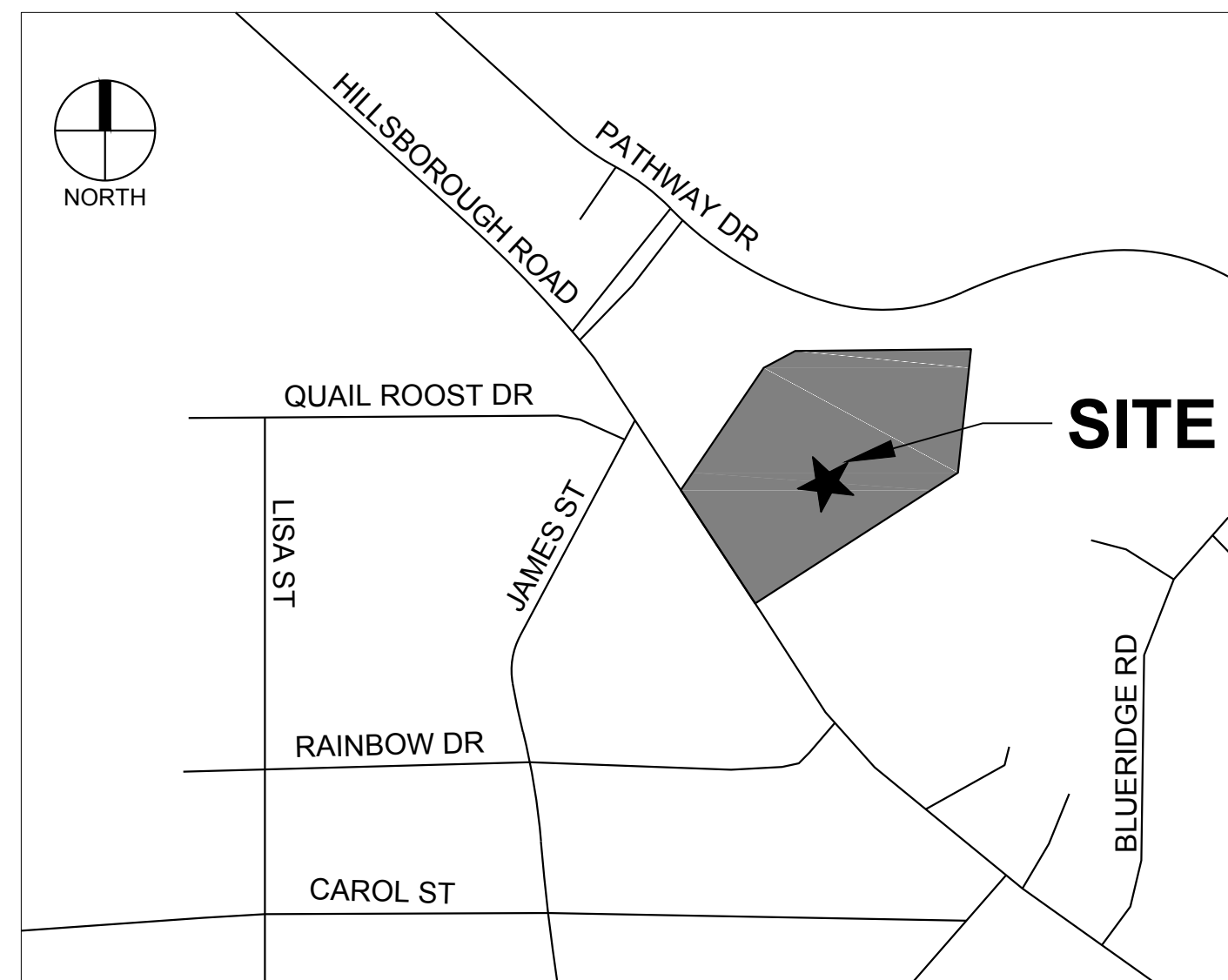


DR. MARTIN LUTHER KING JR. PARK

1120 HILLSBOROUGH RD
CARRBORO, NC 27516

TOWN OF CARRBORO
LAND USE PERMIT

SUBMITTED ON MAY 01, 2017
RESUBMITTED ON JULY 20, 2017
RESUBMITTED ON OCTOBER 20, 2017



VICINITY MAP
SCALE: 1" = 500'

SUMMARY INFORMATION	
PROJECT NAME:	DR. MARTIN LUTHER KING, JR. PARK
SITE ADDRESS:	1120 AND 1128 HILLSBOROUGH ROAD
COUNTY:	ORANGE
PARCEL PIN #:	9779-31-1977, 9779-32-1208
PARCEL OWNER:	TOWN OF CARRBORO
PARCEL AREA:	13.67 Ac
TOTAL DISTURBED/ PROJECT AREA:	6.50 Ac
CURRENT ZONING:	R-15
EXISTING LAND USE:	PARK
PROPOSED USE:	PARK
RIVER BASIN:	CAPE FEAR ; JORDAN LAKE (UNPROTECTED)
CONSTRUCTION TYPE:	PARK
MAX BUILDING HEIGHT:	35'-0"
PROPOSED BUILDING HEIGHT:	13'-0"
EXISTING IMPERVIOUS AREA:	10,197 S.F.
PROPOSED IMPERVIOUS AREA:	56,049 S.F.
OVERALL PARKING SUMMARY (SEE NOTE 1)	
VEHICULAR PARKING REQUIRED	27
1 SPACE/200sf ENCLOSED BUILDING AREA (693sf)	4 SPACES
1 SPACE/3 PEOPLE USING OUTDOOR AMENITIES	23 SPACES (69 PEOPLE ESTIMATE)
HANDICAP ACCESSIBLE SPACES	2
TOTAL PARKING PROVIDED	27 SPACES
BICYCLE PARKING	
BICYCLE PARKING REQUIRED	7
BICYCLE PARKING PROVIDED	8
VAA SHADING REQUIREMENTS	
TOTAL VEHICLE ACCOMMODATION AREA (SF)	13,500
AREAS TO BE SHADED (SF)	4,725
AREA SHADED BY EXISTING TREES TO BE RETAINED AROUND VEHICLE ACCOMMODATION AREA (SF)	960
REMAINING AREA TO SHADE (SF)	3,765
TREES REQUIRED	5.33
TREES PROVIDED	6
TREE CANOPY SUMMARY	
TOTAL PARCEL AREA	13.67 AC
PRE DEVELOPMENT CANOPY COVERAGE	38% (4.87 AC)
POST DEVELOPMENT CANOPY COVERAGE	34% (4.37 AC)

SHEET INDEX	
SHEET #	SHEET NAME
C0.00	COVER
C1.00	EXISTING CONDITIONS
C2.01	EXISTING CONDITIONS ENLARGEMENT
C1.02	EXISTING CONDITIONS ENLARGEMENT
C1.03	EXISTING CONDITIONS ENLARGEMENT
C2.00	DEMOLITION PLAN
C2.01	DEMOLITION PLAN ENLARGEMENT
C2.02	DEMOLITION PLAN ENLARGEMENT
C2.03	DEMOLITION PLAN ENLARGEMENT
C3.00	SITE PLAN
C3.01	SITE PLAN ENLARGEMENT
C3.02	SITE PLAN ENLARGEMENT
C3.03	SITE PLAN ENLARGEMENT
C3.04	PLAYGROUND ENLARGEMENT
C4.00	EROSION CONTROL NOTES
C4.01	EROSION CONTROL PHASE 1
C4.02	EROSION CONTROL PHASE 2
C4.03	EROSION CONTROL NPDES PHASE I
C4.04	EROSION CONTROL NPDES PHASE II
C5.00	GRADING PLAN
C5.01	GRADING PLAN ENLARGEMENT
C5.02	GRADING PLAN ENLARGEMENT
C5.03	GRADING PLAN ENLARGEMENT
C5.10	SCM PLAN
C5.11	SCM DETAILS
C5.12	PUMP TRACK PLAN
C5.13	LEVEL SPREADER AND VFS DETAIL
C5.14	PUMP TRACK STORMWATER MEDIA DETAILS
C6.00	UTILITY PLAN
C6.10	UTILITY PLAN AND PROFILE
C6.11	UTILITY PLAN AND PROFILE
C6.11	UTILITY PLAN AND PROFILE
C9.00	SITE DETAILS
C9.01	SITE DETAILS
C9.02	SITE DETAILS
C9.03	SITE DETAILS
C9.04	SITE DETAILS
C9.10	EROSION CONTROL DETAILS
C9.11	EROSION CONTROL DETAILS
C9.30	UTILITY DETAILS
C9.31	UTILITY DETAILS
L1.00	LANDSCAPE PLAN
L1.01	WETLAND PLANTING PLAN
L2.00	PLANTING DETAILS
A-101	FLOOR PLANS AND PLAN DETAILS
A-102	FLOOR PLANS AND DOOR SCHEDULE
A-201	ELEVATIONS
A-202	ELEVATIONS
A-203	ELEVATIONS
A-204A	EXTERIOR PERSPECTIVES

NOTES

1. The parking calculations are based upon building use and estimation of facility use.

- 693 sf of enclosed building area = 4 spaces required.
- Estimate the following in the outdoor areas:
 - 20 people in the amphitheater (based upon seat wall area);
 - 15 at the pump tracks; 10 in the playground;
 - 8 at the garden;
 - another 16 scattered throughout the park = 69 people or 23 spaces.

- This gives us a total of 27 required parking spaces. Our observations and conversations with the community have indicated that many people will walk or bicycle to the park, which will reduce the parking load and the nearby McDougle Middle School can be used for any overflow parking as needed.

UTILITIES IMPROVEMENTS QTY

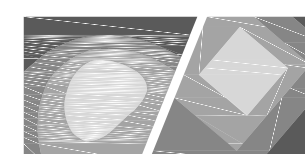
PRIVATE SEWER	
4" SEWER SERVICE	455 LF
PRIVATE WATER	
3/4" WATER LINE	33 LF
1" WATER LINE	47 LF
1.5" WATER LINE	368 LF
2" WATER LINE	40 LF
6" FIRE LINE	3 LF
8" FIRE LINE	49 LF

APPLICANT/OWNER



TOWN OF CARRBORO
PARKS AND RECREATION
301 WEST MAIN STREET
CARRBORO, NC 27510
CONTACT: WENDELL RODGERS
919.918.7371 (T)
WRODGERS@TOWNOFCARRBORO.ORG

CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8752

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

STEWART INC. - CIVIL ENGINEERING
CONTACT: JOSEPH PUCKETT, PE
CIVIL ENGINEER
919.866.4829 (T)
919.380.8752 (F)
JPUCKETT@STEWARTINC.COM

STEWART INC. - LANDSCAPE ARCHITECTURE
CONTACT: JENNIFER WAGNER, PLA
PROJECT MANAGER
919.866.4739 (T)
919.380.8752 (F)
JWAGNER@STEWARTINC.COM

ARCHITECT

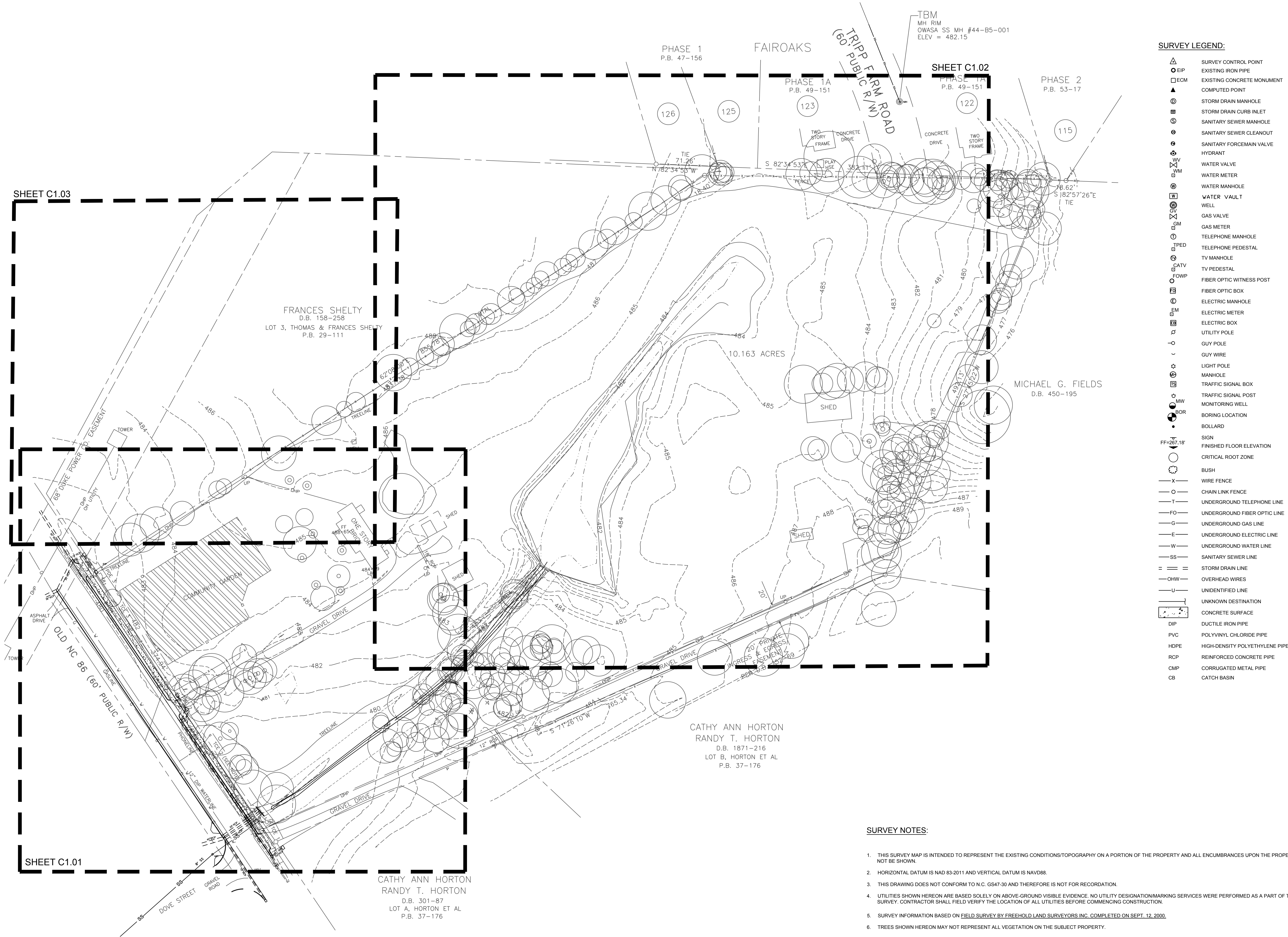
HH ARCHITECTURE

HH ARCHITECTURE - ARCHITECT
CONTACT: JANELLA VAN DEEN
ARCHITECT
919.828.2301 (T)
919.828.2303 (F)
JVANDEEN@HH-ARCH.COM

Project number: C16146
Date: 05.01.2017
Drawn by: C. JEMIOLO
Designed by: T.GULL

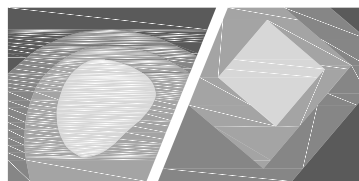
Revisions:	No.	Date	Description
	1	07.20.17	RESUBMITTAL TO TOWN
	2	09.12.17	RESUBMITTAL TO TOWN
	3	10.20.17	RESUBMITTAL TO TOWN

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C1.00-Existing Conditions.dwg Jan 12, 2018 - 8:09am



SURVEY LEGEND:	
	SURVEY CONTROL POINT
	EXISTING IRON PIPE
	EXISTING CONCRETE MONUMENT
	COMPUTED POINT
	STORM DRAIN MANHOLE
	STORM DRAIN CURB INLET
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	SANITARY FORCE MAIN VALVE
	HYDRANT
	WATER VALVE
	WATER METER
	WATER MANHOLE
	WATER VAULT WELL
	GAS VALVE
	GAS METER
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	TV MANHOLE
	TV PEDESTAL
	FIBER OPTIC WITNESS POST
	FIBER OPTIC BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC BOX
	UTILITY POLE
	GUY POLE
	GUY WIRE
	LIGHT POLE
	MANHOLE
	TRAFFIC SIGNAL BOX
	TRAFFIC SIGNAL POST
	MONITORING WELL
	BORING LOCATION
	BOLLARD
	SIGN
	FINISHED FLOOR ELEVATION
	CRITICAL ROOT ZONE
	BUSH
	WIRE FENCE
	CHAIN LINK FENCE
	UNDERGROUND TELEPHONE LINE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND GAS LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	OVERHEAD WIRES
	UNIDENTIFIED LINE
	UNKNOWN DESTINATION
	CONCRETE SURFACE
	DUCTILE IRON PIPE
	PVC
	HIGH-DENSITY POLYETHYLENE PIPE
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	CATCH BASIN

- SURVEY NOTES:**
- THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY AND ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.
 - HORIZONTAL DATUM IS NAD 83-2011 AND VERTICAL DATUM IS NAVD88.
 - THIS DRAWING DOES NOT CONFORM TO N.C. GS47-30 AND THEREFORE IS NOT FOR RECORDATION.
 - UTILITIES SHOWN HEREON ARE BASED SOLELY ON ABOVE-GROUND VISIBLE EVIDENCE. NO UTILITY DESIGNATION/MARKING SERVICES WERE PERFORMED AS A PART OF THIS SURVEY. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE COMMENCING CONSTRUCTION.
 - SURVEY INFORMATION BASED ON FIELD SURVEY BY FREEHOLD LAND SURVEYORS INC. COMPLETED ON SEPT. 12, 2000.
 - TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.
 - JURISDICTIONAL WETLAND SURVEYED BY STEWART ON JANUARY 18, 2017 BASED ON FLAGGING BY ECOLOGICAL ENGINEERING ON DECEMBER 16, 2016.
 - ADDITIONAL SURVEY INFORMATION ON UTILITIES AND RIGHT-OF-WAY PROVIDED BY TOWN OF CARRBORO ON MAY 15, 2017 AS NOTED ON PLANS.



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:

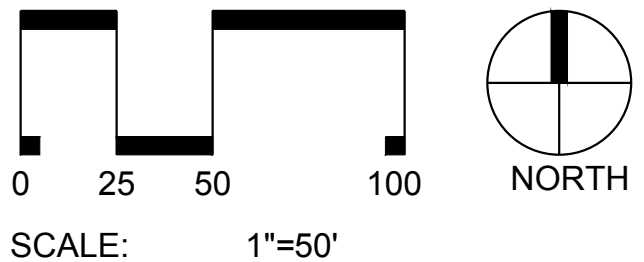


Seal:

Issued for:

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



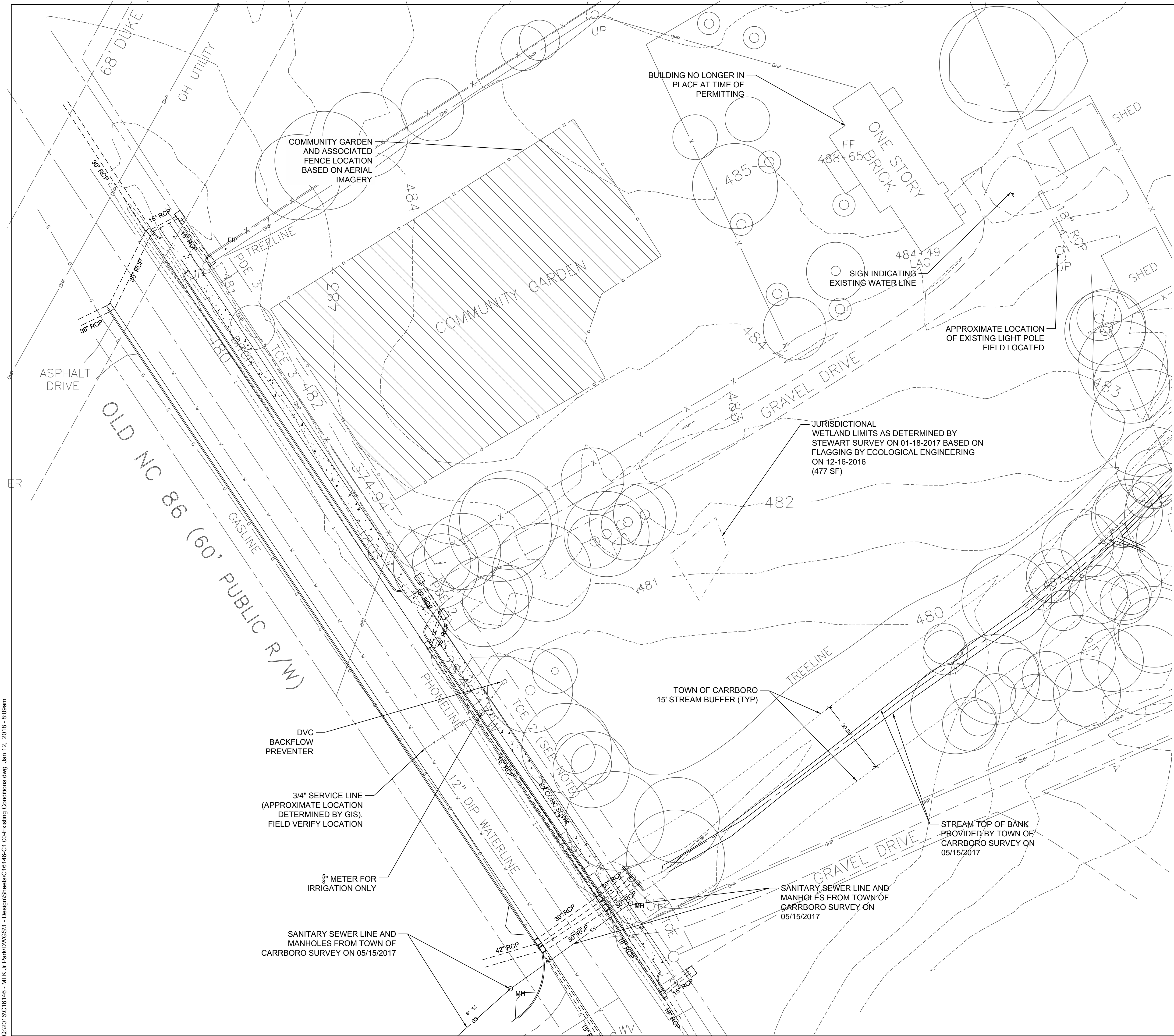
Title:

EXISTING
CONDITIONS

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: NBC
Approved by: JLW

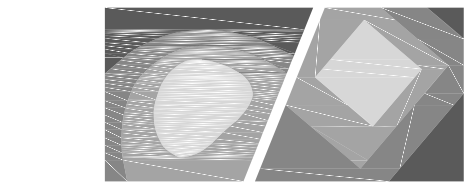
C1.00

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C1.00-Existing Conditions.dwg Jan 12, 2018 - 8:09am



SURVEY LEGEND:

- △ SURVEY CONTROL POINT
- EIP EXISTING IRON PIPE
- ECM EXISTING CONCRETE MONUMENT
- ▲ COMPUTED POINT
- ⊞ STORM DRAIN MANHOLE
- ⊞ STORM DRAIN CURB INLET
- ⊞ SANITARY SEWER MANHOLE
- ⊞ SANITARY SEWER CLEANOUT
- ⊞ SANITARY FORCEMAIN VALVE
- ⊞ HYDRANT
- ⊞ WATER VALVE
- ⊞ WATER METER
- ⊞ WATER MANHOLE
- ⊞ WATER VAULT
- ⊞ WELL
- ⊞ GAS VALVE
- ⊞ GAS METER
- ⊞ TELEPHONE MANHOLE
- ⊞ TELEPHONE PEDESTAL
- ⊞ TV MANHOLE
- ⊞ TV PEDESTAL
- ⊞ FIBER OPTIC WITNESS POST
- ⊞ FIBER OPTIC BOX
- ⊞ ELECTRIC MANHOLE
- ⊞ ELECTRIC METER
- ⊞ ELECTRIC BOX
- ⊞ UTILITY POLE
- ⊞ GUY POLE
- ⊞ GUY WIRE
- ⊞ LIGHT POLE
- ⊞ MANHOLE
- ⊞ TRAFFIC SIGNAL BOX
- ⊞ TRAFFIC SIGNAL POST
- ⊞ MONITORING WELL
- ⊞ BORING LOCATION
- ⊞ BOLLARD
- ⊞ SIGN
- FF=287.18' FINISHED FLOOR ELEVATION
- CRITICAL ROOT ZONE
- BUSH
- WIRE FENCE
- CHAIN LINK FENCE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND FIBER OPTIC LINE
- UNDERGROUND GAS LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- OVERHEAD WIRES
- UNIDENTIFIED LINE
- UNKNOWN DESTINATION
- CONCRETE SURFACE
- DIP DUCTILE IRON PIPE
- PVC POLYVINYL CHLORIDE PIPE
- HDPE HIGH-DENSITY POLYETHYLENE PIPE
- RCP REINFORCED CONCRETE PIPE
- CMP CORRUGATED METAL PIPE
- CB CATCH BASIN



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

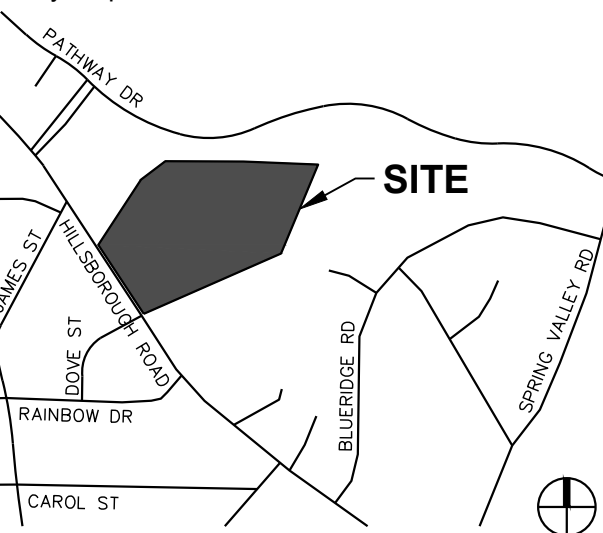
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

Vicinity map:

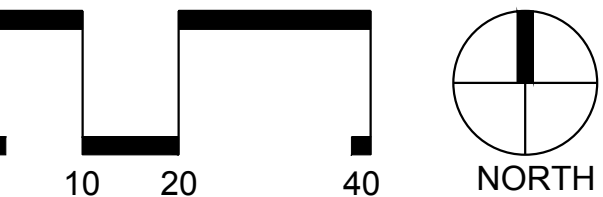


Seal:

Issued for:

**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



SCALE: 1"=20'

Title:

**EXISTING
CONDITIONS
ENLARGEMENT**

Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

Approved by: JLW

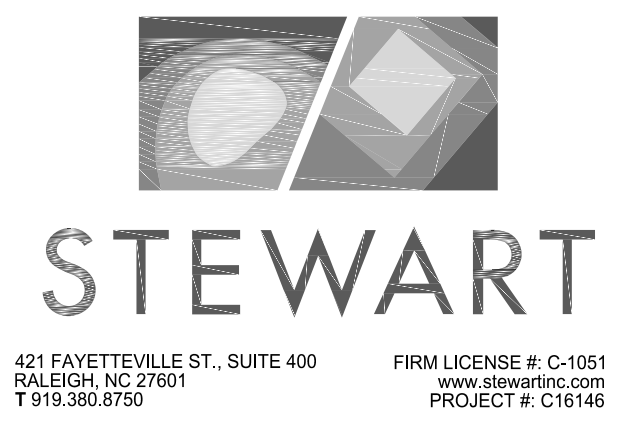
C1.01

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C1.00-Existing Conditions.dwg Jan 12, 2018 - 8:08am



SURVEY LEGEND:

- △ SURVEY CONTROL POINT
- EIP EXISTING IRON PIPE
- ECM EXISTING CONCRETE MONUMENT
- ▲ COMPUTED POINT
- ⊙ STORM DRAIN MANHOLE
- ⊞ STORM DRAIN CURB INLET
- ⊙ SANITARY SEWER MANHOLE
- ⊙ SANITARY SEWER CLEANOUT
- ⊙ SANITARY FORCEMAIN VALVE
- ⊙ HYDRANT
- ⊙ WV WATER VALVE
- ⊙ WM WATER METER
- ⊙ WM WATER MANHOLE
- ⊙ W WATER VAULT
- ⊙ WELL
- ⊙ GV GAS VALVE
- ⊙ GM GAS METER
- ⊙ TPD TELEPHONE MANHOLE
- ⊙ TPD TELEPHONE PEDESTAL
- ⊙ TV MANHOLE
- ⊙ TV PEDESTAL
- ⊙ FOWP FIBER OPTIC WITNESS POST
- ⊙ FIBER OPTIC BOX
- ⊙ EM ELECTRIC MANHOLE
- ⊙ EM ELECTRIC METER
- ⊙ EB ELECTRIC BOX
- ⊙ UPO UTILITY POLE
- ⊙ GP GUY POLE
- ⊙ GW GUY WIRE
- ⊙ LP LIGHT POLE
- ⊙ MH MANHOLE
- ⊙ TSF TRAFFIC SIGNAL BOX
- ⊙ TSF TRAFFIC SIGNAL POST
- ⊙ MW MONITORING WELL
- ⊙ BOR BORING LOCATION
- ⊙ BOLLARD
- FF=267.18' FINISHED FLOOR ELEVATION
- CRITICAL ROOT ZONE
- BUSH
- X WIRE FENCE
- CHAIN LINK FENCE
- T UNDERGROUND TELEPHONE LINE
- FO UNDERGROUND FIBER OPTIC LINE
- G UNDERGROUND GAS LINE
- E UNDERGROUND ELECTRIC LINE
- W UNDERGROUND WATER LINE
- SS SANITARY SEWER LINE
- SD STORM DRAIN LINE
- OHW OVERHEAD WIRES
- U UNIDENTIFIED LINE
- UNKNOWN DESTINATION
- CONCRETE SURFACE
- DIP DUCTILE IRON PIPE
- PVC POLYVINYL CHLORIDE PIPE
- HDPE HIGH-DENSITY POLYETHYLENE PIPE
- RCP REINFORCED CONCRETE PIPE
- CMP CORRUGATED METAL PIPE
- CB CATCH BASIN

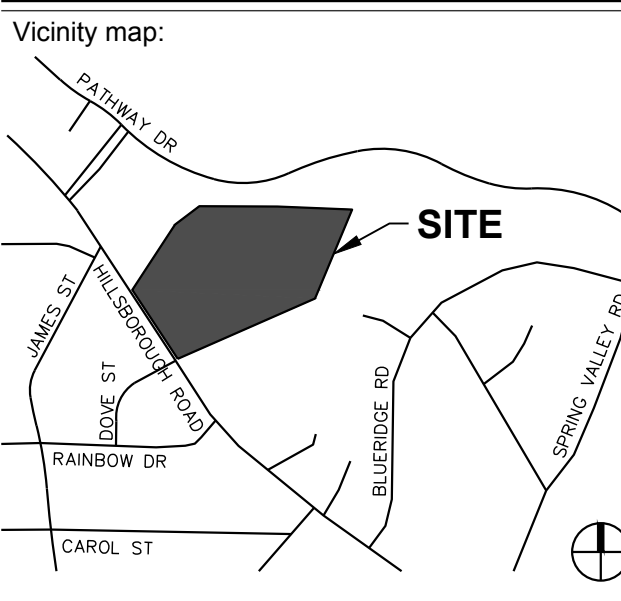


Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

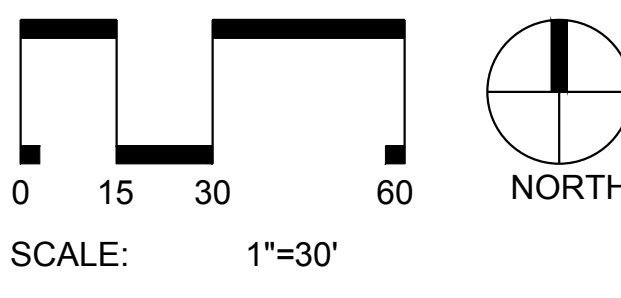


Seal:

Issued for:

**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



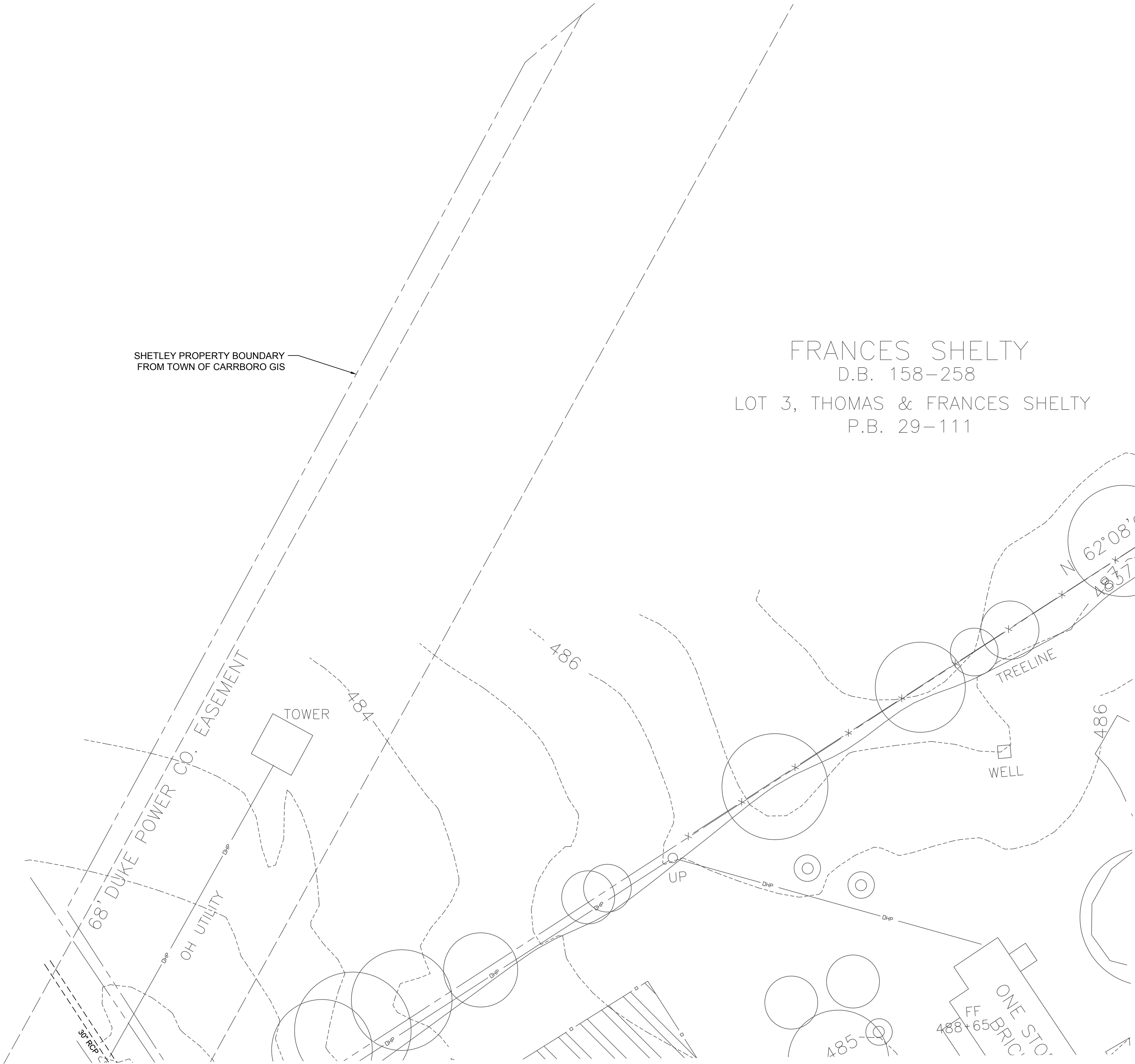
Title:

**EXISTING
CONDITIONS
ENLARGEMENT**

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW

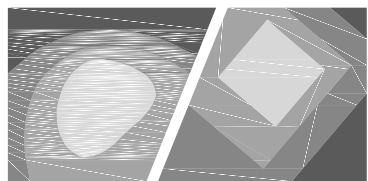
C1.02

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C1 00-Existing Conditions.dwg Jan 12, 2018 - 8:09am



SURVEY LEGEND:

