SHRUBS: (3,450/600)*6	36	
FOUNDATION PLANTINGS (209 LF*12")*.12	300 SF	439 SF
PARKING LOT SHADE REQUIREMENTS 12,849 SF*.20 =	2,570 SF	4,949 SF, 7 CANOPY TREES

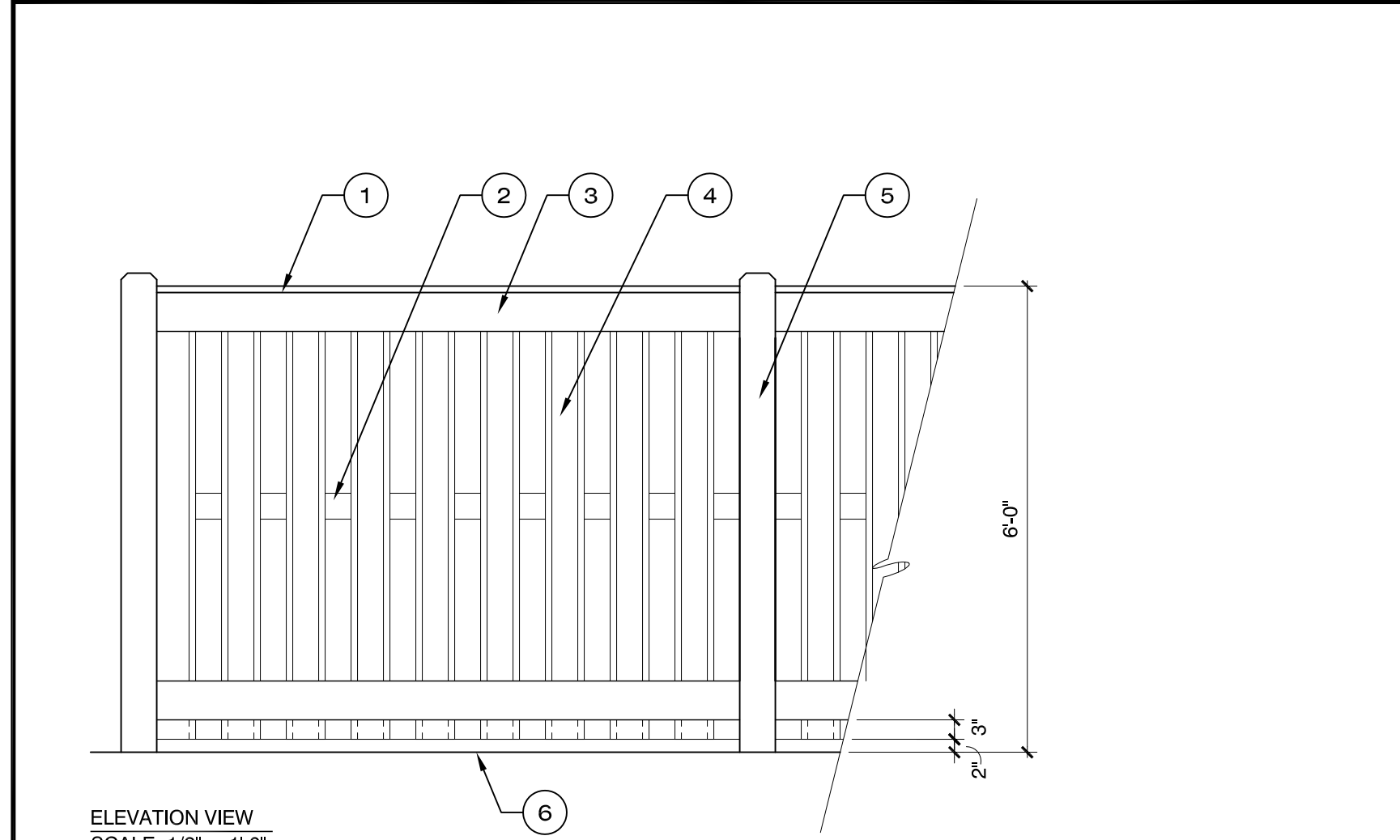
SYMBOL LEGEND



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.
- GROUNDCOVER TYPE SHOWN SHALL BE PLANTED IN ALL SHRUB AREAS AS SPECIFIED ON PLANS. GROUNDCOVER 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 GROUNDCOVER. ALL AREAS PLANTED WITH GROUNDCOVER SHALL BE MULCHED WITH HARDWOOD MULCH.
- PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROUPS OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING (SEC. 18-462d).
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10" (SEC. 18-566).

DETAIL 1. 6' BOARD ON BOARD FENCE



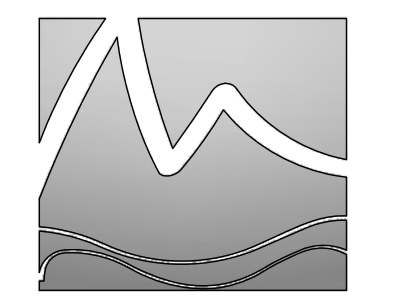
LEGEND

- 1 x 6 TOP PLATE
- 2 x 4 STRINGER
