JURISDICTIONAL WETLAND LIMITS AS DETERMINED BY STEWART SURVEY ON 01-18-2017 BASED ON FLAGGING BY ECOLOGICAL ENGINEERING ON 12-16-2016 (8,600 SF)

TOP OF BANK FROM SURVEY BY FREEHOLD LAND SURVEYORS, INC. ON 09-12-2000

SHELD NO LONGER IN PLACE AT TIME OF PERMITTING
DEMOLECION LEGEND:
- REMOVE WATER LINE
- REMOVE SIZED MATERIAL FROM PIPE<br>
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- REMOVE SIZED MATERIAL FROM PIPE

DEMOLECION NOTES:
1. REFER TO SHEET C2.01 FOR GENERAL NOTES
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND MANUFACTURED MATERIALS FROM DAMAGE DURING DEMOLITION. CONTRACTOR SHALL OBTAIN EROSION CONTROL PERMIT FROM THE APPROPRIATE AUTHORITY PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" AND PROVIDE THE OWNER WITH THE LOCATION OF ALL UTILITIES TO BE SHUT OFF AND RELOCATED PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" AND PROVIDE THE OWNER WITH THE LOCATION OF ALL UTILITIES TO BE SHUT OFF AND RELOCATED PRIOR TO BEGINNING DEMOLITION OPERATIONS.
3. CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL AREAS AS REQUIRED. CONTRACTOR SHALL MAINTAIN A CONSTRUCTION PERIOD.
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DEMOVIATION PLAN ENLARGEMENT

DEMOVIATION LEGEND:
- REMOVE WATER LINE
- REMOVE SANITARY SEWER LINE
- REMOVE BUILDING
- REMOVE CONCRETE
- REMOVE STORM DRAINAGE
- REMOVE CURB & GUTTER
- REMOVE TREELINE
- REMOVE FENCE
- REMOVE LIGHT POLE
- TREE PROTECTION FENCE
- MEMORIAL PLANTER
- MEMORIAL ENTRANCE
- MEMORIAL SHADE
- MEMORIAL BENCHES

DEMOVIATION NOTES:
1. REFER TO SHEET C2.00 FOR GENERAL NOTES.
2. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL AREAS TO BE REMOVED.
3. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.
4. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY AND PROPERLY TO INCLUDE ALL MATERIALS, FURNISHINGS, UTILITIES, AND PAVEMENT THAT ARE NOT A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REMOVED.
5. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL AREAS TO BE REMOVED.
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10. THE CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL AREAS TO BE REMOVED.
11. REFER TO SHEET C3.00 FOR GENERAL NOTES.

SCALE: 1"=1'-0"

CONSTRUCTION DOCUMENTS

Date: 2/28/2017

Project number: C16146

Conractor: STEWART

Client: RALEIGH, NC 27601

PROJECT #: C16146

www.stewartinc.com

FIRM LICENSE #: C-1051

RESPONSE TO COMMENTS

Drawn by: P.D.

Approved by: JWP

Issued for: CJJ

Scale: 1"=1'-0"

DATE

CONSTRUCTION DOCUMENTS

Sheet: C2.02

DATE

DRAWN BY

APPROVED BY
**DEMOLITION LEGEND**

- **REMOVE TREE**: Remove trees for construction purposes.
- **REMOVE FENCE**: Remove existing fencing.
- **REMOVE STORM DRAINAGE**: Remove storm drainage lines.
- **REMOVE SANITARY SEWER LINE**: Remove sanitary sewer lines.
- **REMOVE BUILDING**: Remove existing buildings.
- **COORDINATE LIGHT POLE REMOVAL**: Coordinate the removal of light poles.
- **TREE PROTECTION FENCE**: Place protection fences around trees.

