

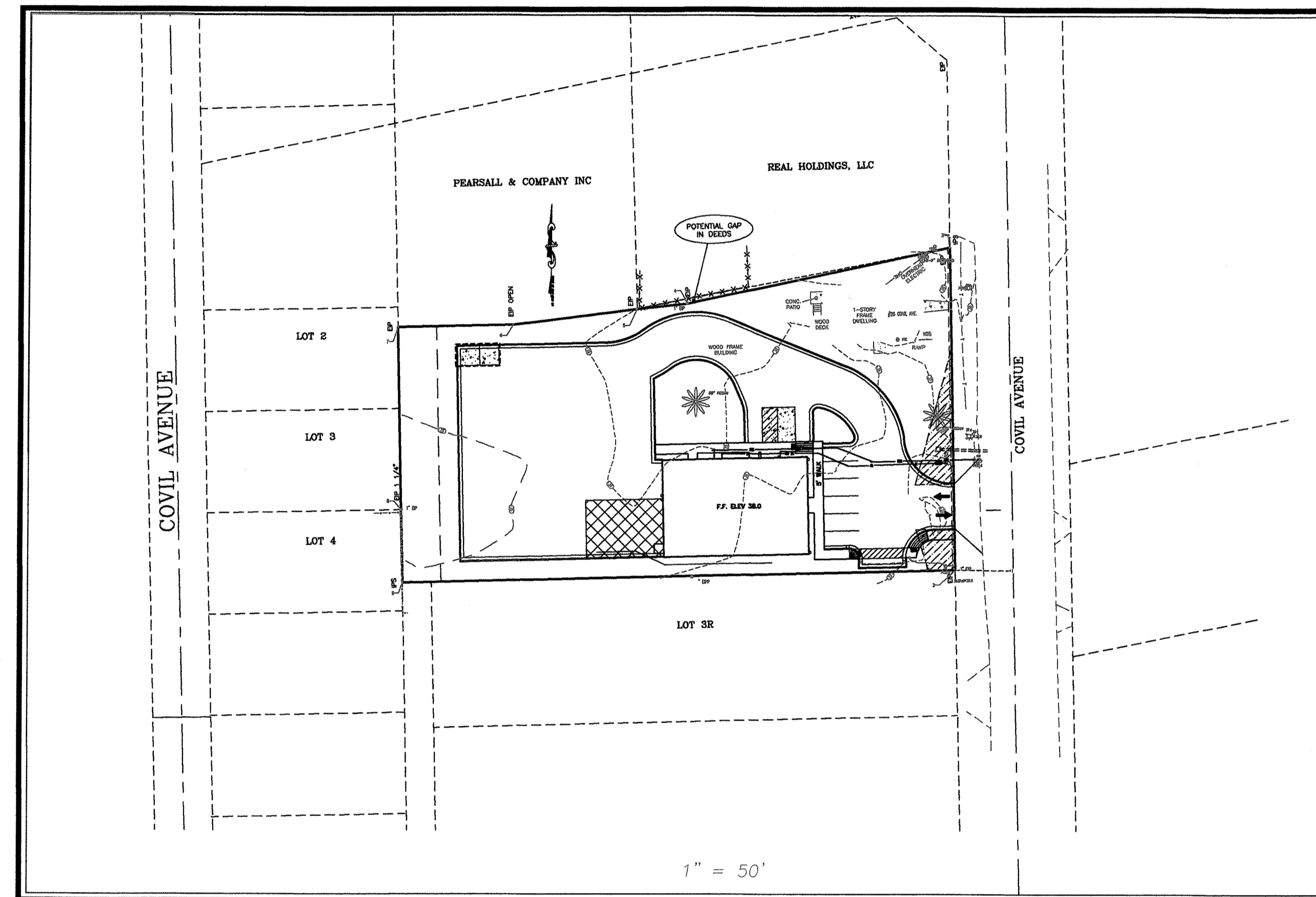
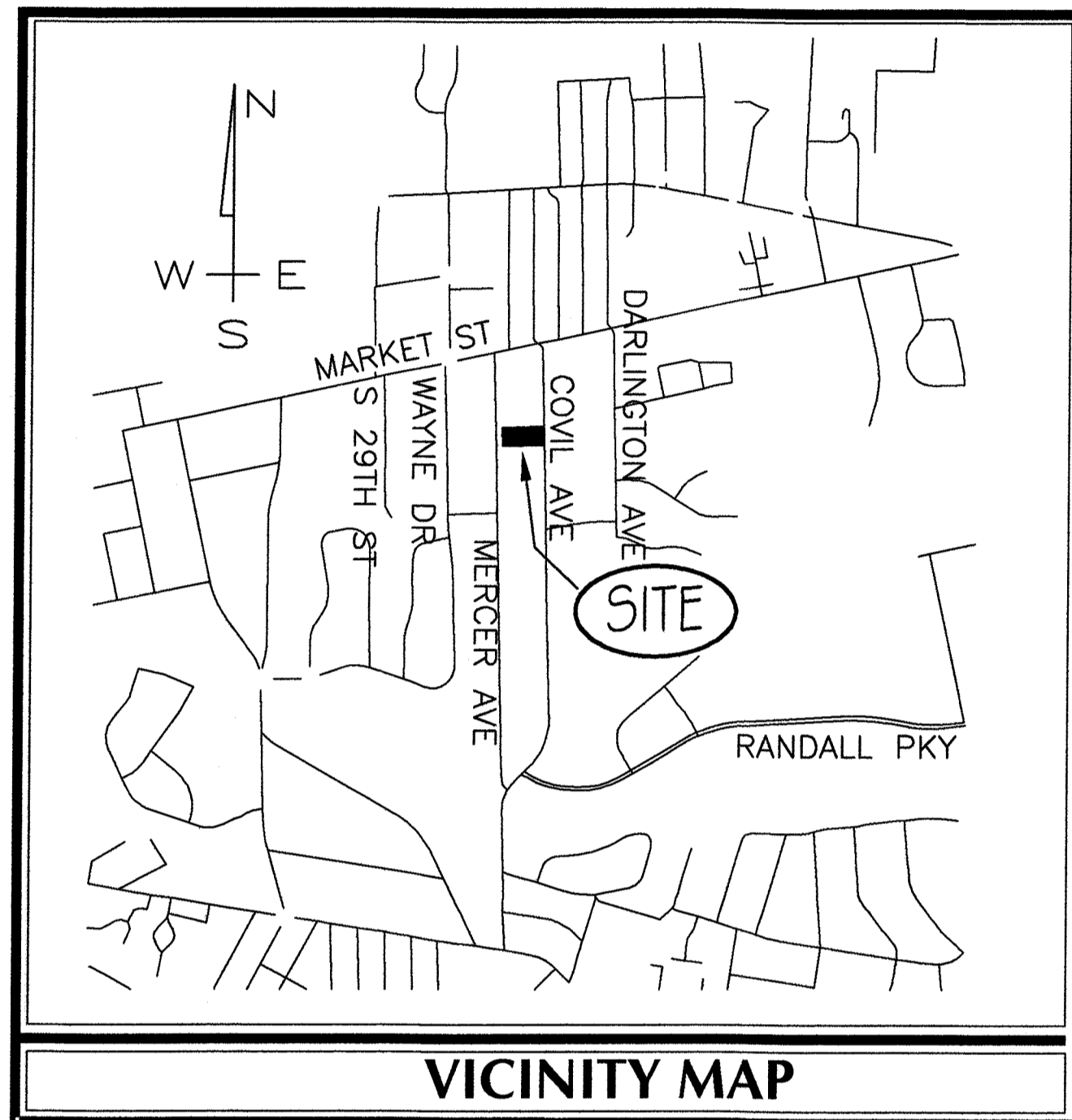
# Site Development For

# OCEAN BLUE POOLS & SPAS

## 30 COVIL AVENUE

## OCTOBER, 2015

## WILMINGTON, NORTH CAROLINA



INDEX OF SHEETS	
SHT C-0	COVER SHEET
SHT C-1	GENERAL NOTES
SHT C-2	EXISTING CONDITIONS
SHT C-3	DEMOLITION PLAN
SHT C-4	SITE LAYOUT & UTILITY PLAN
SHT C-5	GRADING, DRAINAGE & EROSION CONTROL PLAN
SHT C-6	UTILITY PLAN
SHT C-7	MISCELLANEOUS DETAILS
SHT C-8	LANDSCAPE PLAN
SHT C-9	LANDSCAPE PLAN

SITE DATA TABLE	
<b>GENERAL NOTES:</b>	
1.	NEW HANOVER COUNTY PARCEL NOS. PID 04917-003-040-000
2.	TOTAL AREA: 0.94 AC.± EXISTING ZONING: CS
4.	THIS PROPERTY IS NOT A SPECIAL FLOOD HAZARD ZONE PER FEMA FLOOD INSURANCE RATE MAP #3720313700J, EFFECTIVE DATE APRIL 3, 2008.
5.	CAMA LAND CLASSIFICATION: URBAN
<b>DEVELOPMENT DATA:</b>	
TOTAL TRACT AREA = 0.94 ac	
TOTAL DEVELOPMENT AREA = 0.94 ac	
BUILDING COVERAGE - 3,750 SF (9.18%) 1-STORY @ 75' X 50'	
FRONT SETBACK:	REQ'D 35 FT    PROVD 75.5 FT
REAR SETBACK:	25 FT    20 FT
INTERIOR SIDE SETBACK:	7 FT    10 FT
MAX HEIGHT:	35 FT    ** FT
TOTAL GROSS FLOOR AREA - 3,750 SF (HEATED)	
HEIGHT OF BLDG - 14' - TO ROOF EDGE 21' - TO TOP OF ROOF	
<b>IMPERVIOUS SURFACES - PROPOSED BUA</b>	
BLDG -	3,750 S.F.
CURB & GUTTER	1,510 S.F.
HANDICAP PARKING	308 S.F.
CANOPY (AT REAR OF BLDG)	1,200 S.F.
SIDEWALK -	1,003 S.F.
TOTAL -	7,769 S.F. (19.0%)
PERVIOUS GRAVEL AREA - 16,308 SF	
<b>PARKING:</b>	
1 SP/200 SF - MAX	
1 SP/400 SF - MIN.	
MAX ALLOWED: 19	
MINIMUM ALLOWED: 9	
PROVIDED: 8 SPACES WITH 1 HC FOR TOTAL OF 9 SPACES	
1 HC - REQ'D	
1 HC - PROVD	
<b>UTILITY CAPACITY REQUESTS:</b>	
PROPOSED SEWER CAPACITY:	
4 EMPLOYEES @ 25 GPD = 100 GPD	
PROPOSED WATER CAPACITY:	
4 EMPLOYEES @ 25 GPD = 100 GPD	
<b>BUILDING MATERIALS:</b>	
METAL PANELS ON BACK, LEFT AND RIGHT SIDE	
BRICK VENEER ON FRONT SIDE	
BUILDING CONSTRUCTION: TYPE II-B	
TRASH: DUMPSTER AT REAR OF SITE	
<b>NOTE:</b> ALL DESIGN AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF WILMINGTON & THE STATE OF NORTH CAROLINA	

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PROPERTY BOUNDARY	———	———
EASEMENT	———	———
STREAM	———	———
STRUCTURE	———	———
MINOR CONTOURS	- - - - 8 - - - -	- - - - 8 - - - -
MAJOR CONTOURS	- - - - 10 - - - -	- - - - 10 - - - -
GAS LINE	- - - - 6 - - - -	- - - - 6 - - - -
OVERHEAD POWER	- - OHP - - - -	- - OHP - - - -
WATER LINE	- - W - - - -	- - W - - - -
SANITARY SEWER LINE	- - SS - - - -	- - SS - - - -
SANITARY SEWER MANHOLE	⊙	⊙
STORM DRAINAGE PIPE	———	———
STORM DRAINAGE STRUCTURE	○ □	● ■
TREE	1 1" OAK ●	⊕ ⊗ ⊙ ⊛
CONCRETE	[Pattern]	[Pattern]
SILT FENCE	- SF -	- SF -
TREE PROTECTION FENCE	- TP -	- TP -
FIRE HYDRANT ASSEMBLY	⊕	⊕
TOP OF CURB GRADE	x 37.50	x 37.50
SPOT GRADE	x 37.50	x 37.50

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**Approved Construction Plan**  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

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

**OWNER**

**OCEAN BLUE POOLS & SPAS**  
30 COVIL AVENUE  
WILMINGTON, NC 28405  
TEL: 910-799-3022

**PORT CITY CONSULTING ENGINEERS, PLLC**  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032



**COORDINATION NOTES**

1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
2. ALL WORK IS TO BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA).
3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
4. ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.