- 1 x 6 STRINGER
- 1 x 6 VERTICAL BOARDS - 1" OVERLAP
- 6 x 6 POSTS AT 8'-0" O.C.
- FINISH GRADE
- CONCRETE FOOTING
- COMPACTED SUBGRADE

- NOTES:**
- ALL CONNECTORS, FASTENERS AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED.
 - ALL WOOD TO BE #2 OR BETTER PRESSURE TREATED SOUTHERN YELLOW PINE
 - ALL WOOD TO BE STAINED
 - COLOR: TO BE SELECTED
 - * SAME FENCE DETAIL TO BE UTILIZED AT TRASH CORRAL, BUILT TO HEIGHT OF 5'

ELEVATION VIEW
SCALE: 1/2" = 1'-0"

SECTION VIEW
SCALE: 1/2" = 1'-0"



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

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

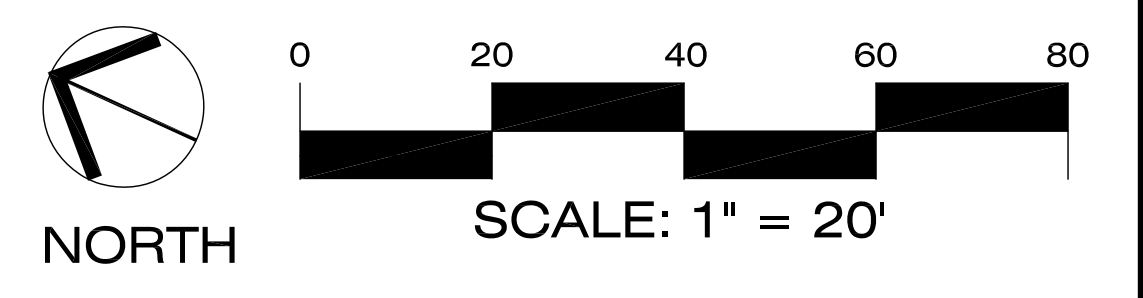
PROJECT
GOVERNMENT RESOURCE CENTER
127 CARDINAL DRIVE EXTENSION
WILMINGTON, NC 28405
LANDSCAPE PLAN

Date: 04/13/2015
Phase: 000
Job Number: 340-06
Designed by: MLD
Drawn by: ALM
Checked by: JWM