**DEMOLITION NOTES**

1. **REMOVE TREE CLEAR FOR GENERAL NOTES**: Remove trees as indicated for general notes.
2. **CABINETS ARE NOT TO SCALE LOCATED IN AREAS OF DEMOLITION OR CONSTRUCTION WILL BE REPLACED IN A PHYSICAL PRESENCE**: Ensure that cabinets are accurately located in areas designated for demolition or construction.
3. **ALL UTILITY SERVICE LOCATIONS THAT ARE REMOVED OR RELOCATED SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS**: Coordinate the removal or relocation of utility services according to the construction documents.
4. **CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS**: The contractor must verify all utilities before beginning demolition operations.
5. **CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES FOR DETAILED LOCATION WITH OWNER'S REPRESENTATIVE**: Contact local utilities for detailed location and coordinate with the owner's representative.
6. **THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE RAISED TO BE FLUSH WITH NEW GRADE**: Ensure that the existing sidewalk, curb, and gutter are raised to be flush with the new grade after demolition or construction.
7. **THE CONSTRUCTION PERIOD**: The construction period shall be the timeframe within which construction is scheduled to take place.
8. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO EXISTING FACILITIES TO REMAIN**: The contractor is responsible for repairing any damages to existing facilities.
9. **PROVISIONS SHALL BE MADE TO MAINTAIN THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS**: Ensure provisions are made to maintain the existing sidewalk and curb and gutter.
10. **THE CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL CONSTRUCTION OPERATIONS TO FACILITATE ACCESS THROUGHOUT THE CONSTRUCTION PERIOD**: The contractor must provide pedestrian access to all construction areas to facilitate access.
11. **THE CONTRACTOR AND PROVIDED TO THE OWNER. COORDINATE STORAGE DOCUMENTS**: The contractor must coordinate storage documents with the owner.
12. **ALL ITEMS DESIGNATED TO BE SALVAGED AND/OR RE-USED SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER**: All items designated for salvage or reuse must be removed by the contractor at no additional cost to the owner.
13. **ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS**: Ensure all items marked for removal are disposed of legally in accordance with the construction documents.
14. **ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER**: Coordinate utility services with the appropriate utility provider.
15. **THE CONTRACTOR SHALL EXECUTE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE, AND 1 FOOT BELOW. CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS**: Ensure compaction of backfilled soils is performed according to the construction documents.
16. **THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE RAISED TO BE FLUSH WITH NEW GRADE**: Ensure the existing sidewalk, curb, and gutter are raised to be flush with the new grade.
17. **THE CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL CONSTRUCTION OPERATIONS TO FACILITATE ACCESS THROUGHOUT THE CONSTRUCTION PERIOD**: Ensure pedestrian access is provided to all construction areas.

**SCALE**: 1" = 20'
1. All utility locations shall be located in accordance with the office of state construction, department of buildings, housing, and all other applicable local, state and federal guidelines. all utility locations shall be located in accordance with the site plan prepared by the contractor. the contractor shall be responsible for all utility locations and all other applicable local, state and federal guidelines. the contractor shall be responsible for all utility locations and all other applicable local, state and federal guidelines. the contractor shall be responsible for all utility locations and all other applicable local, state and federal guidelines.

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PUMP TRACK NOTES:

1. PUMP TRACK SOILS SHALL BE A MINIMUM OF 6" THICK EXCEPT WHERE THERE ARE TRACK ELEMENTS SUCH AS BERM AND ROLLERS.

2. PUMP TRACK WILL BE CONSTRUCTED ENTIRELY OF SOIL WITH A MIX OF 75% CLAY/ 25% SAND.

3. INSTALL DRAINAGE PER THE GRADING PLAN C5.12.

SITE LEGEND:
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY CONCRETE SIDEWALK
- PROPOSED HEAVY DUTY PAVEMENT
- PROPOSED STOP BAR
- PROPOSED DRAINAGE Ditch
- PROPOSED DRAINAGE Ditch (TYP)
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED TRASH CONTAINER
- PROPOSED BENCH
- PROPOSED SEATWALL
- PROPOSED WHEEL STOP
- PROPOSED DECOMPOSED GRANITE TRAIL
- PROPOSED COMPACTED DIRT TRACK
- PROPOSED TREELINE
- PROPOSED FENCE
- PROPOSED BIKE RACK
- PROPOSED BENCH
- PROPOSED BOLLARD

COMPACTED DIRT MIX CLAY: 20% SAND: 80%
**SITE LEGEND**

- Proposed building
- Proposed concrete sidewalk
- Proposed heavy duty concrete sidewalk
- Proposed heavy duty pavement
- Proposed storm sewer
- Proposed drain
- Proposed ADA parking space
- Proposed大树
- Proposed wheel stop
- Proposed decomposed granite trail
- Proposed tire
- Proposed fire hydrant
- Proposed bollard
- Proposed fills

**SITE NOTES**

1. PLAYGROUND EQUIPMENT TO BE INSTALLED MANUFACTURER SPECIFIC

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**DR. MARTIN LUTHER KING, JR. PARK**

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**CONSTRUCTION DOCUMENTS**

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**PLAYGROUND ENLARGEMENT**

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**SEQUENCE OF CONSTRUCTION ACTIVITIES**

1. **START AND END DATES:**
   - **Orange County (Orange County):**
     - **Start Date:** 01/01/2017
     - **End Date:** 12/31/2017

2. **TEMPORARY SEED BED PREPARATION:**
   - **Date:** 01/01/2017
   - **Duration:** 7 days
   - **Method:** Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared.