**GENERAL NOTES:**

1. EXISTING TOPOGRAPHY HAVE BEEN PREPARED BY FIELD SURVEY BY BASE LINE SURVEYING, PLLC. BOUNDARY SURVEY PREPARED BY DANFORD & ASSOCIATES LAND SURVEYORS, P.C.
2. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC...
3. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE DOT.
5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
6. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
7. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
8. CONTRACTOR SHALL REMOVE ASPHALT, AGGREGATE BASE COURSE, AND CONCRETE CURB & GUTTER WITHIN LIMITS OF DEMOLITION AS SHOWN ON PLAN.

**DEMOLITION NOTES**

1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE UNCLASSIFIED EXCAVATION.
3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE SOILS ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AND AS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.
5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
6. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
7. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.
8. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVER HEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
9. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
10. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.
11. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE MAINS BY DIGGING TEST PITS BY HAND.

**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL NOTES:**

1. CLEAR AND REMOVE FROM SITE ALL TREES, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN DESIGNATED CLEARING LIMITS.
2. PLANT GRASS OVER ALL GRADED AREAS AS SHOWN IN THE TABLE ON THIS SHEET OF CEASE OF ANY GRADING ACTIVITY.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION MEASURES.
4. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETED, CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL INSPECTION AND APPROVAL BY NEW HANOVER COUNTY.
5. WATER, FERTILIZE, MOW AND MAINTAIN SPRIGGED, SODDED AND PLANTED AREAS UNTIL FINAL APPROVAL BY NEW HANOVER COUNTY.
6. ANY BORROW MATERIAL BROUGHT ONTO SITE MUST BE FROM A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.
7. ANY EXCESS MATERIAL REMOVED FROM SITE MUST BE HAULED TO A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.

**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. ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.
3. SEDIMENT WILL BE REMOVED BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. SILT FENCE STAKES WILL BE SPACED 6 FEET APART UNLESS A WIRE BACKING IS USED WITH 8 FOOT STAKE SPACING.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.

**PERMANENT SEEDING SCHEDULE**

Seeding Mixture  
SPECIES RATE (LB/ACRE)  
CAROLINA COASTAL SEED MIX (BLEND) 200

Seeding Dates  
MARCH - JUNE

Soil Amendments  
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 300 LB/ACRE 10-10-10 FERTILIZER.  
CHECK WITH OWNER PRIOR TO APPLYING. ALL CHEMICALS MUST BE PREAPPROVED BY GE.

Mulch  
DO NOT MULCH.

Maintenance By Owner  
FERTILIZE VERY SPARINGLY LB/ACRE NITROGEN IN SPRING WITH NO PHOSPHORUS. CENTIPEDE GRASS CANNOT TOLERATE HIGH PH OR EXCESS FERTILIZER.

**TEMPORARY SEEDING-LATE WINTER/EARLY SPRING**

Seeding Mixture  
WINTER AND EARLY SPRING

SPECIES RATE (LB/ACRE)  
Rye (GRAIN) 120  
ANNUAL LESPEDEZA (KOBÉ IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS) 50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SUMMER  
SPECIES RATE (LB/ACRE)  
GERMAN MILLET 40

FALL  
SPECIES RATE (LB/ACRE)  
RYE (GRAIN) 120

**Seeding dates**

COASTAL PLAIN - DEC.1-APR. 15 - LATE WINTER AND EARLY SPRING  
APRIL 15 - AUG. 15 - SUMMER  
AUG. 15 - DEC. 30 - FALL

Soil amendments  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

Mulch  
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

Maintenance  
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

**NPDES WATER QUALITY STABILIZATION TIMEFRAMES**

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES & SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETER AND HQW ZONES

**GENERAL GRADING NOTES**

1. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF SUCH UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF THE DITCHING OPERATION BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF THE TRENCHING OPERATIONS SO AS TO AVOID AND PREVENT DAMAGE TO THE EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING BUT NOT LIMITED TO REPAIRS AND LOSS SERVICE REVENUE. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC...
2. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
3. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE NCDOT.
4. ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, FENCING, ETC... SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE OR BURNED IF PROPER PERMITS ARE RECEIVED.

**SITE NOTES**

1. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND R.O.W.'S PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
3. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
5. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
6. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
7. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
9. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER.
10. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT NORTH CAROLINA ONE CALL TOLL FREE 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NONSUBSCRIBING UTILITIES.
11. ALL PERMITS RELATIVE TO PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY, AND LOCAL CODES.
13. FOR BUILDING DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
14. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
16. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

**EXISTING UTILITY NOTES**

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

**UTILITY CONTACTS:**

1. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING AND DIGGING. 1-800-632-4949

**NOTICE REQUIRED**

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO ANY EXCAVATION OR DEMOLITION.

CONTACT "CAROLINA ONE CALL" AT 1-800-632-4949  
EMERGENCY DIAL 911 POLICE - FIRE - RESCUE

**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

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.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
Checked By	MNH	Job No.	

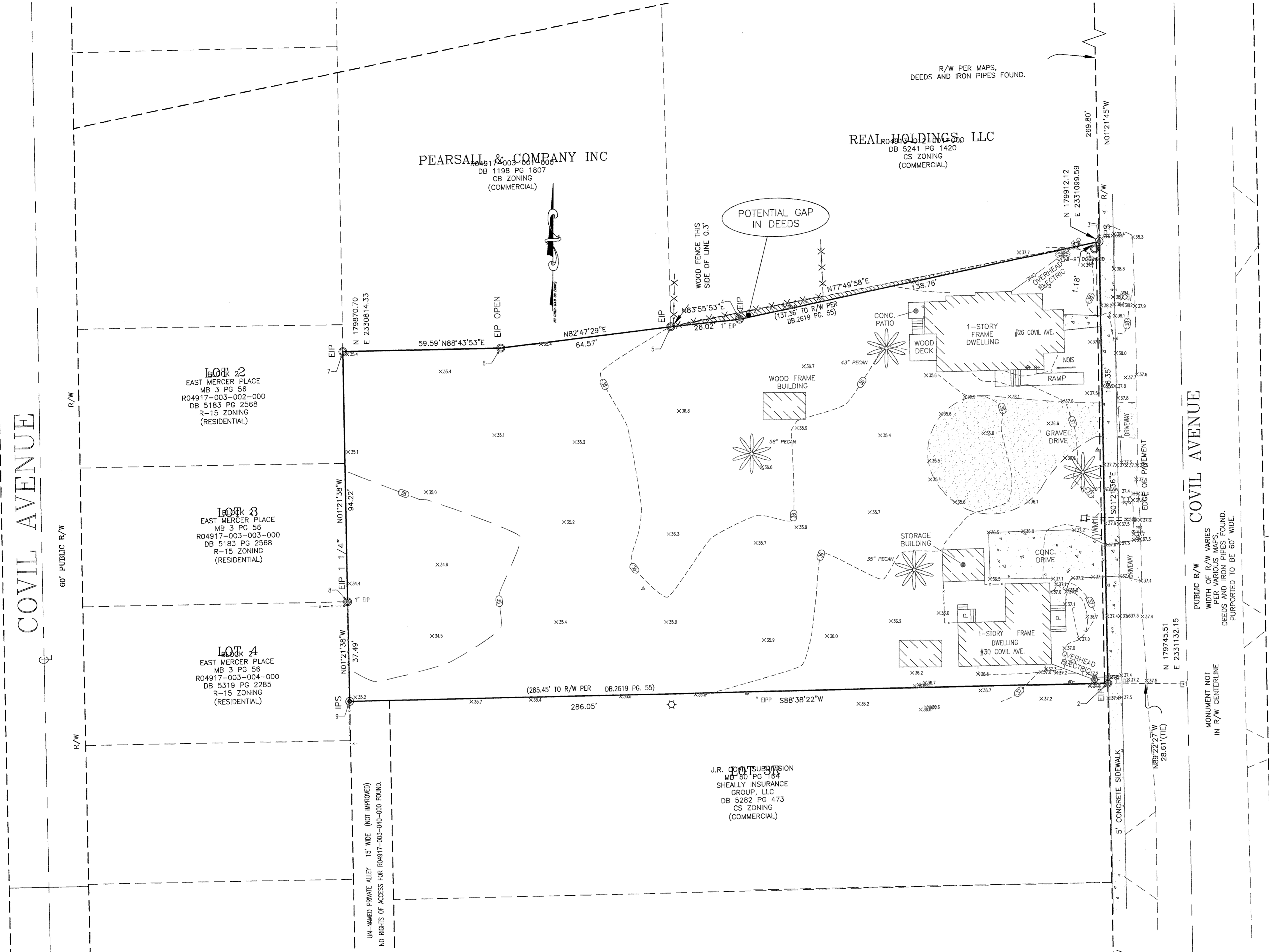
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WILMINGTON NORTH CAROLINA

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PORT CITY CONSULTING ENGINEERS, PLLC  
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**GENERAL NOTES**

Sheet No. **C-1**



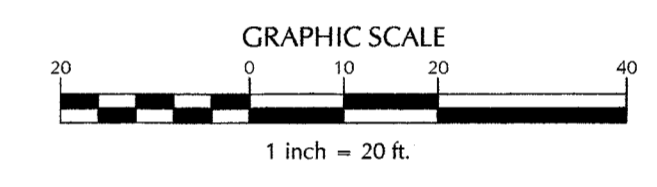
PEARSALL & COMPANY INC  
 R04917-003-001-000  
 DB 1198 PG 1807  
 CB ZONING  
 (COMMERCIAL)

REAL HOLDINGS LLC  
 R04917-012-001-000  
 DB 5241 PG 1420  
 CS ZONING  
 (COMMERCIAL)

R04917-004-001-000  
 LARRY & REBECCA HILL  
 DB 2069 PG 0066  
 CS ZONING  
 (AUTO REPAIR)

R04917-004-004-000  
 MICHAEL S. BOCHEY  
 DB 1449 PG 1189  
 CS ZONING  
 (RESIDENTIAL)

J.R. COLE SUBDIVISION  
 MB 50 PG 164  
 SHEALLY INSURANCE  
 GROUP, LLC  
 DB 5282 PG 473  
 CS ZONING  
 (COMMERCIAL)