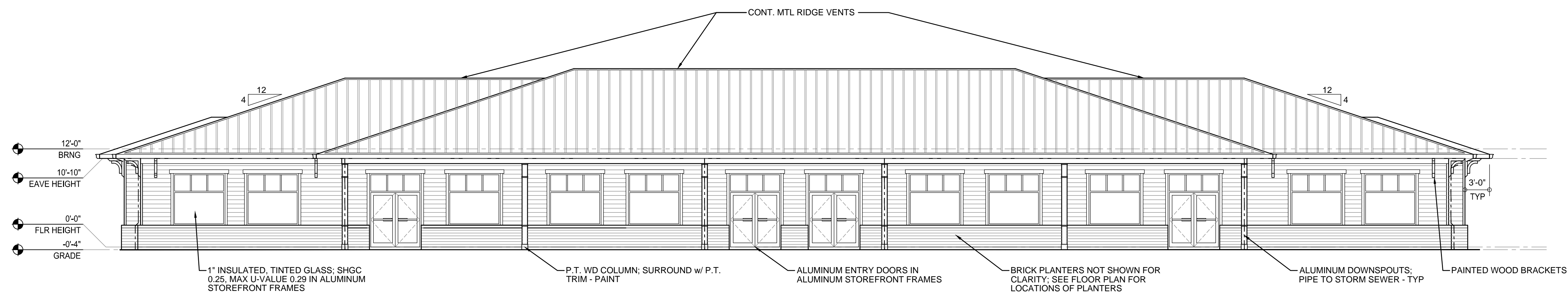
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LANDSCAPE PLAN