- △ SURVEY CONTROL POINT
- EIP EXISTING IRON PIPE
- ECM EXISTING CONCRETE MONUMENT
- ▲ COMPUTED POINT
- ⊙ STORM DRAIN MANHOLE
- STORM DRAIN CURB INLET
- ⊙ SANITARY SEWER MANHOLE
- ⊙ SANITARY SEWER CLEANOUT
- ⊙ SANITARY FORCEMAIN VALVE
- ⊙ HYDRANT
- ⊙ WV WATER VALVE
- ⊙ WM WATER METER
- ⊙ WATER MANHOLE
- ⊙ W WATER VAULT
- ⊙ GV WELL
- ⊙ GM GAS VALVE
- ⊙ GAS METER
- ⊙ TELEPHONE MANHOLE
- ⊙ TPED TELEPHONE PEDESTAL
- ⊙ TV MANHOLE
- ⊙ GATV TV PEDESTAL
- ⊙ FOWP FIBER OPTIC WITNESS POST
- ⊙ FB FIBER OPTIC BOX
- ⊙ EM ELECTRIC MANHOLE
- ⊙ EM ELECTRIC METER
- ⊙ EB ELECTRIC BOX
- ⊙ U UTILITY POLE
- ⊙ GUY POLE
- ⊙ GUY WIRE
- ⊙ LIGHT POLE
- ⊙ MANHOLE
- ⊙ TRAFFIC SIGNAL BOX
- ⊙ TRAFFIC SIGNAL POST
- ⊙ MONITORING WELL
- ⊙ BOR BORING LOCATION
- ⊙ BOLLARD
- ⊙ SIGN
- ⊙ FF FINISHED FLOOR ELEVATION
- ⊙ CRITICAL ROOT ZONE
- ⊙ BUSH
- X— WIRE FENCE
- O— CHAIN LINK FENCE
- T— UNDERGROUND TELEPHONE LINE
- FO— UNDERGROUND FIBER OPTIC LINE
- G— UNDERGROUND GAS LINE
- E— UNDERGROUND ELECTRIC LINE
- W— UNDERGROUND WATER LINE
- SS— SANITARY SEWER LINE
- SD— STORM DRAIN LINE
- OHW— OVERHEAD WIRES
- U— UNIDENTIFIED LINE
- UNKNOWN DESTINATION
- ⊙ CONCRETE SURFACE
- DIP DUCTILE IRON PIPE
- PVC POLYVINYL CHLORIDE PIPE
- HDPE HIGH-DENSITY POLYETHYLENE PIPE
- RCP REINFORCED CONCRETE PIPE
- CMP CORRUGATED METAL PIPE
- CB CATCH BASIN



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

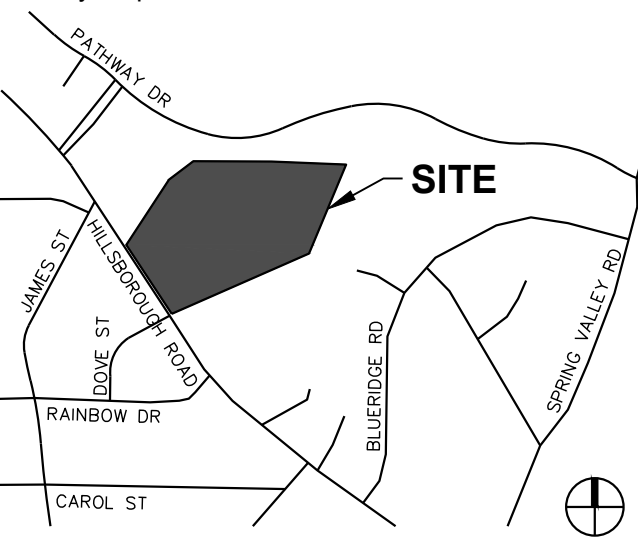
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:

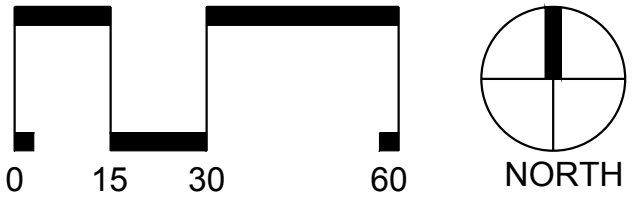


Seal:

Issued for:

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



SCALE: 1"=30'

Title:

EXISTING
CONDITIONS
ENLARGEMENT

Project number: C16146 Sheet:

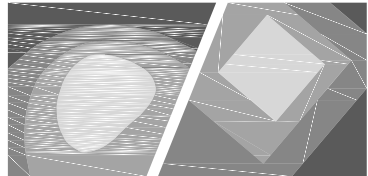
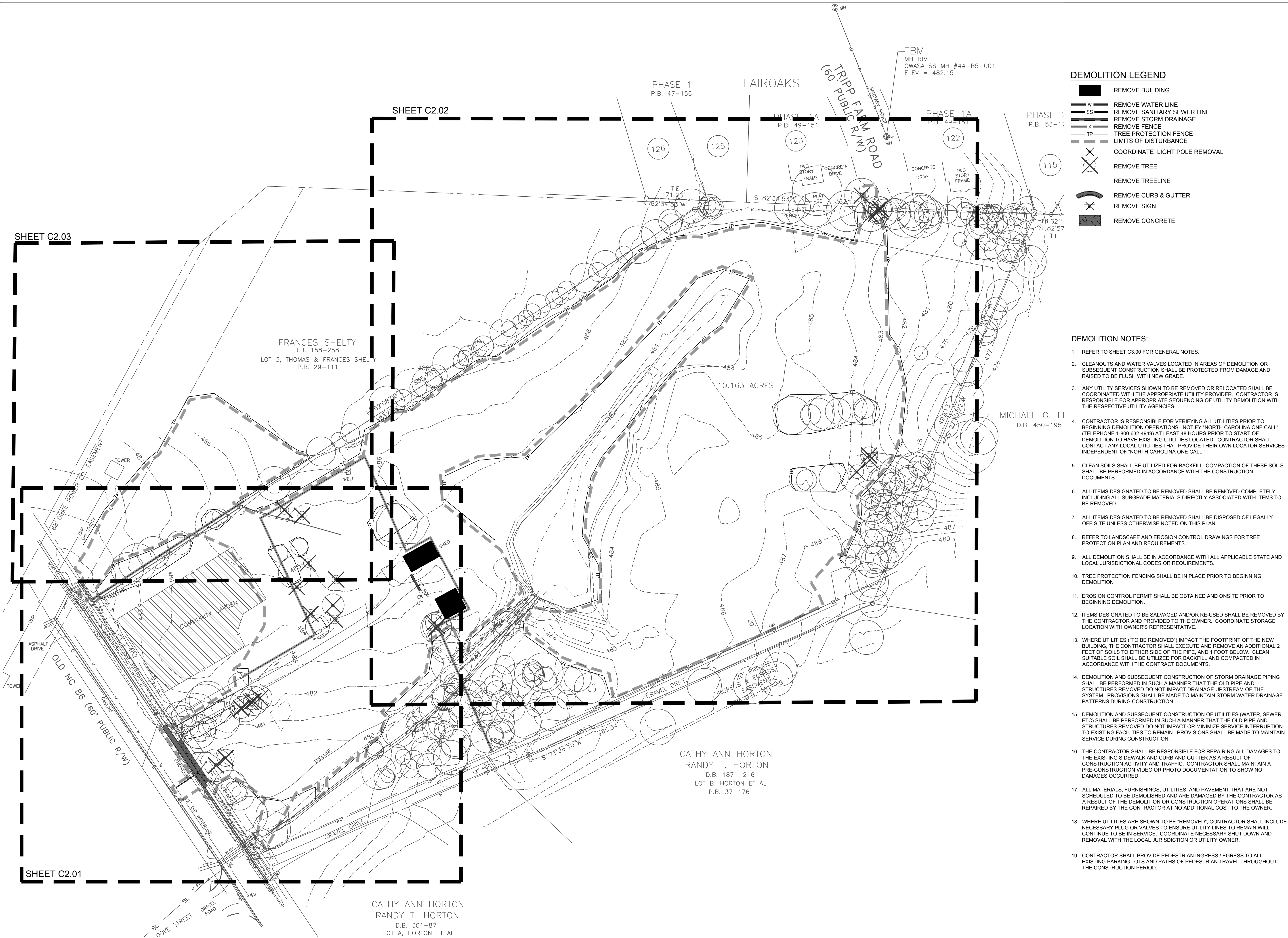
Date: 12.04.2017

Drawn by: CJJ

Approved by: JLW

C1.03

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C2.00-Demo.dwg Jan 12, 2018 - 8:09am



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



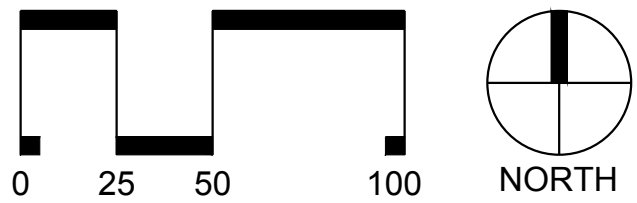
Seal:



Issued for:

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



SCALE: 1"=50'

Title:

DEMOLITION PLAN

Project number: C16146 Sheet:

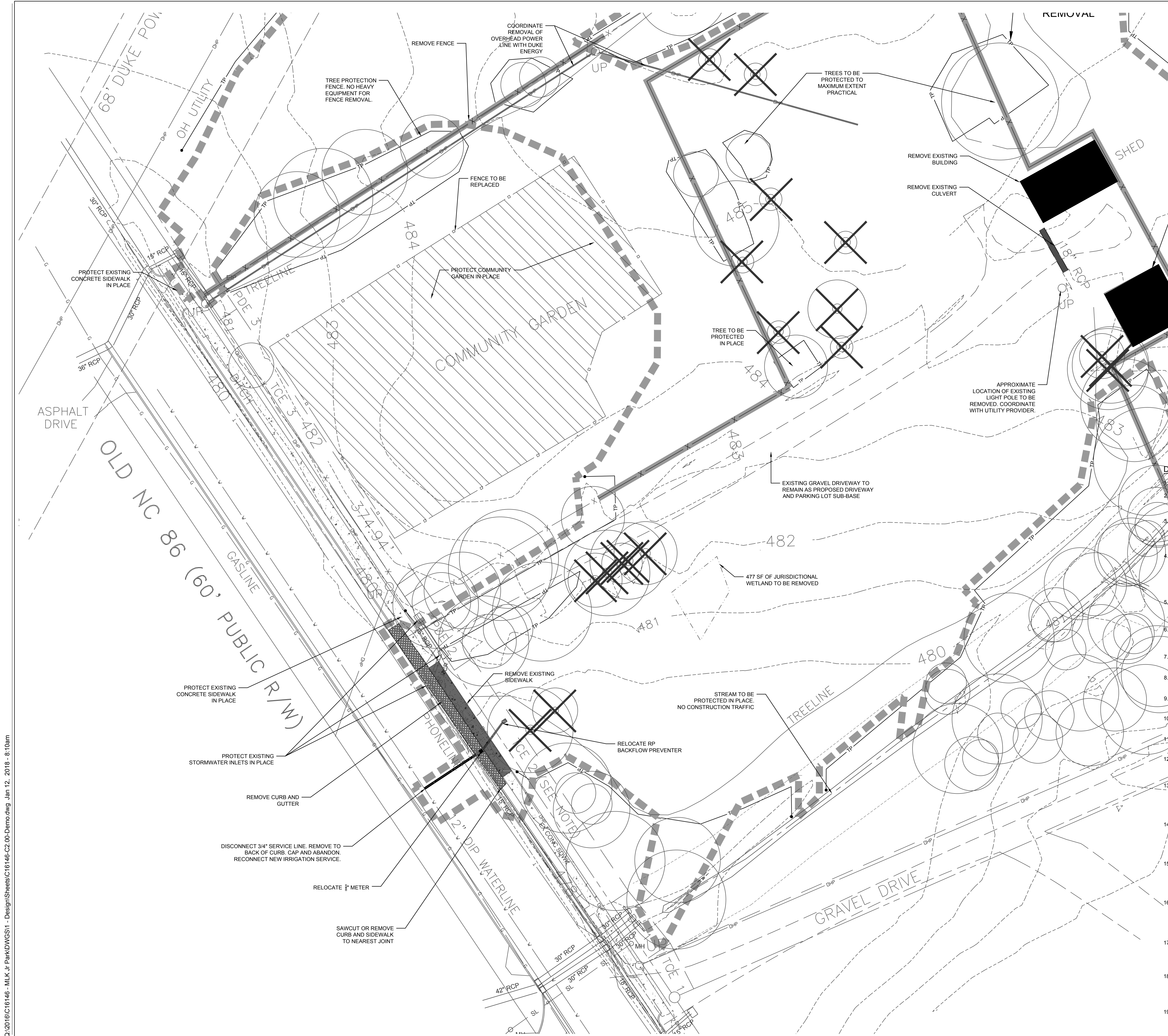
Date: 12.04.2017

Drawn by: TPG

Approved by: JLW

C2.00

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C2.00-Demo.dwg Jan 12, 2016 - 8:10am



- DEMOLITION LEGEND**
- REMOVE BUILDING
 - REMOVE WATER LINE
 - REMOVE SANITARY SEWER LINE
 - REMOVE STORM DRAINAGE
 - REMOVE FENCE
 - TREE PROTECTION FENCE
 - LIMITS OF DISTURBANCE
 - COORDINATE LIGHT POLE REMOVAL
 - REMOVE TREE
 - REMOVE TREELINE
 - REMOVE CURB & GUTTER
 - REMOVE SIGN
 - REMOVE CONCRETE

- DEMOLITION NOTES:**
- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE.
 - ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4545) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL."
 - CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
 - ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
 - ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.
 - REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.
 - ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES OR REQUIREMENTS.
 - TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION.
 - EROSION CONTROL PERMIT SHALL BE OBTAINED AND ONSITE PRIOR TO BEGINNING DEMOLITION.
 - ITEMS DESIGNATED TO BE SALVAGED AND/OR RE-USED SHALL BE REMOVED BY THE CONTRACTOR AND PROVIDED TO THE OWNER. COORDINATE STORAGE LOCATION WITH OWNER'S REPRESENTATIVE.
 - WHERE UTILITIES ("TO BE REMOVED") IMPACT THE FOOTPRINT OF THE NEW BUILDING, THE CONTRACTOR SHALL EXECUTE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE, AND 1 FOOT BELOW. CLEAN SUITABLE SOIL SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - DEMOLITION AND SUBSEQUENT CONSTRUCTION OF STORM DRAINAGE PIPING SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT DRAINAGE UPSTREAM OF THE SYSTEM. PROVISIONS SHALL BE MADE TO MAINTAIN STORM WATER DRAINAGE PATTERNS DURING CONSTRUCTION.
 - DEMOLITION AND SUBSEQUENT CONSTRUCTION OF UTILITIES (WATER, SEWER, ETC) SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT OR MINIMIZE SERVICE INTERRUPTION TO EXISTING FACILITIES TO REMAIN. PROVISIONS SHALL BE MADE TO MAINTAIN SERVICE DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN A PRE-CONSTRUCTION VIDEO OR PHOTO DOCUMENTATION TO SHOW NO DAMAGES OCCURRED.
 - ALL MATERIALS, FURNISHINGS, UTILITIES, AND PAVEMENT THAT ARE NOT SCHEDULED TO BE DEMOLISHED AND ARE DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - WHERE UTILITIES ARE SHOWN TO BE "REMOVED", CONTRACTOR SHALL INCLUDE NECESSARY PLUGS OR VALVES TO ENSURE UTILITY LINES TO REMAIN WILL CONTINUE TO BE IN SERVICE. COORDINATE NECESSARY SHUT DOWN AND REMOVAL WITH THE LOCAL JURISDICTION OR UTILITY OWNER.
 - CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL EXISTING PARKING LOTS AND PATHS OF PEDESTRIAN TRAVEL THROUGHOUT THE CONSTRUCTION PERIOD.

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:

Seal:

Issued for:

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

Title:

DEMOLITION PLAN ENLARGEMENT

Project number: C16146 Sheet:

Date: 12.04.2017

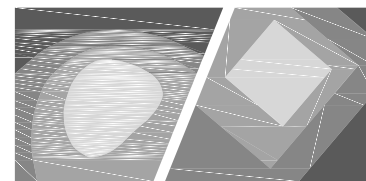
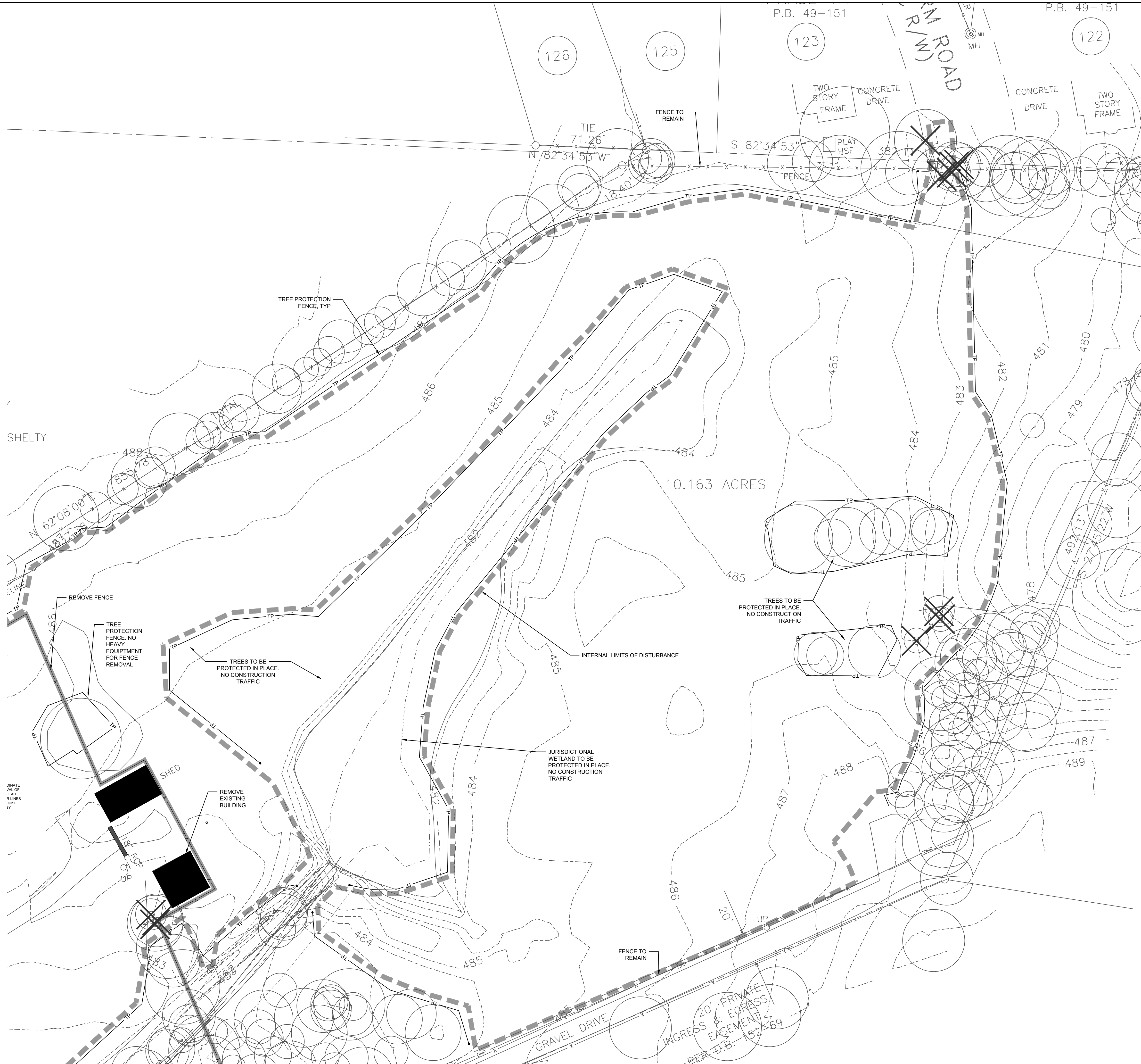
Drawn by: CJJ

Approved by: JLW

C2.01

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C2.00-Demo.dwg Jan 12, 2016 - 8:10am

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C2.00-Demo.dwg Jan 12, 2018 - 8:10am



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

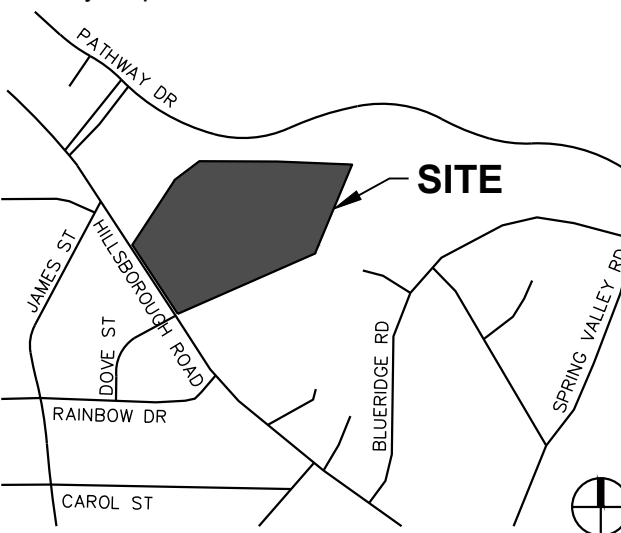
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



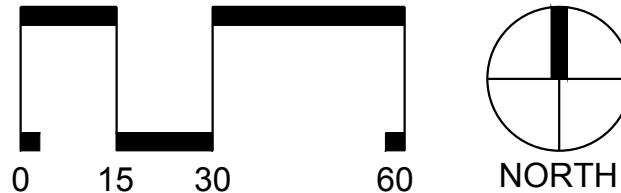
Seal:



Issued for:

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



SCALE: 1"=30'

Title:

DEMOLITION PLAN ENLARGEMENT

Project number: C16146 Sheet:

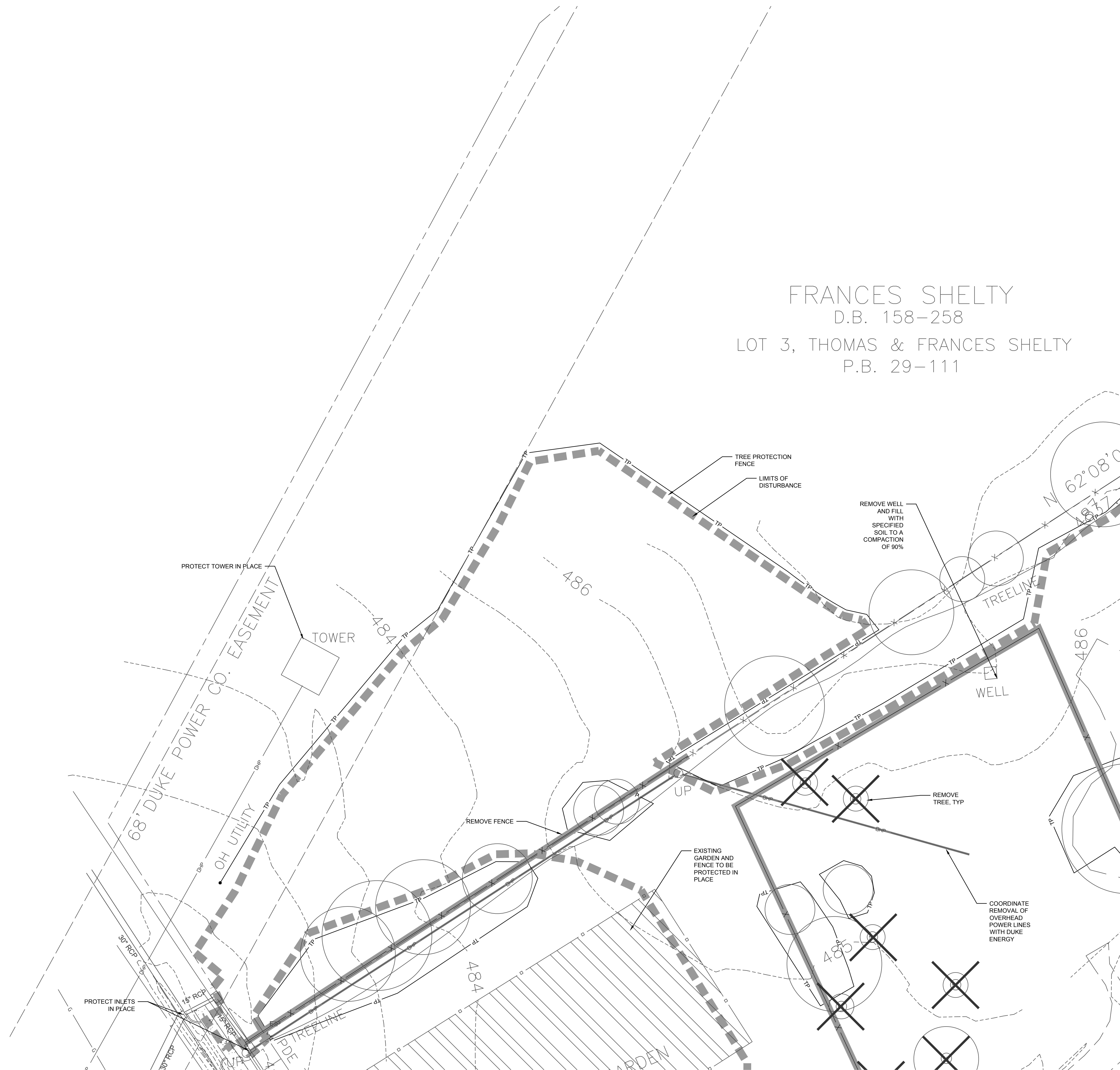
Date: 12.04.2017

Drawn by: CJJ

Approved by: JWP

C2.02

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-c2-00-Demo.dwg Jan 12, 2018 - 8:10am

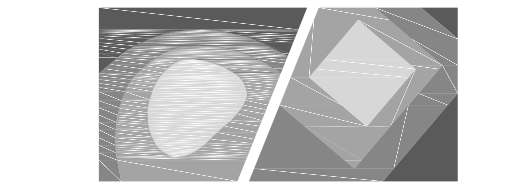


DEMOLITION LEGEND

- REMOVE BUILDING
- W REMOVE WATER LINE
- SS REMOVE SANITARY SEWER LINE
- REMOVE STORM DRAINAGE
- X REMOVE FENCE
- TP TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- COORDINATE LIGHT POLE REMOVAL
- REMOVE TREE

DEMOLITION NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE.
- ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES.
- 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 CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL."
- CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN.
- REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.
- ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL JURISDICTIONAL CODES OR REQUIREMENTS.
- TREE PROTECTION FENCING SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION.
- EROSION CONTROL PERMIT SHALL BE OBTAINED AND ONSITE PRIOR TO BEGINNING DEMOLITION.
- ITEMS DESIGNATED TO BE SALVAGED AND/OR RE-USED SHALL BE REMOVED BY THE CONTRACTOR AND PROVIDED TO THE OWNER. COORDINATE STORAGE LOCATION WITH OWNER'S REPRESENTATIVE.
- WHERE UTILITIES ("TO BE REMOVED") IMPACT THE FOOTPRINT OF THE NEW BUILDING, THE CONTRACTOR SHALL EXECUTE AND REMOVE AN ADDITIONAL 2 FEET OF SOILS TO EITHER SIDE OF THE PIPE, AND 1 FOOT BELOW. CLEAN SUITABLE SOIL SHALL BE UTILIZED FOR BACKFILL AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- DEMOLITION AND SUBSEQUENT CONSTRUCTION OF STORM DRAINAGE PIPING SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT DRAINAGE UPSTREAM OF THE SYSTEM. PROVISIONS SHALL BE MADE TO MAINTAIN STORM WATER DRAINAGE PATTERNS DURING CONSTRUCTION.
- DEMOLITION AND SUBSEQUENT CONSTRUCTION OF UTILITIES (WATER, SEWER, ETC) SHALL BE PERFORMED IN SUCH A MANNER THAT THE OLD PIPE AND STRUCTURES REMOVED DO NOT IMPACT OR MINIMIZE SERVICE INTERRUPTION TO EXISTING FACILITIES TO REMAIN. PROVISIONS SHALL BE MADE TO MAINTAIN SERVICE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES TO THE EXISTING SIDEWALK AND CURB AND GUTTER AS A RESULT OF CONSTRUCTION ACTIVITY AND TRAFFIC. CONTRACTOR SHALL MAINTAIN A PRE-CONSTRUCTION VIDEO OR PHOTO DOCUMENTATION TO SHOW NO DAMAGES OCCURRED.
- ALL MATERIALS, FURNISHINGS, UTILITIES, AND PAVEMENT THAT ARE NOT SCHEDULED TO BE DEMOLISHED AND ARE DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OR CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- WHERE UTILITIES ARE SHOWN TO BE "REMOVED", CONTRACTOR SHALL INCLUDE NECESSARY PLUG OR VALVES TO ENSURE UTILITY LINES TO REMAIN WILL CONTINUE TO BE IN SERVICE. COORDINATE NECESSARY SHUT DOWN AND REMOVAL WITH THE LOCAL JURISDICTION OR UTILITY OWNER.
- CONTRACTOR SHALL PROVIDE PEDESTRIAN INGRESS / EGRESS TO ALL EXISTING PARKING LOTS AND PATHS OF PEDESTRIAN TRAVEL THROUGHOUT THE CONSTRUCTION PERIOD.



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

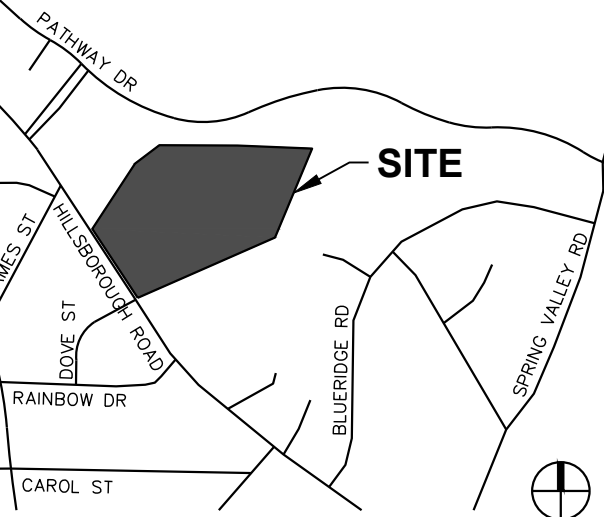
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



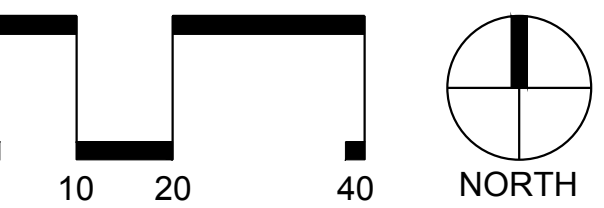
Seal:



Issued for:

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



SCALE: 1"=20'

Title:

DEMOLITION PLAN ENLARGEMENT

Project number: C16146 Sheet:

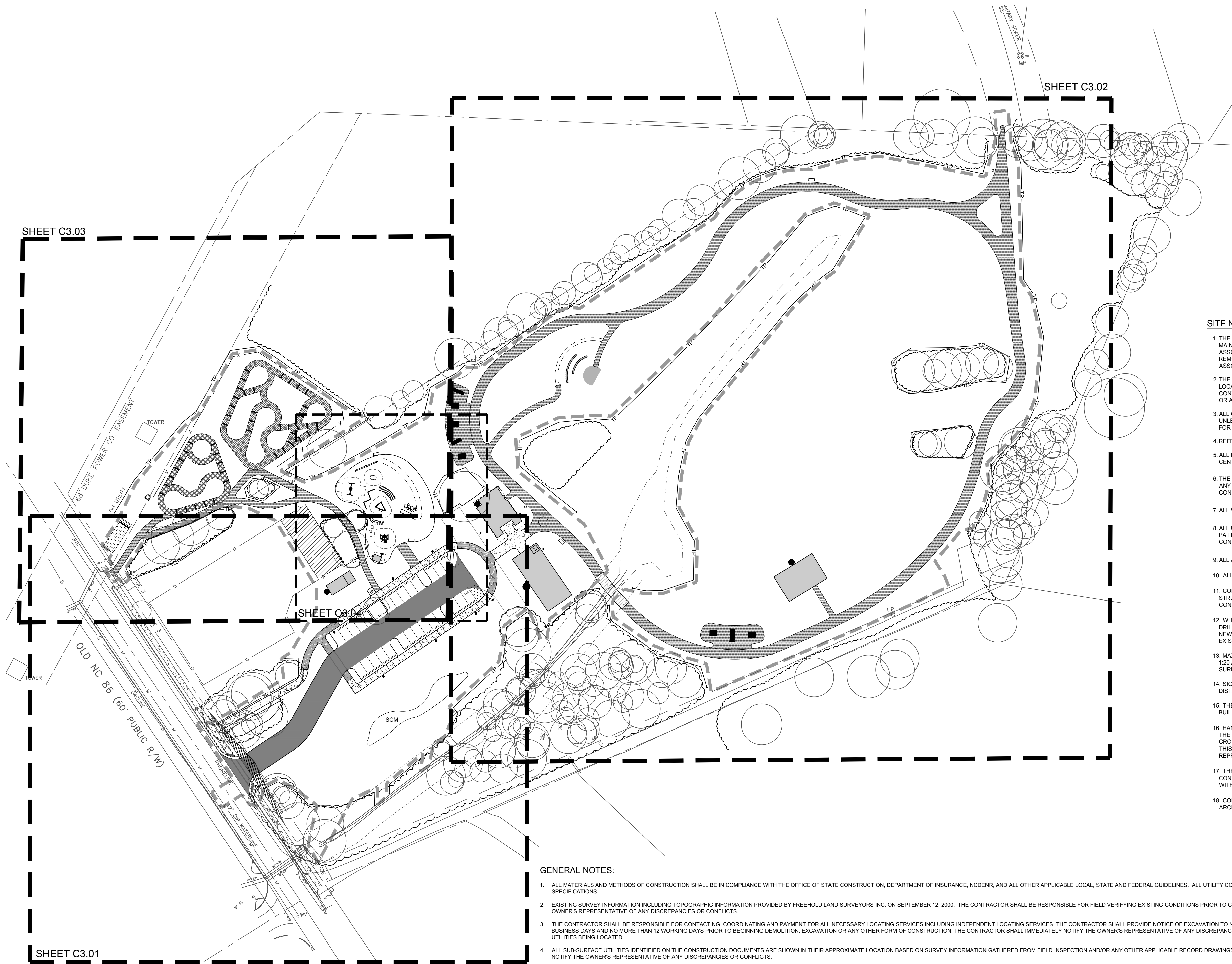
Date: 12.04.2017

Drawn by: CJJ

Approved by: JLW

C2.03

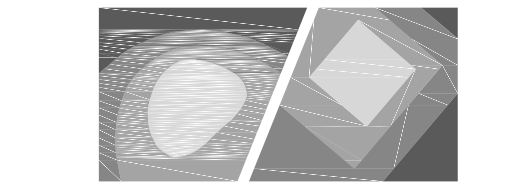
Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C3-00-Site Plan.dwg Jan 12, 2018 - 8:10am



- SITE LEGEND**
- PROPOSED BUILDING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY PAVEMENT
 - PROPOSED STOP BAR
 - PROPOSED 6' WIDE STANDARD CROSSWALK
 - PROPOSED SIGN
 - PROPOSED ADA PARKING SPACE
 - PROPOSED SEATWALLS
 - PROPOSED WHEEL STOP
 - PROPOSED DECOMPOSED GRANITE TRAIL
 - PROPOSED COMPACTED DIRT TRACK
 - PROPOSED TREELINE
 - PROPOSED FENCE
 - PROPOSED VEHICLE GATE (X' WIDE)
 - PROPOSED BIKE RACK
 - PROPOSED BENCH
 - PROPOSED BOLLARD
 - LIMITS OF DISTURBANCE

- SITE NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
 - THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
 - ALL CONSTRUCTION TRAFFIC SHALL ENTER SITE FROM HILLSBOROUGH ROAD UNLESS OTHERWISE APPROVED IN WRITING FROM THE OWNER'S REPRESENTATIVE FOR AN ALTERNATE POINT OF ACCESS.
 - REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
 - ALL DIMENSIONS ARE IN DECIMAL FEET TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
 - ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
 - ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS.
 - ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 - ALIGN ALL JOINTS, CORNERS, AND EDGES AS SHOWN.
 - CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
 - WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. TIE NEW SIDEWALKS INTO TO NEAREST EXISTING PAVEMENT JOINT; MATCH WIDTH OF EXISTING WALKWAY.
 - MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS.
 - SIGHT TRIANGLES - NOTHING OVER 30' HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES.
 - THE SITE SHALL BE FULLY STABILIZED (90% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL.
 - HANDICAP RAMPS SHALL BE INSTALLED PER THE PLANS AND SPECIFICATIONS AND THE NC BUILDING CODE. A MAXIMUM SLOPE OF 1:12 FOR 6-FEET AND A MAXIMUM CROSS SLOPE OF 1:48 SHALL BE PROVIDED. IF EXISTING CONDITIONS PRECLUDE THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.
 - CONTRACTOR TO STAKE WALKING PATH AND FOOT BRIDGE IN FIELD. LANDSCAPE ARCHITECT TO VERIFY LAYOUT BEFORE PATH OR BRIDGE ARE CONSTRUCTED.