WILMINGTON  
 NORTH CAROLINA

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

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 WILMINGTON NORTH CAROLINA

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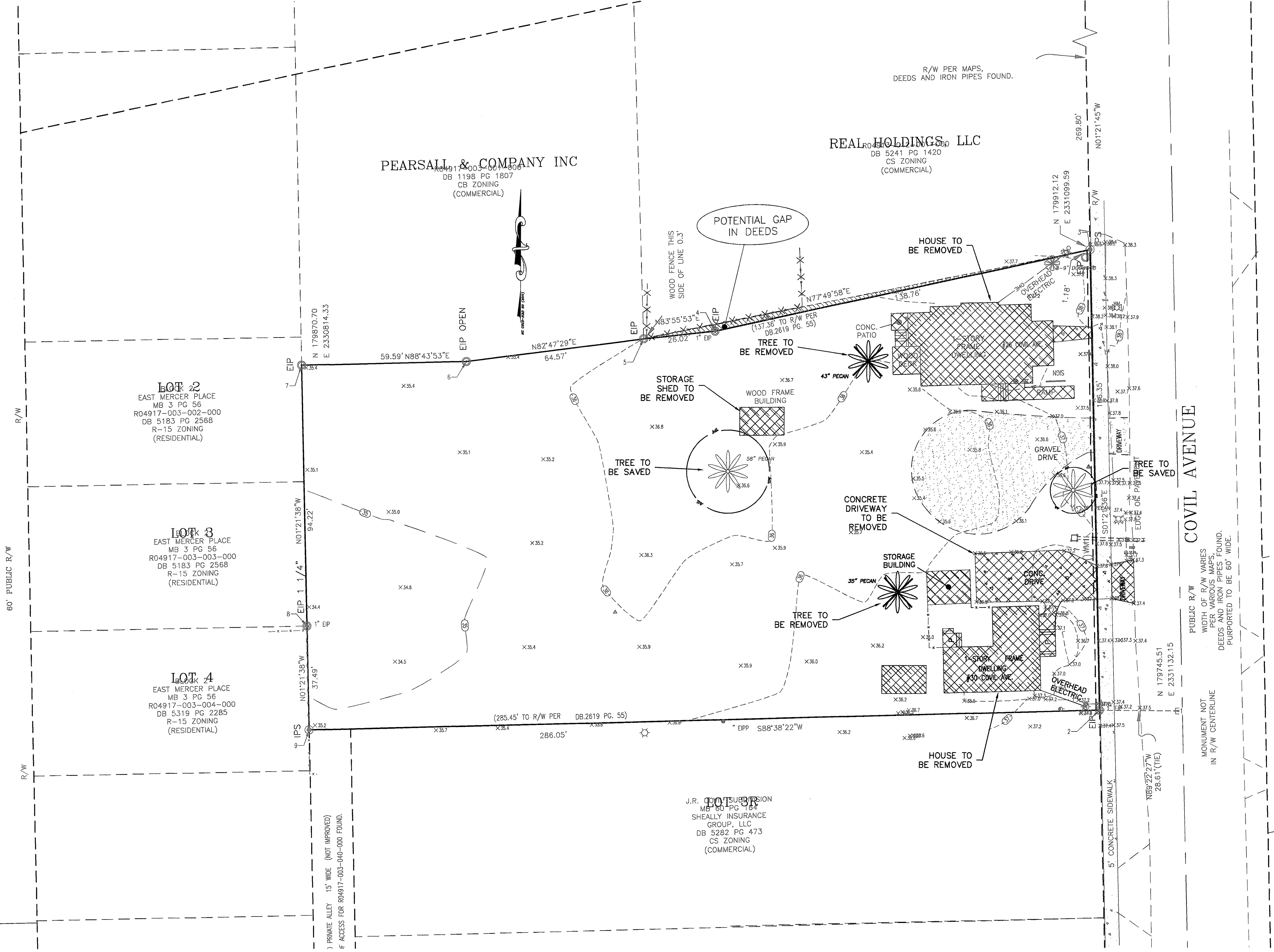
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EXISTING CONDITIONS

Sheet No.  
 C-2

COVIL AVENUE

COVIL AVENUE



**NOTES:**

PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. 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 INSTRUCTION ON TREE PROTECTION METHODS.

ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.

CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING AND DIGGING, CLEARING, OR GRADING.

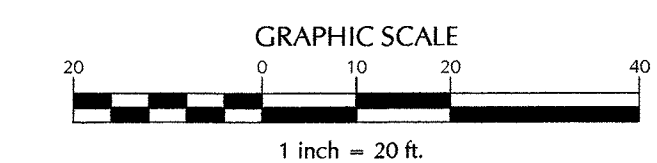
ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS

ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE

A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.

A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC DIVISION AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING THE FINAL PLAN.

CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.



**CITY OF WILMINGTON**  
NORTH CAROLINA

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

**Approved Construction Plan**

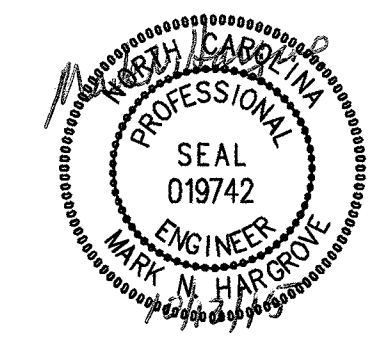
Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

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.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
Checked By	MNH	Job No.	

**OCEAN BLUE POOLS & SPAS**

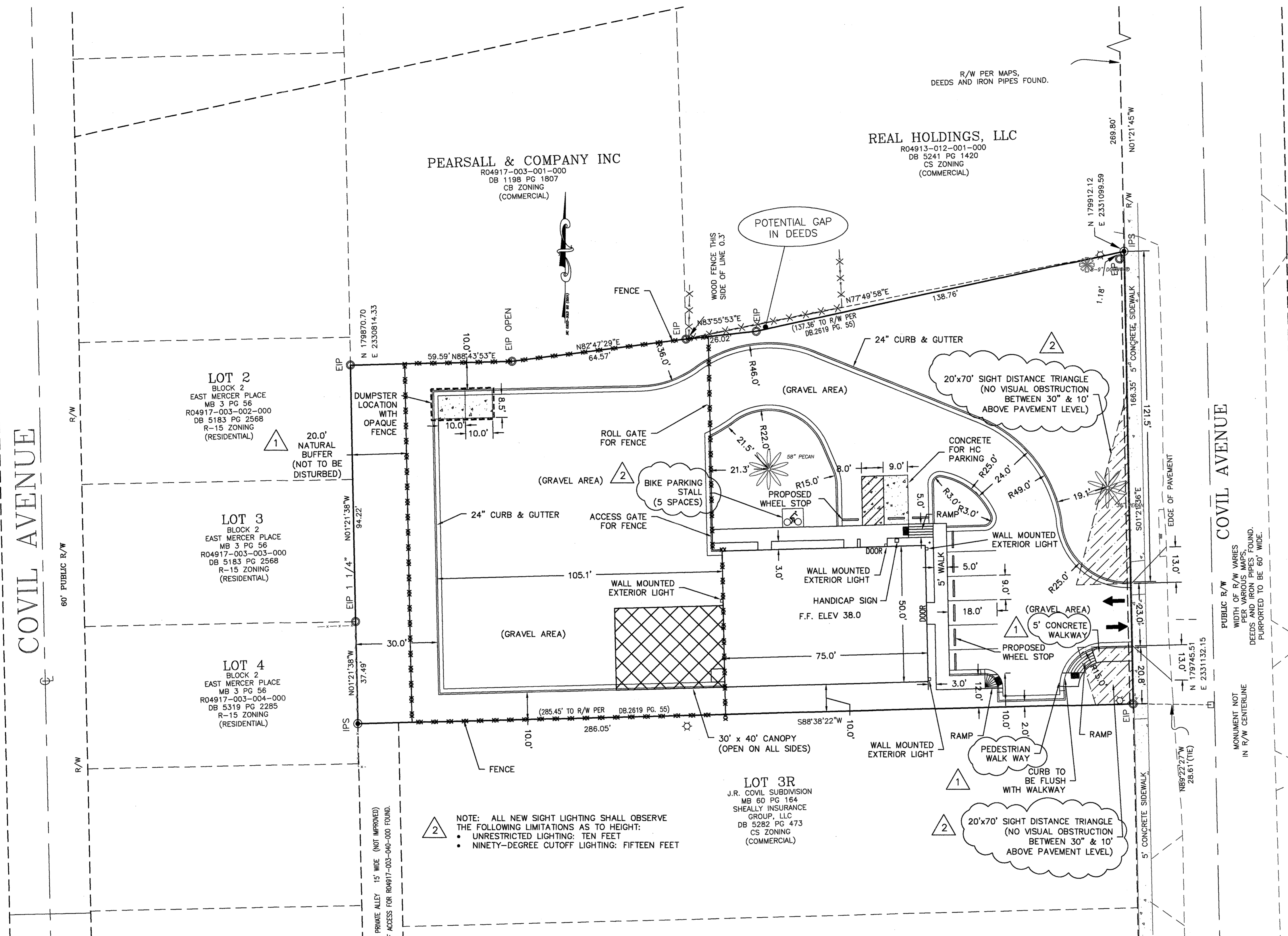
WILMINGTON NORTH CAROLINA

OCEAN BLUE POOLS & SPAS  
30 COVIL AVENUE  
WILMINGTON, NC 28405

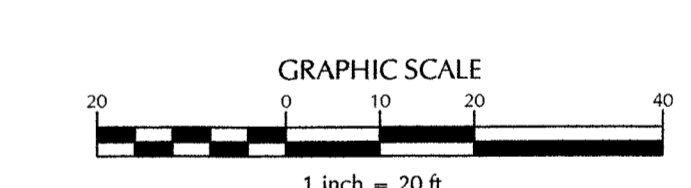
PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**DEMOLITION PLAN**

Sheet No.  
**C-3**



- NOTES:**
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. 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 INSTRUCTION ON TREE PROTECTION METHODS.
  - 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
  - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
  - CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING AND DIGGING, CLEARING, OR GRADING.
  - CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY
  - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE
  - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.
  - A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC DIVISION AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RECORDING THE FINAL PLAT.
  - TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS
  - WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS
  - PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION
  - 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 DEVELOPER'S SIDE OF THE WATER METER BOX
  - CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
  - NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE



**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

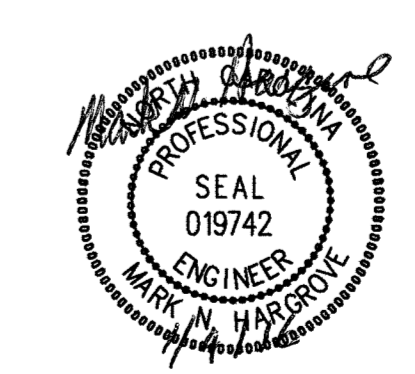
**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_



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No.	Revision	Date	By
1	REVISED PER CITY COMMENTS	12/2/15	MNH
2	REVISED PER CITY COMMENTS	12/30/15	MNH

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
Checked By	MNH	Job No.	

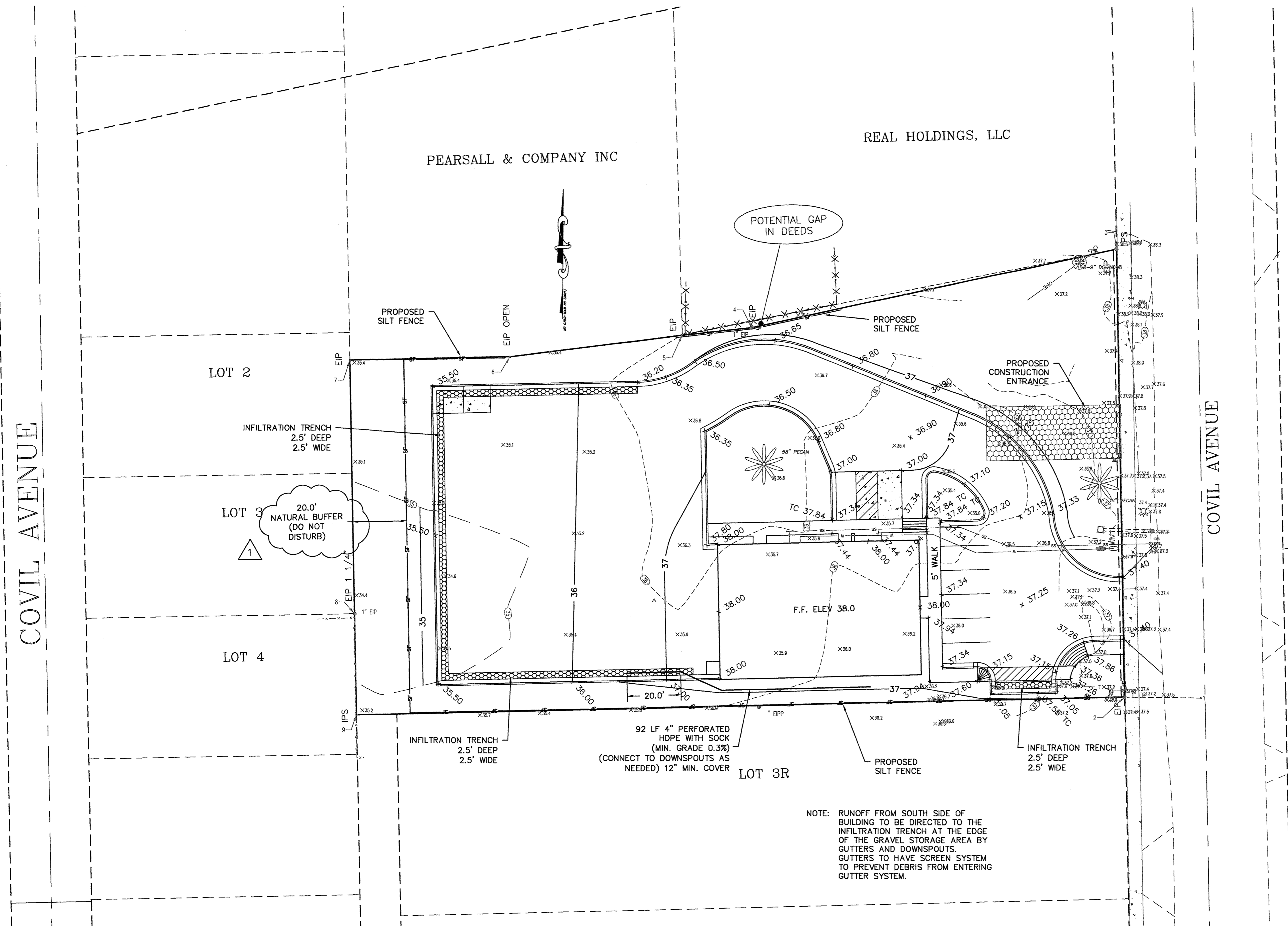
**OCEAN BLUE POOLS & SPAS**  
WILMINGTON NORTH CAROLINA

**OCEAN BLUE POOLS & SPAS**  
30 COVIL AVENUE  
WILMINGTON, NC 28405

**PORT CITY CONSULTING ENGINEERS, PLLC**  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**SITE PLAN**

Sheet No. **C-4**



**NOTES:**

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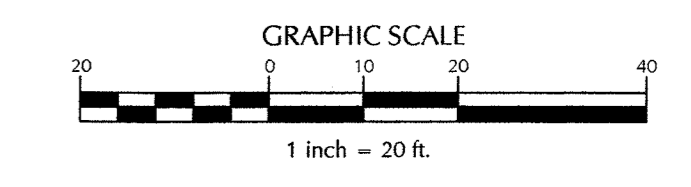
CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**Approved Construction Plan**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