Sheet Number

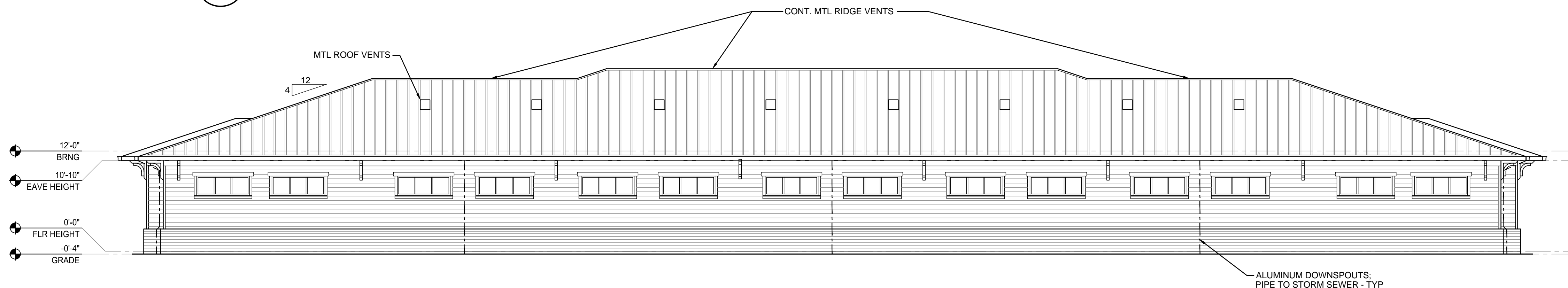
L1.1
of 1 sheets



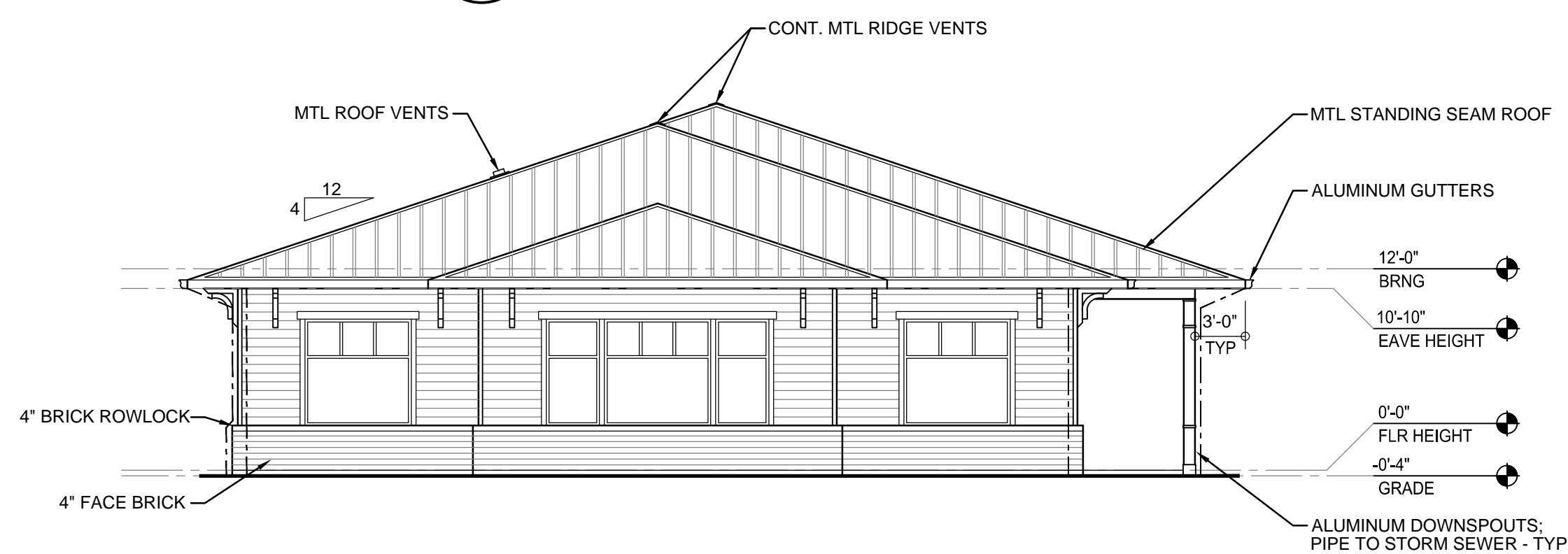
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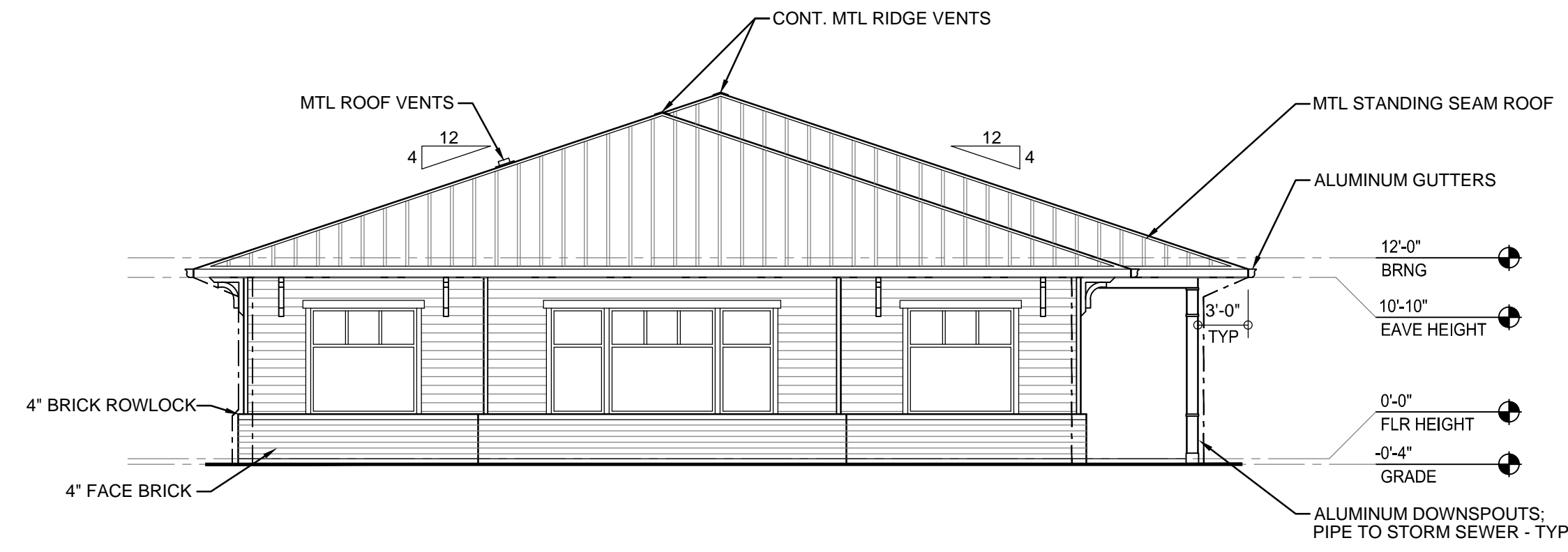
1 EAST ELEVATION
A201 SCALE: 1/8" = 1'-0"