3. **PERMANENT SEED BED PREPARATION:**
   - **Date:** 01/02/2017
   - **Duration:** 14 days
   - **Method:** Rip the entire area to six inches deep.

4. **SEEDING:**
   - **Date:** 01/03/2017
   - **Duration:** 7 days
   - **Method:** Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or Cultipack after seeding.

5. **RESEEDING:**
   - **Date:** 01/04/2017
   - **Duration:** 7 days
   - **Method:** Re-seed with the original species.

6. **STABILIZATION:**
   - **Date:** 01/05/2017
   - **Duration:** 7 days
   - **Method:** Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared.

**SOURCE SEGMENTATION BASED-SIZE**

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Site 1</th>
<th>Site 2</th>
<th>Site 3</th>
<th>Site 4</th>
<th>Site 5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (sq ft)</td>
<td>12000</td>
<td>9000</td>
<td>6000</td>
<td>4000</td>
<td>3000</td>
<td>40000</td>
</tr>
</tbody>
</table>

**DIMENSION BITA SIZE**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Site 1</th>
<th>Site 2</th>
<th>Site 3</th>
<th>Site 4</th>
<th>Site 5</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (ft)</td>
<td>200</td>
<td>150</td>
<td>100</td>
<td>80</td>
<td>60</td>
<td>580</td>
</tr>
<tr>
<td>Depth (ft)</td>
<td>100</td>
<td>75</td>
<td>50</td>
<td>40</td>
<td>30</td>
<td>280</td>
</tr>
</tbody>
</table>

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**TREE PROTECTION NOTES:**

1. **Tree Protection:** Trees must be protected from exposure to wind, sun, and other elements. To ensure proper growth and development of the tree canopy, the following steps should be taken:
   - **Location:** All trees within the project area should be marked and protected.
   - **Fencing:** Temporary fencing should be installed around each tree to prevent damage from machinery or vehicles.
   - **Mulching:** Mulch should be applied around the base of the tree to retain moisture and prevent weeds.

2. **Staking:** Staking should also be considered to provide support and protection from wind and other environmental factors.

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**EROSION CONTROL NOTES:**

1. **GENERAL:** Erosion control measures shall be implemented to prevent soil erosion and sedimentation.
   - **Method:** Use temporary silt fences, sediment basins, and other erosion control measures to manage soil disturbance.

2. **MULCHING:** Mulching shall be applied to prevent soil erosion and sedimentation.
   - **Method:** Apply at least three inches of mulch to all disturbed areas.

3. **SUPERPHOSPHATE:** Apply at least five pounds per thousand square feet to all disturbed areas.

4. **AGRICULTURAL LIMESTONE:** Apply at least two tons per acre to all disturbed areas.

5. **ASPHALT EMULSION:** Apply at least 300 gallons per acre to all disturbed areas.

6. **TALL FESCUE:** Seed at least 30 pounds per acre to all disturbed areas.

7. **BROWNTOP MILLET:** Seed at least 30 pounds per acre to all disturbed areas.

8. **ABRUZZI RYE:** Seed at least 25 pounds per acre to all disturbed areas.

9. **TRESPASSING/TREE PROTECTION AREA:** Tree protection area: equals one foot of radius for every inch of diameter of existing trees, or six foot radius if one or more trees are present.

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**SITE SCHEDULE:**

- **Schedule:** All activities must be completed within the specified timeframes to prevent soil erosion and sedimentation.

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**CONSTRUCTION DOCUMENTS:**

- **Documents:** All construction documents must be approved by the project manager prior to commencement of any construction work.

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**SCALE:** 1:100

**NOTES:** NCDEQ to review.
NORMAL POOL

ELEV: 479.50

15" RCP 'O-RING GASKET' @ 0.80%

INV=478.50

RISER CREST

ELEV: 480.92

SEE JOINT ASSEMBLY

MANHOLE STEPS @ 16" VERTICAL CENTERS

DEEP POOL

ELEV: 477.00

CONCRETE TO BE ADDED TO RISER BASE FOR ANTI-FLOTATION

5' DIAMETER X 10" THICK.