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Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
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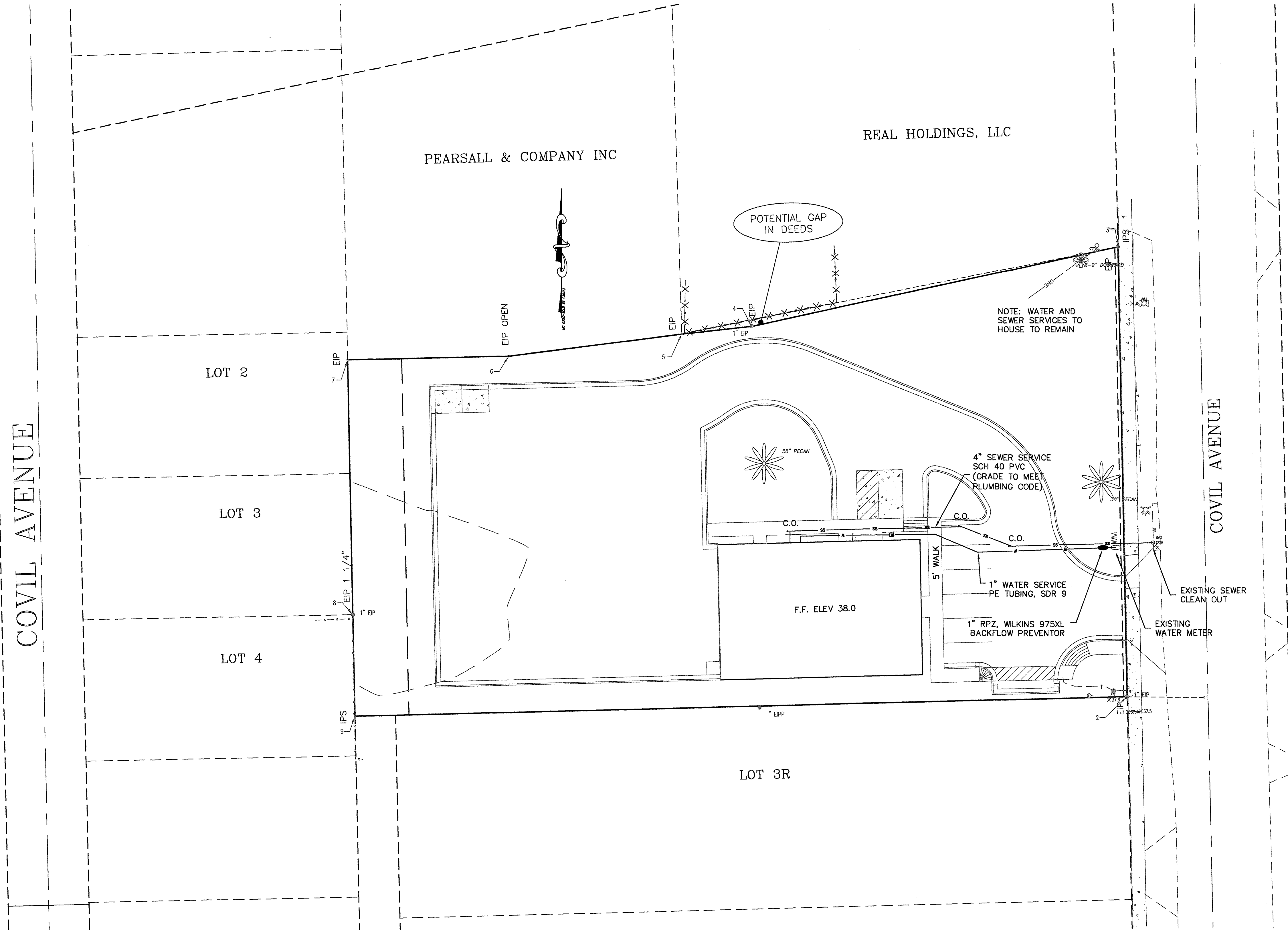
**OCEAN BLUE POOLS & SPAS**  
WILMINGTON NORTH CAROLINA

OCEAN BLUE POOLS & SPAS  
30 COVIL AVENUE  
WILMINGTON, NC 28405

PORT CITY CONSULTING ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**GRADING & DRAINAGE PLAN**

Sheet No. **C-5**



NOTES:

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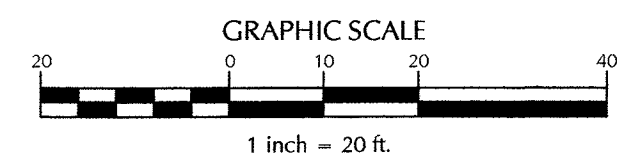
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CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

Approved Construction Plan	
Name	Date
Planning	_____
Traffic	_____
Fire	_____

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Drawn By	MNH	Date	OCTOBER, 2015
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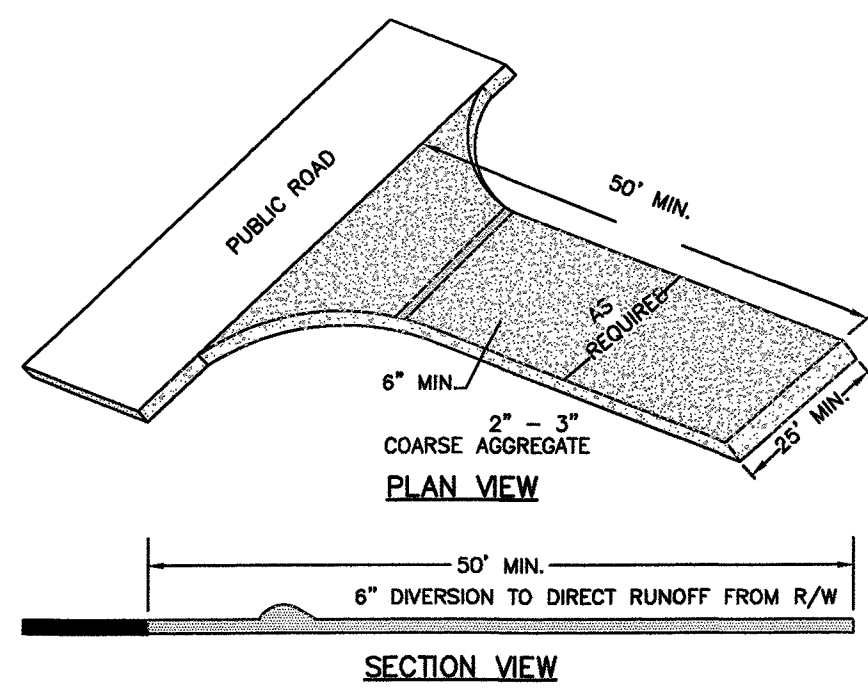
**OCEAN BLUE POOLS & SPAS**  
WILMINGTON NORTH CAROLINA

OCEAN BLUE POOLS & SPAS  
30 COVIL AVENUE  
WILMINGTON, NC 28405

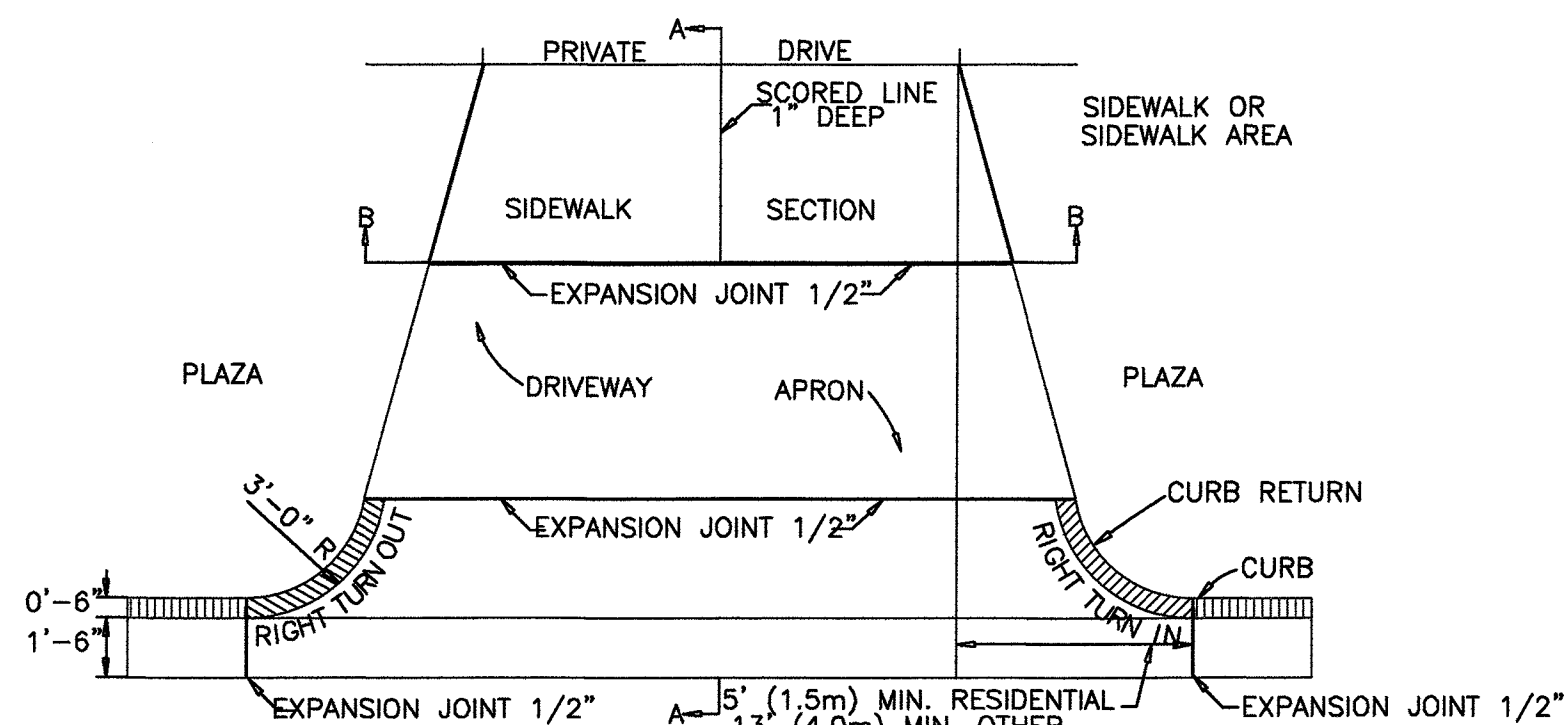
PORT CITY CONSULTING ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**UTILITY PLAN**