- GENERAL NOTES:**
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS.
 - EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY FREEHOLD LAND SURVEYORS INC. ON SEPTEMBER 12, 2000. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED.
 - ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS, INCLUDING GIS, WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
 - EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.
 - IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
 - THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
 - ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

Vicinity map:



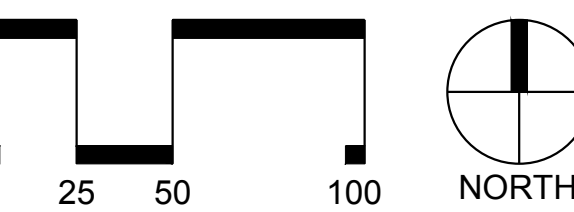
Seal:



Issued for:

**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



SCALE: 1"=50'

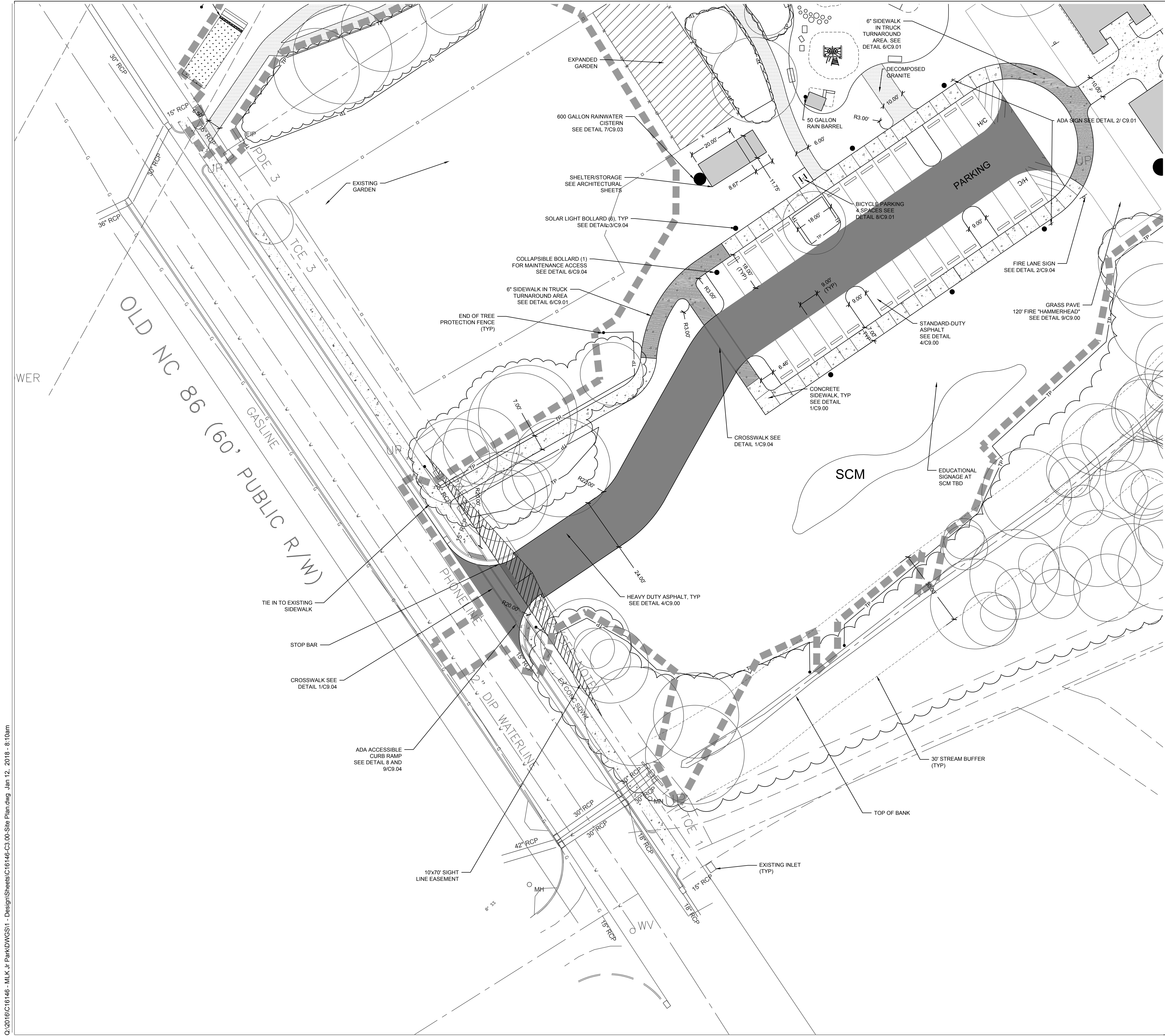
Title:

SITE PLAN

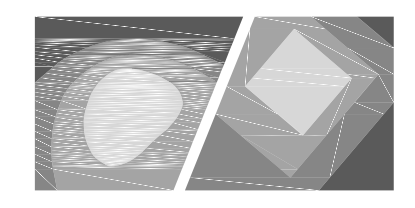
Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW

C3.00

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C3-00-Site Plan.dwg Jan 12, 2018 - 8:10am



- SITE LEGEND**
- PROPOSED BUILDING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY PAVEMENT
 - PROPOSED STOP BAR
 - PROPOSED 6' WIDE STANDARD CROSSWALK
 - PROPOSED SIGN
 - PROPOSED ADA PARKING SPACE
 - PROPOSED SEATWALLS
 - PROPOSED WHEEL STOP
 - PROPOSED DECOMPOSED GRANITE TRAIL
 - PROPOSED COMPACTED DIRT TRACK
 - PROPOSED TREELINE
 - PROPOSED FENCE
 - PROPOSED VEHICLE GATE (X' WIDE)
 - PROPOSED BIKE RACK
 - PROPOSED BENCH
 - PROPOSED BOLLARD
 - LIMITS OF DISTURBANCE



STEWART
421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

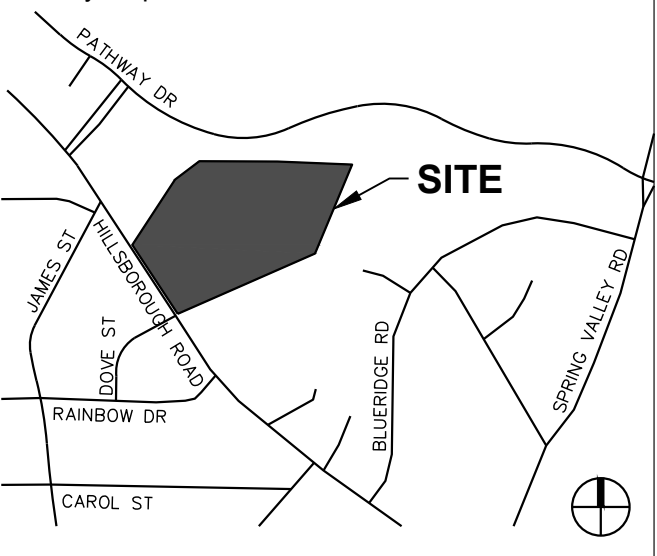
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



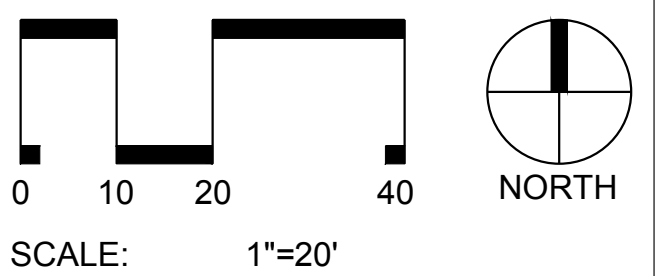
Seal:



Issued for:

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

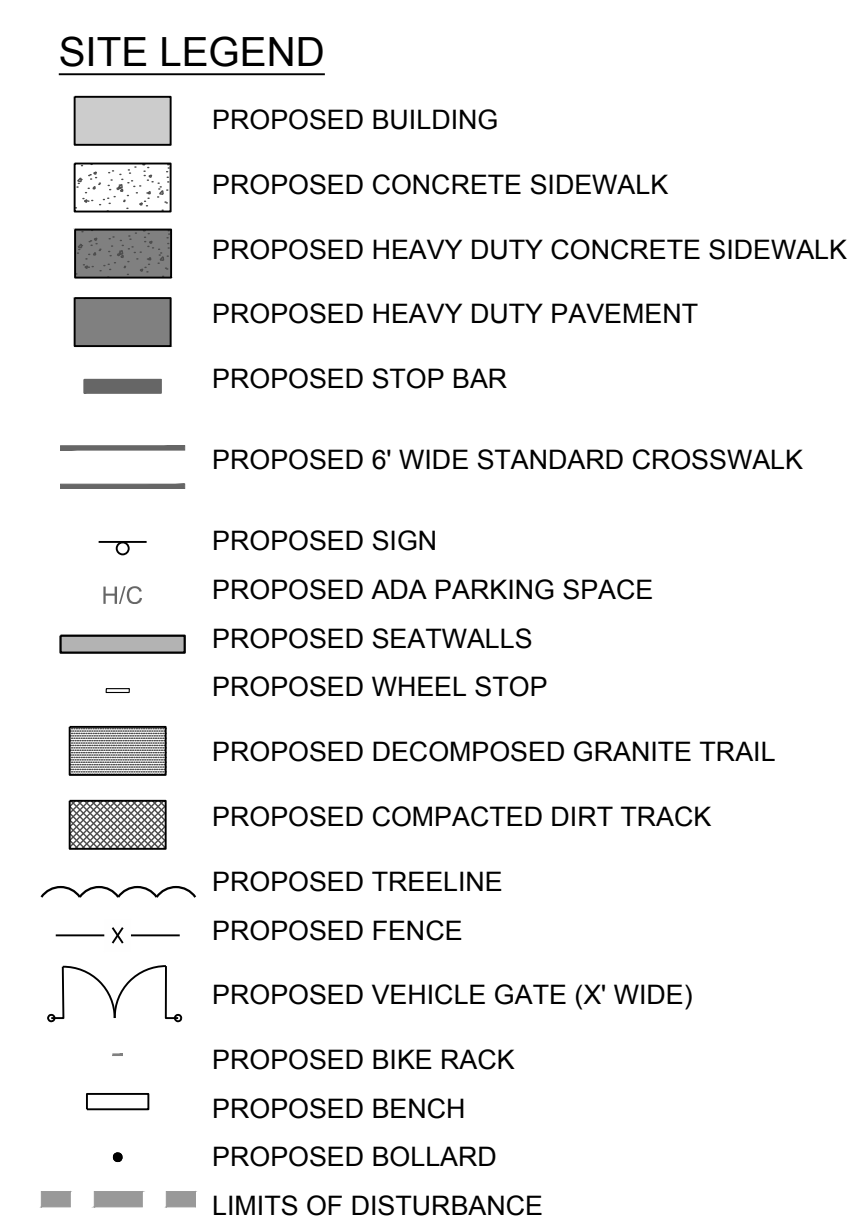


Title:

SITE PLAN ENLARGEMENT

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW

C3.01



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

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Vicinity map:

The map shows a network of roads. Parkway Dr runs diagonally from the top left. James St runs vertically on the left. Rainbow Dr and Carol St run horizontally at the bottom. Millbrook Rd runs diagonally from the bottom left towards the center. Bulweridge Rd runs diagonally from the bottom center towards the right. Spring Valley Rd runs diagonally from the bottom right towards the top right. A dark shaded area, labeled 'SITE' with an arrow, is located between Millbrook Rd and Bulweridge Rd. A north arrow is located in the bottom right corner.

Issued for:

**CONSTRUCTION
DOCUMENTS**

Profile view of the road showing elevation changes. The horizontal axis represents distance in feet, with markers at 0, 10, 20, and 40. The vertical axis represents elevation. The profile starts at an elevation of 100 feet at 0 feet, drops to 80 feet at 10 feet, rises to 100 feet at 20 feet, and remains at 100 feet until 40 feet. A north arrow is shown to the right of the profile, pointing upwards.

SCALE: 1"=20'

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW



421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE #: C-11
www.stewartinc.com
PROJECT #: C161

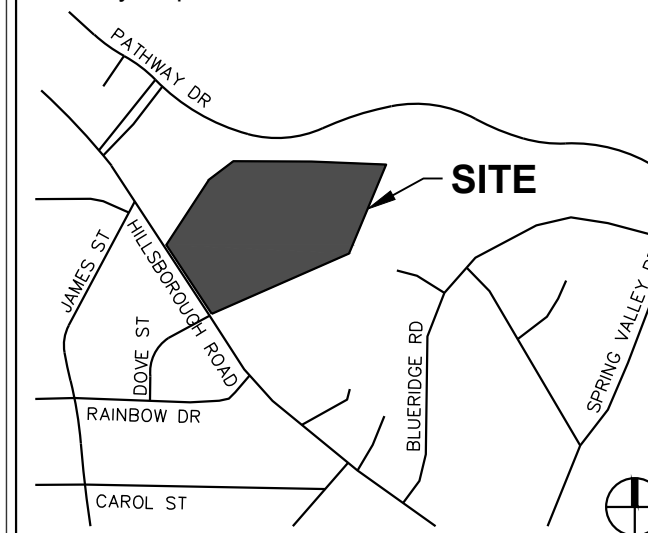
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

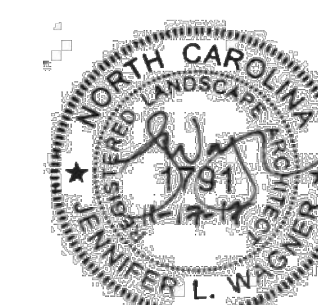
Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



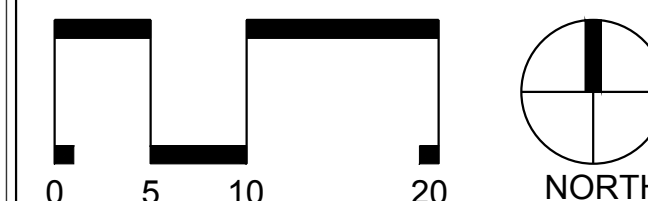
Seal



Issued for:

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



SCALE: 1"=10'

Title:

PLAYGROUND ENLARGEMENT

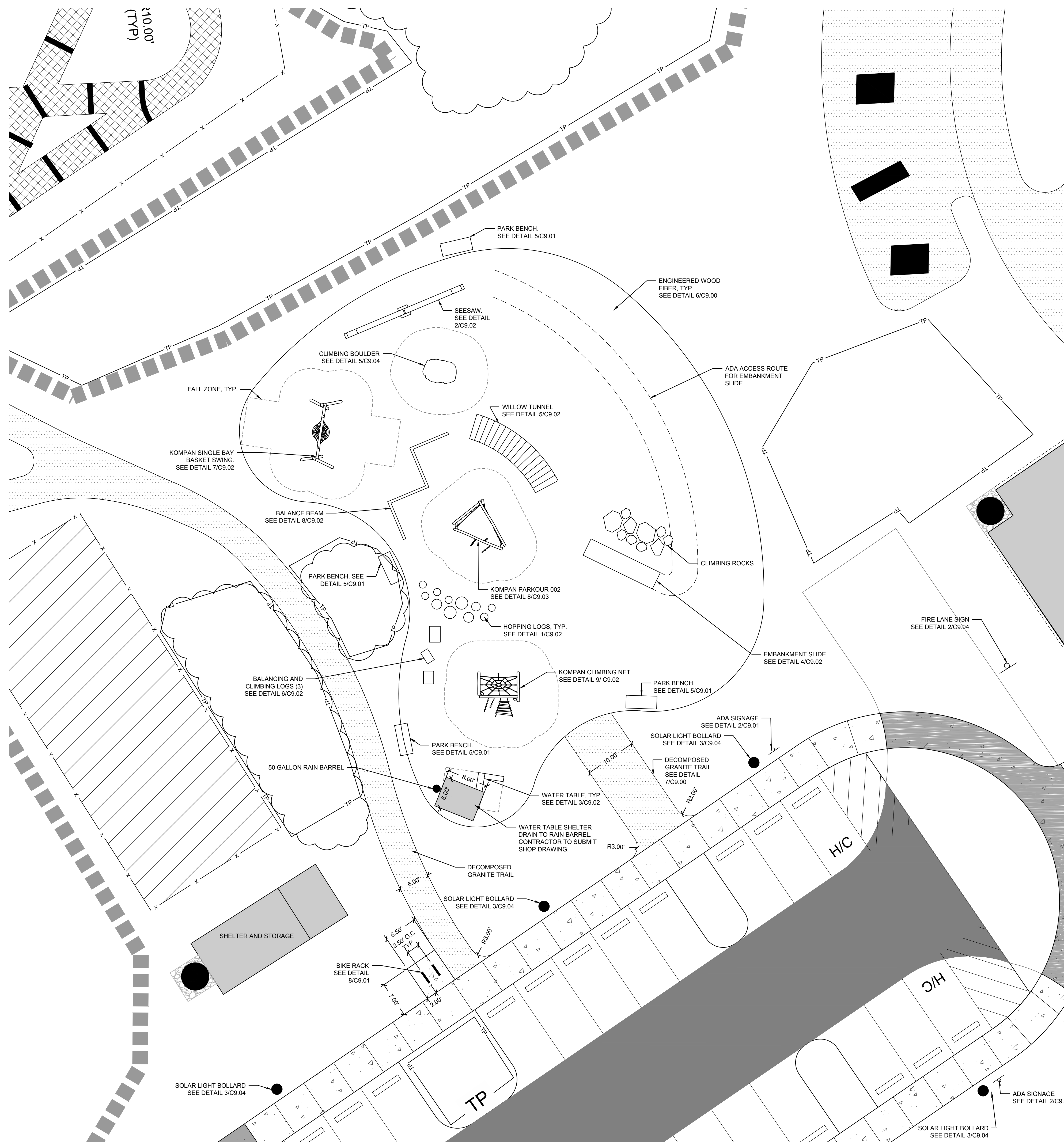
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

Approved by: JLW

C3.04



SITE LEGEND

- | | |
|---|---------------------------------------|
|  | PROPOSED BUILDING |
|  | PROPOSED CONCRETE SIDEWALK |
|  | PROPOSED HEAVY DUTY CONCRETE SIDEWALK |
|  | PROPOSED HEAVY DUTY PAVEMENT |
|  | PROPOSED STOP BAR |
|  | PROPOSED 6' WIDE STANDARD CROSSWALK |
|  | PROPOSED SIGN |
| H/C | PROPOSED ADA PARKING SPACE |
|  | PROPOSED SEATWALLS |
|  | PROPOSED WHEEL STOP |
|  | PROPOSED DECOMPOSED GRANITE TRAIL |
|  | PROPOSED COMPACTED DIRT TRACK |
|  | PROPOSED TREELINE |
| X | PROPOSED FENCE |
|  | PROPOSED VEHICLE GATE (X' WIDE) |
| B | PROPOSED BIKE RACK |
|  | PROPOSED BENCH |
| • | PROPOSED BOLLARD |
|   | LIMITS OF DISTURBANCE |

SITE NOTES:

1. PLAYGROUND EQUIPMENT TO BE INSTALLED BY MANUFACTURER REPRESENTATIVE
ACCORDING TO MANUFACTURER SPECIFICATIONS

EROSION CONTROL NOTES:

- REFER TO C3.00 FOR GENERAL NOTES.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN BEST LOCATION BASED ON FIELD CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION ENTRANCES AS NECESSARY TO PREVENT THE TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.
- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITTED. THE L.O.D. SHALL BE MAINTAINED BY THE ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COPIES OF THE WRITTEN INSPECTION REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE TWICE PER WEEK AND AFTER RAINS OF GREATER THAN 0.5" RAIN GAUGE REQUIRED ON SITE.
- ANY AREAS OF EXPOSED SOILS THAT WILL NOT BE DISTURBED FOR FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- INTERIM SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 (HORIZONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM SLOPE OF 1.5:1.
- THE SURFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, FURROWED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT FILL MATERIAL WILL BOND WITH EXISTING. SURFACE. INTERIM FILL SHALL BE PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS NOT GREATER THAN 6".
- PROVIDE DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, WETTING DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANNOYANCE AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OR ANY OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES OF AREAS TO BE SEEDDED OR PLANTED.
- SEDIMENT-LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED DIRECTLY TO STORM DRAINAGE.
- INSPECTOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
- CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY EROSION AND SEDIMENT CONTROL PLANNING LAND DESIGN MANUAL.
- A SELF-INSPECTOR MUST BE MADE OF THE PROJECT AFTER EACH PHASE OF THE PROJECT AND THE INSPECTION SHALL BE DOCUMENTED IN WRITING. THIS SELF-INSPECTION WILL BE PERFORMED IN ADDITION TO THE NPDES SELF-MONITORING REPORT REQUIRED BY THE GENERAL PERMIT DESCRIBED ABOVE. THE COMBINED SELF-INSPECTION FORM CAN BE FOUND AT:
<http://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>

TREE PROTECTION NOTES:

- TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT.
- TREE PROTECTION FENCING SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES."
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE AREA. THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED TREE AREA.
- TREE PROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY INCH OF DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, WHICHEVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS AREA.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

- OBTAIN A LAND DISTURBING PERMIT.
 - DETERMINE AND MARK LIMITS OF DISTURBANCE
 - CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT (919) 791-4200 AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITY.
- PHASE 1:
- CONTRACTOR TO INSTALL PRELIMINARY EROSION CONTROL MEASURES AROUND THE EXTERIOR LIMITS OF THE SITE. (SILT FENCE, SILT FENCE OUTLETS, CONSTRUCTION ENTRANCE, AND A CONCRETE WASHOUT PIT TO BE CONSTRUCTED AS SHOWN ON SHEET C4.01).
 - CONTRACTOR TO FIELD LOCATE PROPOSED SILT FENCE OUTLETS. SILT FENCE OUTLETS SHOWN ARE IN APPROXIMATE LOCATIONS AND ARE THE MINIMUM WHICH SHALL BE PROVIDED. FIELD CONDITIONS MAY DICTATE PLACEMENT OF MORE SILT FENCE OUTLETS DEPENDENT UPON THE MEANS AND METHODS OF GRADING AND CONSTRUCTION.
 - CONTRACTOR TO DEMOLISH EXISTING STRUCTURES. STRUCTURES ARE TO BE REMOVED IN FULL BEFORE ANY SITE DEMOLITION CAN OCCUR.
 - CONTRACTOR TO INSTALL SEDIMENT BASIN 1 IN THE PROPOSED LOCATION SHOWN ON SHEET C4.01 (REFER TO THIS SHEET FOR SEDIMENT BASIN-1 INFORMATION).
 - CONTRACTOR TO INSTALL TEMPORARY DIVERSION DITCH 1 AND TEMPORARY DIVERSION DITCH 4, SLOPE DRAIN 1, AND TEMPORARY 12" BERMS IN THE PROPOSED LOCATION SHOWN ON SHEET C4.01.
 - CONTRACTOR TO STABILIZE SIDE SLOPES OF DIVERSION DITCHES AND SEDIMENTATION BASIN WITHIN SEVEN DAYS. SEE NPDES STABILIZATION PLAN FOR SLOPE STABILIZATION TIME FRAMES SHEET C4.00.

PHASE 2:

- CONTRACTOR TO INSTALL SEDIMENT BASIN 2 IN THE LOCATION SHOWN ON SHEET C4.02.
- CONTRACTOR TO STABILIZE SIDE SLOPES OF DIVERSION DITCHES AND SEDIMENTATION BASIN WITHIN SEVEN DAYS.
- CONTRACTOR TO INSTALL TEMPORARY DIVERSION DITCH 2, TEMPORARY DIVERSION DITCH 3, SLOPE DRAINS 2 AND 3 AND TEMPORARY 12" BERMS IN LOCATIONS SHOWN ON SHEET 4.02.
- PROPOSED SILT FENCE TO BE INSTALLED ALONG THE PERIMETER OF PUMP TRACK.
- CONTRACTOR TO BEGIN ROUGH GRADING OF THE PROPOSED SITE.
- CONTRACTOR TO INSTALL STRUCTURE FES 02, FES 03 AND 15" RCP PIPE.
- CONTRACTOR TO CONTINUE ROUGH GRADING. INSTALL REMAINING SITE FEATURES, (UTILITIES, CURB & GUTTER, ETC).
- ONCE STORM SYSTEM IS INSTALLED TO 100%, INSTALL INLET PROTECTION AROUND ALL STRUCTURES.
- STABILIZE SITE TO APPROXIMATE 90% PERMANENT GROUND COVER.
- REMOVE SEDIMENT BASIN (SB2), INLET PROTECTION AND ALL OTHER EROSION CONTROL MEASURES. UPON DECOMMISSIONING OF PHASE 2 SEDIMENT BASIN, PUMP DOWN STANDING WATER IN FEATURE USING SEDIMENT FILTER BAG AND DISPOSE BY MEANS DEEMED ACCEPTABLE BY THE ENGINEER.

TEMPORARY SEEDBED PREPARATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO SIX INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE ADMIXTURE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.

SEEDBED PREPARATION:

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONED, IF AVAILABLE.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY ALL AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL. (SEE BELOW).
- CONTINUE TILLAGE UNTIL A WELL PULVERIZED, FIRM, REASONABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS PREPARED.
- SEED ON A FRESHLY PREPARED SEED BED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESENDING WITHIN THE PLANTING SEASON. IF POSSIBLE, IF STAND SHOULD BE OVER 50% DAMAGED , REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES AND LANDSCAPING PLANS.
- SEE LANDSCAPING PLANS FOR PERMANENT SEEDING, MULCHING, AND FERTILIZING RATES. ALL AREAS NOT DESIGNATED TO RECEIVE PLANTS SHALL BE SEEDDED PER THE LANDSCAPING PLANS.

ADMIXTURES

AGRICULTURAL LIMESTONE: 2 TONS/ACRE
FERTILIZER: 1,000 LBS/ACRE - 10-10-10
SUPERPHOSPHATE: 500 LBS/ACRE - 20% ANALYSIS
MULCH: 2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR: ASPHALT EMULSION AT 300 GALS/ACRE

NPDES STORMWATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES (NCGO1)
NCDENR/DIVISION OF WATER QUALITY

NEW STABILIZATION TIMEFRAMES
(EFFECTIVE AUG. 3, 2011)

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 ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES (Max 3:1)

DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE 25 LBS/ACRE
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

SLOPES (3:1 to 2:1)

DATE	TYPE	PLANTING RATE
MAR 1 - JUN 1	***BROWNTOP MILLET	50 LBS/ACRE
(MAR 1 - APR 15)	ADD TALL FESCUE OR ADD HULLED COMMON BERMUDAGRASS	120 LBS/ACRE (MAR 1 - JUN 30) 25 LBS/ACRE
JUN 1 - SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE
SEP 1 - MAR 1	ANNUAL RYE AND TALL FESCUE AND ABRUZZI RYE	70 LBS/ACRE 120 LBS/ACRE (NOV 1 - MAR 1) 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

***TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

SKIMMER SEDIMENTATION BASIN SIZING

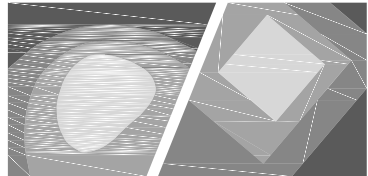
BASIN ID	BASIN GEOMETRY									OUTLET		SKIMMER CHARACTERISITCS			SURFACE AREA (SF)		VOLUME (CF)		DEWATERING TIME
	BOTTOM		TOP		SURFACE		DAM HEIGHT	SIDE SLOPES	STORAGE DEPTH	STONE WIDTH	SIDE SLOPES	SIZE	HEAD	ORIFICE	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH													
Sed Basin 1	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	1.00 in	1,068	2,207.00	2,448.00	2,202.00	2 days
Sed Basin 2	13.0 ft	38.0 ft	31.0 ft	56.0 ft	25.0 ft	50.0 ft	4.5 ft	2:1	3.0 ft	4.0 ft	2:1	3.0 in	0.3 ft	0.75 in	1,288	2,802.00	2,952.00	4,203.00	6 days

DIVERSION DITCH SIZING

Channel	Bottom Width (Y)	Sideslope (M)	Top Width (W)	Lining	Channel Depth (FT)	Velocity
DD-01	0.00 FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.65 FT	4.97 FT/S
DD-02	0.00 FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.65 FT	3.88 FT/S
DD-03	0.00 FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.65 FT	2.97 FT/S
DD-04	0.00 FT	2 :1	4 FT	STRAW SINGLE NET BLANKET	0.45 FT	3.29 FT/S

NOTE: NCDEQ TO REVIEW

TOTAL AREA OF DISTURBANCE
6.50 AC



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

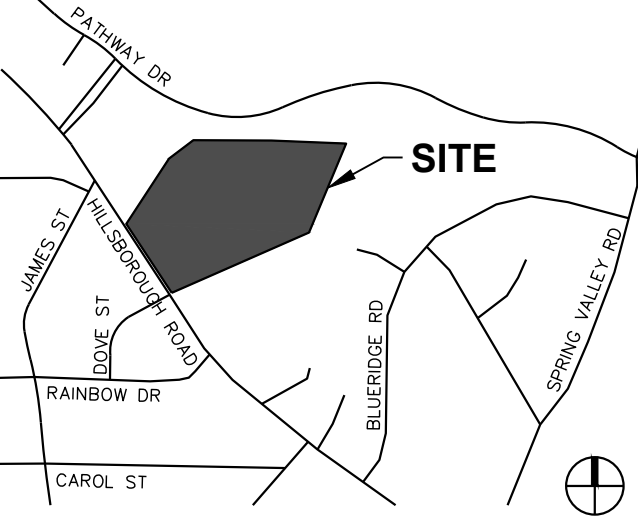
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



Seal:



Issued for:

CONSTRUCTION
DOCUMENTS

No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	09.18.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS

SCALE: N.T.S.

Title:

EROSION CONTROL
NOTES

Project number: C16146 Sheet:

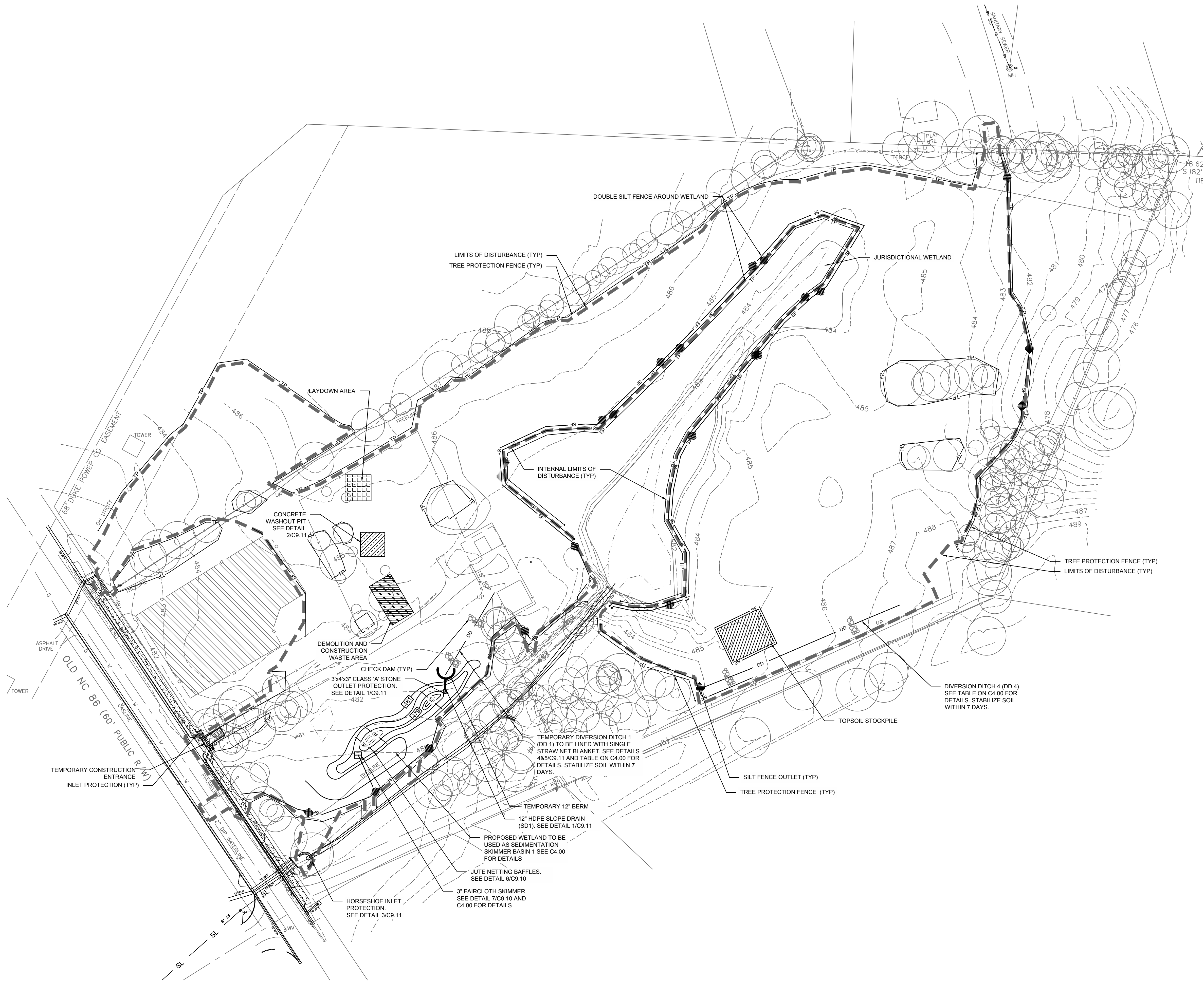
Date: 12.04.2017

Drawn by: CJJ

Approved by: JWP

C4.00

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C4.00-Erosion Control.dwg Jan 12, 2018 - 8:11am



EROSION CONTROL LEGEND

- SF SILT FENCE
- TP TREE PROTECTION
- DD DIVERSION DITCH
- LIMITS OF DISTURBANCE
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- BLOCK AND GRAVEL INLET PROTECTION
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- CE TEMPORARY CONSTRUCTION ENTRANCE
- SLOPE DRAIN

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS



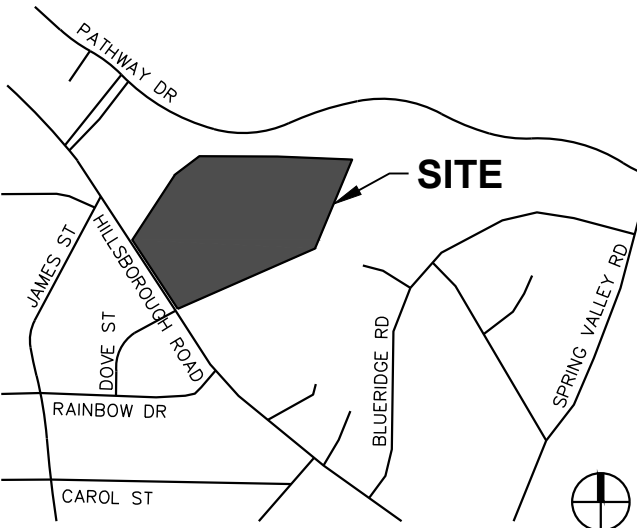
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



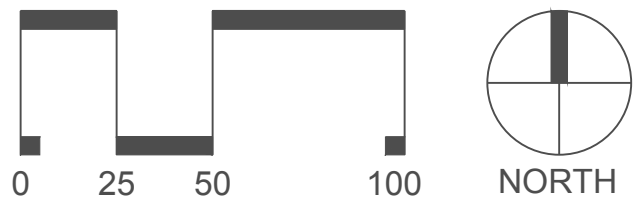
Seal:



Issued for:

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



SCALE: 1"=50'

Title:

EROSION CONTROL PHASE 1

NOTE: NCDEQ TO REVIEW

TOTAL AREA OF DISTURBANCE
6.50 AC

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: NBC
Approved by: JWP

C4.01

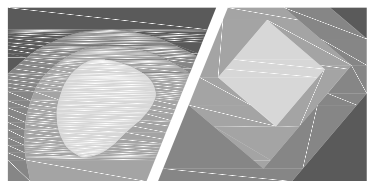
Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C4.00-Erosion Control.dwg Jan 12, 2018 - 8:11am



EROSION CONTROL LEGEND

- SF SILT FENCE
- TP TREE PROTECTION
- DD DIVERSION DITCH
- LIMITS OF DISTURBANCE
- C HORSE SHOE INLET PROTECTION
- ◆ SILT FENCE OUTLET
- CD CHECK DAM
- IP BLOCK AND GRAVEL INLET PROTECTION
- FES FLARED END SECTION (FES)
- ST SEDIMENT TRAP
- RIP RIPRAP DISSIPATER
- CE TEMPORARY CONSTRUCTION ENTRANCE
- SD SLOPE DRAIN

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
FIRM LICENSE # C-1051
T: (919) 380-8750 www.stewartinc.com
PROJECT # C16146