FILL BOTTOM 10" W/ CONCRETE.

BOTTOM 477.66

3:1 SLOPE

PRECAST RISER

4" PVC TEE

4" CAP WITH 0.75" HOLE DRILLED IN CENTER

4" SCREW TYPE PLUG W/ 0.75" HOLE DRILLED

TOP ELEV. 480.5

4" PVC INVERTED SIPHON INV. 479.50

6"Ø ORIFICE AT 480.25 AND 3'-WIDE RECTANGULAR WEIR AT ELEV. 480.40

63 LF 15" RCP @ 0.80%

10+00

54 LF 4" PVC @ 1.84%

56 LF 4" PVC @ 2.68%

81 LF 4" PVC @ 2.47%

84 LF 4" PVC @ 2.37%

66 LF 4" PVC @ 1.80%

CROSS SECTION 'A-A'

SCALE:

NORTH
TP
15" RCP
30" RCP
EIP
15" RCP
30" RCP
TP
6" HDPE DRAINAGE PIPE (TYP)
PROPOSED CONTOURS REFLECT A 0.5' ADDITION OF FILL ADDED TO MINIMIZE POOR DRAINAGE DUE TO HIGH SHWT. SEE ROLLER SPOT ELEVATIONS AND CROSS SECTIONS THIS SHEET FOR DETAILED PUMP TRACK GRADING.

PROPERTY LINE
DARK ENERGY UTILITY EASEMENT
PROPOSED CONTOURS SHOULD NOT BE ASSUMED TO DEPICT THE RIGHTS OF WAY OF EXISTING UTILITIES. REVISIONS TO PROPOSED UTILITIES ARE THE RESPONSIBILITY OF THE APPLICABLE UTILITY.
EXISTING UTILITY EASEMENT OR LATENT EASEMENT
EXISTING UTILITY EASEMENT (MINIMUM WIDTH: 10.00')
EXISTING UTILITY EASEMENT (MINIMUM WIDTH: 1.00')
EXISTING UTILITY EASEMENT (MINIMUM WIDTH: 0.50')
EXISTING UTILITY EASEMENT (MINIMUM WIDTH: 0.25')
EXISTING UTILITY EASEMENT (MINIMUM WIDTH: 0.25')

MATCH EXISTING GRADE AT EDGE OF SIDEWALK

10.00' EMBANKMENT RADIUS

10.00'

5.00'

5.00'

10.00'

10.00'

PUMP TRACK: BERM EMBANKMENT CROSS-SECTION

PUMP TRACK: ROLLERS CROSS-SECTION A-A

SCALE: 1"=20'

SCALE: 1"=20'
PUMP TRACK LEVEL SPREADER AND VFS

SCALE: 1"=10'

VEGETATED FILTER STRIP NOTES:
1. Extents of filter strip shall be covered with six inches of loose top soil amended with 1.5 cubic yards of peat moss or compost per 1,000 SF of filter strip surface area.
2. A one-time fertilizer application shall be applied to the filter strip as follows:
   - Apply 75 lbs of ground limestone per 1,000 SF of filter strip surface area.
   - Apply 20 lbs of 10-20-20 fertilizer per 1,000 SF of filter strip surface area.
3. Extents of filter strip shall be sodded with tall fescue grown in a sandy soil (non-clay) to promote infiltration.
4. Water sod frequently in the first three weeks after installation to maintain moisture in the first 1.5 inches of soil.

LEVEL SPREADER DETAIL

NOTES:
1. Use 30" RCP and round lip at trough +0.5'.
2. Match existing grade or construct lip at +0.5' higher than trough.
3. Construct level spreader on undisturbed soils. Receiving area below level spreader shall be at existing grade and undisturbed by earthwork or equipment.
4. Area uphill of level spreader shall be seeded and stabilized immediately following level spreader construction.