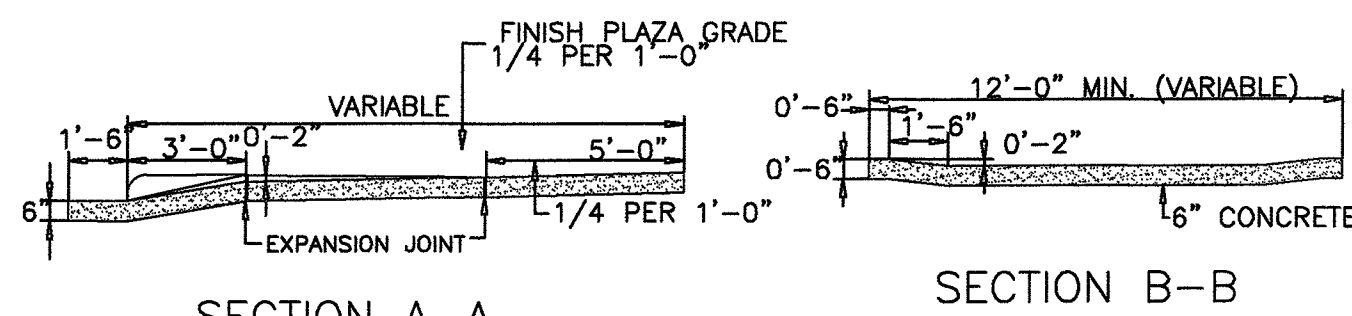
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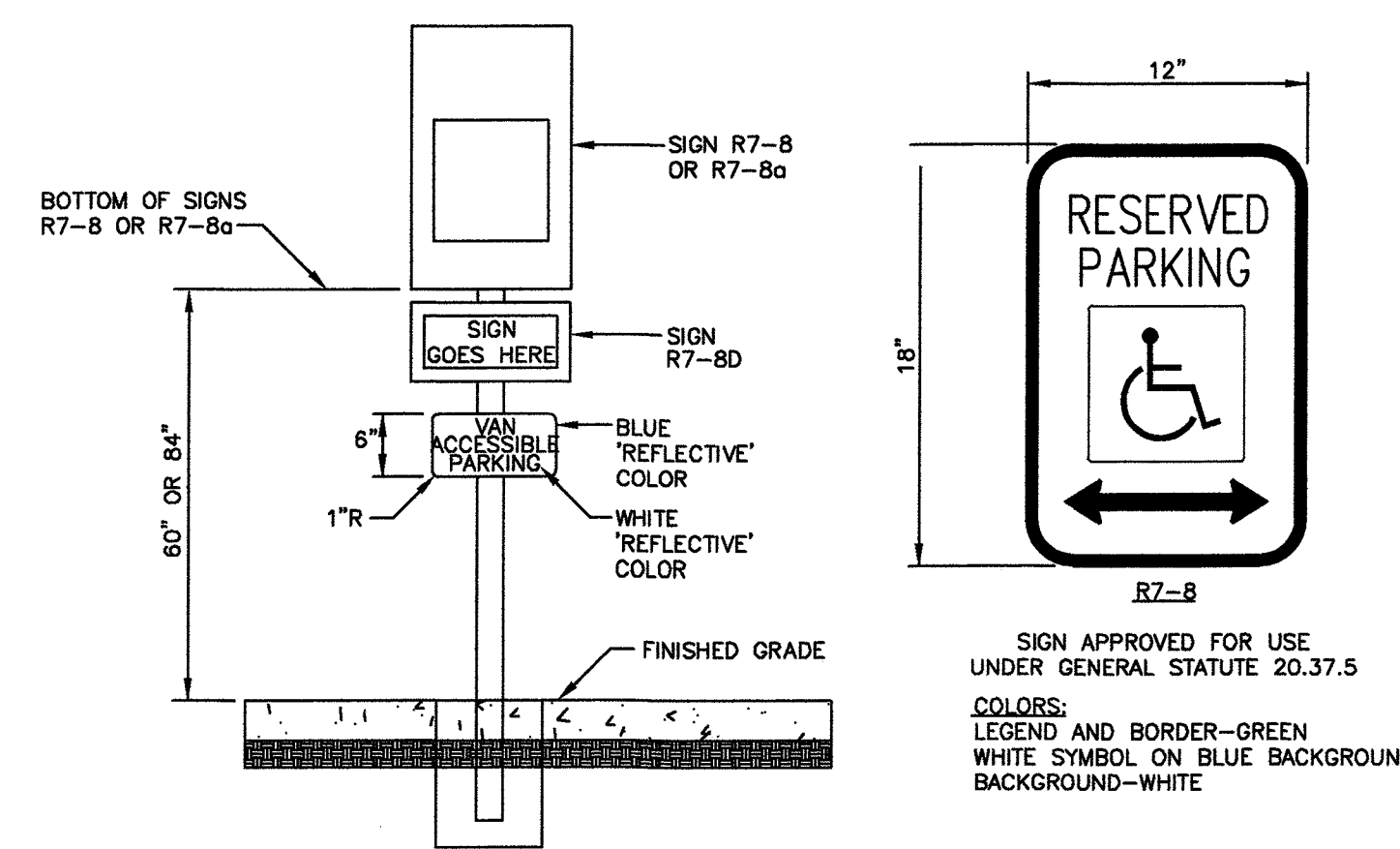
TEMPORARY CONSTRUCTION ENTRANCE  
N.T.S.



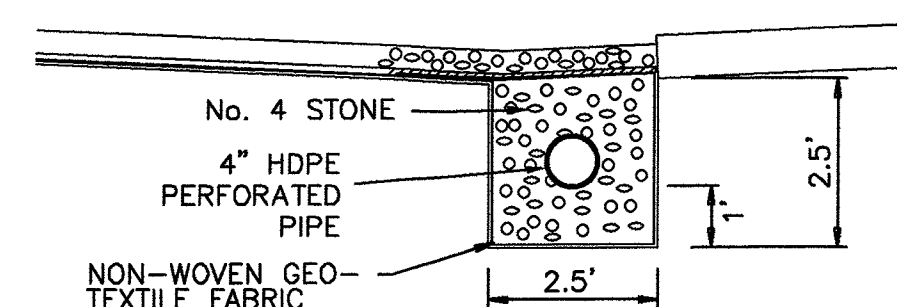
PAVEMENT PLAN



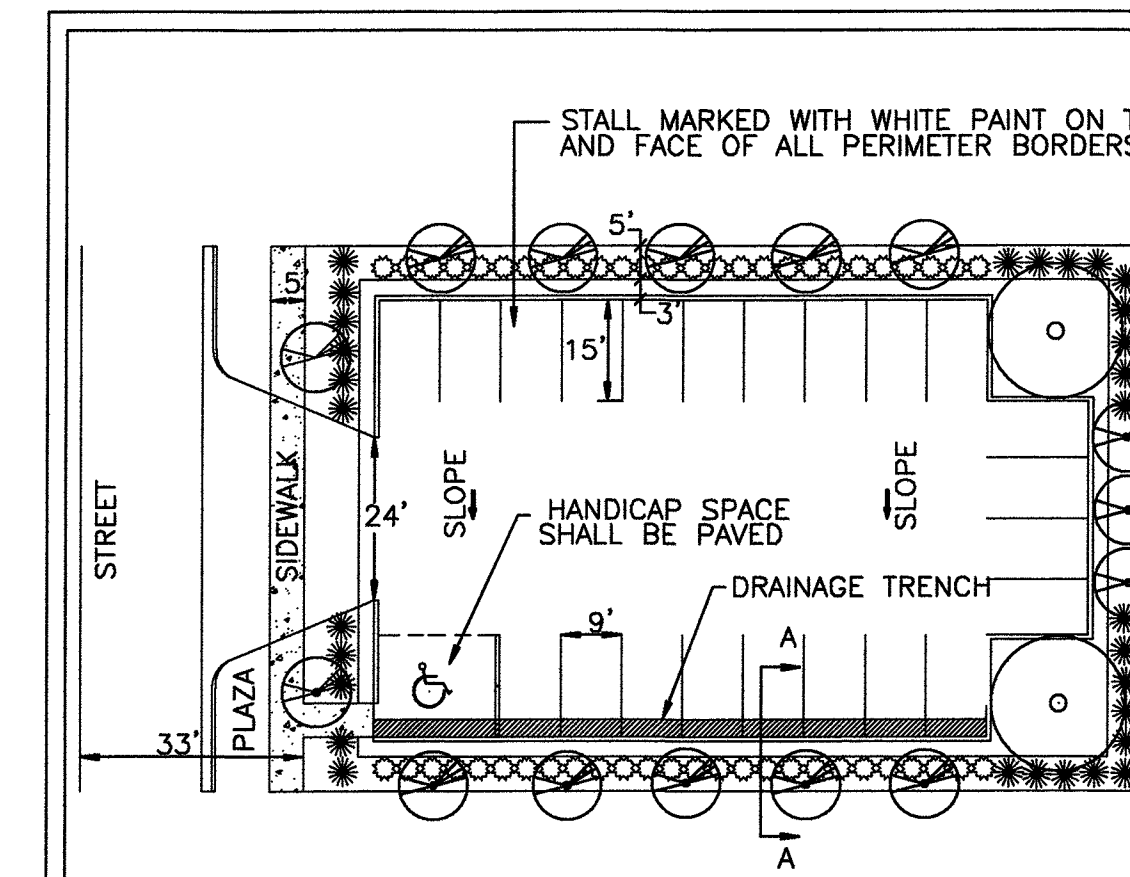
STANDARD DRIVEWAY DETAIL  
SD 8-02  
N.T.S.



HANDICAP PARKING SIGNAGE  
N.T.S.