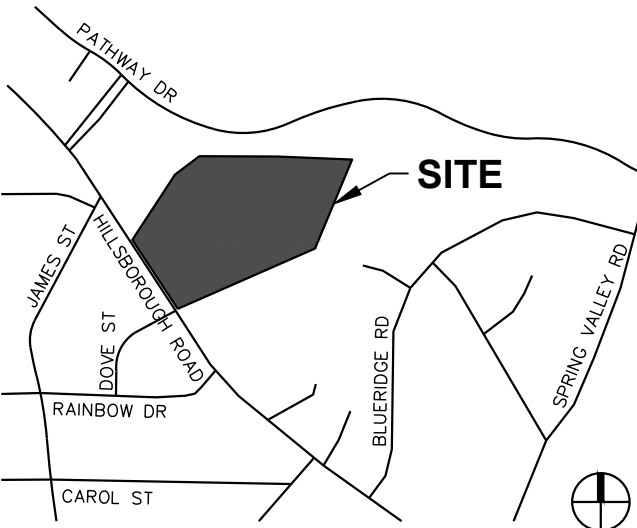
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



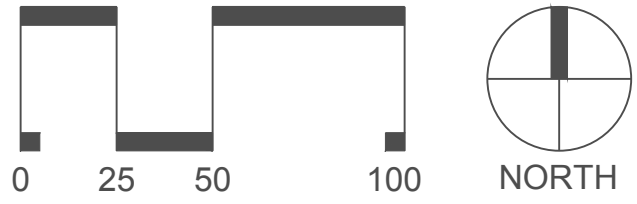
Seal:



Issued for:

CONSTRUCTION
DOCUMENTS

No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	09.18.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS



SCALE: 1"=50'

Title:

EROSION CONTROL
PHASE 2

NOTE: NCDEQ TO REVIEW

TOTAL AREA OF DISTURBANCE
6.50 AC

Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

Approved by: JWP

C4.02

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C4.00-Erosion Control.dwg Jan 12, 2018 - 8:11am



EROSION CONTROL LEGEND

- SF SILT FENCE
- TP TREE PROTECTION
- DD DIVERSION DITCH
- LIMITS OF DISTURBANCE
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- BLOCK AND GRAVEL INLET PROTECTION
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- CE TEMPORARY CONSTRUCTION ENTRANCE
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS

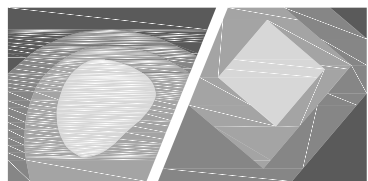
NPDES STABILIZATION LEGEND

- NPDES STABILIZATION AREA 1
- NPDES STABILIZATION AREA 2
- NPDES STABILIZATION AREA 3
- NPDES STABILIZATION AREA 4

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTION
Perimeter dikes, swales, ditches and slopes	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 are allowed
Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
All other area with slopes flatter than 4:1	14 days	None (except as shown in chart)

NOTE: NCDEQ TO REVIEW

TOTAL AREA OF DISTURBANCE
6.50 AC



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



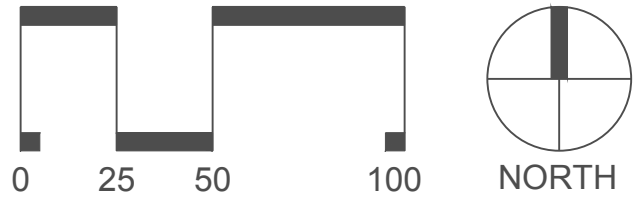
Seal:



Issued for:

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



Title:

EROSION CONTROL
NPDES PHASE I

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C4.03

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C4.00-Erosion Control.dwg Jan 12, 2018 - 8:11am



EROSION CONTROL LEGEND

- SF SILT FENCE
- TP TREE PROTECTION
- DD DIVERSION DITCH
- LIMITS OF DISTURBANCE
- Horse shoe inlet protection
- SILT FENCE OUTLET
- CHECK DAM
- Block and Gravel Inlet Protection
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- CE TEMPORARY CONSTRUCTION ENTRANCE
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS

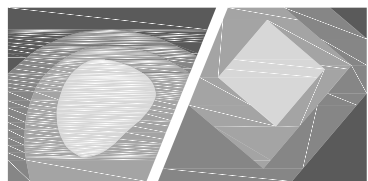
NPDES STABILIZATION LEGEND

- NPDES STABILIZATION AREA 1
- NPDES STABILIZATION AREA 2
- NPDES STABILIZATION AREA 3
- NPDES STABILIZATION AREA 4

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTION
Perimeter dikes, swales, ditches and slopes	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 are allowed
Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
All other area with slopes flatter than 4:1	14 days	None (except as shown in chart)

NOTE: NCDEQ TO REVIEW

TOTAL AREA OF DISTURBANCE
6.50 AC



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

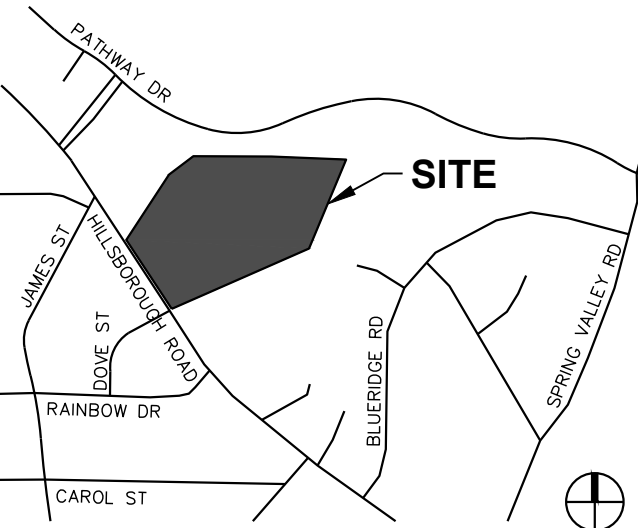
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



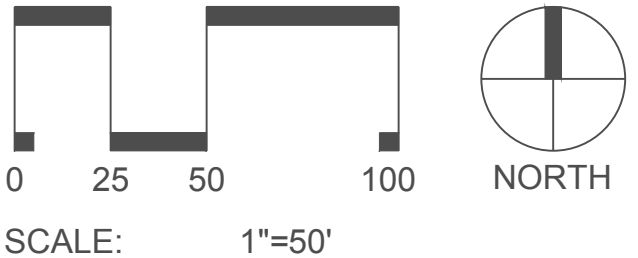
Seal:



Issued for:

CONSTRUCTION
DOCUMENTS

No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	09.18.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS



Title:

EROSION CONTROL
NPDES PHASE II

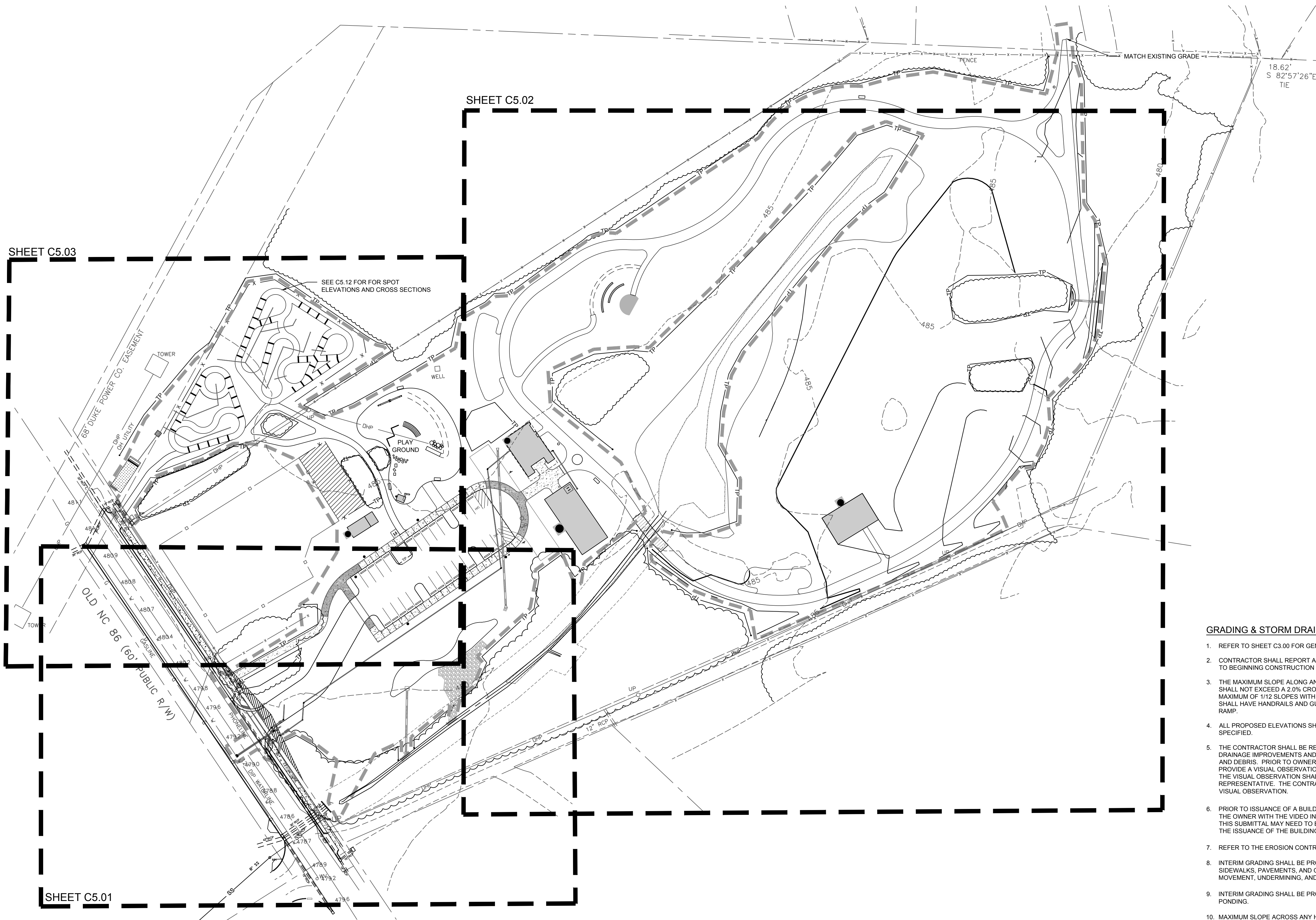
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

Approved by: JWP

C4.04



GRADING LEGEND

- 200 PROPOSED MAJOR CONTOUR
- 200 PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED STORM DRAINAGE
- PROPOSED AREA DRAIN
- PROPOSED ELEVATION
- RIPRAP DISSIPATOR
- FLOW DIRECTION
- LIMITS OF DISTURBANCE

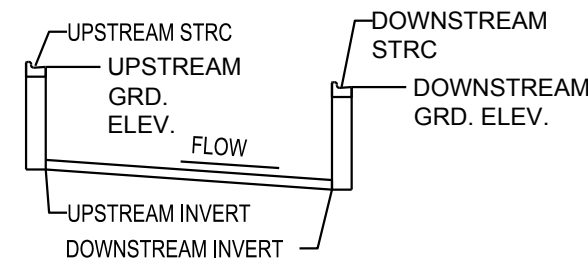
GRADING & STORM DRAINAGE NOTES:

- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% GROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1:12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP.
- ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
- PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
- REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION
- INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
- INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
- MAXIMUM SLOPE ACROSS ANY HANDICAPPED PARKING SPACE AND AISLE SHALL NOT EXCEED 2% IN ANY DIRECTION.
- PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
- SITE GRADING IMMEDIATELY ADJACENT TO FOUNDATION OF BUILDING SHALL SLOPE NOT LESS THAN 1:20 AWAY FOR MINIMUM DISTANCE OF 10 FEET. ALTERNATIVE METHOD SHALL BE PROVIDED TO DIVERT WATER AWAY FROM FOUNDATION VIA SWALES SLOPED AT A MINIMUM OF 2% OR IMPERVIOUS SURFACES SLOPED AWAY A MINIMUM OF 2% AWAY FROM BUILDING.
- CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
- CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.
- TOP OF WALL ELEVATIONS INDICATE THE ELEVATION AT THE TOP OF THE CAP, UNLESS OTHERWISE NOTED.
- BOTTOM OF WALL ELEVATIONS INDICATE THE ELEVATION OF THE FINISHED GRADE.

STORM DRAINAGE NETWORK

TYPE CODE:
AD = AREA DRAIN
FES = FLARED END
SECTION
JB = JUNCTION BOX
RI = RISER

TYPE CODE:
L-AD = AREA DRAIN
L-JB = JUNCTION BOX

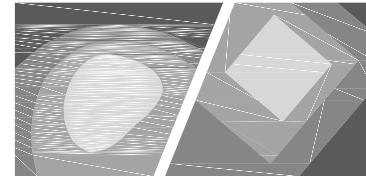


- NOTES:
- STRUCTURES WITHIN NCDOT RIGHT-OF-WAY SHALL BE TO NCDOT STANDARDS.
 - STRUCTURES NOT WITHIN RIGHT OF WAY SHALL EITHER ALL BE TO NCDOT STANDARDS OR SHALL ALL BE TO LOCAL JURISDICTIONAL STANDARDS.

PIPE TABLE								
START STRUCTURE	END STRUCTURE	START INVERT	END INVERT	SIZE	LENGTH	SLOPE	MATERIAL	
FES-03	FES-02	482.75	480.00	15"	155.36'	1.77%	HDPE	
FES-05	FES-04	480.50	480.00	15"	27.10'	1.84%	HDPE	
SCM RISER	HW-01	478.50	478.00	15"	62.52'	0.80%	HDPE	

* ALL STORMWATER PIPES TO BE CLASS IV O-RING GASKET

STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
FES-02	RIM = 481.94 INV IN = 480.00	Pipe 3, 15" RCP INV IN = 480.00	
FES-03	RIM = 484.69 INV OUT = 482.75		Pipe 3, 15" RCP INV OUT = 482.75
FES-04	RIM = 481.94 INV IN = 480.00	Pipe 5, 15" RCP INV IN = 480.00	
FES-05	RIM = 482.44 INV OUT = 480.50		Pipe 5, 15" RCP INV OUT = 480.50
HW-01	RIM = 478.90 INV IN = 478.00	Pipe 2, 15" RCP INV IN = 478.00	
SCM RISER	RIM = 480.92 INV OUT = 478.50		Pipe 2, 15" RCP INV OUT = 478.50



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

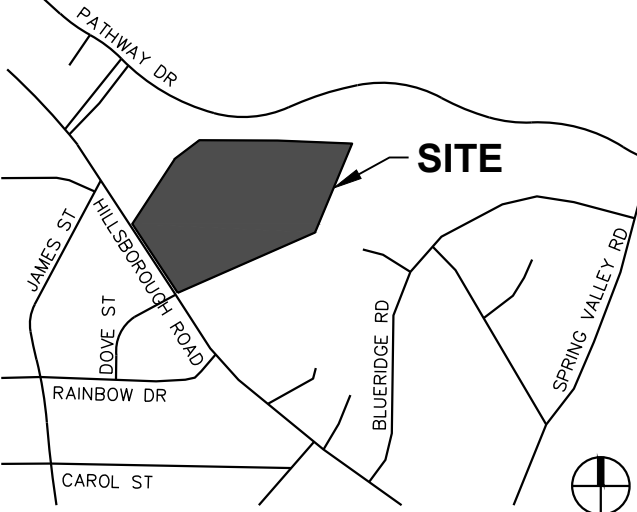
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

Vicinity map:



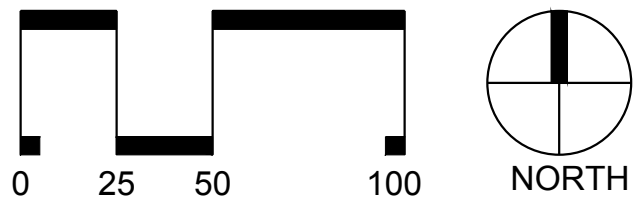
Seal:



Issued for:

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



SCALE: 1"=50'

Title:

GRADING PLAN

Project number: C16146 Sheet:

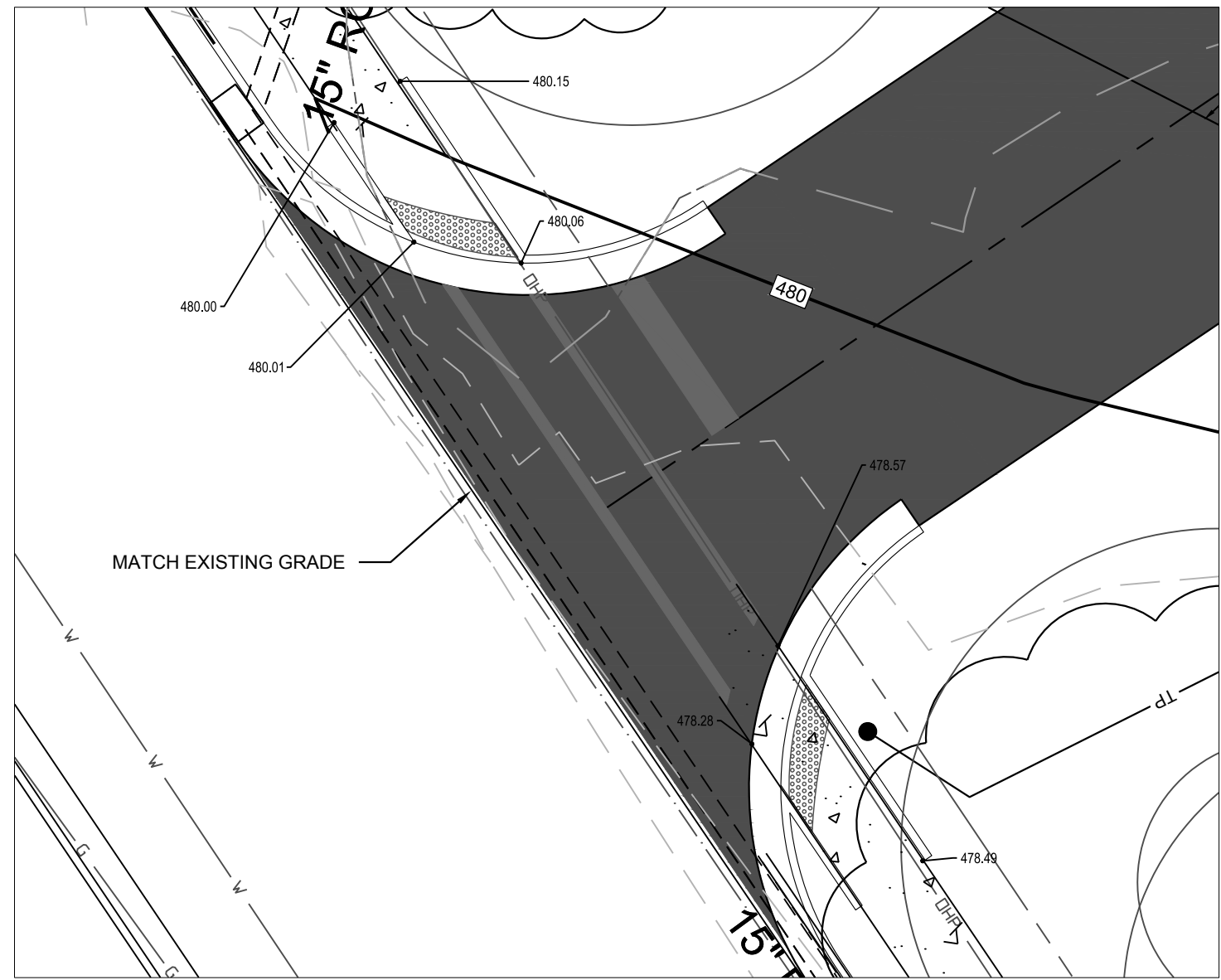
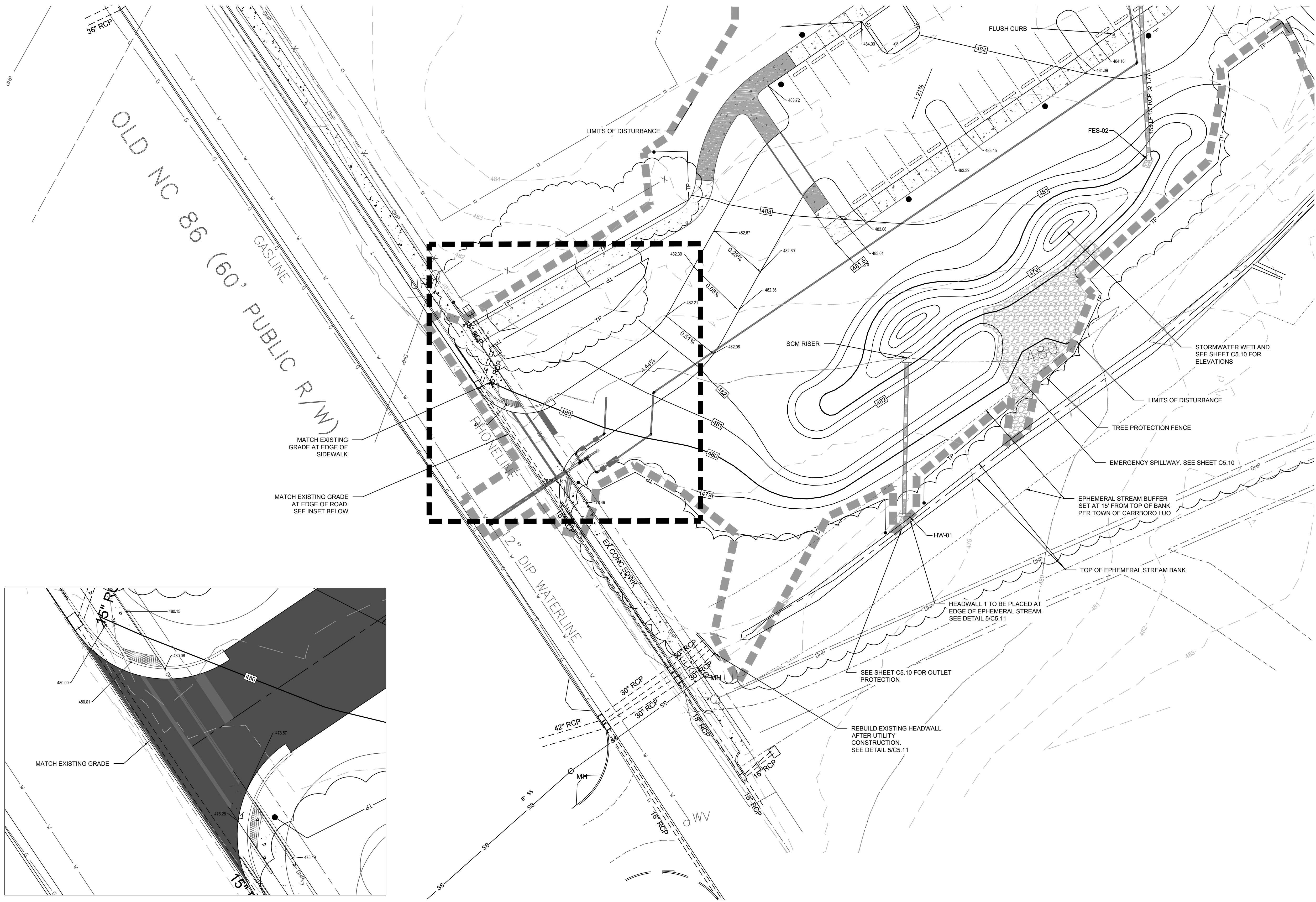
Date: 12.04.2017

Drawn by: NBC

Approved by: JWP

C5.00

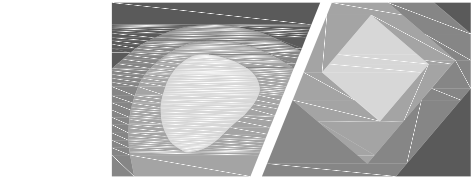
Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C5-00-Grading Plan.dwg Jan 12, 2018 - 8:11am



DRIVEWAY ENLARGEMENT
SCALE: 1"=10'

GRADING LEGEND

- 200 PROPOSED MAJOR CONTOUR
- 200 PROPOSED MINOR CONTOUR
- 200 EXISTING MAJOR CONTOUR
- 200 EXISTING MINOR CONTOUR
- PROPOSED STORM DRAINAGE
- PROPOSED AREA DRAIN
- 44.50 PROPOSED ELEVATION
- RIPRAP DISSIPATOR
- FLOW DIRECTION
- LIMITS OF DISTURBANCE



STEWART
421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

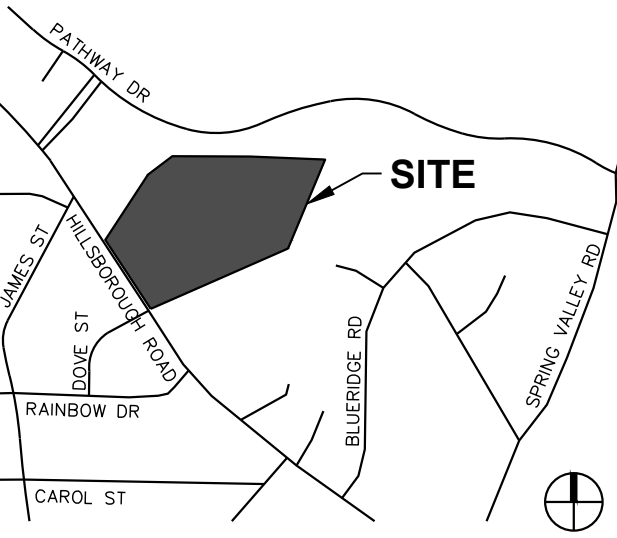
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

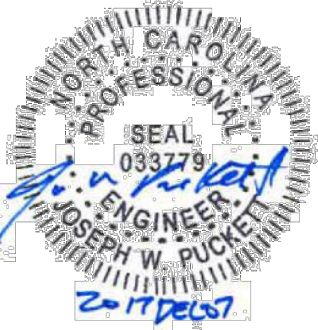
Project:

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

Vicinity map:



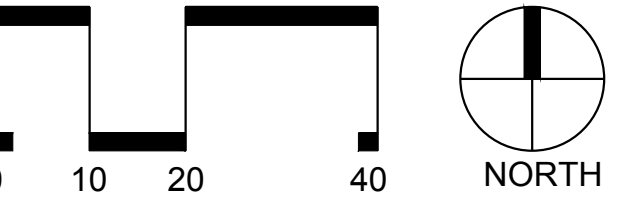
Seal:



Issued for:

**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



Title:

**GRADING PLAN
ENLARGEMENT**

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW

C5.01

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C5-00-Grading Plan.dwg Jan 12, 2018 - 8:11am



GRADING LEGEND

- 200 PROPOSED MAJOR CONTOUR
- 200 PROPOSED MINOR CONTOUR
- 200 EXISTING MAJOR CONTOUR
- 200 EXISTING MINOR CONTOUR
- PROPOSED STORM DRAINAGE
- PROPOSED AREA DRAIN
- 44.50 PROPOSED ELEVATION
- RIPRAP DISSIPATOR
- FLOW DIRECTION
- LIMITS OF DISTURBANCE

STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

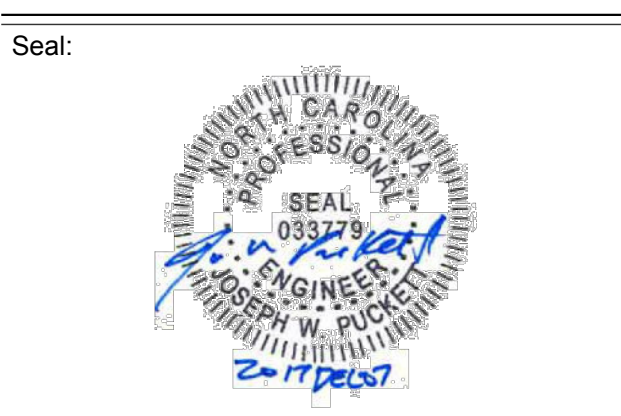
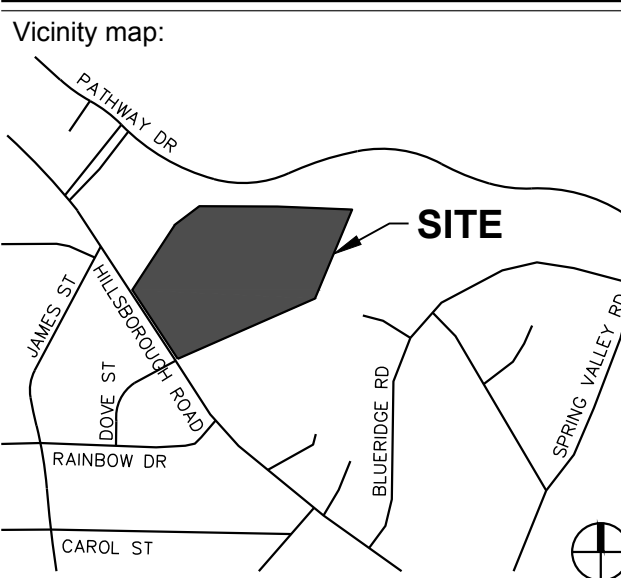
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

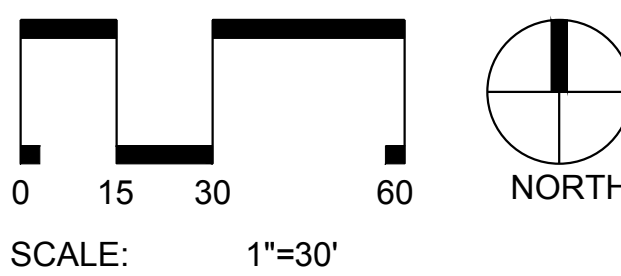
**DR. MARTIN
LUTHER KING, JR.
PARK**



Issued for:

**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



Title:

**GRADING PLAN
ENLARGEMENT**

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JLW

C5.02



421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE #: C-105
www.stewartinc.com
PROJECT #: C1614F

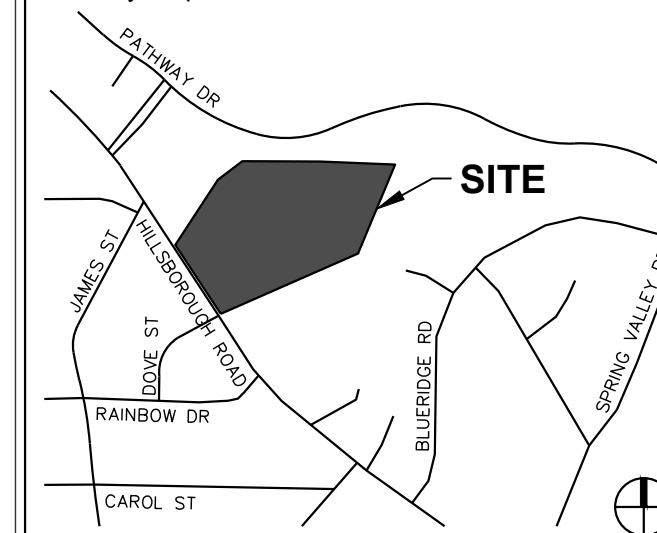
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

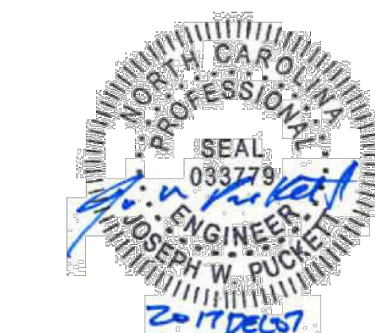
Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:

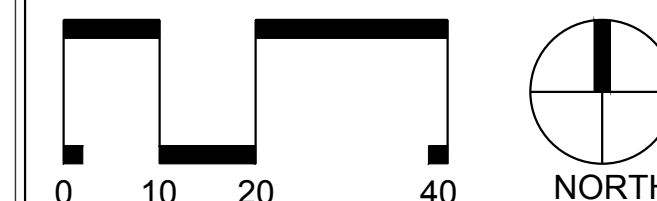


Seal



Issued for:

CONSTRUCTION
DOCUMENTS

[illegible]

Title:

GRADING PLAN ENLARGEMENT

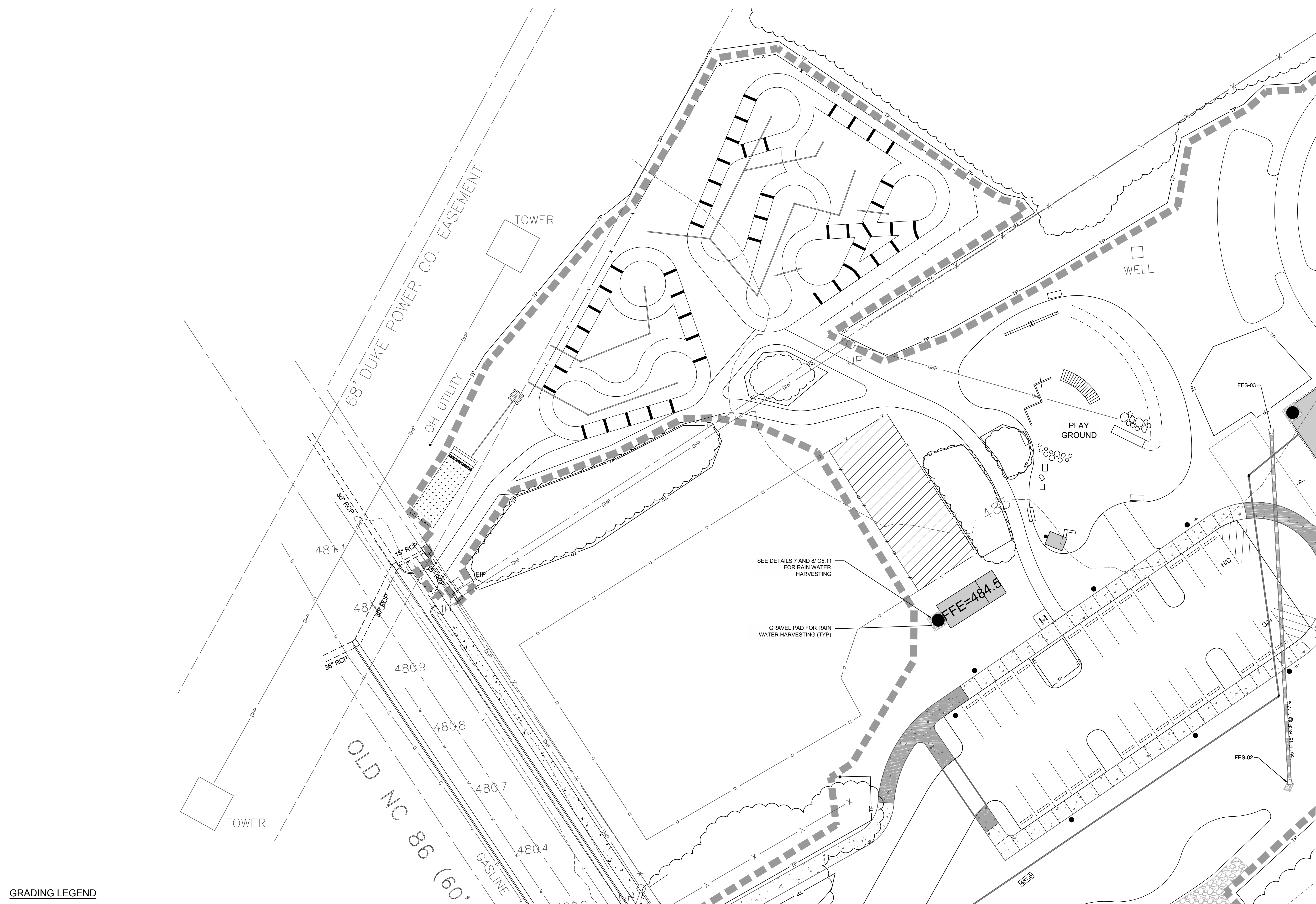
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

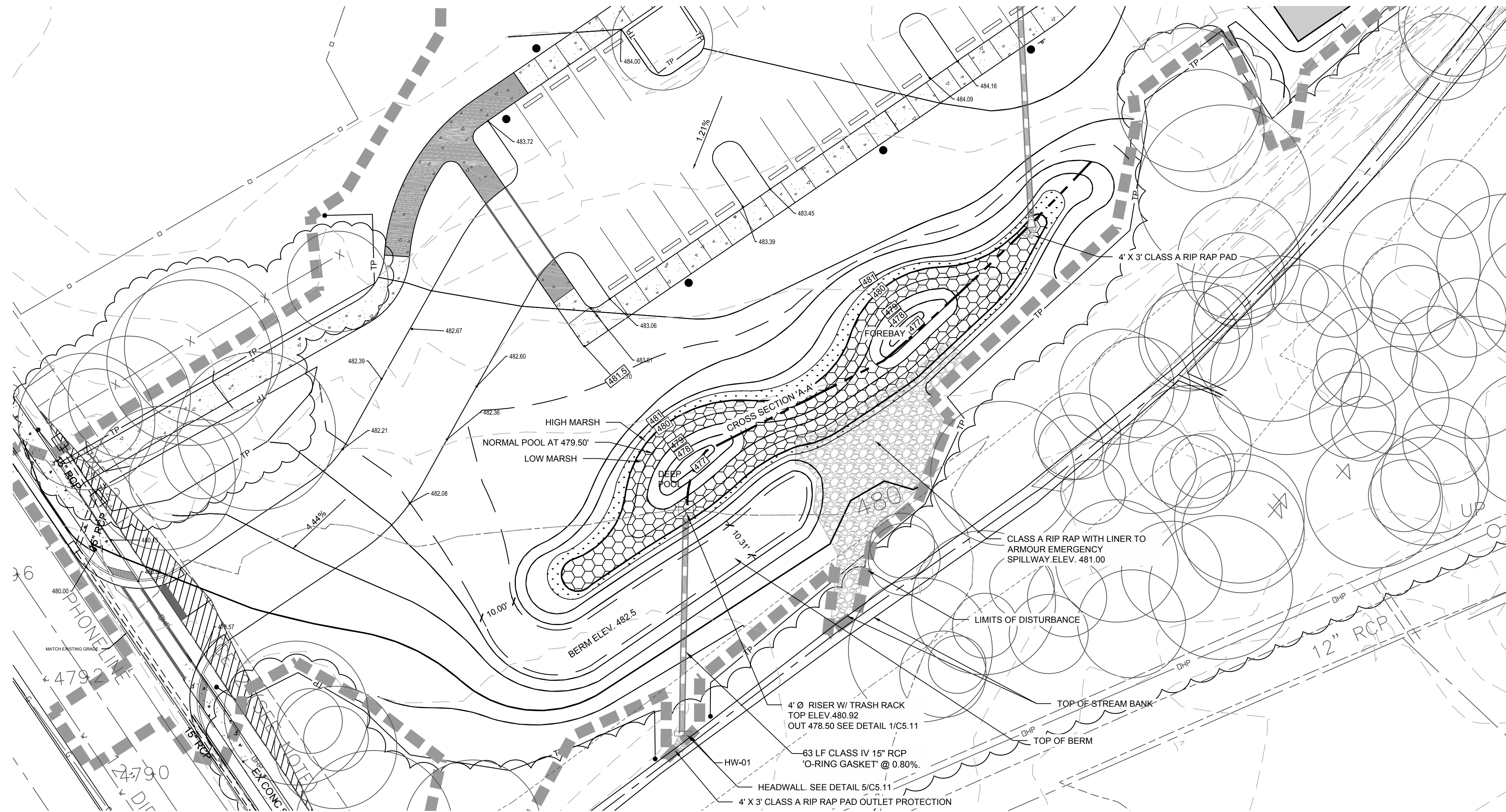
Approved by: J.L.W.