LEVEL SPREADER AND VFS DETAILS
PUMP TRACK STORMWATER MEDIA

SCALE: 1" = 20'

- LIMITS OF DISTURBANCE
- PROPOSED STORM DRAINAGE
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED AREA DRAIN
- RIMP ELEV = 482.60
- 30" RCP
- 15" RCP
- 6" THK. 30% MEDIA
- 4" INCHES BORE
- 4" COMBINATION TYP.
- UNDERDRAIN TYP. SECTION

STORMWATER MEDIA - TYPICAL CROSS SECTION
- N.T.S.
- HARDWOOD MULCH
- UNDISTURBED SOIL
- STONE
- PLACE SOIL IN 12-18 INCH LIFTS WITHOUT COMPACTION. OVERFILL TO ABOUT 2-INCHES OF THE SETTLEMENT.
- STORMWATER MEDIA TYPICAL SECTION
- BOTTOM ELEV (VARIES)

PUMP TRACK STORMWATER MEDIA

SCALE: 1" = 20'

- LIMITS OF DISTURBANCE
- PROPOSED STORM DRAINAGE
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
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SCALE: 1" = 20'

- LIMITS OF DISTURBANCE
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- STORMWATER MEDIA TYPICAL SECTION
- BOTTOM ELEV (VARIES)
UTILITY NOTES:
1. SEE MEP FOR DOUBLE CHECK VALVE
2. FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE POINT.
3. REFER TO SHEET C3.00 FOR GENERAL NOTES.

THE CONTRACTOR SHALL NOT RE-USE ANY FIRE HYDRANT REMOVED AS PART OF THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH:

- BACK OF CURB
- INSET 1
- 25 LF 4" PVC @ 1.41%
- 10'x20' JACK AND BORE PIT
- PROPOSED 1" COPPER
- PROPOSED POST INDICATOR VALVE (PIV)
- PROPOSED OWASA HYDRANT
- PROPOSED 8" DIP FIRELINE
- PROPOSED FIRE HYDRANT
- EXISTING SANITARY SEWER LINE
- 4" X 6" REDUCER
- 56 LF 4" PVC @ 2.68%
- 200 PSI FOR FIRE PROTECTION.
- TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT AND 200 PSI FOR FIRE PROTECTION.
- IF CONTAMINATION IS INDICATED, THEN THE LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED ON THE PLANS.
-Leaks that exceed the maximum allowable leakage shall be repaired within 24 hours.
- Two samples for bacteria sampling shall be collected at
- If contamination is indicated, then the leakage shall not exceed the maximum allowable leakage specified on the plans.
- Leaks that exceed the maximum allowable leakage shall be repaired within 24 hours.

SEWER NOTES:
1. SANITARY SEWER LINES LOCATED IN PLUMBING AREAS SHALL BE HEAVY DUTY TRAFFIC Bearing Castings.
2. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.

All Manhole covers shall be painted to local jurisdictional requirements.

Utility Plan
PROPOSED 1" COPPER WATERLINE TO SERVICE PICNIC SHELER

EXISTING GRADE
PROPOSED GRADE
45º HORIZONTAL BEND

PROFILE VIEW - PROPOSED 1" COPPER IRRIGATION LINE
STA 00+00 - 00+32.40
SCALE: H: 1"=20', V: 1"=2'

EXISTING GRADE
PROPOSED GRADE
RELOCATED 5/8" WATER METER

RELOCATED EXISTING RP BACKFLOW PREVENTER FOR IRRIGATION ONLY
PROPOSED 3" COPPER IRRIGATION LINE TO SADDLE TAP ONTO EXISTING.

SCALE: 1"=20'
NORTH

PROPOSED 1" COPPER WATERLINE TO METER
2" COPPER LINE TO METER
RELOCATED EXISTING 2" COPPER WATERLINE TO METER HOUSED IN 2" METER VAULT.
SEE DETAIL 4/C9.31

UTILITY PLAN AND PROFILE

CONSTRUCTION DOCUMENTS

No. Date Description
1 07.20.2017 RESPONSE TO COMMENTS
2 10.20.2017 RESPONSE TO COMMENTS
3 11.16.2017 RESPONSE TO COMMENTS
4 11.29.2017 RESPONSE TO COMMENTS
5 12.04.2017 RESPONSE TO COMMENTS
NOTE: PEDESTRIAN AREAS ONLY

4" 4,000 PSI AIR-ENTRAINED CONCRETE SLAB REINFORCED AS REQUIRED

EXPANSION JOINT (TYP.)

NOTE: ALL SURFACES TO RECEIVE MEDIUM BROOM FINISH PERPENDICULAR TO DIRECTION OF WALK.

PROVIDE TOOLED CONTROL JOINTS NOT MORE THAN 10'-0" ON CENTER OR AS INDICATED ON THE PLANS.

TOOLED CONTROL JOINT

1/4" TYP.

ENGINEERED WOOD FIBER SURFACING

4" WASHED #57 STONE BASE

CONCRETE FLUSH CURB WITH BROOM FINISH.