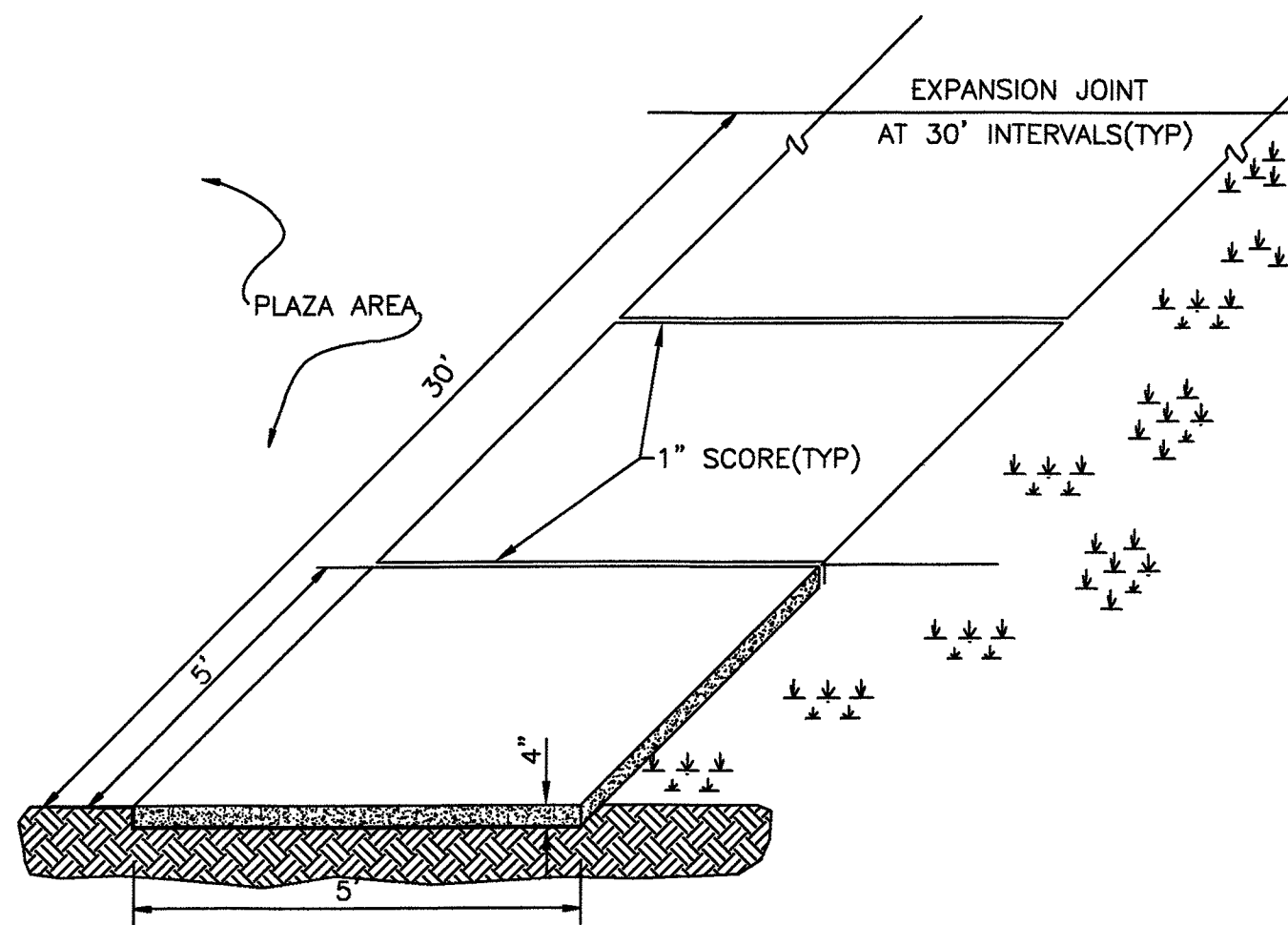
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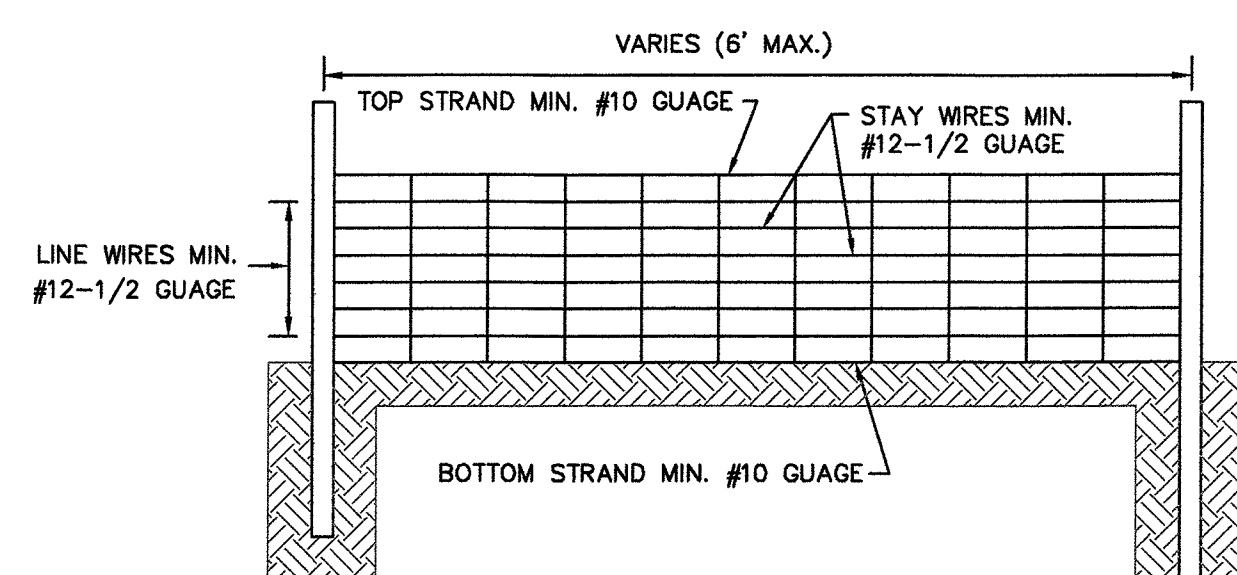
STANDARD DETAIL  
TYPICAL UNPAVED  
PARKING FACILITY  
UNDER 25 STALLS

CITY OF WILMINGTON  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807

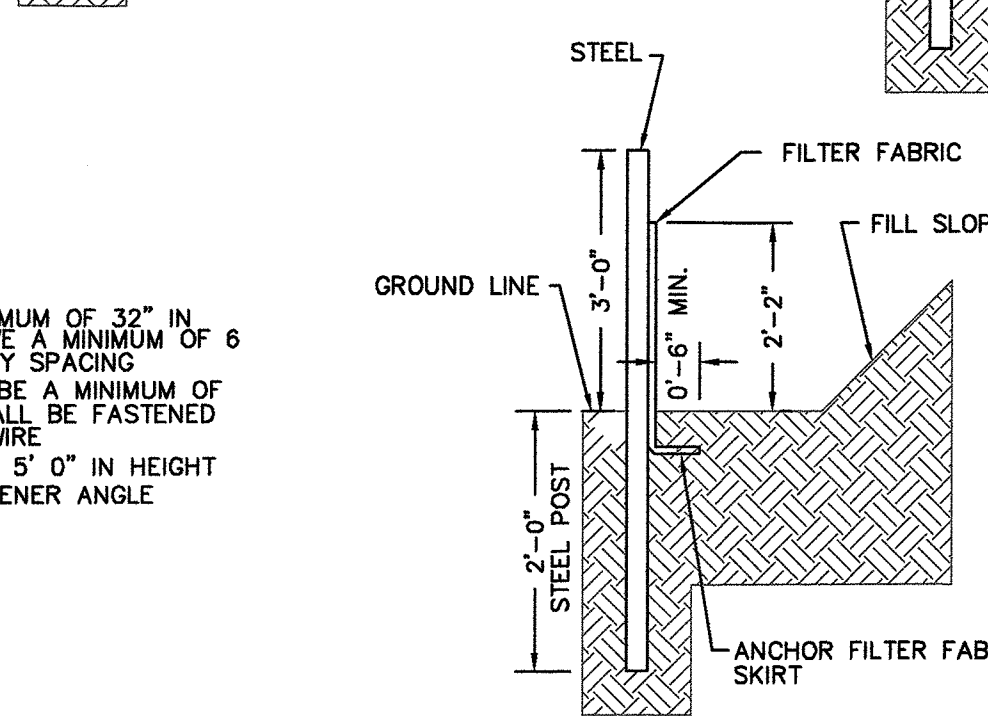
SD 15-10



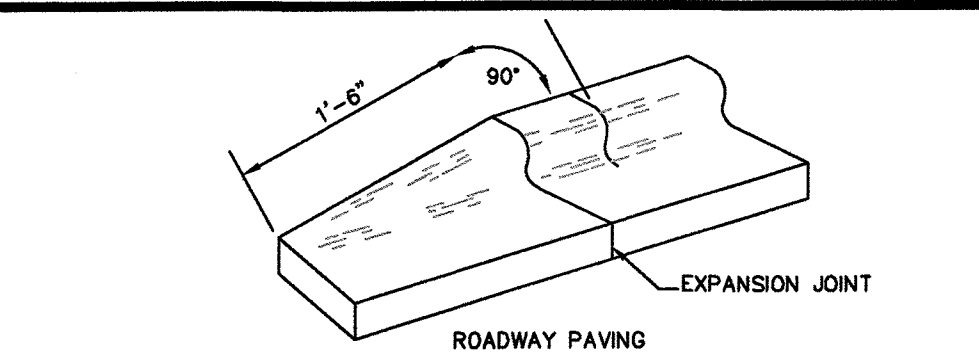
STANDARD SIDEWALK DETAIL  
SD 8-15  
NOT TO SCALE



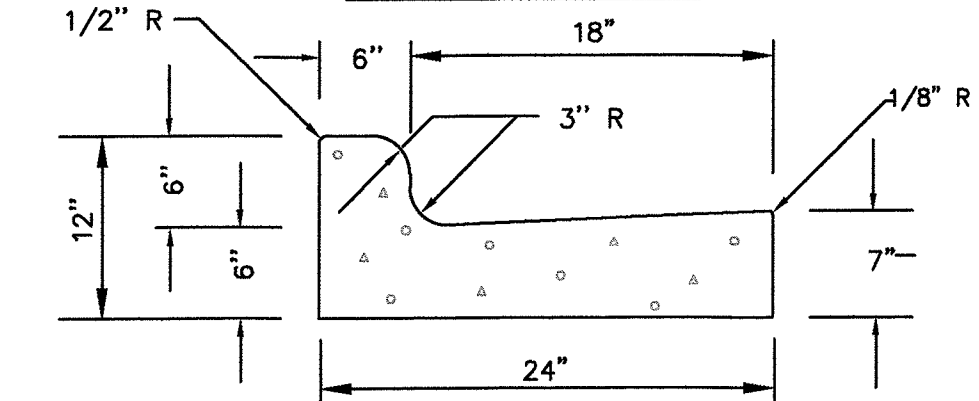
- NOTES:
1. WIRE SHALL BE A MINIMUM OF 32\"/>



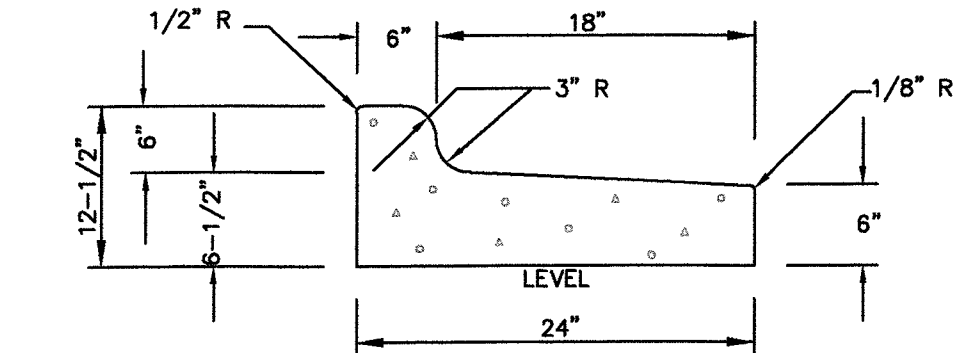
SILT FENCE  
N.T.S.



24\"/>



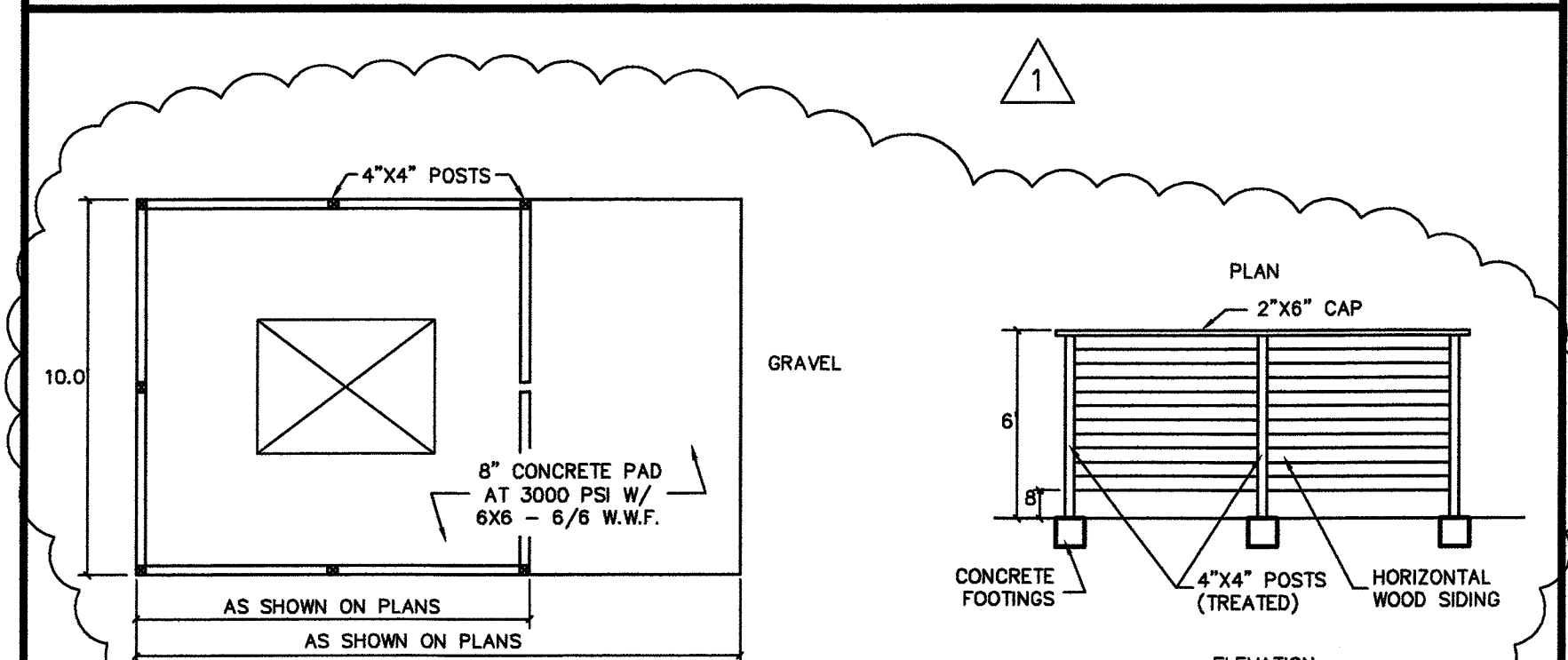
24\"/>



24\"/>

GENERAL NOTES:  
CONSTRUCTION JOINTS SHALL BE SPACED AT MAX. 10' INTERVALS, EXCEPT THAT A 15 FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10 FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2\"/>

CURB AND GUTTER  
NOT TO SCALE



DUMPSTER PAD & ENCLOSURE DETAIL  
N.T.S.