C5.03

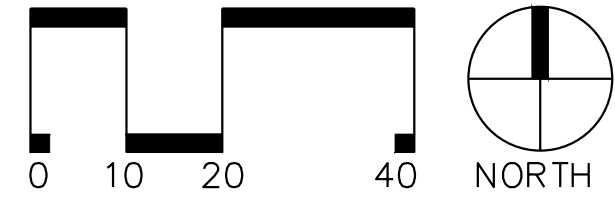


GRADING LEGEND

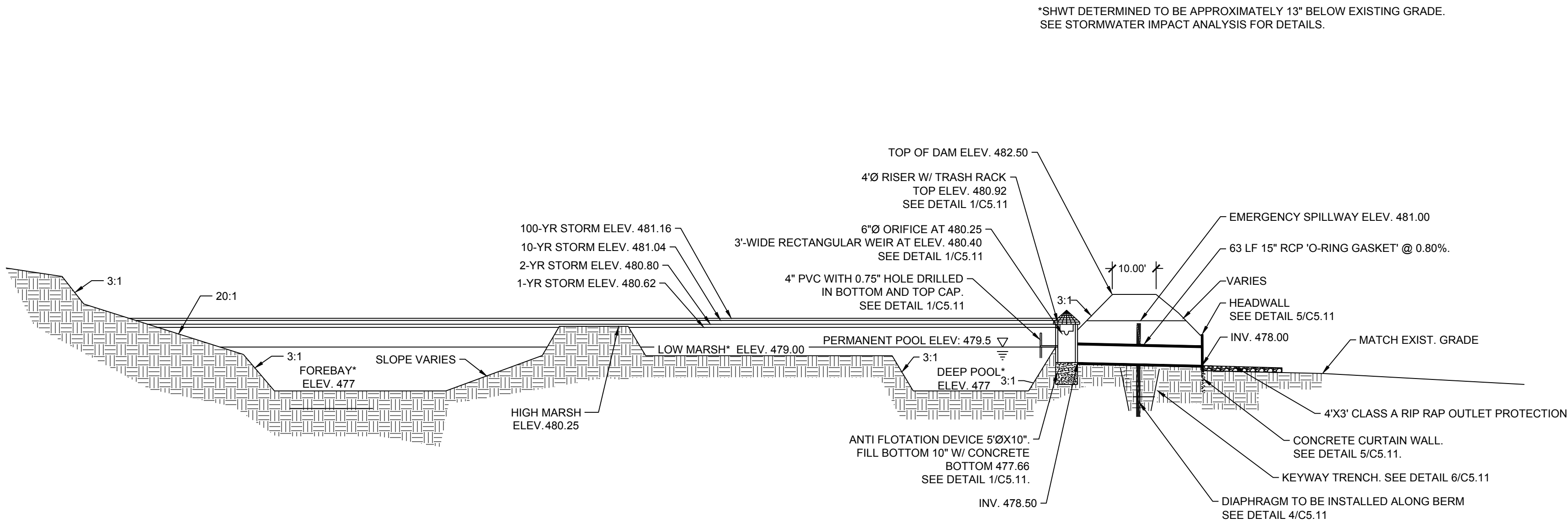
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED STORM DRAINAGE
	PROPOSED AREA DRAIN
	PROPOSED ELEVATION
	RIPRAP DISSIPATOR
	FLOW DIRECTION
	LIMITS OF DISTURBANCE



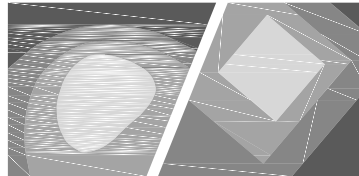
CONSTRUCTED WETLAND PLAN
SCALE: 1"=20'



- GRADING LEGEND**
- 200 PROPOSED MAJOR CONTOUR
 - 200 PROPOSED MINOR CONTOUR
 - 200 EXISTING MAJOR CONTOUR
 - 200 EXISTING MINOR CONTOUR
 - PROPOSED STORM DRAINAGE
 - PROPOSED AREA DRAIN
 - 44.50 PROPOSED ELEVATION
 - RIPRAP DISSIPATOR
 - FLOW DIRECTION
 - LIMITS OF DISTURBANCE



CONSTRUCTED WETLAND CROSS SECTION A-A'
SCALE: 1"=20' (H) / 1"=4' (V)



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

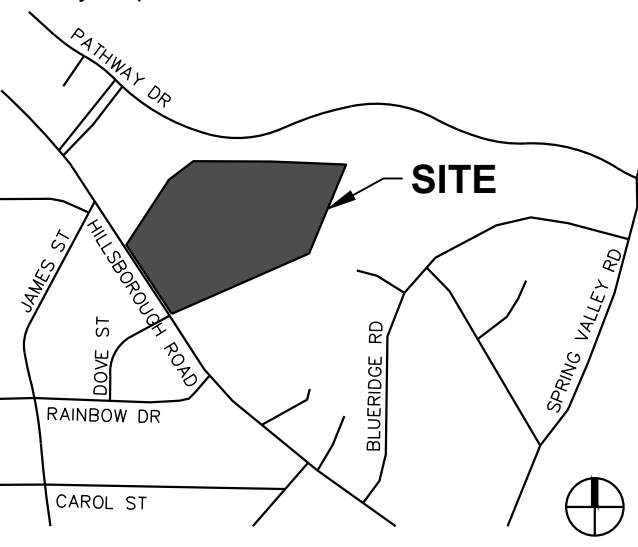
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

Vicinity map:



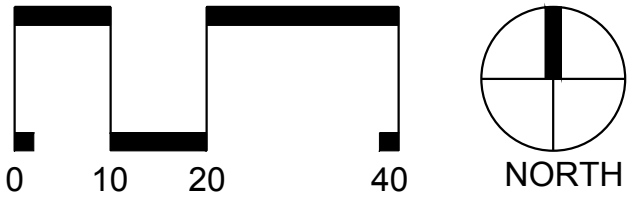
Seal:



Issued for:

**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



SCALE: 1"=20'

Title:

SCM PLAN

Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: NBC

Approved by: JWP

C5.10



Client

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



CONSTRUCTION
DOCUMENTS

SCALE: N.T.S.

Title:

SCM DETAILS

Project number: C16146 Sheet

Date: 12 04 2017

Drawn by: NBC

C5.11

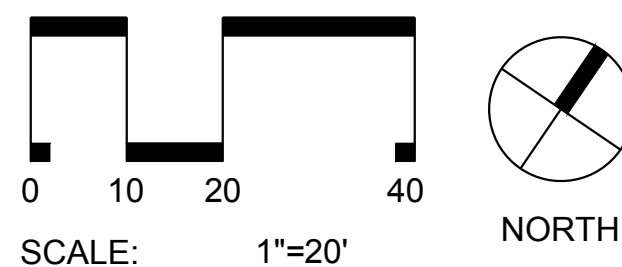


PROVIDE DRAWDOWN ORIFICE PER THE ATTACHED SPECIFICATION OR EQUIVALENT

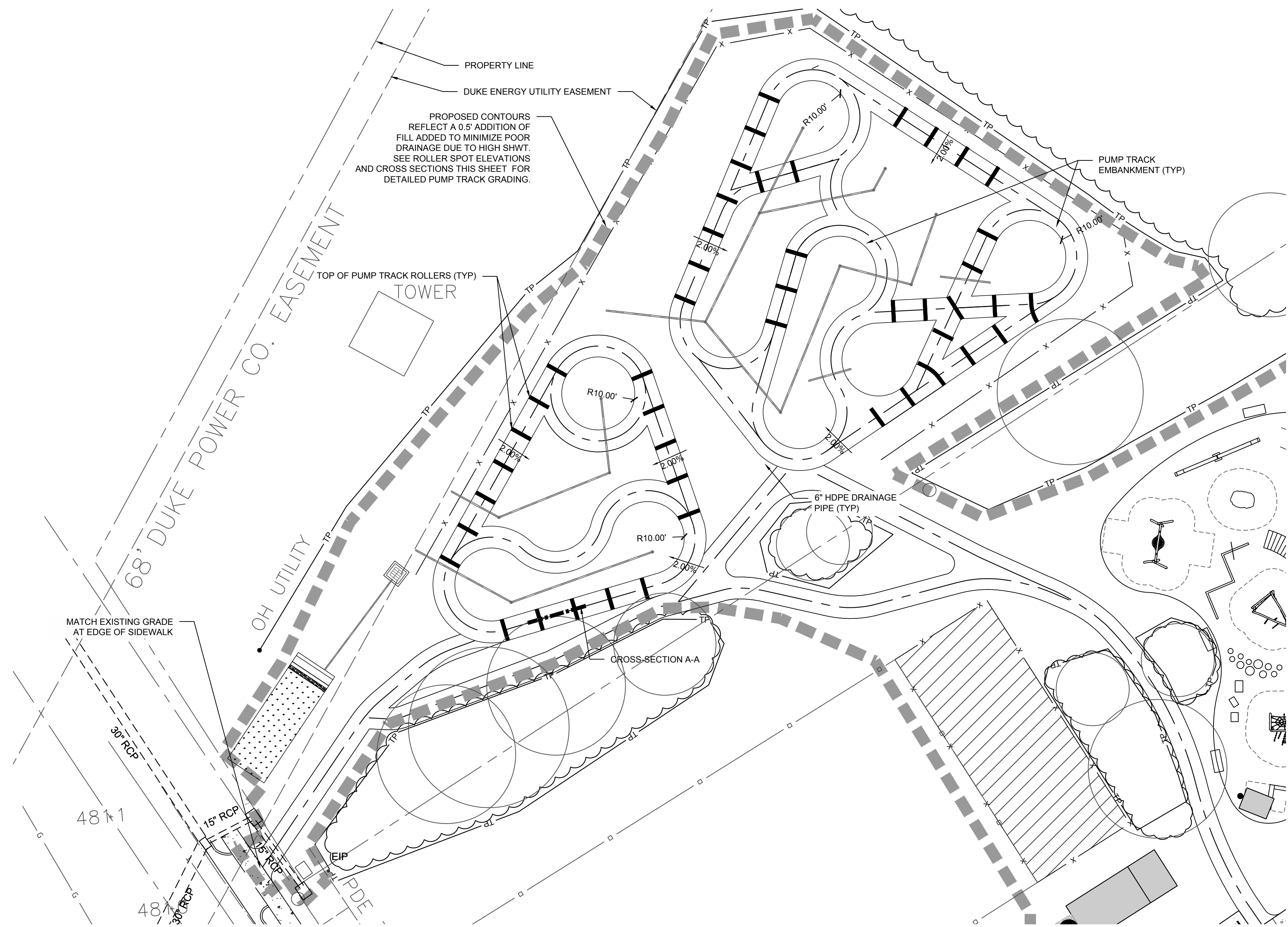
- RESTROOM - $\frac{1}{16}$ "
- GARDEN STORAGE - $\frac{1}{16}$ "
- WEST SHETER - $\frac{2}{16}$ "
- EAST SHELTER - $\frac{1}{16}$ "

SEE DETAIL 9/ C5.11 FOR DRAWDOWN LOCATIONS. ALL
DRAWDOWN ORIFICES TO BE PAIRED WITH SPLASH
BLOCK AND ALIGNED WITH CISTERN OVERFLOW PIPE.

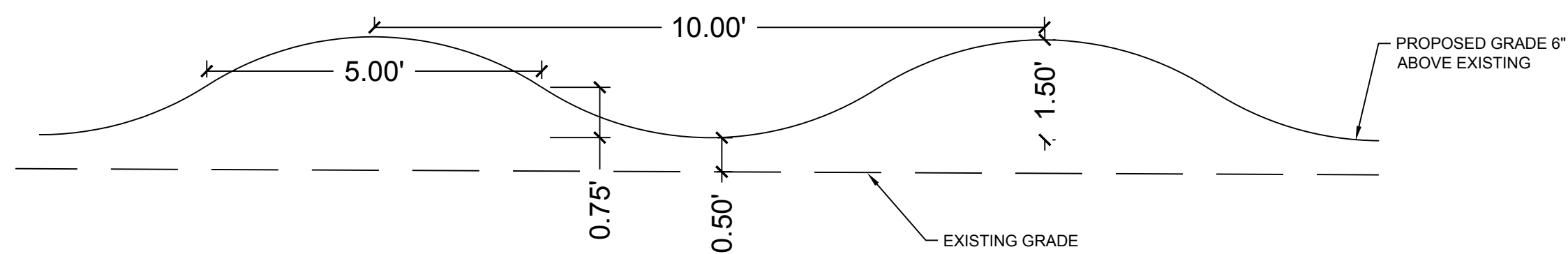
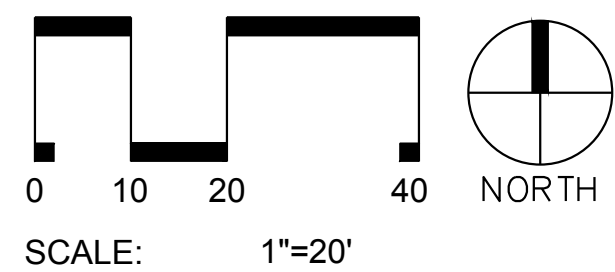
7 RAIN WATER HARVESTING DRAWDOWN ORIFICE
5.11 SCALE: N.T.S.



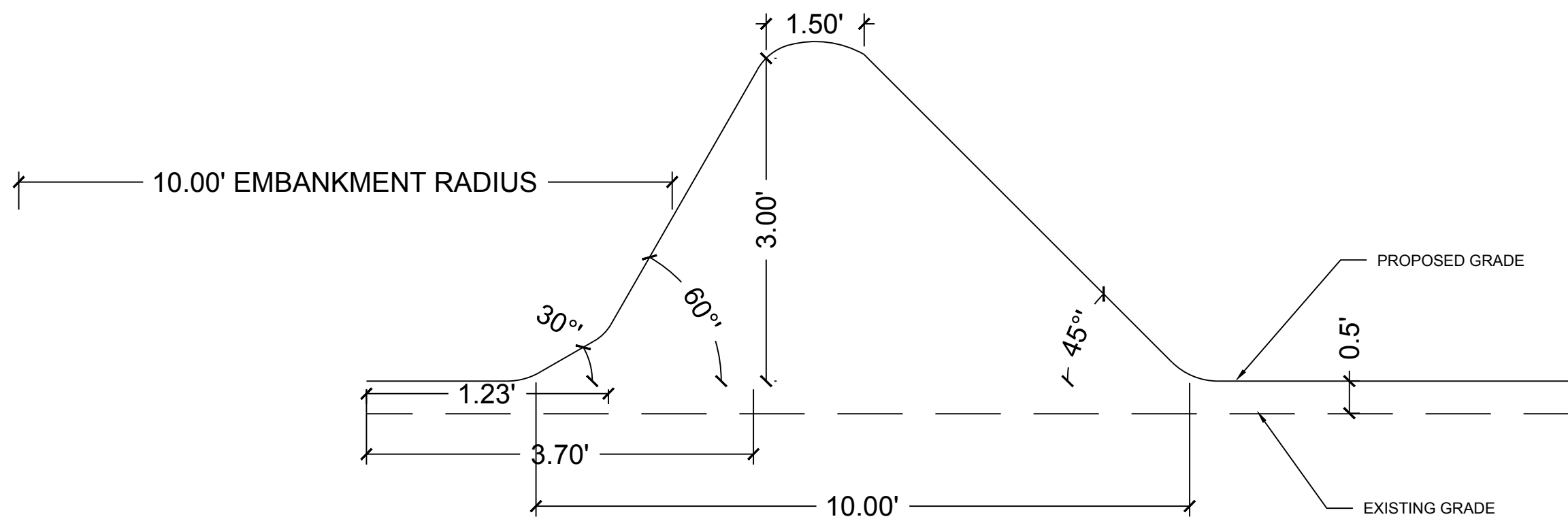
Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C5-00-Grading Plan.dwg Jan 12, 2018 - 8:12am



PUMP TRACK PLAN
SCALE: 1"=20'

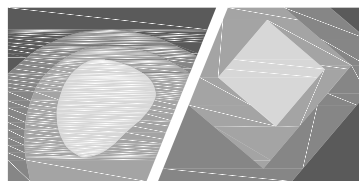


PUMP TRACK- ROLLERS CROSS-SECTION A-A
NTS



PUMP TRACK- BERM EMBANKMENT CROSS-SECTION
NTS

- GRADING LEGEND**
- 200 PROPOSED MAJOR CONTOUR
 - 200 PROPOSED MINOR CONTOUR
 - 200 EXISTING MAJOR CONTOUR
 - 200 EXISTING MINOR CONTOUR
 - PROPOSED STORM DRAINAGE
 - PROPOSED AREA DRAIN
 - 44.50 PROPOSED ELEVATION
 - RIPRAP DISSIPATOR
 - FLOW DIRECTION
 - LIMITS OF DISTURBANCE



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



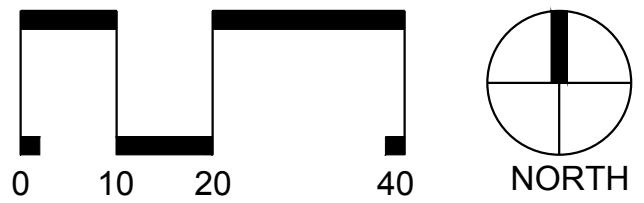
Seal:



Issued for:

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



SCALE: 1"=20'

Title:

PUMP TRACK
GRADING PLAN

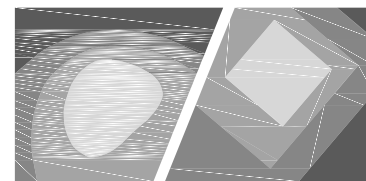
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

Approved by: JLW

C5.12



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

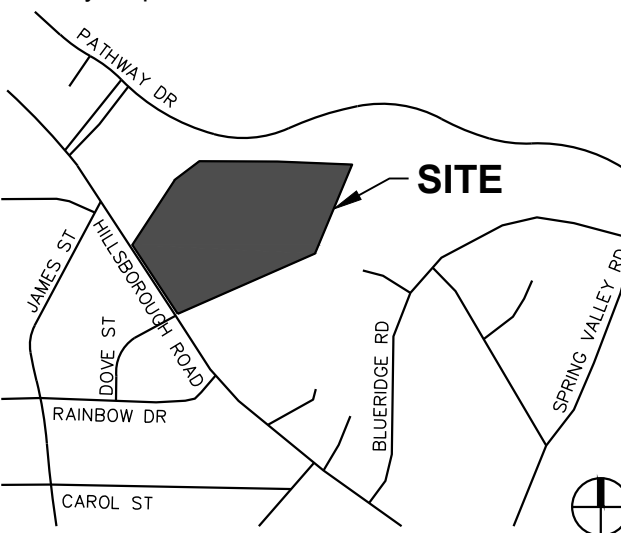
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



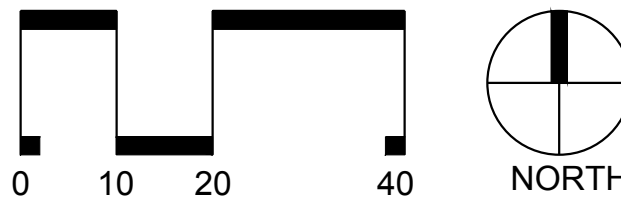
Seal:



Issued for:

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

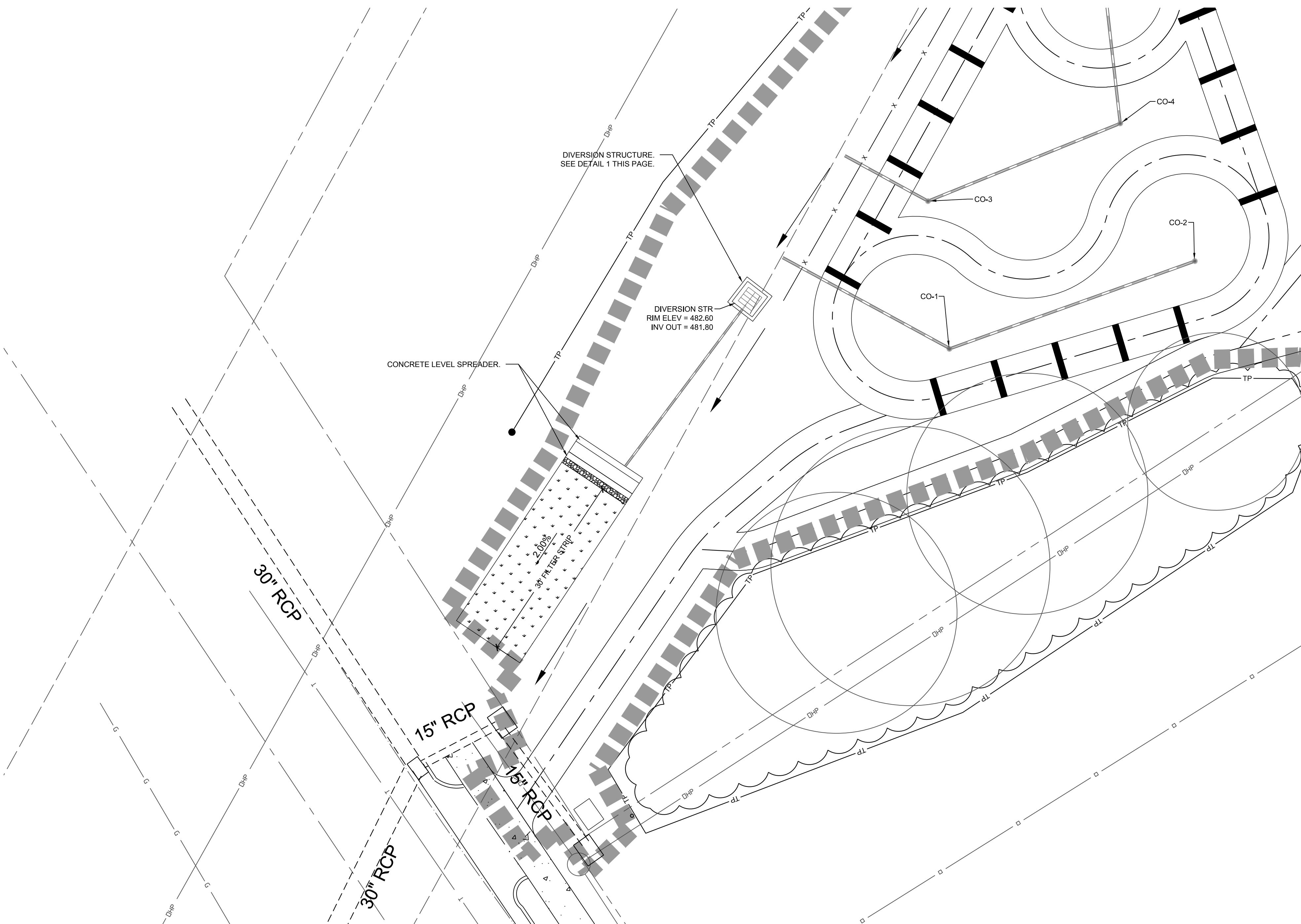


Title:

LEVEL SPREADER AND VFS DETAILS

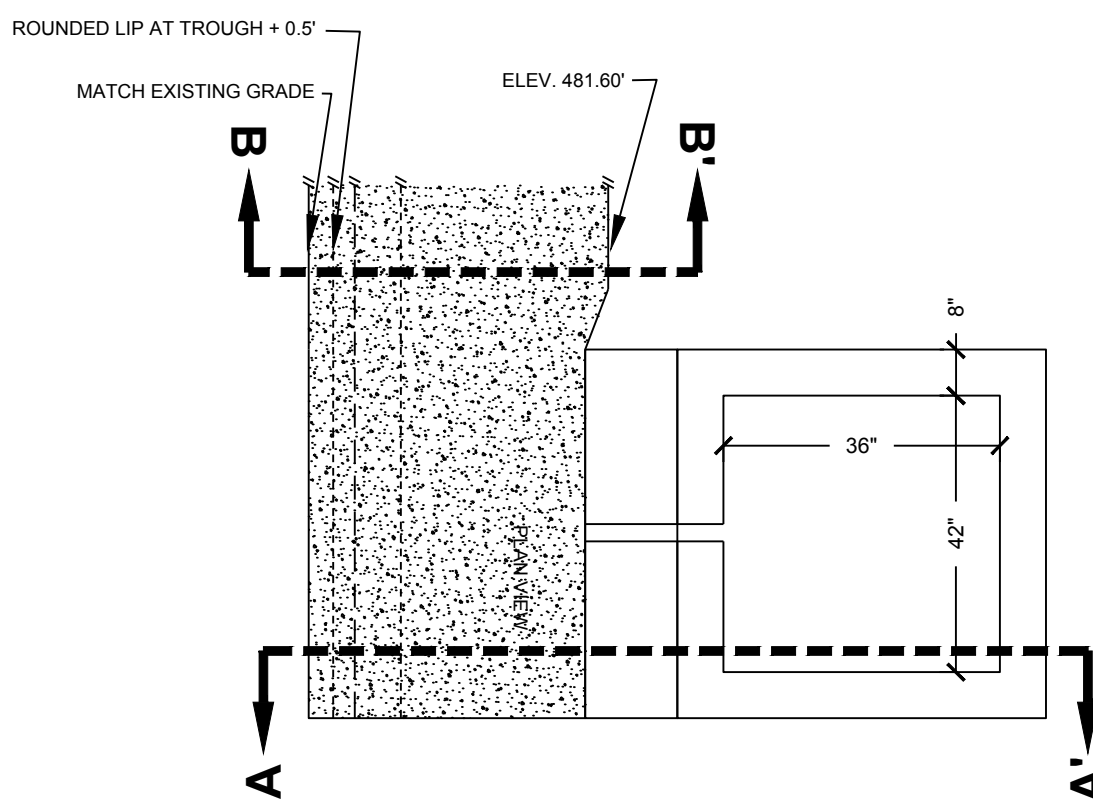
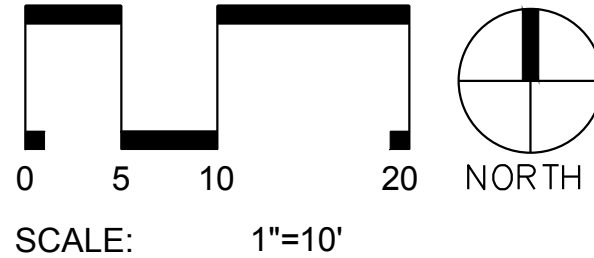
Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C5.13



PUMP TRACK LEVEL SPREADER AND VFS

SCALE: 1"=10'

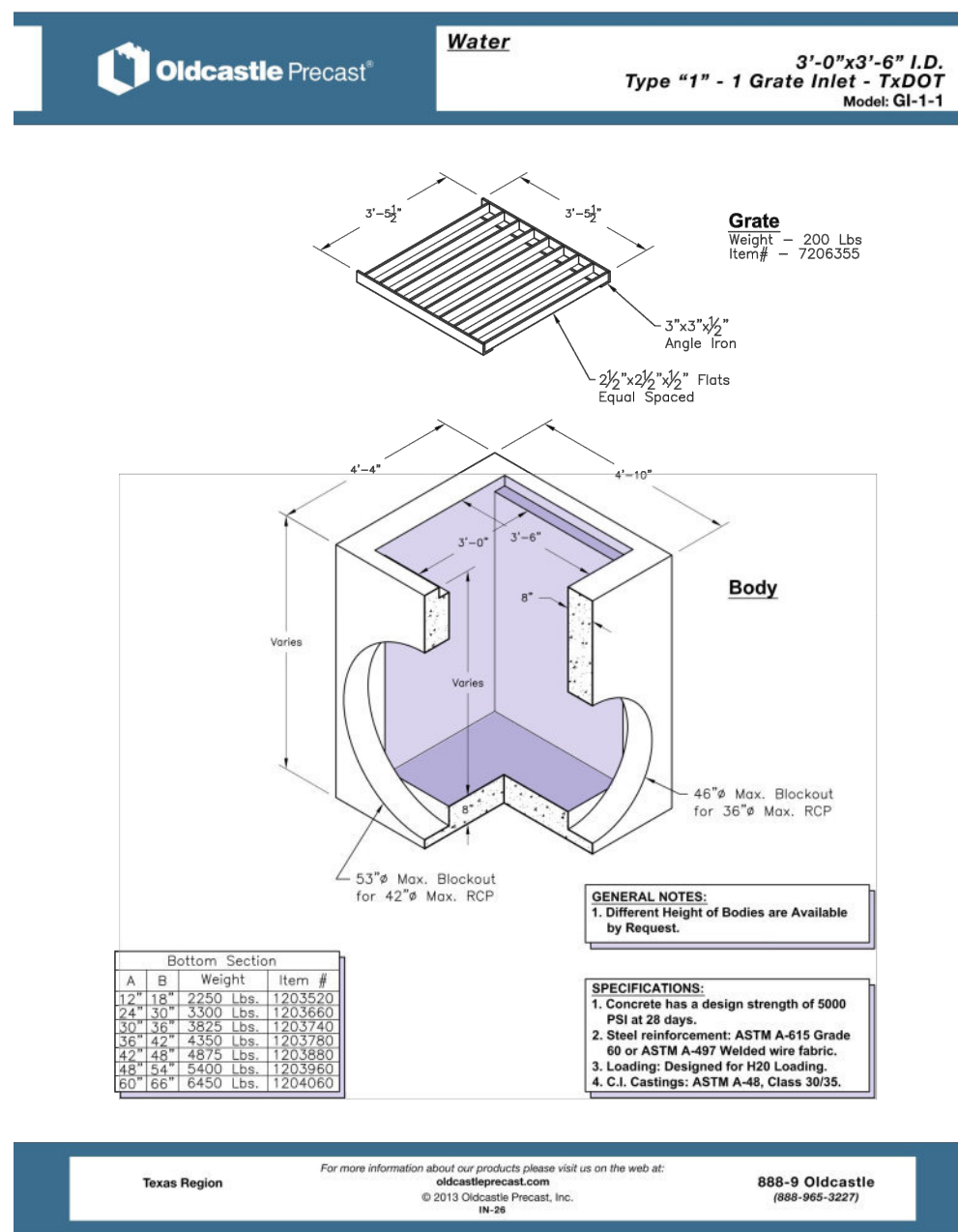


NOTES:

- USE CONCRETE MIN. 28-DAY STRENGTH EQUAL TO 3000 PSI FOR LEVEL SPREADER.
- CONSTRUCT LIP AT +0.5' HIGHER THAN TROUGH.
- CONSTRUCT LEVEL SPREADER ON UNDISTURBED SOILS. RECEIVING AREA BELOW LEVEL SPREADER SHALL BE AT EXISTING GRADE AND UNDISTURBED BY EARTHWORK OR EQUIPMENT.
- AREA UPHILL OF LEVEL SPREADER SHALL BE SEEDED AND STABILIZED IMMEDIATELY FOLLOWING LEVEL SPREADER CONSTRUCTION.

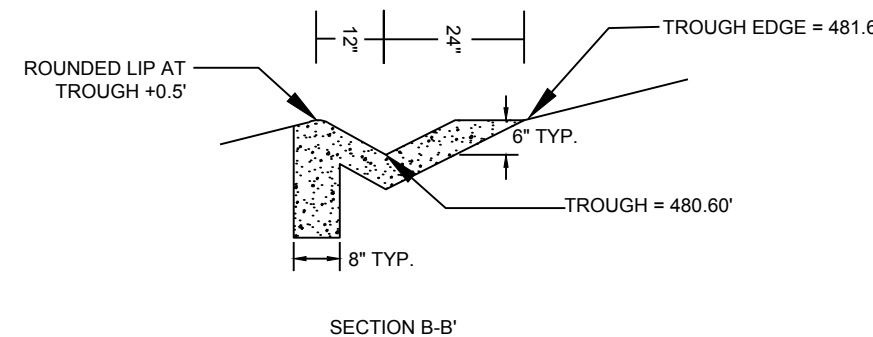
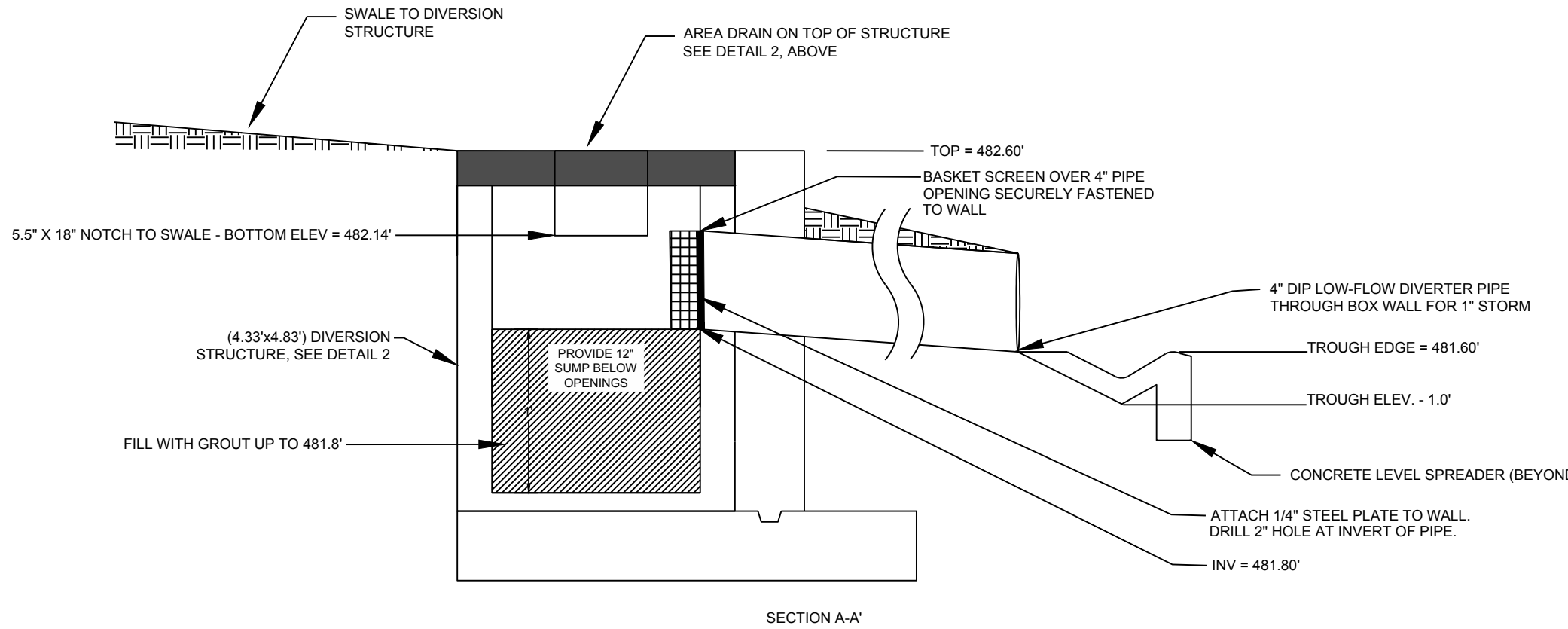
1 LEVEL SPREADER DETAIL

C5.13 SCALE: N.T.S.