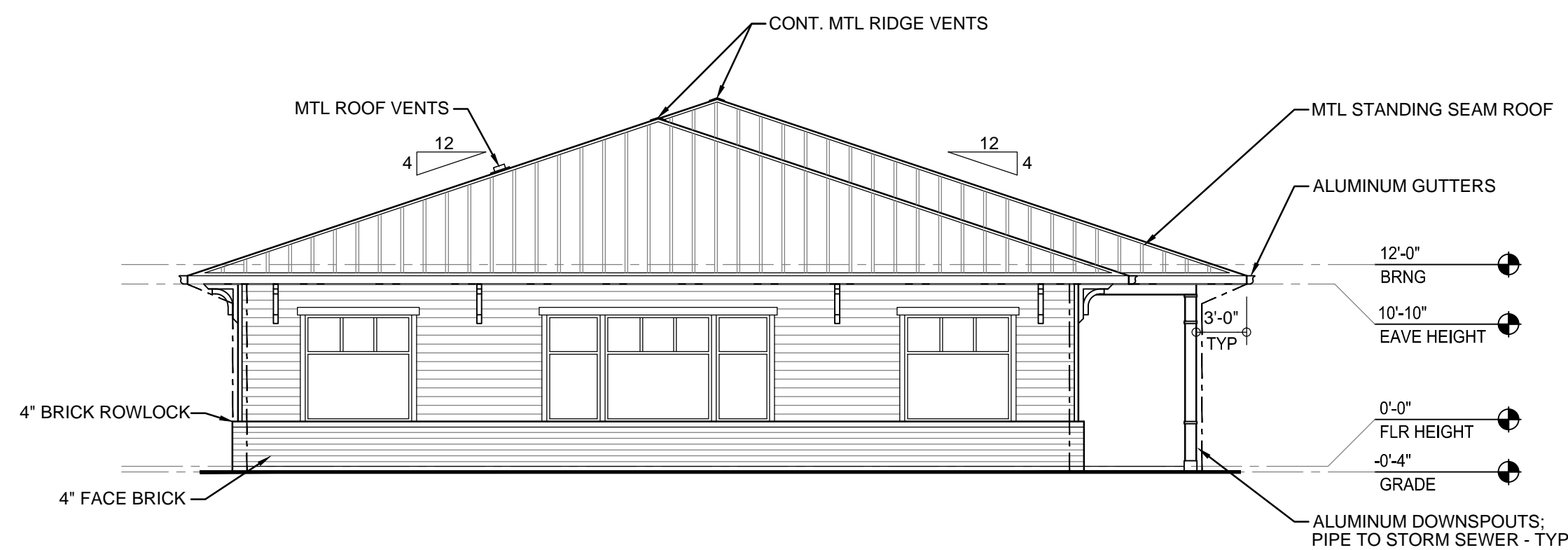
2 WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



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

ISSUE BLOCK

MARK	DATE	DESCRIPTION

03/11/2015 ISSUED FOR PRICING

PROJECT NO: 2015017.00

DATE: 03/11/2015

SCALE:

DRAWN BY: EJS PROJ MGR: RMC