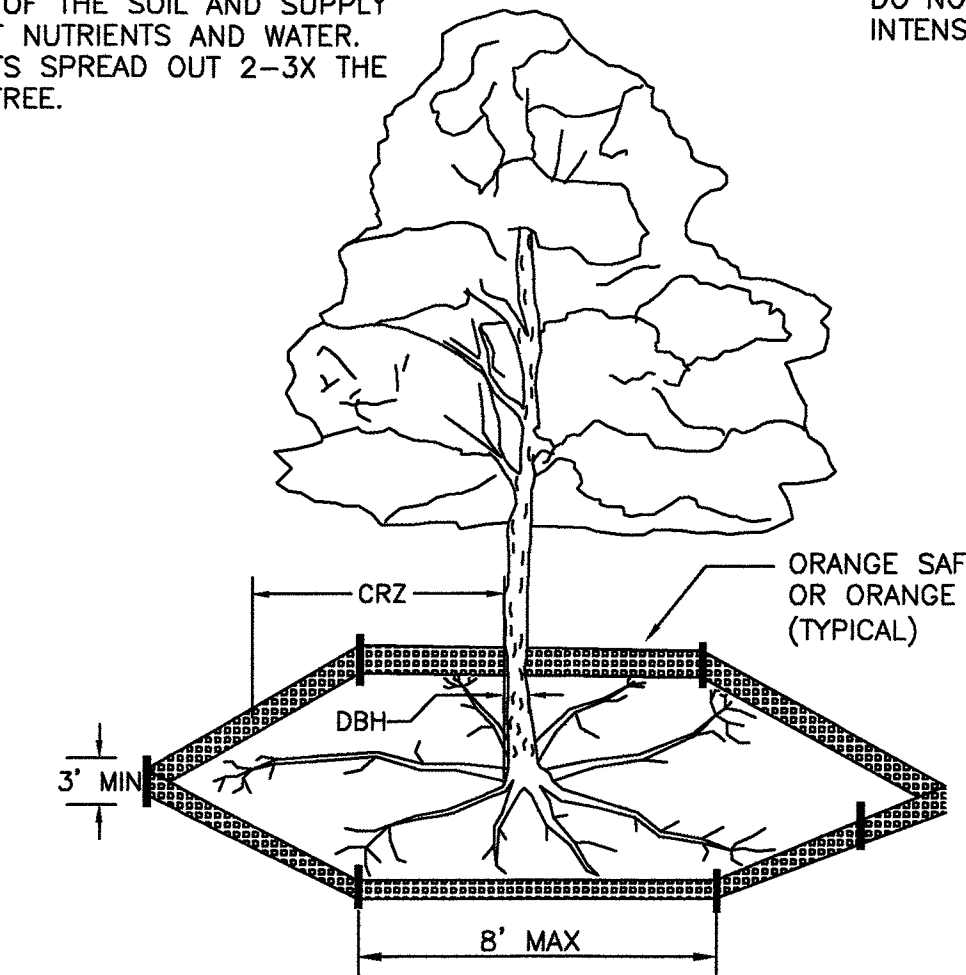
NOTE:  
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24\"/>

NOTE:  
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

CITY OF WILMINGTON  
NORTH CAROLINA  
Public Services Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

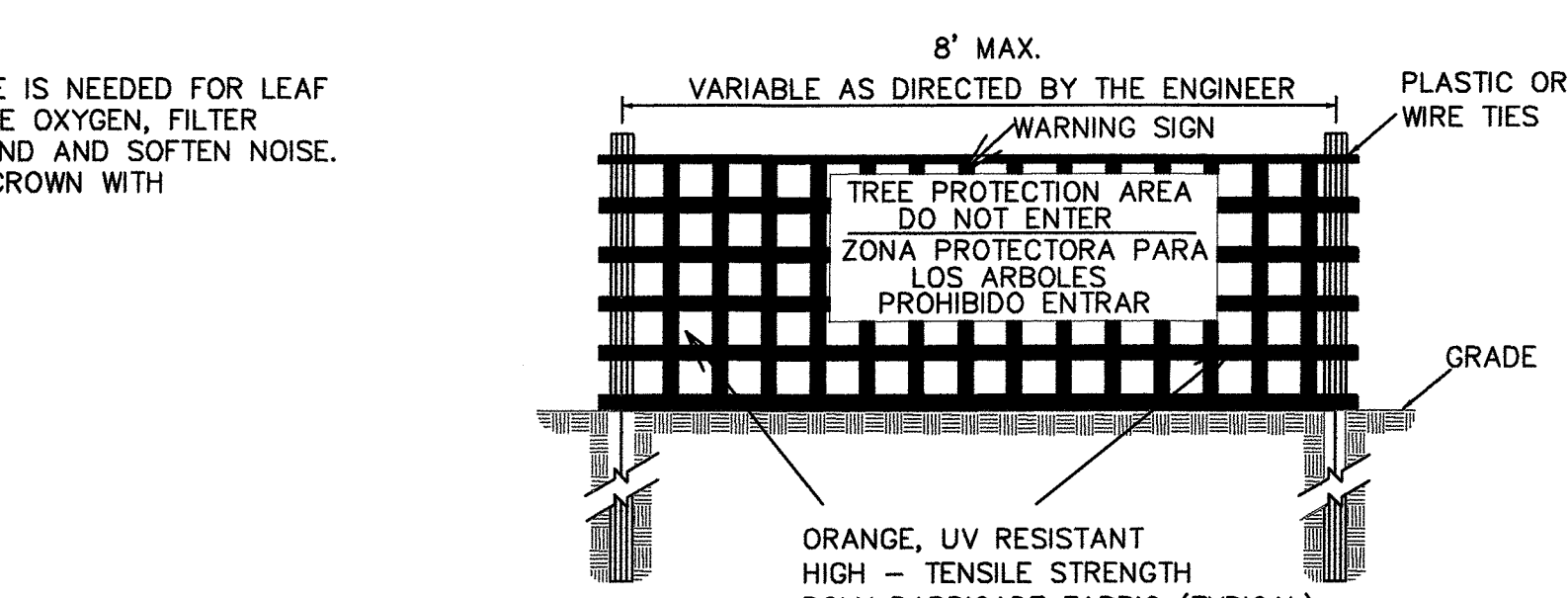
Approved Construction Plan  
Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

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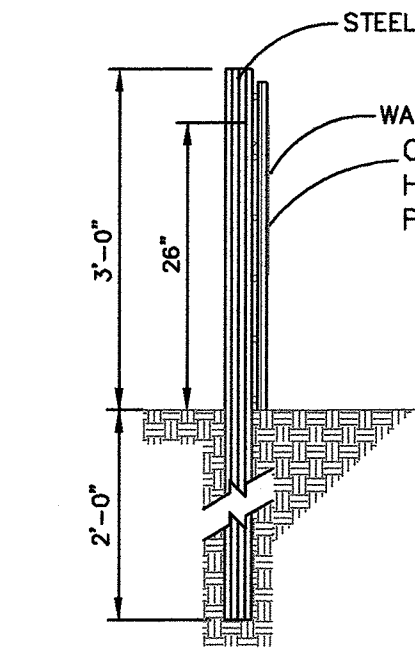


- NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
  2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
  3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12\"/>

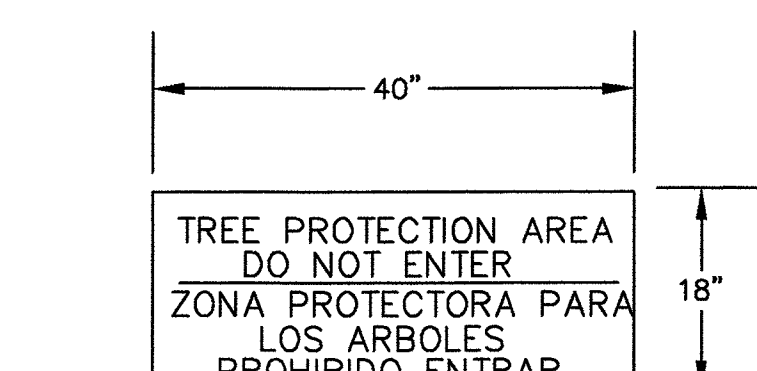
TREE PROTECTION DURING CONSTRUCTION  
N.T.S.



FRONT VIEW



SIDE VIEW



WARNING SIGN DETAIL

- 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\"/>

No.	Revision	Date	By
1	REVISED PER CITY COMMENTS	12/2/15	MNH

Designer	Scale
MNH	AS SHOWN
Drawn By	Date
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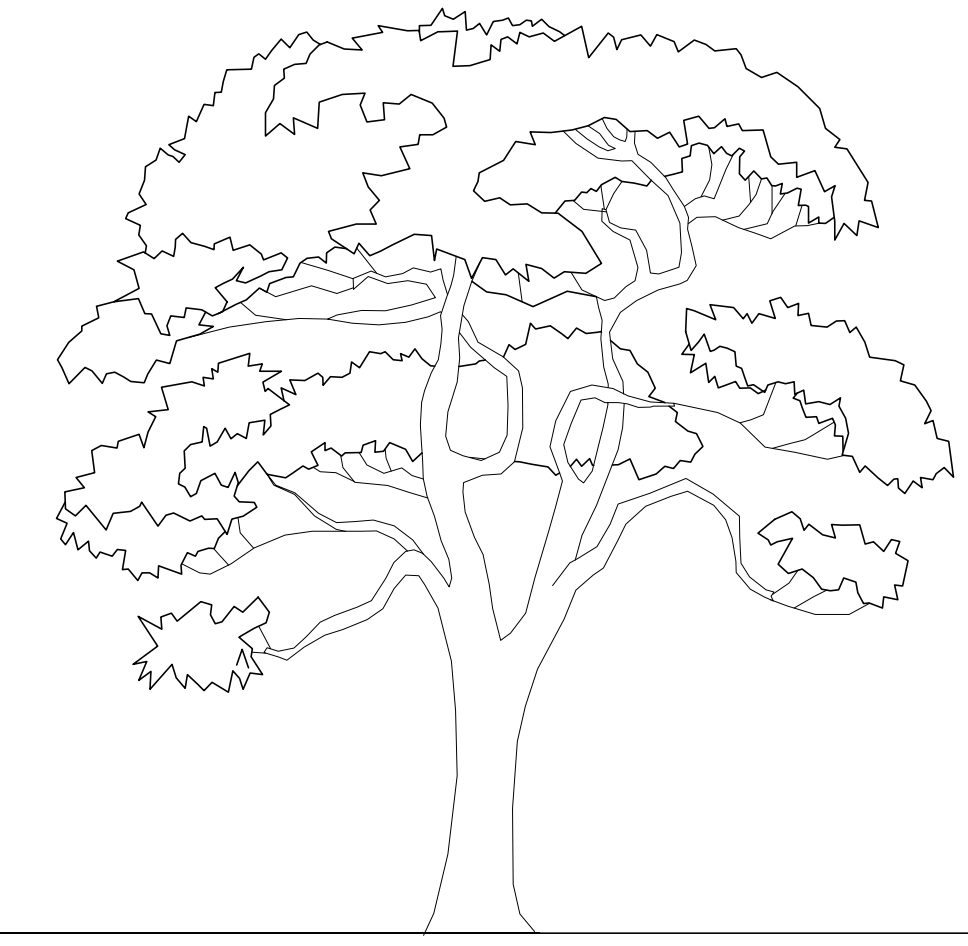
OCEAN BLUE POOLS & SPAS  
WILMINGTON  
NORTH CAROLINA