2 GRATE INLET

SCALE: N.T.S.



GRADING LEGEND

- 200 PROPOSED MAJOR CONTOUR
- 200 PROPOSED MINOR CONTOUR
- 200 EXISTING MAJOR CONTOUR
- 200 EXISTING MINOR CONTOUR
- PROPOSED STORM DRAINAGE
- PROPOSED AREA DRAIN
- PROPOSED ELEVATION
- RIPRAP DISSIPATOR
- FLOW DIRECTION
- LIMITS OF DISTURBANCE

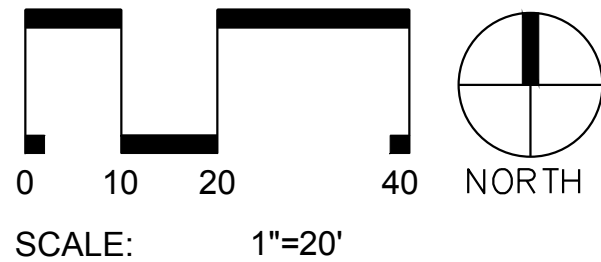
VEGETATED FILTER STRIP NOTES

- 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.
- 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.
- EXTENTS OF FILTER STRIP SHALL BE SODDED WITH TALL FESCUE GROWN IN A SANDY SOIL (NON-CLAY) TO PROMOTE INFILTRATION.
- WATER SOD FREQUENTLY IN THE FIRST THREE WEEKS AFTER INSTALLATION TO MAINTAIN MOISTURE IN THE FIRST 1.5-INCHES OF SOIL.

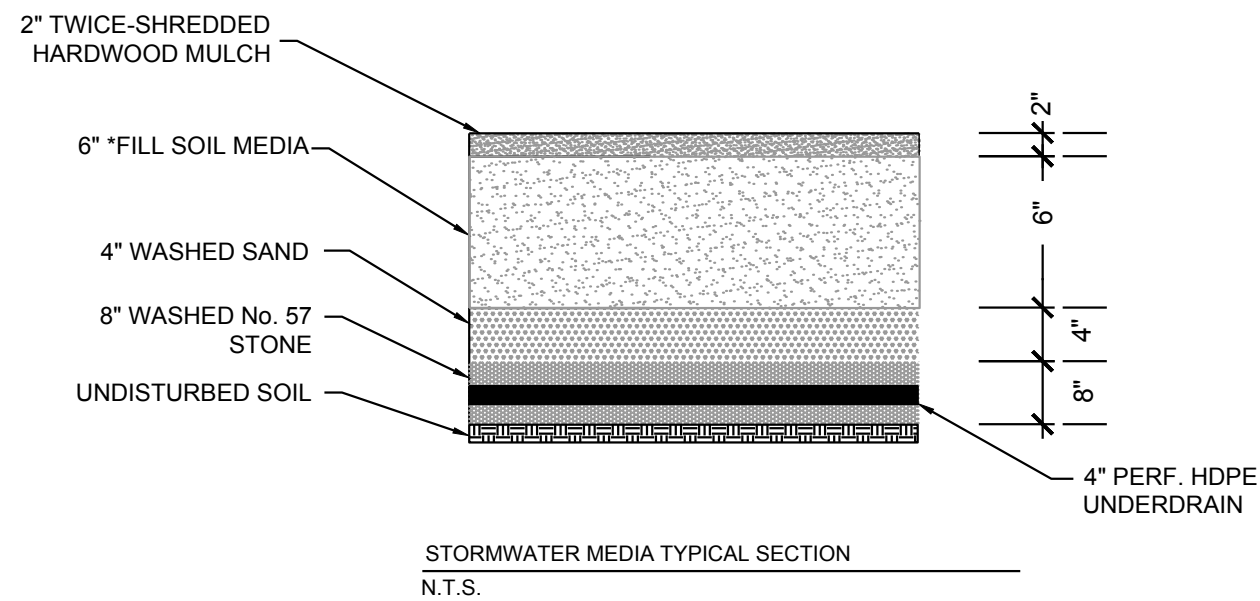
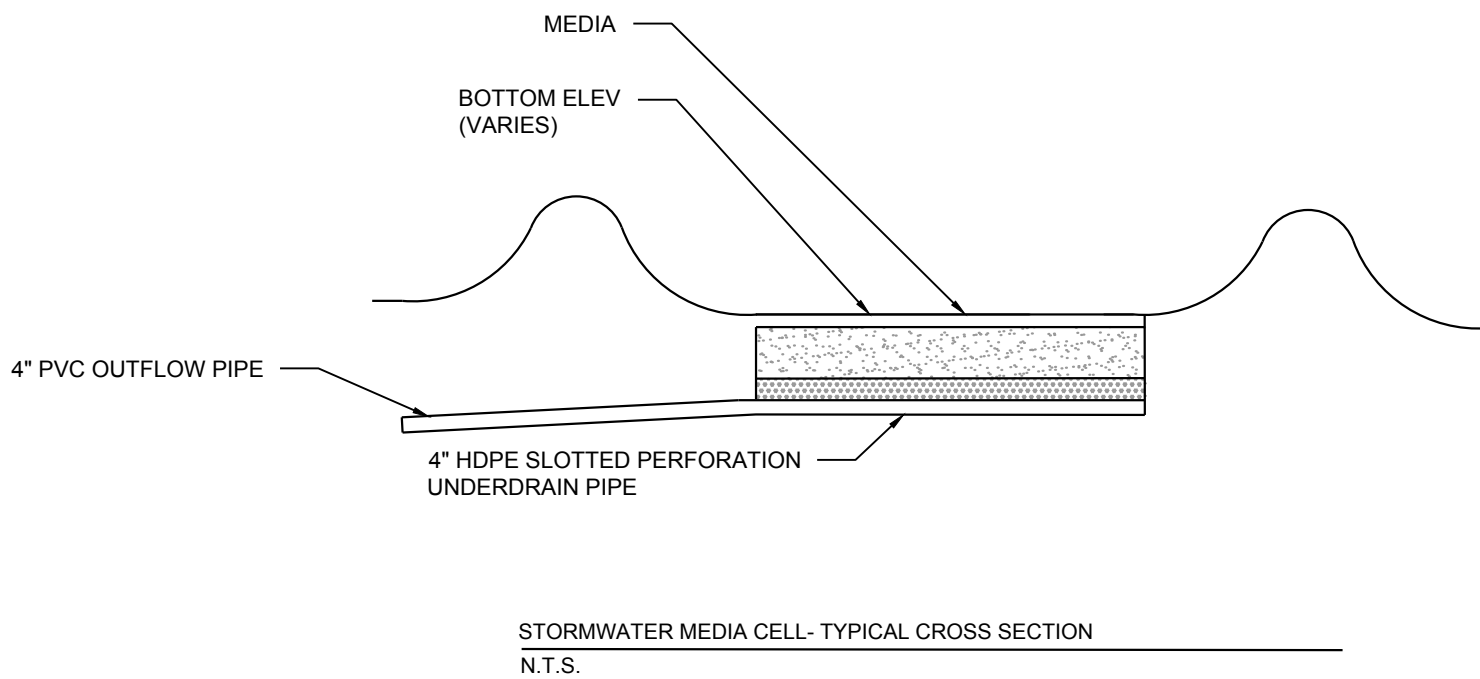
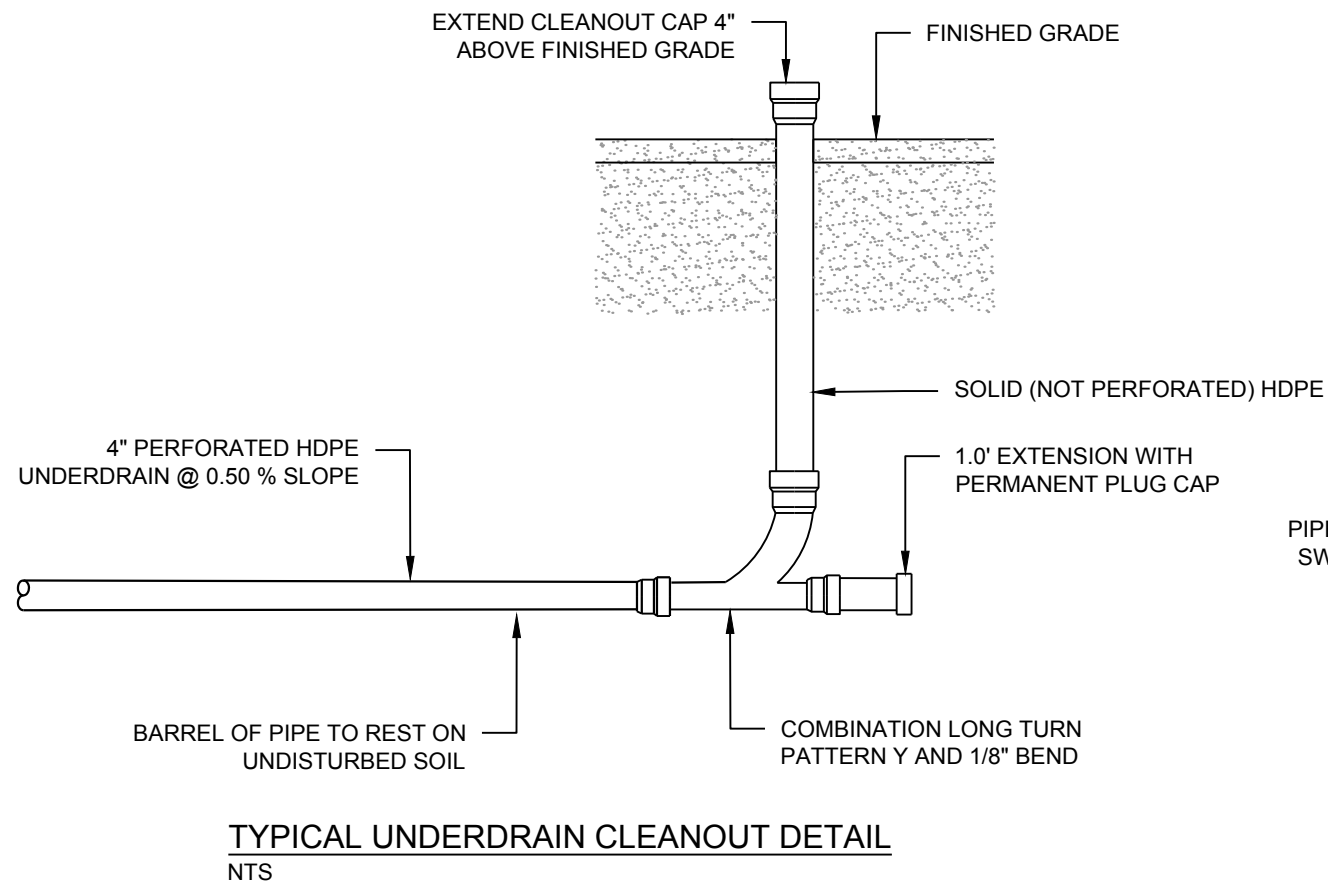
Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C5.00-Grading Plan.dwg Jan 12, 2018 - 8:12am



PUMP TRACK STORMWATER MEDIA
SCALE: 1"=20'



- GRADING LEGEND**
- 200 — PROPOSED MAJOR CONTOUR
 - 200 — PROPOSED MINOR CONTOUR
 - 200 — EXISTING MAJOR CONTOUR
 - 200 — EXISTING MINOR CONTOUR
 - PROPOSED STORM DRAINAGE
 - 44.50 — PROPOSED AREA DRAIN
 - PROPOSED ELEVATION
 - RIPRAP DISSIPATOR
 - FLOW DIRECTION
 - LIMITS OF DISTURBANCE

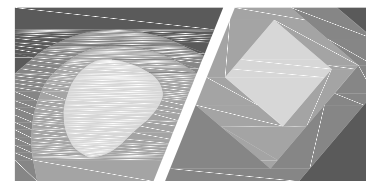


- MEDIA NOTES**
- SOIL MEDIA SHALL BE UNIFORMLY MIXED AND FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR MATERIALS GREATER THAN 2-INCHES IN ANY DIMENSION.
 - PLACE SOIL IN 12-18 INCH LIFTS WITHOUT COMPACTION. OVERFILL TO ABOUT 2-INCHES OF THE PROPOSED DESIGN ELEVATIONS TO ACCOUNT FOR SETTLEMENT.
 - MEDIA AREA TO BE COMPLETELY FREE OF SEDIMENT ACCUMULATED FROM TEMPORARY SEDIMENT TRAP PRIOR TO INSTALLATION OF MEDIA. MEDIA SHALL NOT BE INSTALLED UNTIL ENTIRE DRAINAGE AREA IS FULLY STABILIZED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF MEDIA IF CONTAMINATION WITH SILT/FINES OCCURS.

PIPE TABLE						
START STRUCTURE	END STRUCTURE	START INVERT	END INVERT	SIZE	LENGTH	SLOPE
CO-1		482.85	482.68	4"	29.90'	0.57%
CO-2	CO-1	483.15	482.85	4"	41.10'	0.73%

PIPE TABLE						
START STRUCTURE	END STRUCTURE	START INVERT	END INVERT	SIZE	LENGTH	SLOPE
CO-3		482.90	482.80	4"	14.93'	0.67%
CO-4	CO-3	483.10	482.90	4"	32.69'	0.61%
CO-5	CO-4	483.25	483.10	4"	20.42'	0.73%

PIPE TABLE						
START STRUCTURE	END STRUCTURE	START INVERT	END INVERT	SIZE	LENGTH	SLOPE
CO-11	CO-6	484.40	483.70	4"	32.25'	2.17%
CO-7	CO-6	485.00	483.70	4"	33.27'	3.91%
CO-8	CO-7	485.50	485.00	4"	26.21'	1.91%
CO-9	CO-7	486.05	485.00	4"	31.94'	3.29%
CO-10	CO-9	486.15	486.10	4"	6.68'	0.75%
CO-12	CO-11	485.10	484.45	4"	43.31'	1.50%
CO-13	CO-12	485.20	485.10	4"	20.20'	0.48%
CO-14	CO-13	485.35	485.20	4"	20.39'	0.74%



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

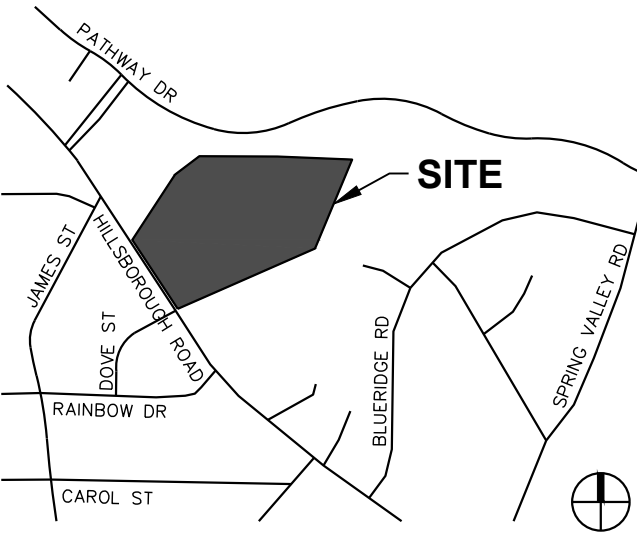
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

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

Vicinity map:



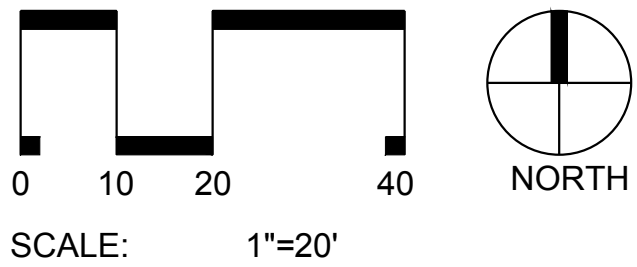
Seal:



Issued for:

**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



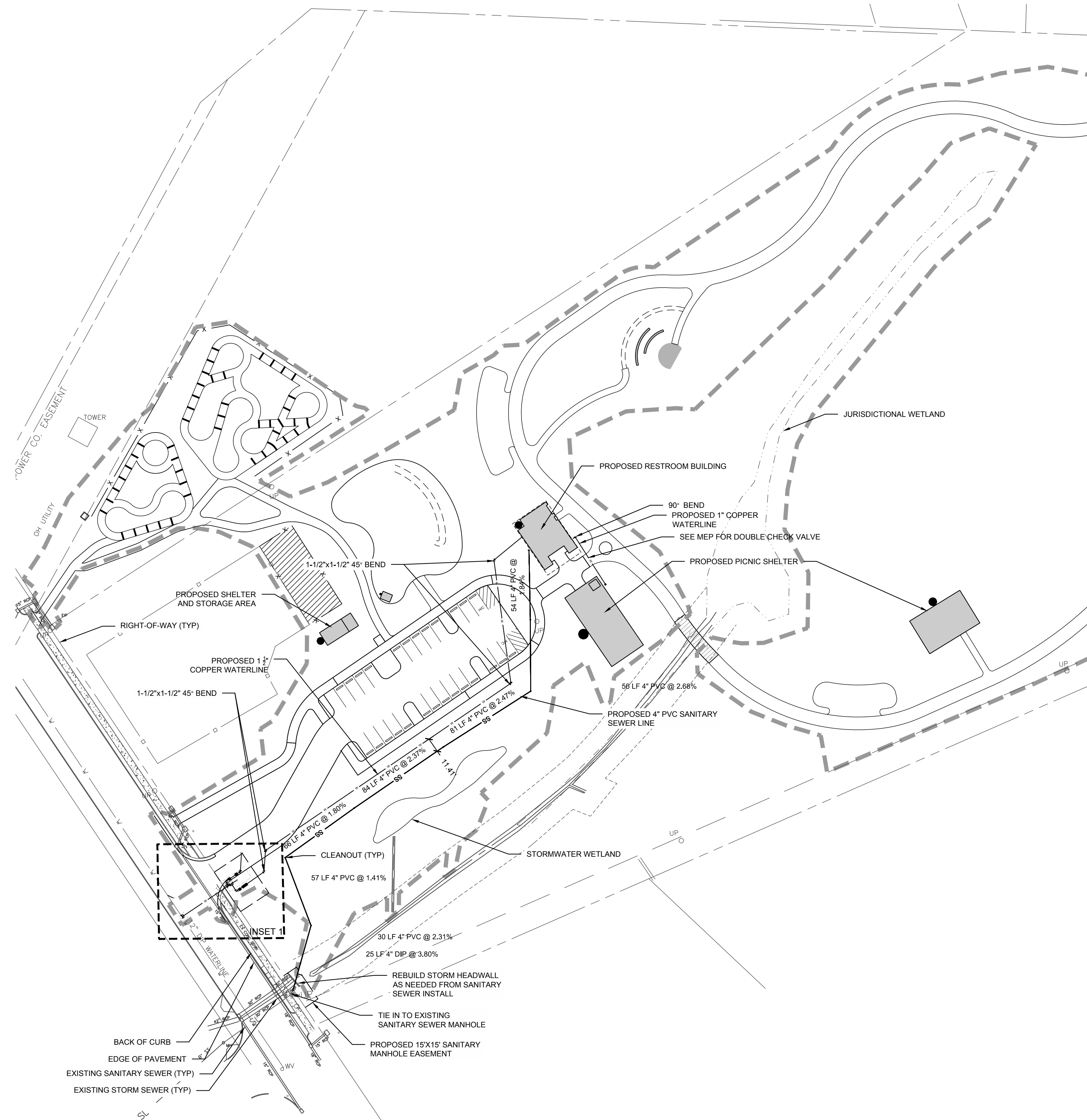
Title:

**PUMP TRACK
STORMWATER MEDIA
DETAIL**

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C5.14

Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\16146-C6-00-Utility Plan.dwg Jan 12, 2018 - 8:12am



UTILITY NOTES:

1. REFER TO SHEET C3.00 FOR GENERAL NOTES.
2. UNLESS OTHERWISE NOTED, ALL MANHOLES SHALL BE PRE-CAST CONCRETE STRUCTURES.
3. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER, STORM, ELECTRICAL, GAS, OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT.
4. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES.
5. THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
6. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY.
8. ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS.
9. ELEVATIONS OF UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE, WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS, SUCH ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER, WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER.
10. UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES, CURBS AND GUTTER OR CONCRETE WALKS / PADS. IF UTILITIES SHOWN ON THIS PLAN CANNOT BE INSTALLED PRIOR TO INSTALLATION OF IMPERVIOUS PAVEMENT CONDUIT SHALL BE INSTALLED FOR THE "FUTURE" UTILITY INSTALLATION.
11. AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO APPROVAL FROM LOCAL JURISDICTION OR ENGINEER THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF)) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL UTILITY INSTALLATION. HORIZONTAL AND VERTICAL INFORMATION SHALL BE PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES, HYDRANTS, AND OTHER APPURTENANCES.

PROPOSED UTILITY SEPARATION:

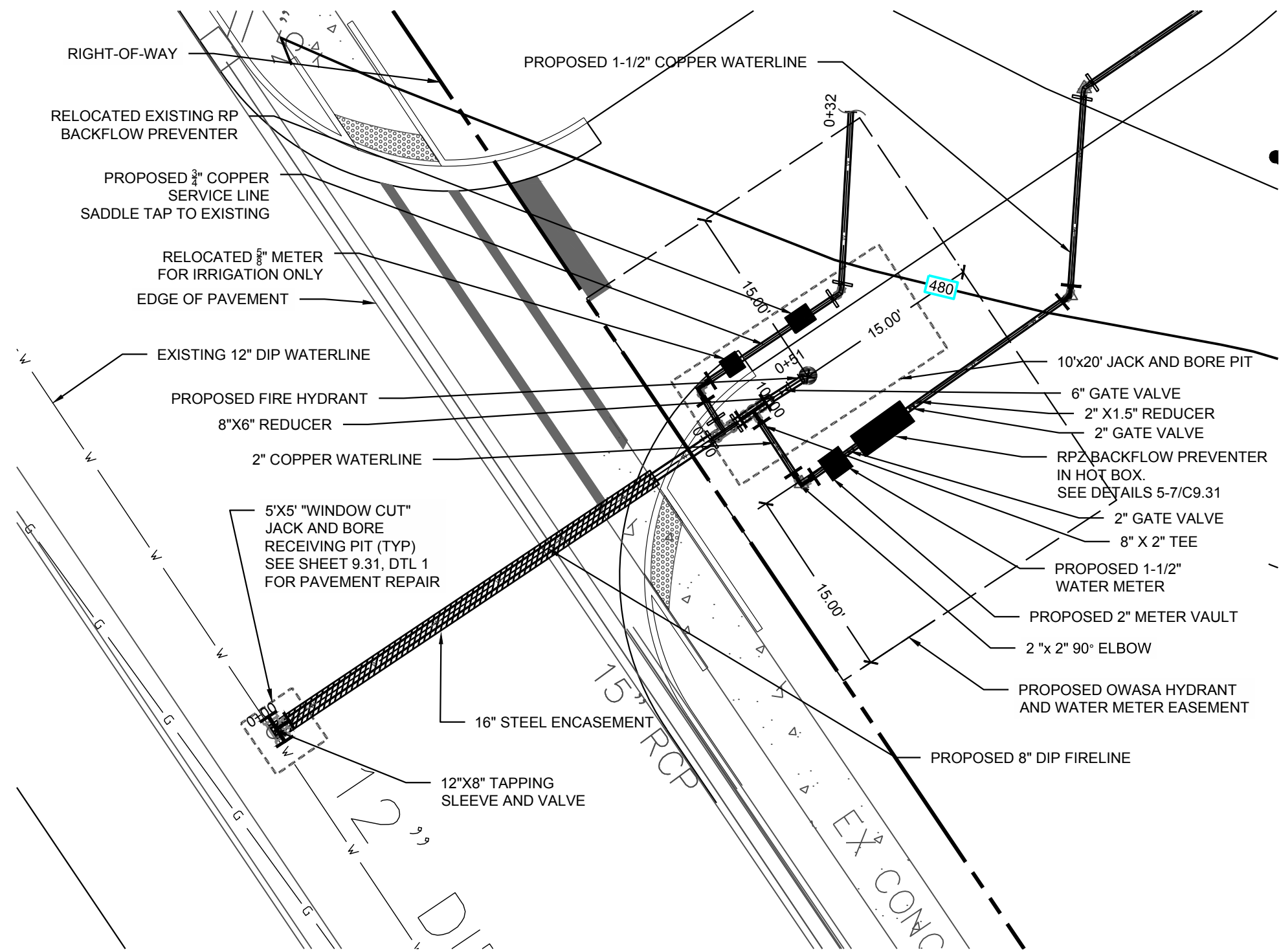
1. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH CASE:
 - a. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR
 - b. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP TO THE SEWER.
2. CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
3. CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

SEPARATION OF SANITARY SEWERS AND STORM SEWERS:

1. A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS.

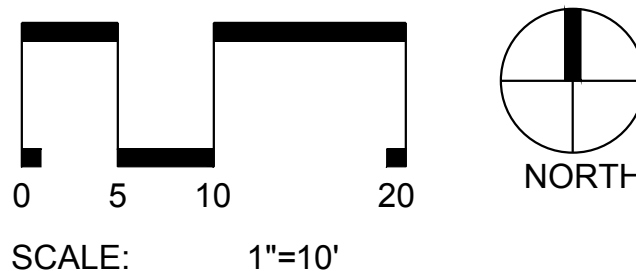
UTILITY LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- SS — PROPOSED SANITARY SEWER LINE
- ⊗ PROPOSED FIRE HYDRANT
- ⊗ PROPOSED WATER VALVE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- ⊙ PROPOSED SANITARY SEWER MANHOLE
- ⊙ PROPOSED CLEANOUT
- ⊙ PROPOSED FDC
- PROPOSED BACKFLOW METER
- PIV
- PROPOSED POST INDICATOR VALVE (PIV)
- GREASE INTERCEPTOR
- 300' HYDRANT COVERAGE CIRCLE
- LIMITS OF DISTURBANCE



INSET 1- WATER METER ASSEMBLY

scale: 1" = 10'



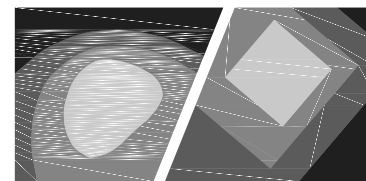
UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
4" SEWER SERVICE	455 LF
PRIVATE WATER	
3/4" WATER LINE	33 LF
1" WATER LINE	47 LF
1.5" WATER LINE	368 LF
2" WATER LINE	40 LF
6" FIRE LINE	3 LF
8" FIRE LINE	49 LF

SEWER NOTES:

1. SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS.
2. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA.
3. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATERTIGHT, BOLTED LIDS.
4. MINIMUM REQUIRED SLOPES FOR SEWER SERVICES:
 - 4" SEWER SERVICE - 2.00% SLOPE
 - 6" SEWER SERVICE - 1.00% SLOPE
 - 8" SEWER SERVICE - 0.50% SLOPE
5. UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET.
6. SEWER LINES LESS THAN 3 FEET OF COVER SHALL BE CLASS 50 DUCTILE IRON PIPE. SEWER LINES WITH GREATER THAN 3 FEET OF COVER SHALL BE AS NOTED BELOW:
 - 4" SEWER SERVICE - SCH 80
 - 6" SEWER SERVICE - SCH 80
 - 8" SEWER SERVICE - SDR-35
7. SEWER LINES UNDER CONSTRUCTION SHALL BE PROTECTED FROM DIRT, DEBRIS OR OTHER CONTAMINANTS ENTERING THE NEW SYSTEM. A MECHANICAL PLUG SHALL BE UTILIZED BOTH IMMEDIATELY UPSTREAM OF THE NEW CONSTRUCTION AND AT THE FIRST MANHOLE DOWNSTREAM IN THE EXISTING SYSTEM. EXISTING STRUCTURES, PIPING AND APPURTENANCES SHALL BE PROTECTED FROM ANY INFLOW OF WATER, DIRT OR DEBRIS DUE TO NEW CONSTRUCTION CONNECTING TO OR IN THE VICINITY OF THE EXISTING SYSTEM. CONTRACTOR TO REMOVE DEBRIS AND PLUG PRIOR TO OCCUPANCY.
8. ALL MANHOLES COVERS SHALL BE PAINTED TO LOCAL JURISDICTIONAL REQUIREMENTS.

WATER NOTES:

1. AS INDICATED, ALL WATERLINES SHALL BE DUCTILE IRON PIPE MEETING THE REQUIREMENTS OF ANSI-AWWA C151 PRESSURE CLASS 350 OR SOFT COPPER TYPE K PIPE PER ASTM B88. IF PVC WATERLINE IS INDICATED ON THE PLANS IT SHALL MEET THE REQUIREMENTS OF AWWA C-900, CLASS 200.
2. ALL WATERLINES SHALL HAVE A MINIMUM OF 3.0 FEET OF COVER.
3. TESTING NOTES:
 - PRESSURE: LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 600. MINIMUM TEST PRESSURE SHALL BE 150 PSI FOR DOMESTIC AND 200 PSI FOR FIRE PROTECTION.
 - BACTERIOLOGICAL: TWO SAMPLES FOR BACTERIOLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOURS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
4. THE CHLORINE IN HEAVILY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO BE NEUTRALIZED BEFORE DISCHARGE. CONTRACTORS SHALL NEUTRALIZE HEAVILY CHLORINATED WATER FLUSHED FROM MAINS PRIOR TO DISCHARGE OR TRANSPORT ALL HEAVILY CHLORINATED WATER OFFSITE FOR PROPER DISPOSAL.
5. PAINT VALVE COVERS, FIRE HYDRANTS AND OTHER WATER APPARATUS TO MEET THE LOCAL JURISDICTIONAL REQUIREMENTS.



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

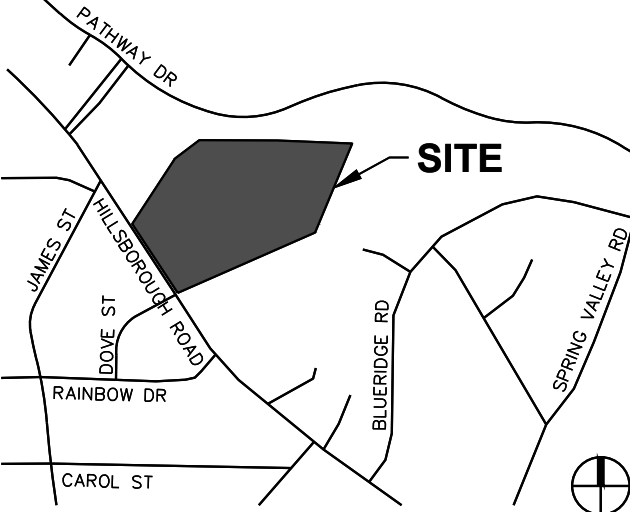
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



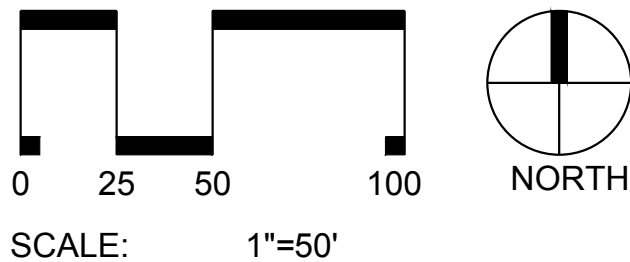
Seal:



Issued for:

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

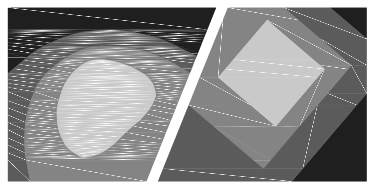


Title:

UTILITY PLAN

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C6.00



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

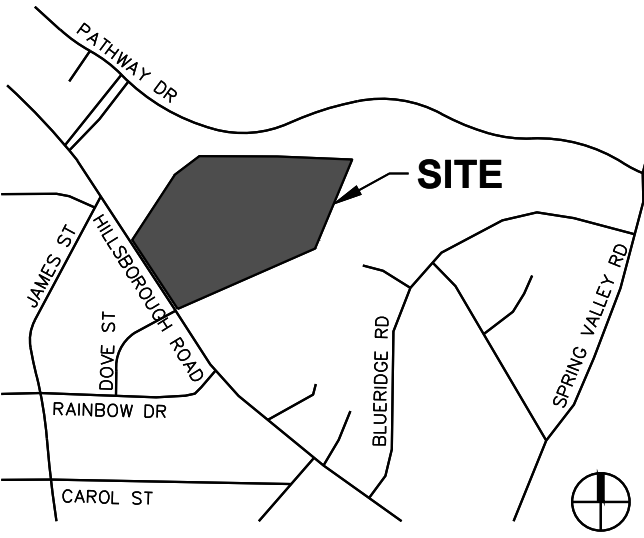
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



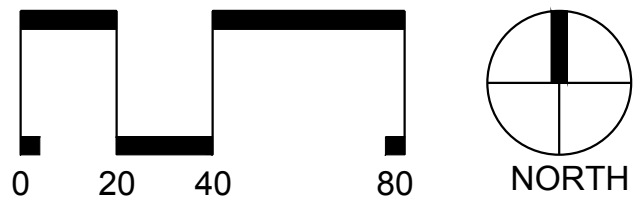
Seal:



Issued for:

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



SCALE: 1"=40'

Title:

UTILITY PLAN AND PROFILE

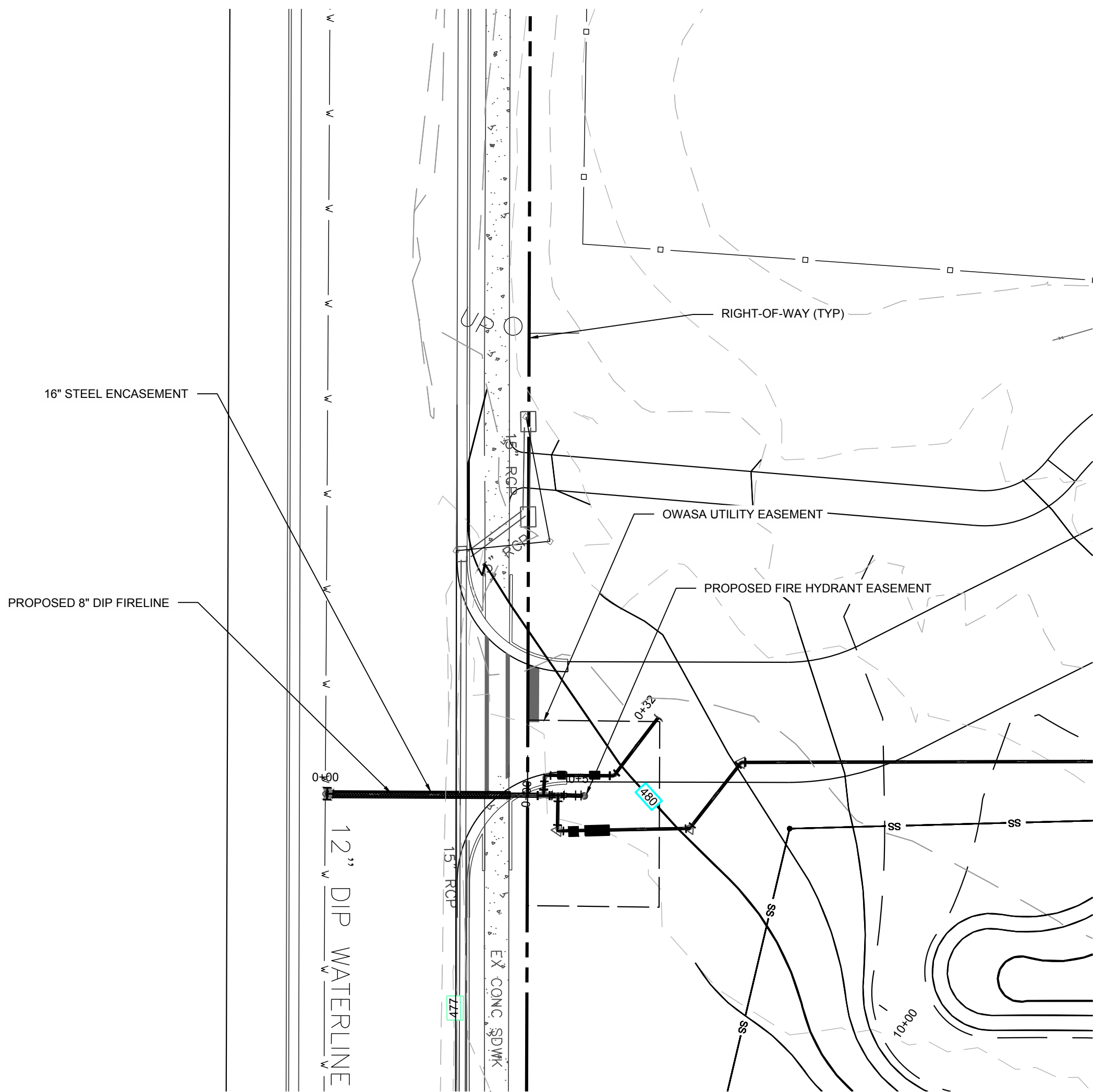
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: CJJ