NOTE: PLAYGROUND CONTRACTOR TO SUBMIT PRODUCT SAMPLES AND DEPTH ANALYSIS FOR APPROVAL. ALL PLAY SURFACES TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
1. HOPPING LOGS
   1.00'
   1.50'
   3.00'
   Tree stumps placed in a row for hopping

2. SEESEW
   1.50'
   Sand top of stump to level and reduce jagged edges

3. WATER TABLE
   Tree stump turned on side for climbing

4. Embankment Slide

5. WILLOW TUNNEL
   Recycled tire used as seat bumper
   Nylon strap used as handle, both sides
   Reclaimed tree trunk used as seesaw beam
   Seat area filed and sanded flat, both sides

6. BALANCING & CLIMBING LOG
   Recycling and stabilization posts.
   24" max height, typical

7. KOMPAN SINGLE BAY BASKET SWING
   Reclaimed lumber balance beam, typical

8. BALANCE BEAM
   Embankment slide w/ sit down bar

9. KOMPAN CLIMBING NET
   Embankment slide structure made of bent willow stakes; bore holes using a pointed metal bar; plant stakes into ground and build into shape.
   Top can be tied with rope or willow stakes can be bent and woven together.
1. CROSSWALK

2. FIRE LANE SIGN

3. SOLAR LIGHT BOLLARDS

4. FIRE LANE SIGN-MOUNTING

5. CLIMBING BOULDER

6. COLLAPSIBLE BOLLARD

7. BOLLARD FOOTING

8. ACCESSIBLE RAMP

9. ACCESSIBLE RAMP
1. Water Meter
2. Tapping Sleeve and Valve
3. Waterline Bend
4. Blocking
5. Fire Hydrant
6. Fire Hydrant Paint
7. Sanitary Sewer Bedding
8. Cleanout
9. Valve Box Installation and Extension

Utility Details

Project Number: C16146
Document: ENGR.dwg
Date: Jan 12, 2018
Revision: 8:14am

Town of Carrboro
301 W. Main Street
Carrboro, NC  27510
T: (919) 918-7371
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Site
421 Fayetteville St., Suite 400
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919.380.8750

Utility
1. NTS Tapping Sleeve and Valve
2. NTS Waterline Bend
3. NTS Water Meter
4. NTS Blocking
5. NTS Fire Hydrant
6. NTS Fire Hydrant Paint
7. NTS Sanitary Sewer Bedding
8. NTS Cleanout
9. NTS Valve Box Installation and Extension
1. **PLANTING NOTES:**

   1. Damage to newly planted vegetation by mowers or other equipment is strictly prohibited. Stakes are required for trees planted without stake jackets.
   2. Where roots may penetrate utilities, tree roots shall be pruned to avoid contact with utility lines, poles, and other underground utilities. Contact the utility companies for utility locations.
   3. For shrubs and groundcovers, the sides of the planting hole shall be excavated and loose soil shall be removed to the depth of the root ball.
   4. For trees whose root systems will be in contact with utilities: the root systems shall not extend within 6' of the utility/structure.
   5. Undersides of trees: these trees shall be pruned to accommodate ventilation. These trees shall be pruned to allow access to the undersides of the tree for inspection.
   6. The following information is essential for establishing and maintaining trees:
   7. Do not plant trees where roots of tree at the number and locate to the northwest fields.

   **WETLAND PLANTING (LIVE STAKING)**

   **PLANTING DETAILS**

   **CROWN OBSERVATIONS - HIGH BRANCHED**

   **SHRUB AND GROUNDCOVER SPACING**

   **SHRUB (TYPICAL)**

   **GROUND COVER PLANTING (TYPICAL)**

   **PLANTING NOTES**

   **WETLAND PLANTING (LIVE STAKING)**

   **TREE (TYPICAL)**

   **SHRUB (TYPICAL)**

   **GROUND COVER PLANTING (TYPICAL)**

   **PLANTING NOTES**

   **CONSTRUCTION DOCUMENTS**

   **RESPONSE TO COMMENTS**

   **DATE:**

   **PROJECT #:** C16146

   **FIRM LICENSE #:** C-1051

   **WEB SITE:**

   www.stewartinc.com

   **Vicinity map:**

   **Sheet:**

   **Issued for:**

   **Date:**

   **Approved by:**

   **Date:**

   **Client:**

   **Date:**

   **Date:**
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