OCEAN BLUE POOLS & SPAS  
30 COVIL AVENUE  
WILMINGTON, NC 28405

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

MISCELLANEOUS DETAILS  
Sheet No. C-7

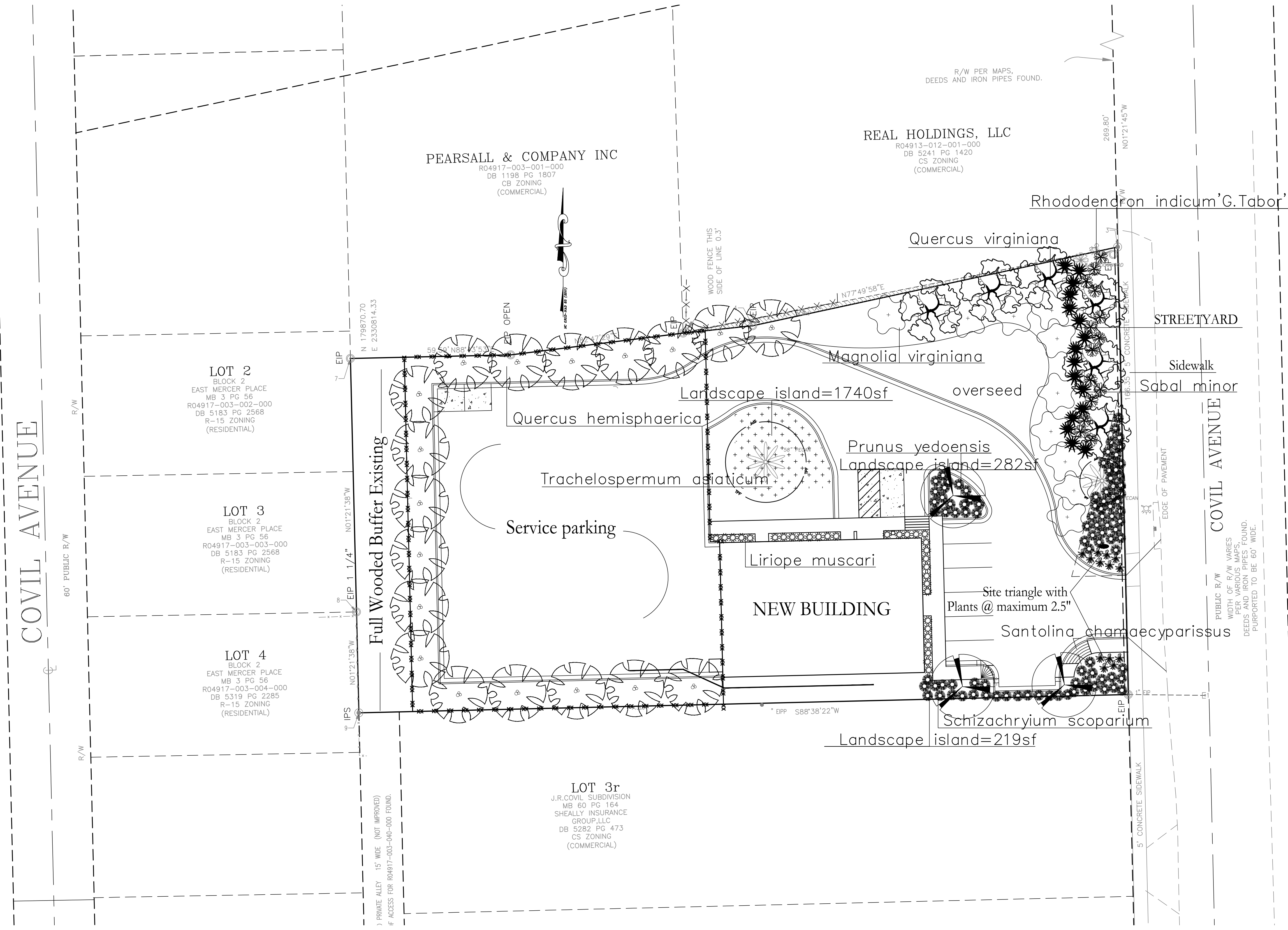
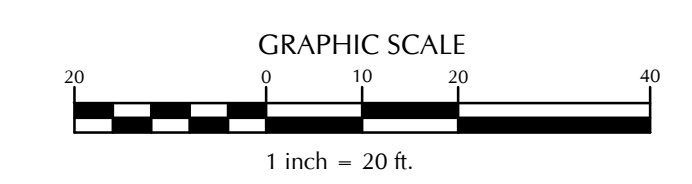




LAND - DESIGN SOUTH  
 DONNA CLEMMONS

LANDSCAPE ARCHITECT  
 ASLA ASSOCIATE  
 105 B CORAL DRIVE  
 WRIGHTSVILLE BEACH, N.C.  
 28480  
 910 550 8788

DATE : 11/19/2015  
 REVISED: 11/23/2015  
 DRAWN BY: DDC



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
Checked By	MNH	Job No.	

OCEAN BLUE POOLS & SPAS  
 WILMINGTON NORTH CAROLINA

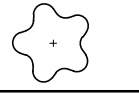
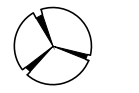
OCEAN BLUE POOLS & SPAS  
 30 COVIL AVENUE  
 WILMINGTON, NC 28405

LANDSCAPE PLAN

Sheet No.  
**C-8**

## Plant Table

### Broadleaf Deciduous

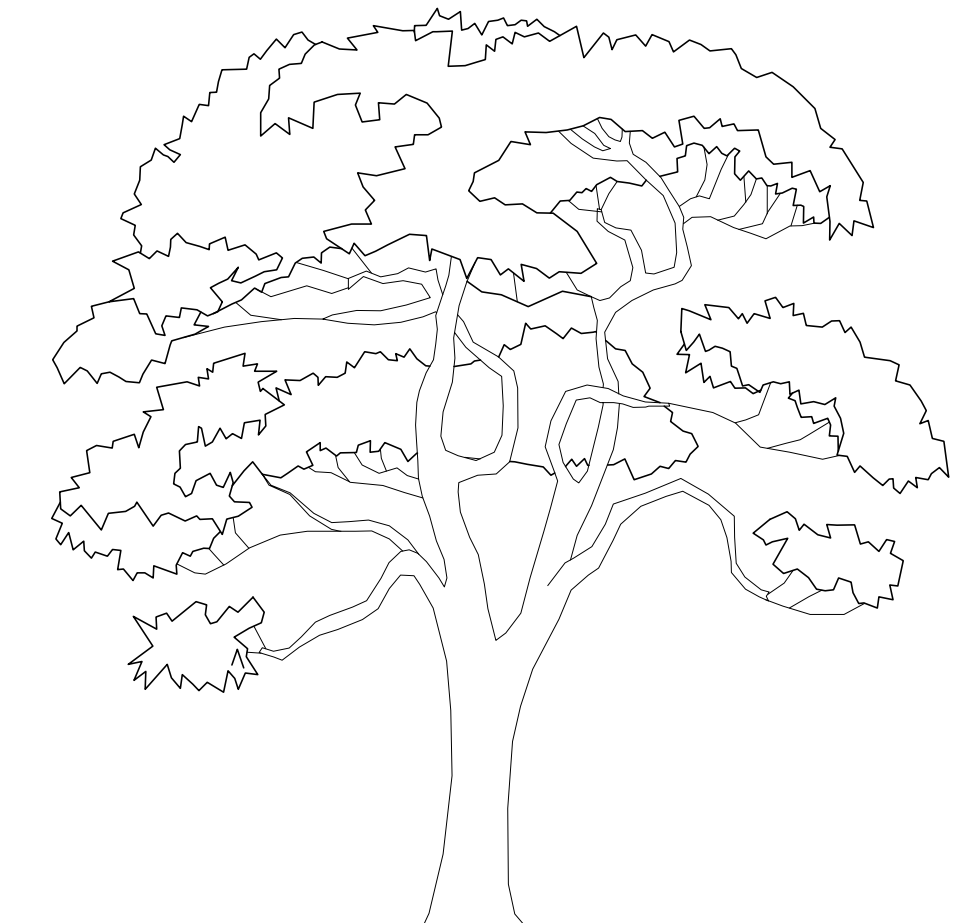
Quantity	Symbol	Scientific Name	Common Name	Planting Size
10		Magnolia virginiana	Sweet bay magnolia	2" cal
3		Prunus yedoensis	Yoshino Cherry	2' cal

### Broadleaf Evergreen

Quantity	Symbol	Scientific Name	Common Name	Planting Size
18		Quercus hemisphaerica	Laurel oak	2" cal
6		Quercus virginiana	Southern live oak	2" cal
14		Rhododendron indicum 'G. Tabor'	George Tabor azalea	3 gal
13		Santolina chamaecyparissus	Lavender cotton	3 gal

### Palms, Grasses, Groundcovers

Quantity	Symbol	Scientific Name	Common Name	Planting Size
16		Sabal minor	Dwarf palmetto	3 gal
100		Schizachryium scoparium	Little bluestem 'Prairie munchkin'	1 gal
32		Liriope muscari	Big blue lily turf	1 gal
70		Trachelospermum asiaticum	Asian jasmine	1 gal



LAND – DESIGN SOUTH  
DONNA CLEMMONS

LANDSCAPE ARCHITECT  
ASLA ASSOCIATE  
105 B CORAL DRIVE  
WRIGHTSVILLE BEACH, N.C.  
28480  
910 550 8788

DATE : 11/19/2015  
REVISED: 11/23/2015:  
DRAWN BY: DDC

#### LANDSCAPE NOTES:

LANDSCAPE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND COORDINATE WITH ALL OTHER TRADES ON SITE.

ALL PLANTS SHALL CONFORM TO OR EXCEED THE STANDARDS FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

LOCATE FOUR CORNERS OF THE PROPERTY LINES TO ENSURE PLANTS ARE NOT PLANTED IN EASEMENTS OR COMMON AREAS. EXISTING TREES SHALL BE PROTECTED DURING CONSTRUCTION. PLANTING SOIL SHALL BE LOOSE, FRIABLE AND FREE OF DEBRIS.

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.

#### SITE DATA:

S.F. OF BACK PARKING AREA = 10,743  
S.F. OF PARKING AREA FROM STREET TO FENCELINE = 6991  
S.F. OF TOTAL PARKING AREA = 17,734  
SHADE CALCULATION 20% OF PARKING AREA RE'QD = 3546.8  
18 LAUREL OAKS X 350 = 6300 PROVIDED  
1 PECAN EXISTING X 707 = 707 PROVIDED  
3 YOSHINO CHERRY X 707 = 2121 PROVIDED  
TOTAL SHADE PROVIDED = 9128

#### TREE MITIGATION

35" PECAN REMOVED AND MITIGATED  
75% MITIGATION CATEGORY RE'QD  
35" X 2 = 70 / 3 = 23.3 X 75 = 17.5 = 18 TREES RE'QD  
43" DISEASED PECAN REMOVED / NO MITIGATION RE'QD

#### STREETYARD RE'QD

400 LINEAR FT. - 24 = 376 X 25 = 9400 / 600 = 15.6 = 16 TREES RE'QD  
16 TREES PROVIDED  
9400 / 600 X 6 = 94 SHRUBS RE'QD  
103 SHRUBS PROVIDED

DUE TO ESSENTIAL SITE IMPROVEMENTS THE SIX TREES RE'QD IN THE STREETYARD WERE PLACED IN THE SIDEYARD.

No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	OCTOBER, 2015
Checked By	MNH	Job No.	

**OCEAN BLUE POOLS & SPAS**  
WILMINGTON NORTH CAROLINA

OCEAN BLUE POOLS & SPAS  
30 COVIL AVENUE  
WILMINGTON, NC 28405

LANDSCAPE PLAN

Sheet No.  
**C-9**