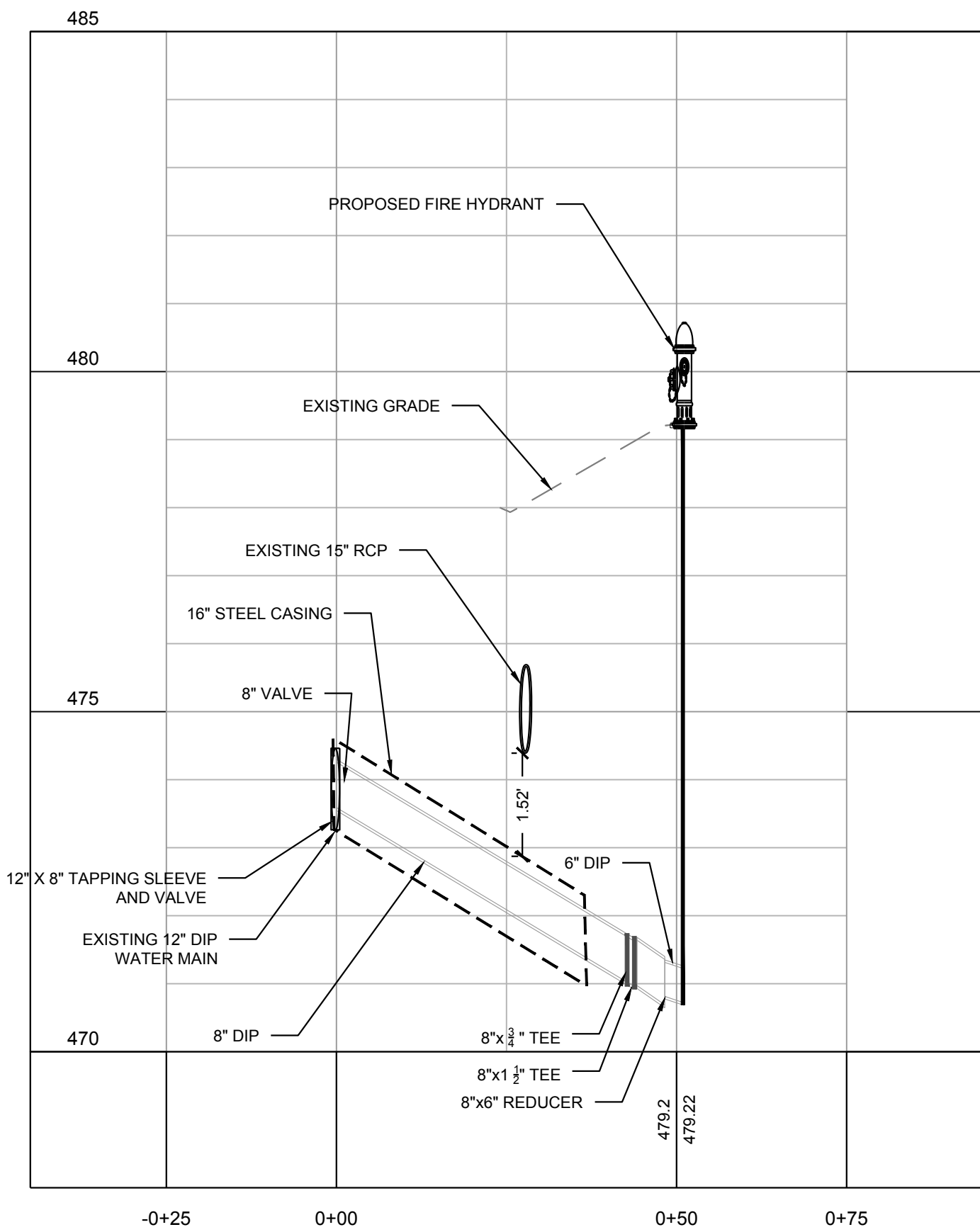
Approved by: JWP

C6.10



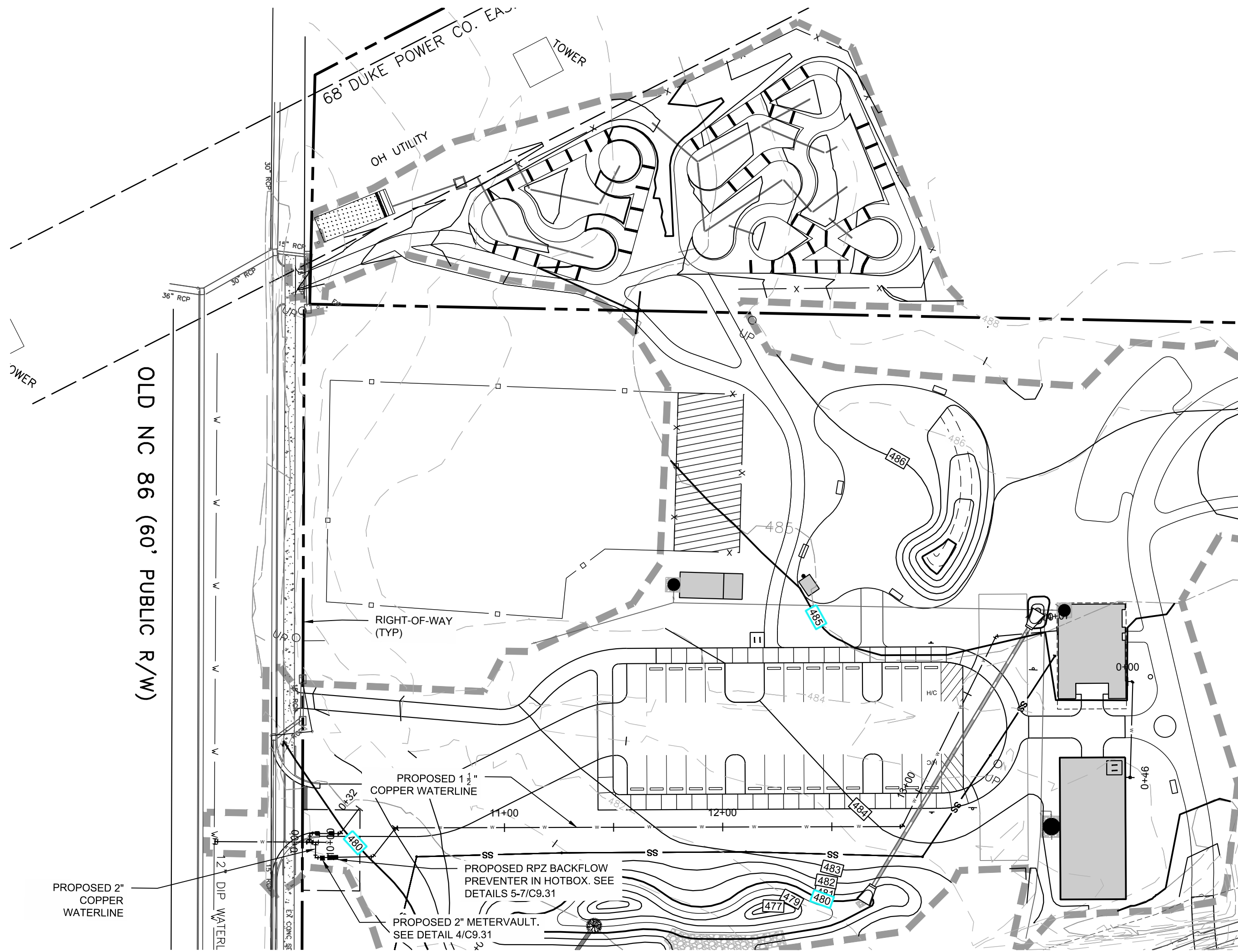
PLAN VIEW - PROPOSED 8" DIP FIRELINE
SCALE: 1"=40'

STA 00+00 - 0+51.08



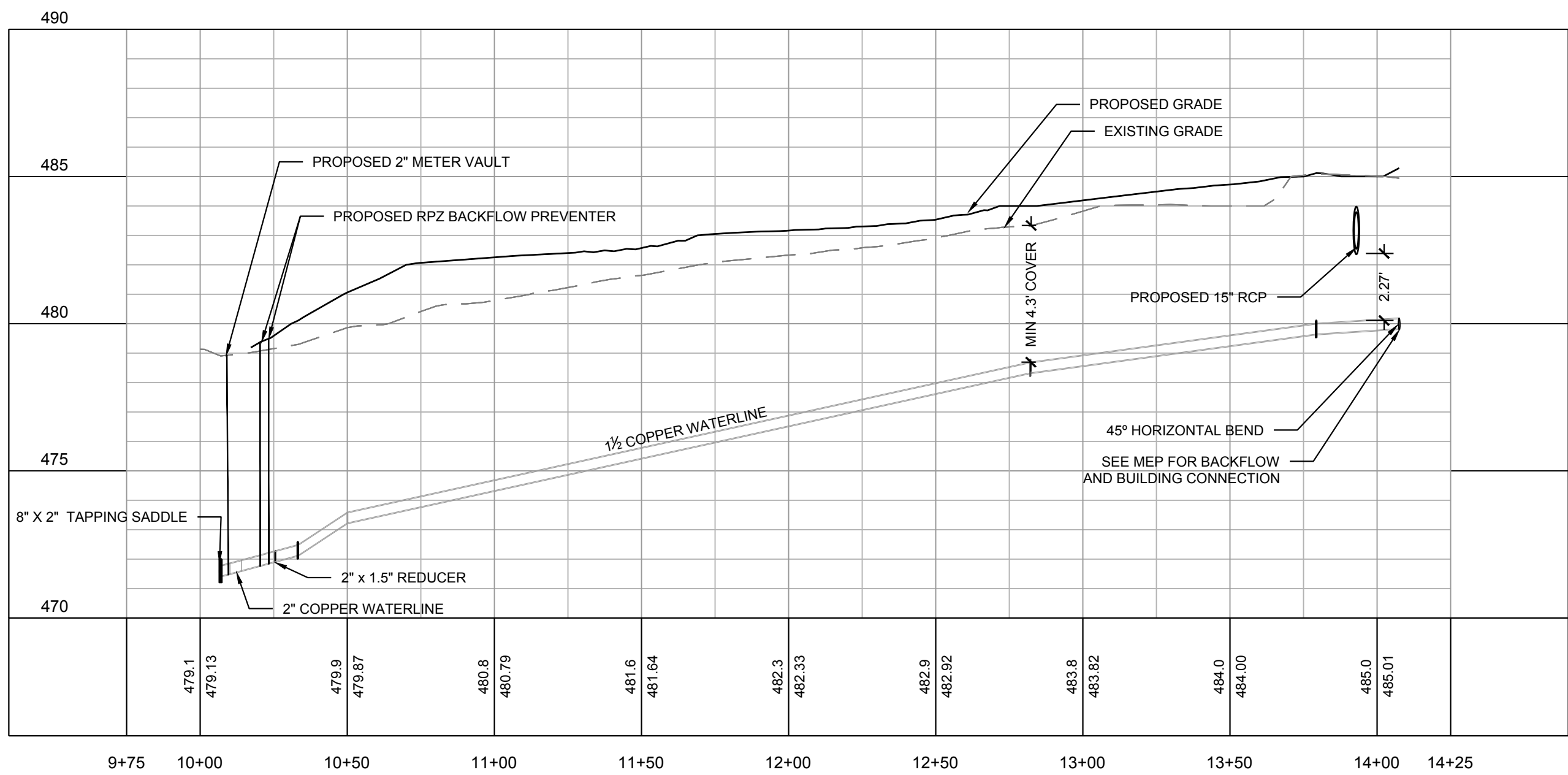
PROFILE VIEW - PROPOSED 8" DIP FIRELINE
SCALE: H: 1"=20', V: 1"=4'

STA 0+00 - 0+51.08



PLAN VIEW - PROPOSED COPPER WATERLINE
SCALE: 1"=40'

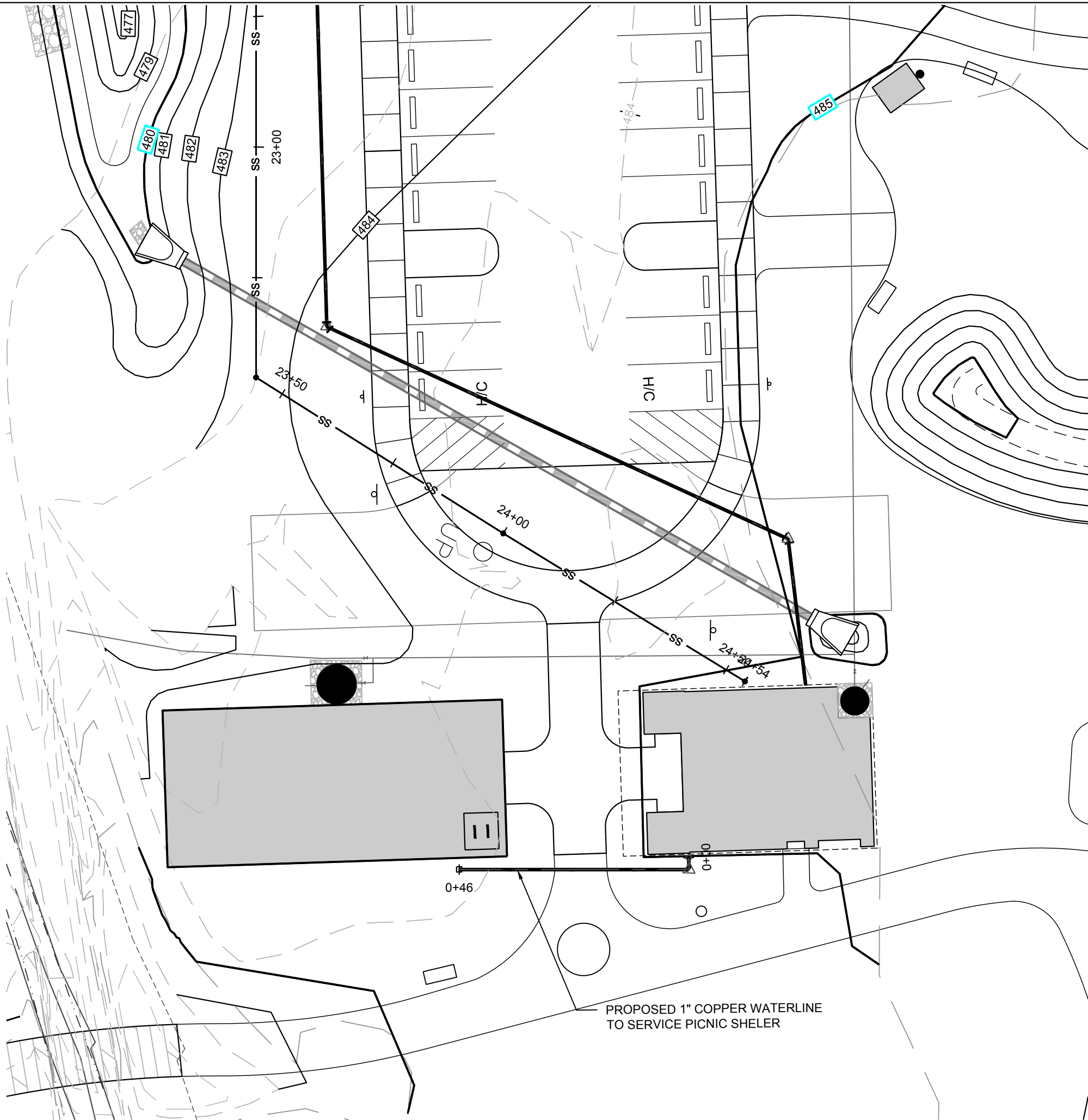
STA 10+00-14+07.49



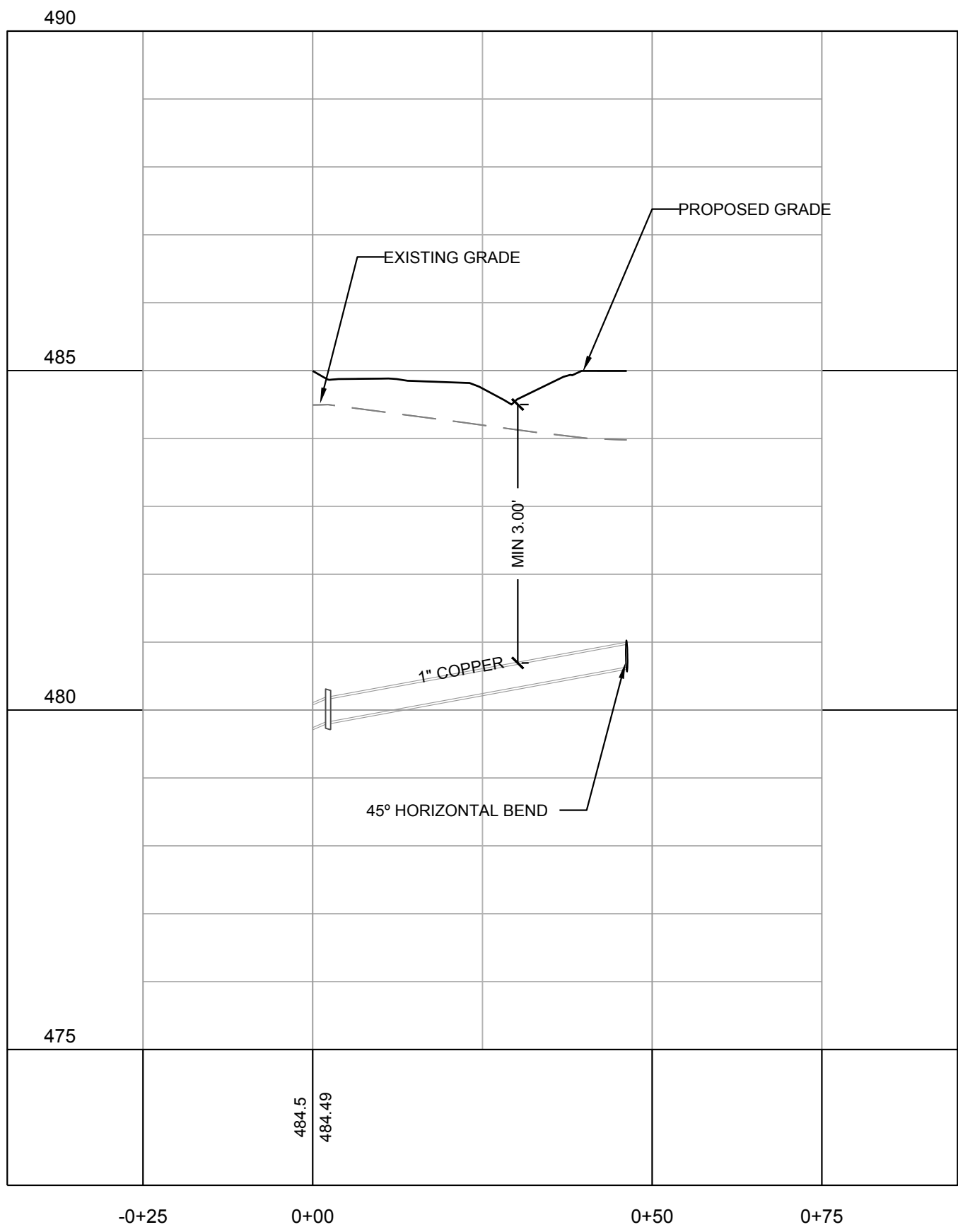
PROFILE VIEW - PROPOSED COPPER WATERLINE
SCALE: H: 1"=40', V: 1"=4'

STA 10+00 - 14+07.49

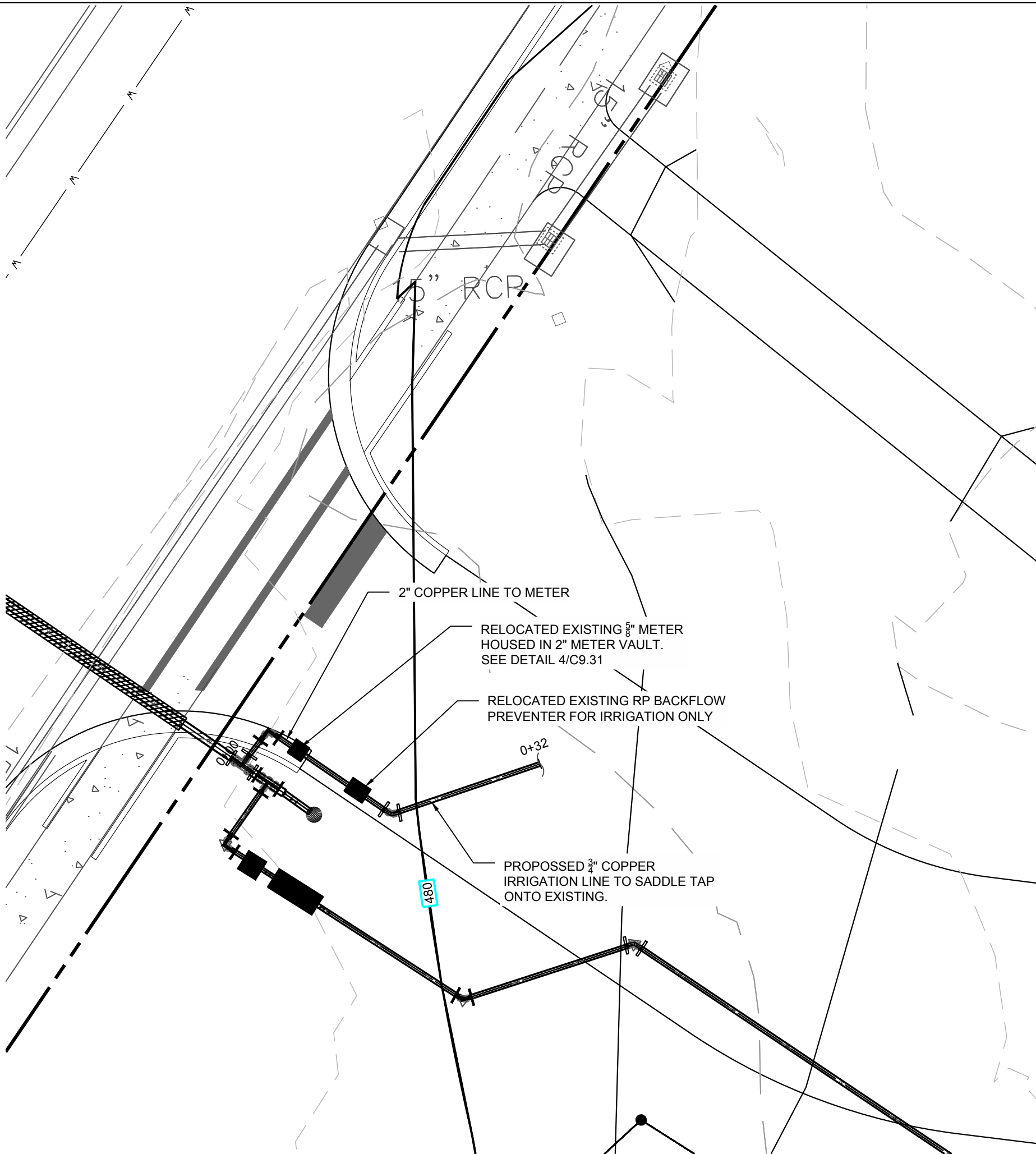
Q:\2018\16146 - MLK Jr. Park\DWGS\1 - Design\Sheets\16146-C6.00-Utility Plan.dwg Jan 12, 2018 - 8:13am



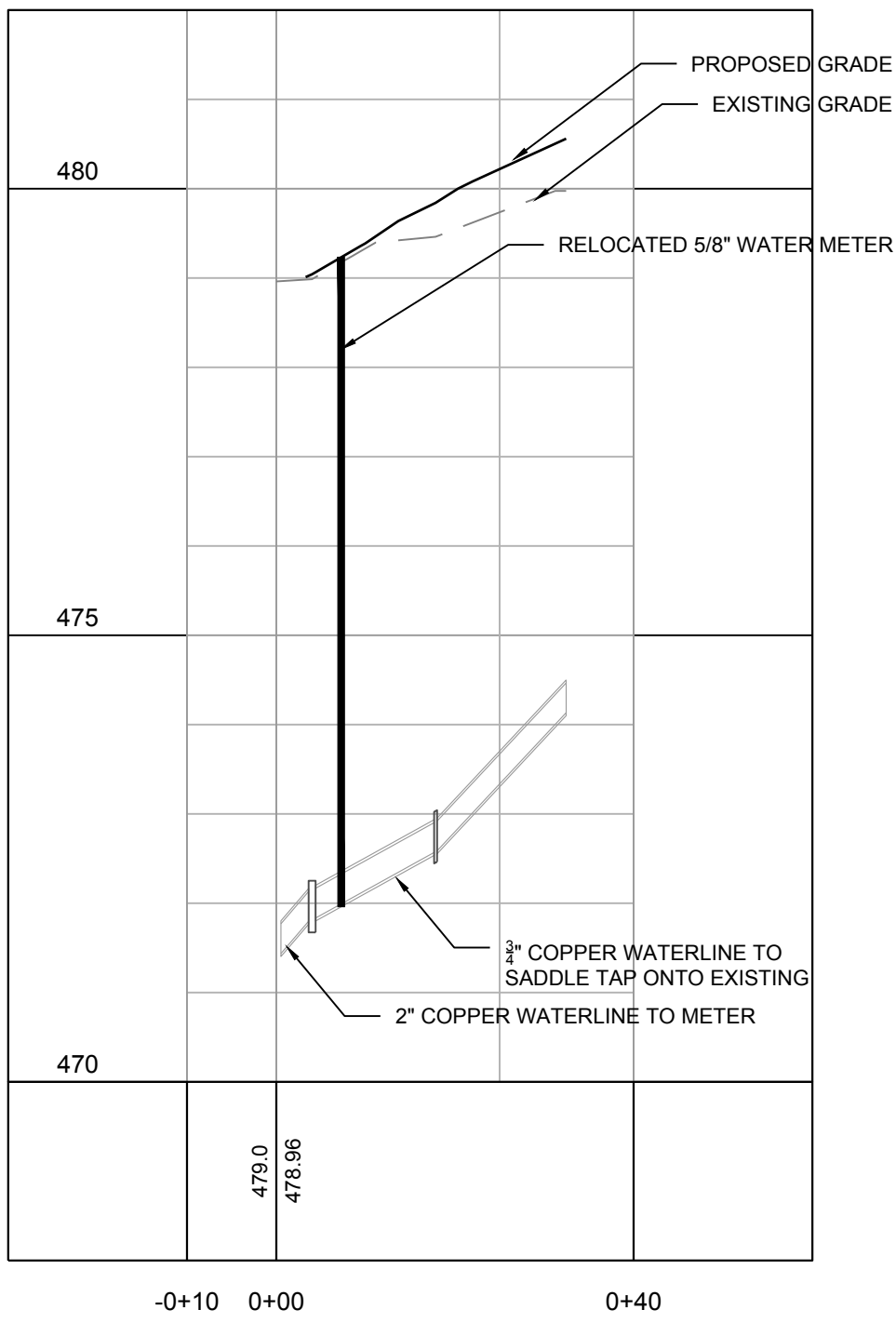
PLAN VIEW - PROPOSED 1" COPPER WATERLINE
SCALE: 1"=20'



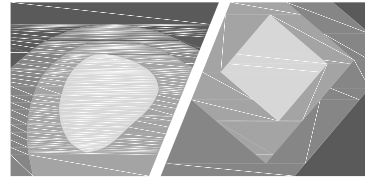
PROFILE VIEW - PROPOSED 1" COPPER WATERLINE
SCALE: H: 1"=20', V: 1"=2'



PLAN VIEW - PROPOSED 3/4" COPPER IRRIGATION LINE
SCALE: 1"=10'



PROFILE VIEW - PROPOSED 3/4" COPPER IRRIGATION LINE
SCALE: H: 1"=20', V: 1"=2'



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
FIRM LICENSE # C-1051
T 919.380.8752
www.stewartinc.com
PROJECT # C16146

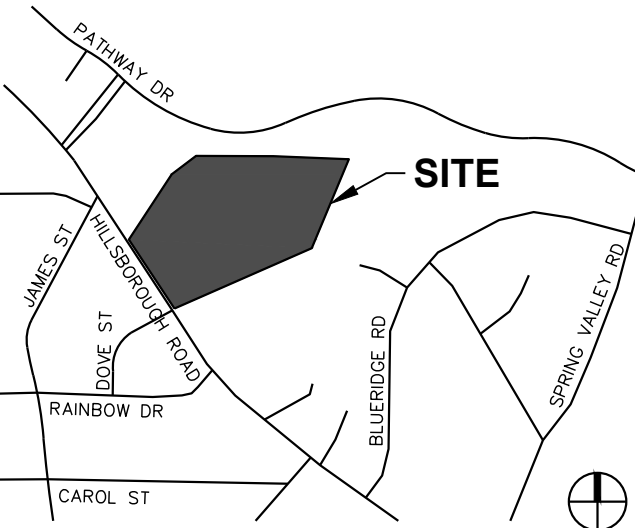
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



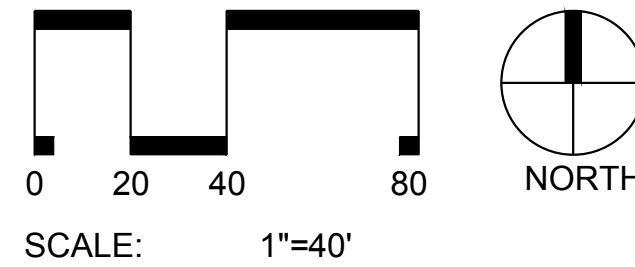
Seal:



Issued for:

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



Title:

UTILITY PLAN AND PROFILE

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C6.11



C6.12



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T 919.380.8750

FIRM LICENSE # C-1051
www.stewartinc.com
PROJECT # C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



Seal:



Issued for:

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

Title:

SITE DETAILS

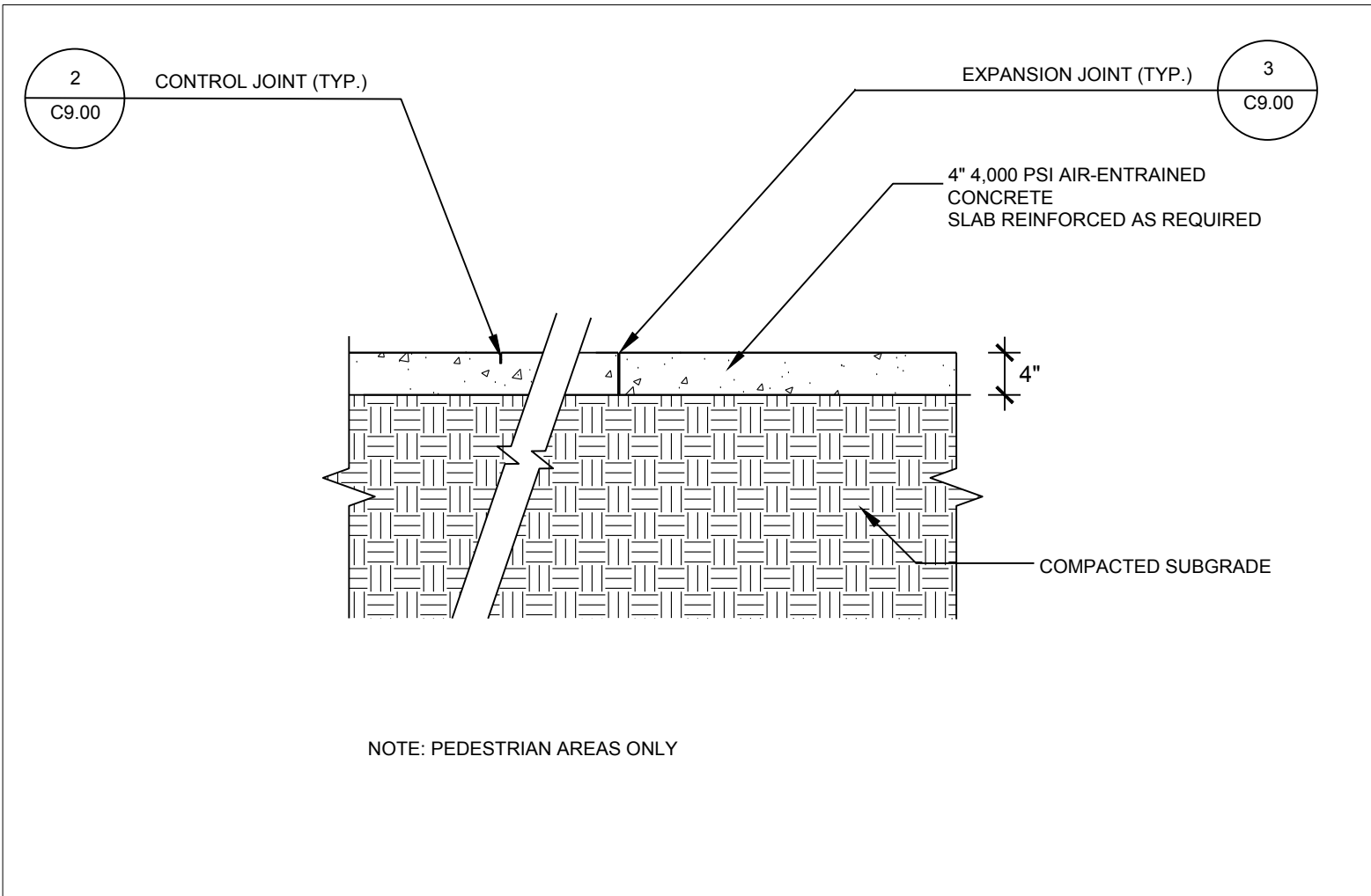
Project number: C16146 Sheet:

Date: 12.04.2017

Drawn by: TPG

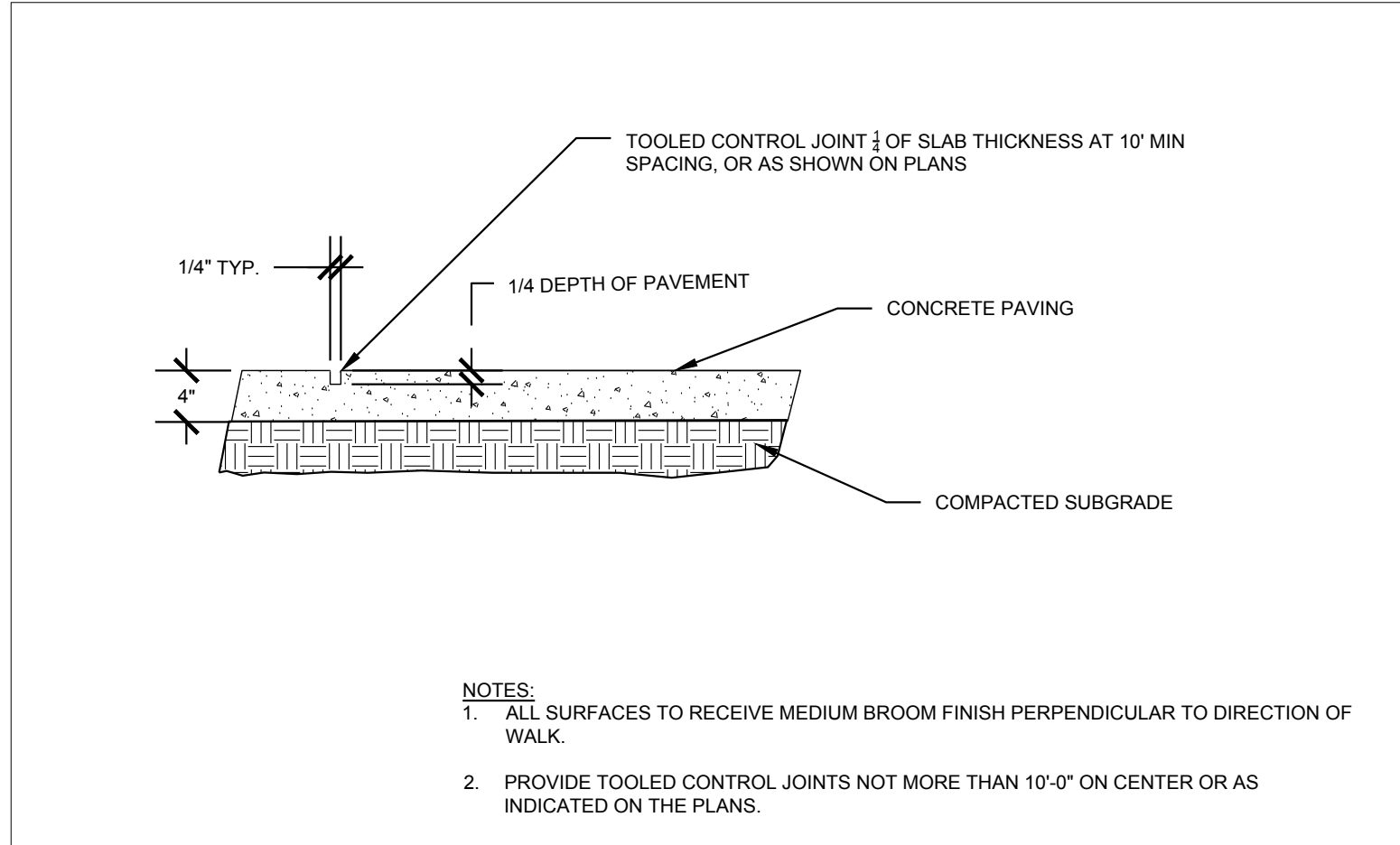
Approved by: JLW

C9.00



1 4" CONCRETE SIDEWALK SECTION

3/4" = 1'-0"

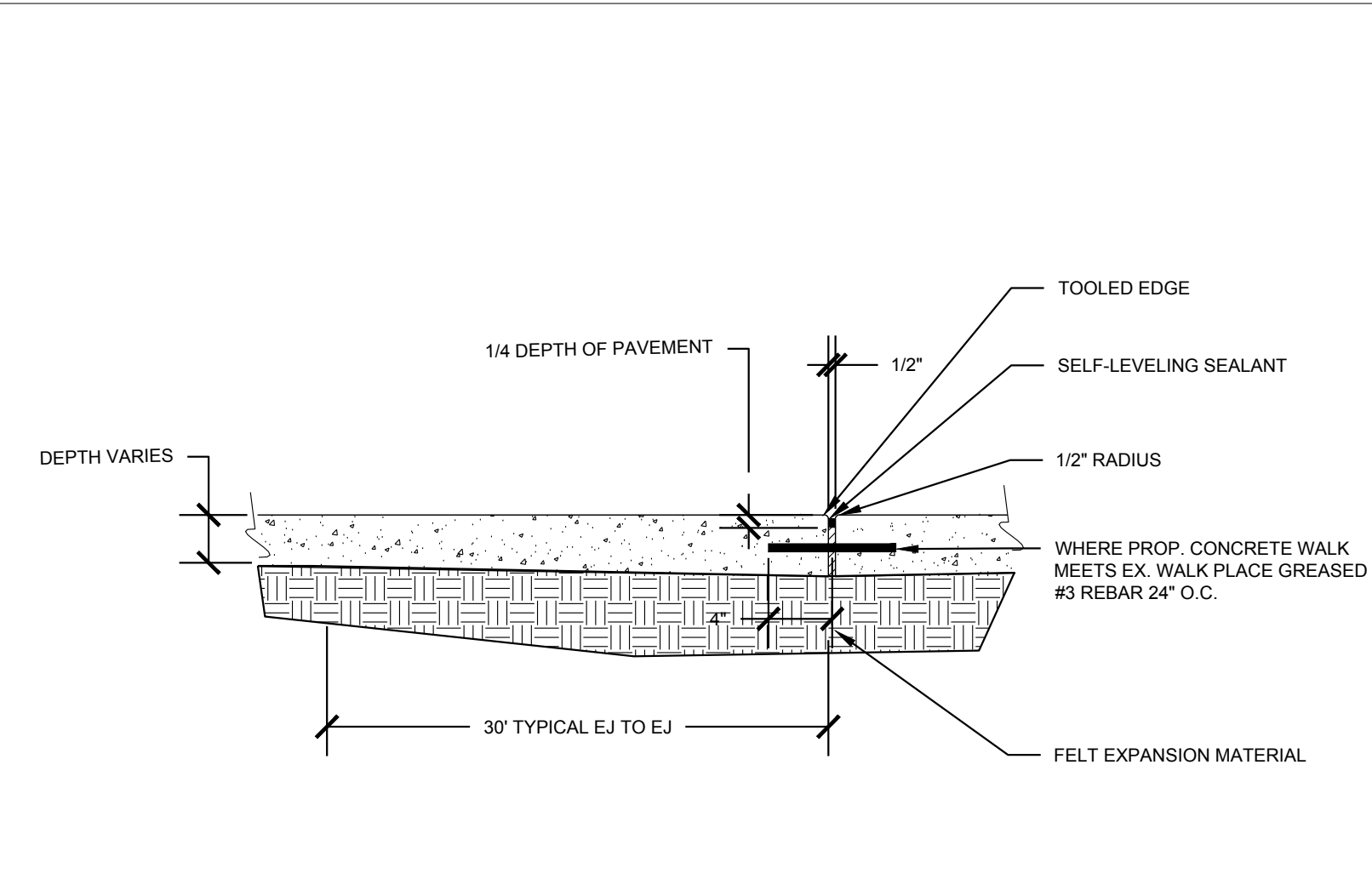


2 CONTROL JOINT - SIDEWALK SECTION

NTS

3 EXPANSION JOINT - SIDEWALK SECTION

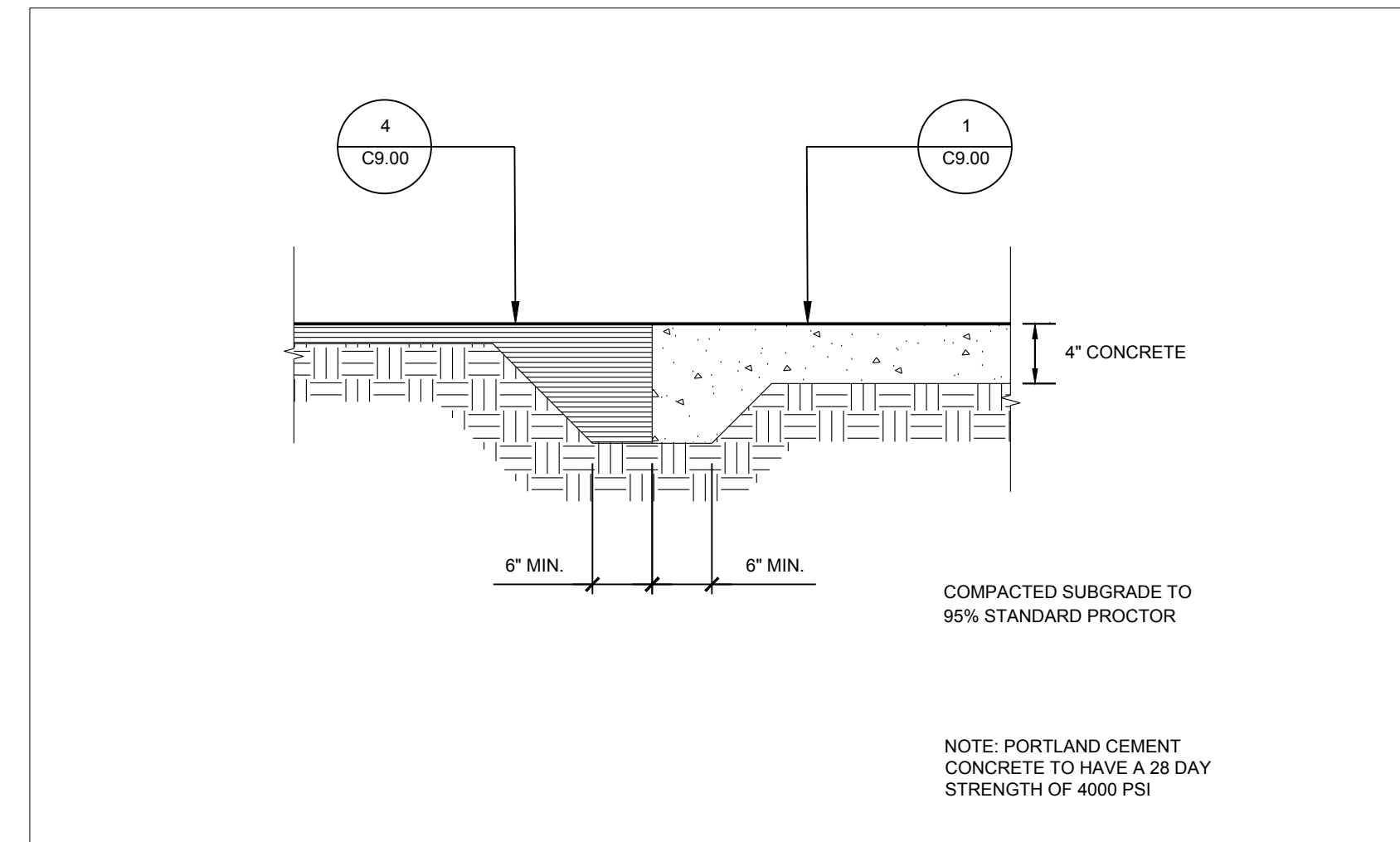
3/4" = 1'-0"



	SURFACE	INTERMEDIATE	STONE
PAVEMENT TYPE	SF9.5A	I19.0B	ABC
STND. DUTY	3"	--	8"
HVY. DUTY	2"	2.5"	8"

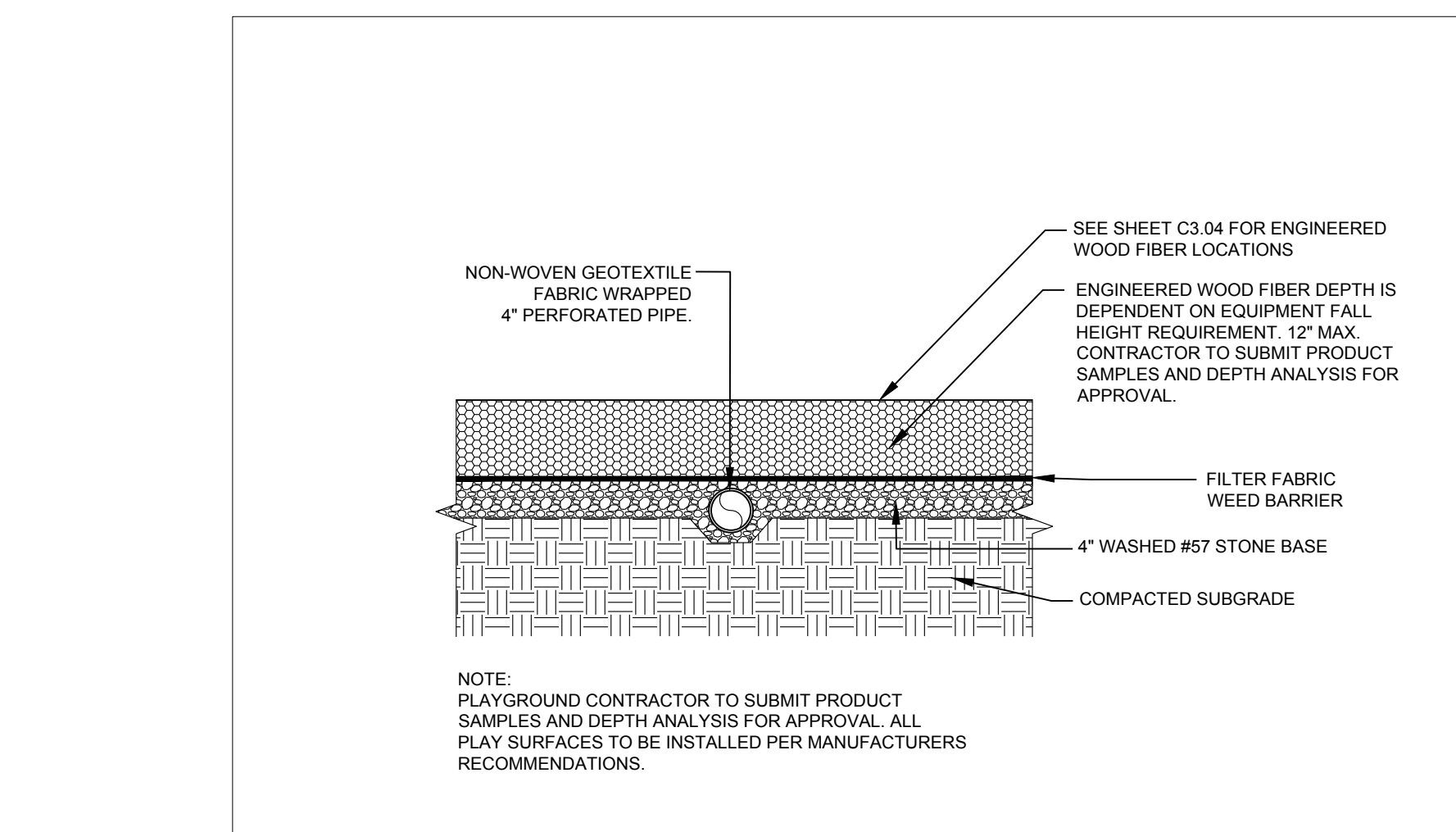
4 ASPHALT PAVING SECTION

3/4" = 1'-0"



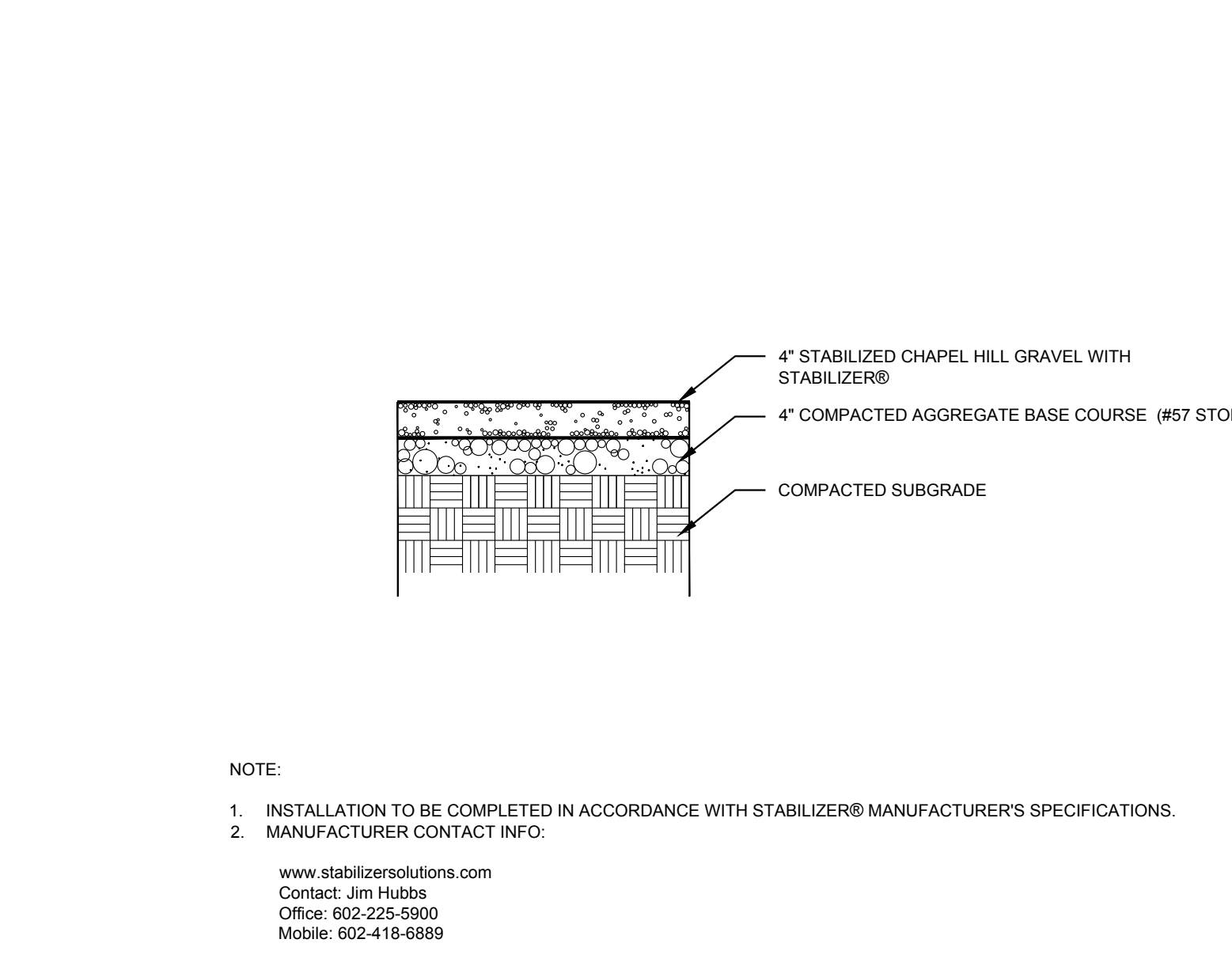
5 EDGING - SIDEWALK TO ASPHALT SECTION

3/4" = 1'-0"



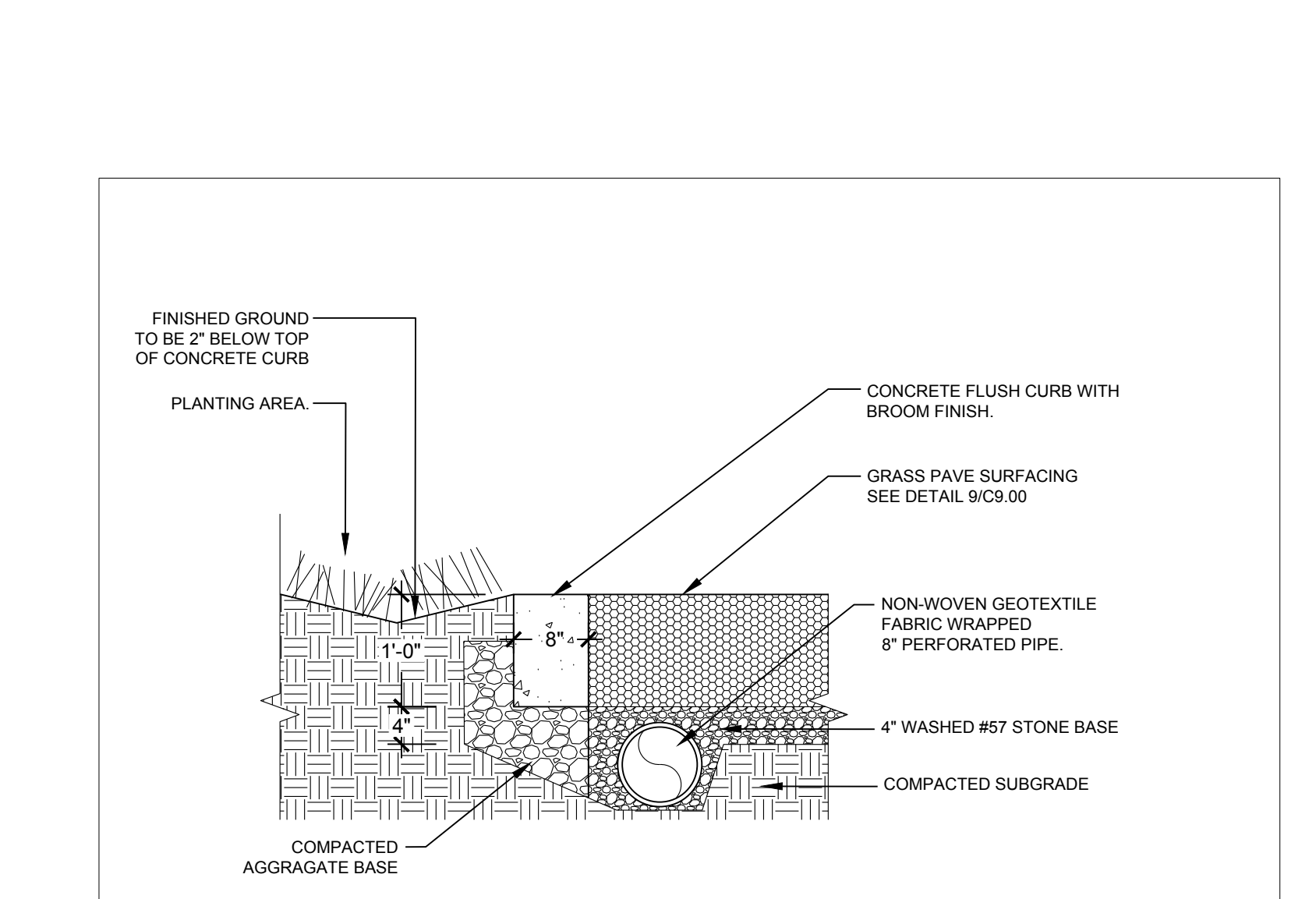
6 ENGINEERED WOOD FIBER SURFACING SECTION

3/4" = 1'-0"



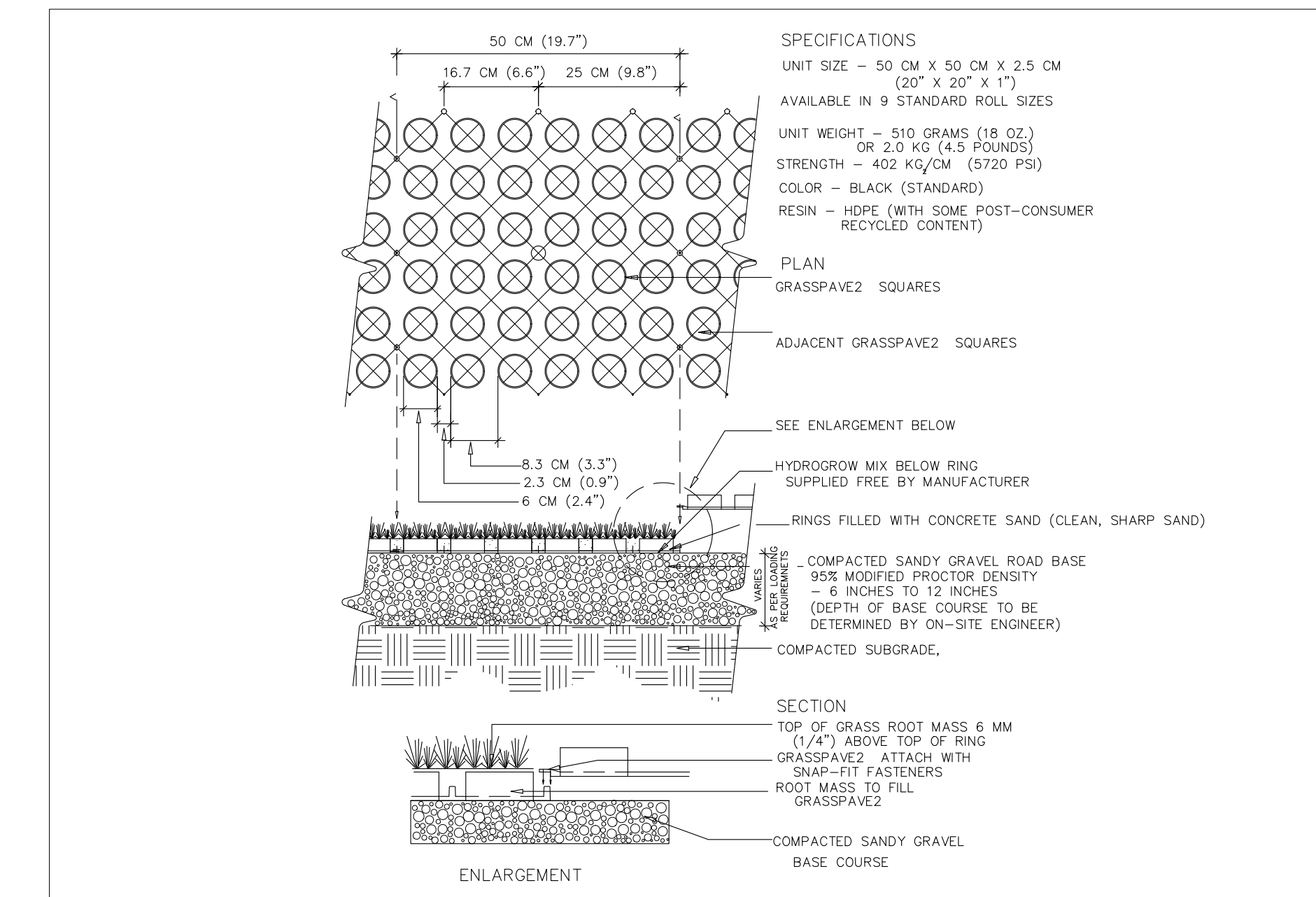
7 DECOMPOSED GRANITE PATH WITH STABILIZER SECTION

3/4" = 1'-0"



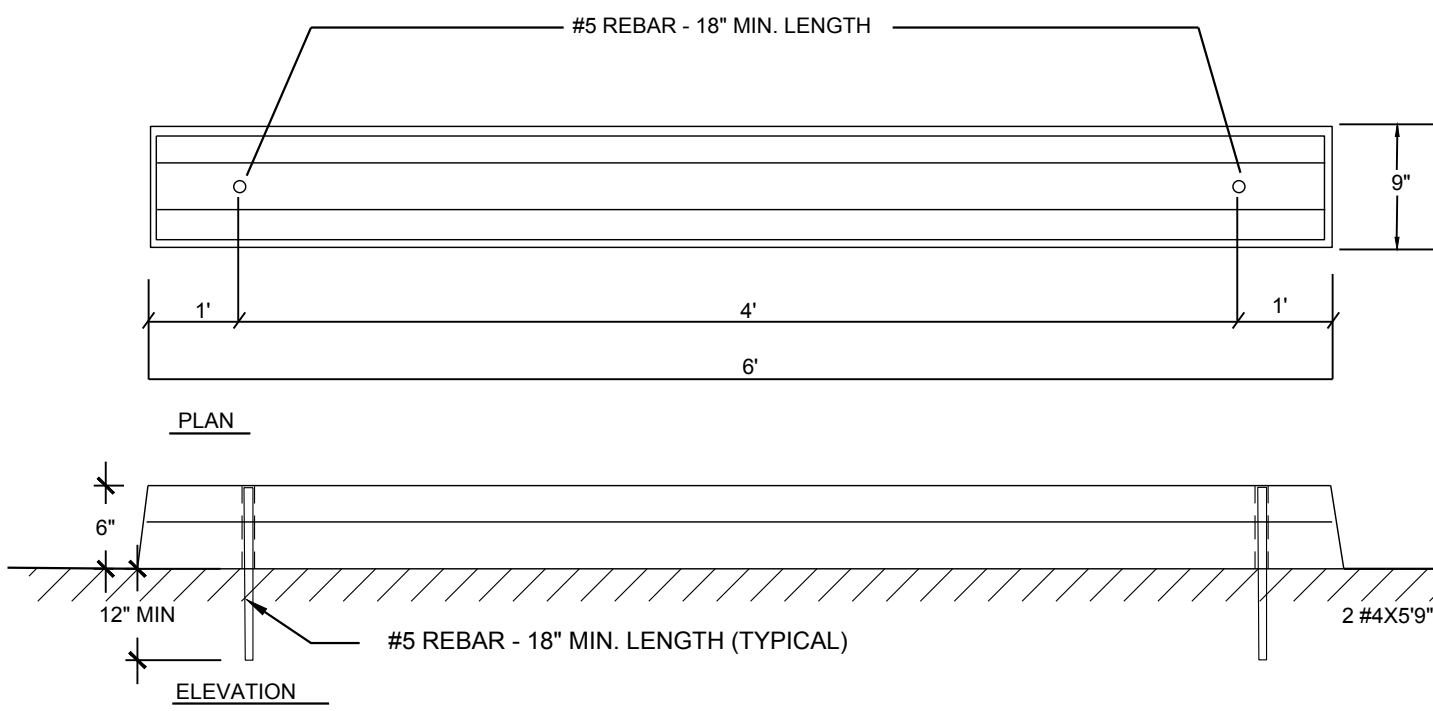
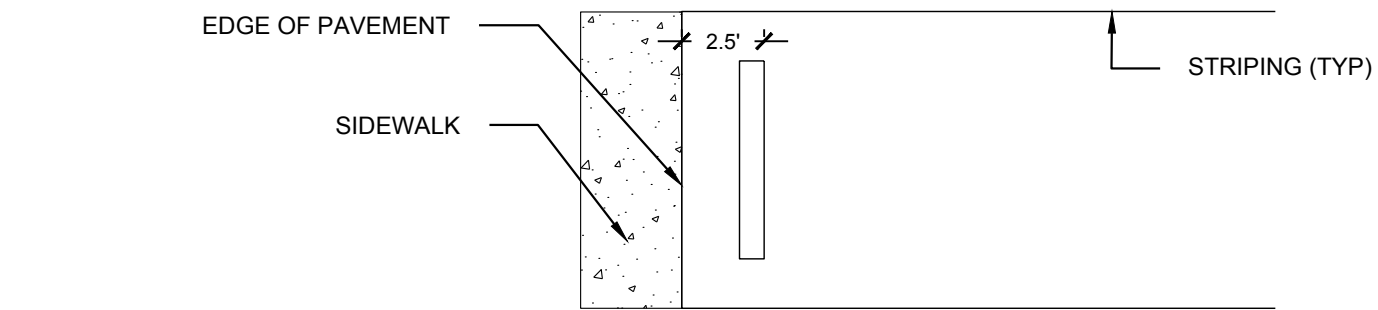
8 CIP FLUSH CURB SECTION

3/4" = 1'-0"



9 GRASS PAVE SECTION

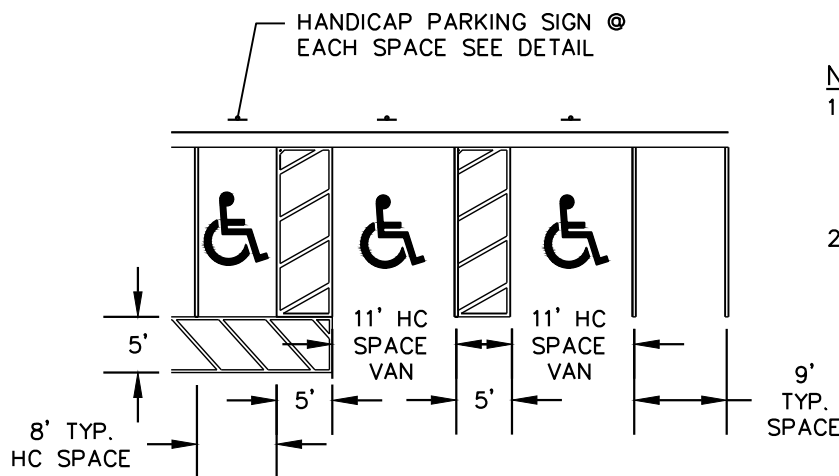
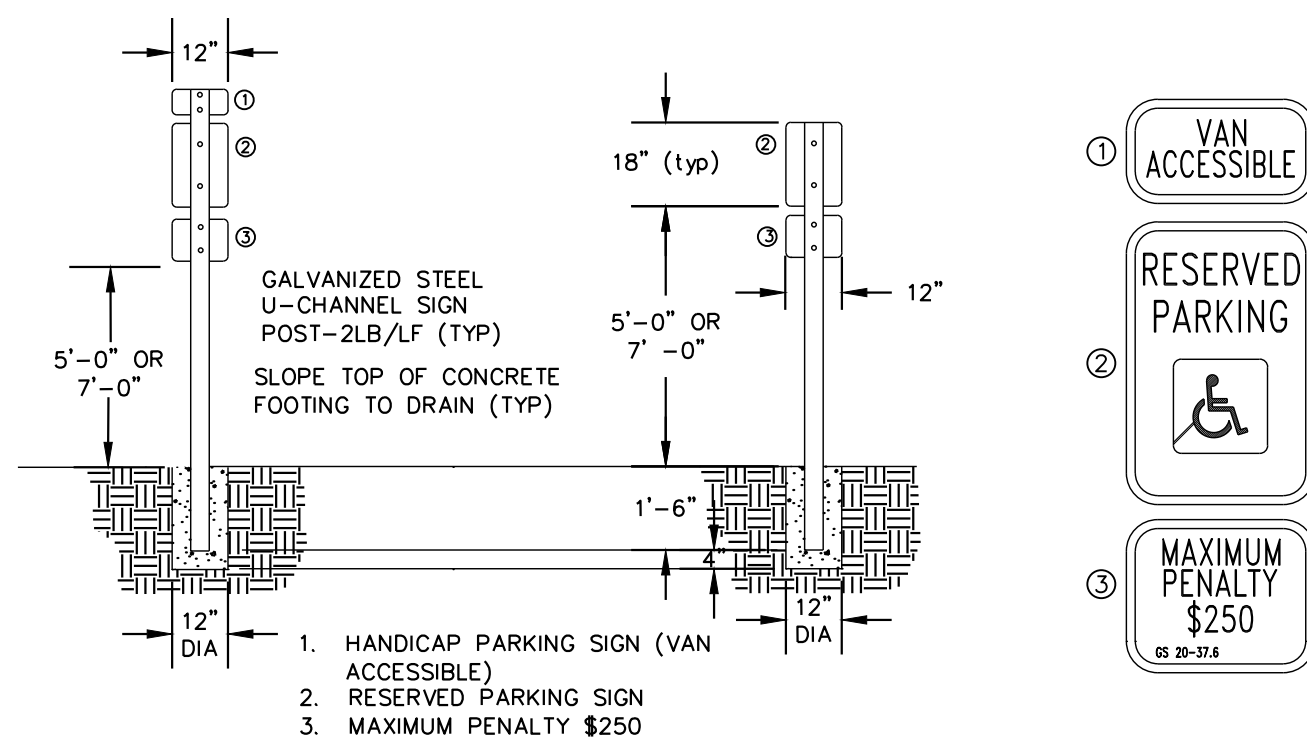
NTS



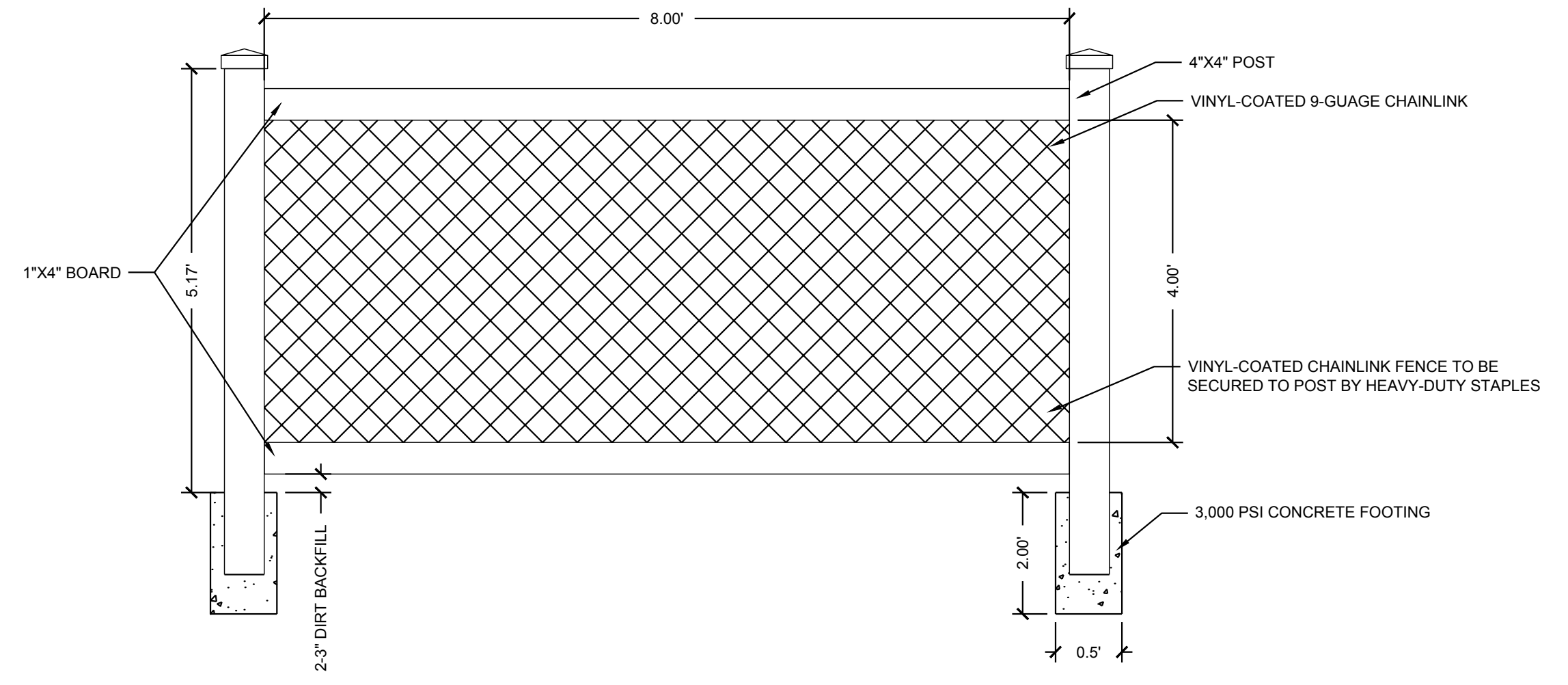
1 CONCRETE WHEEL STOP

PLAN

NTS



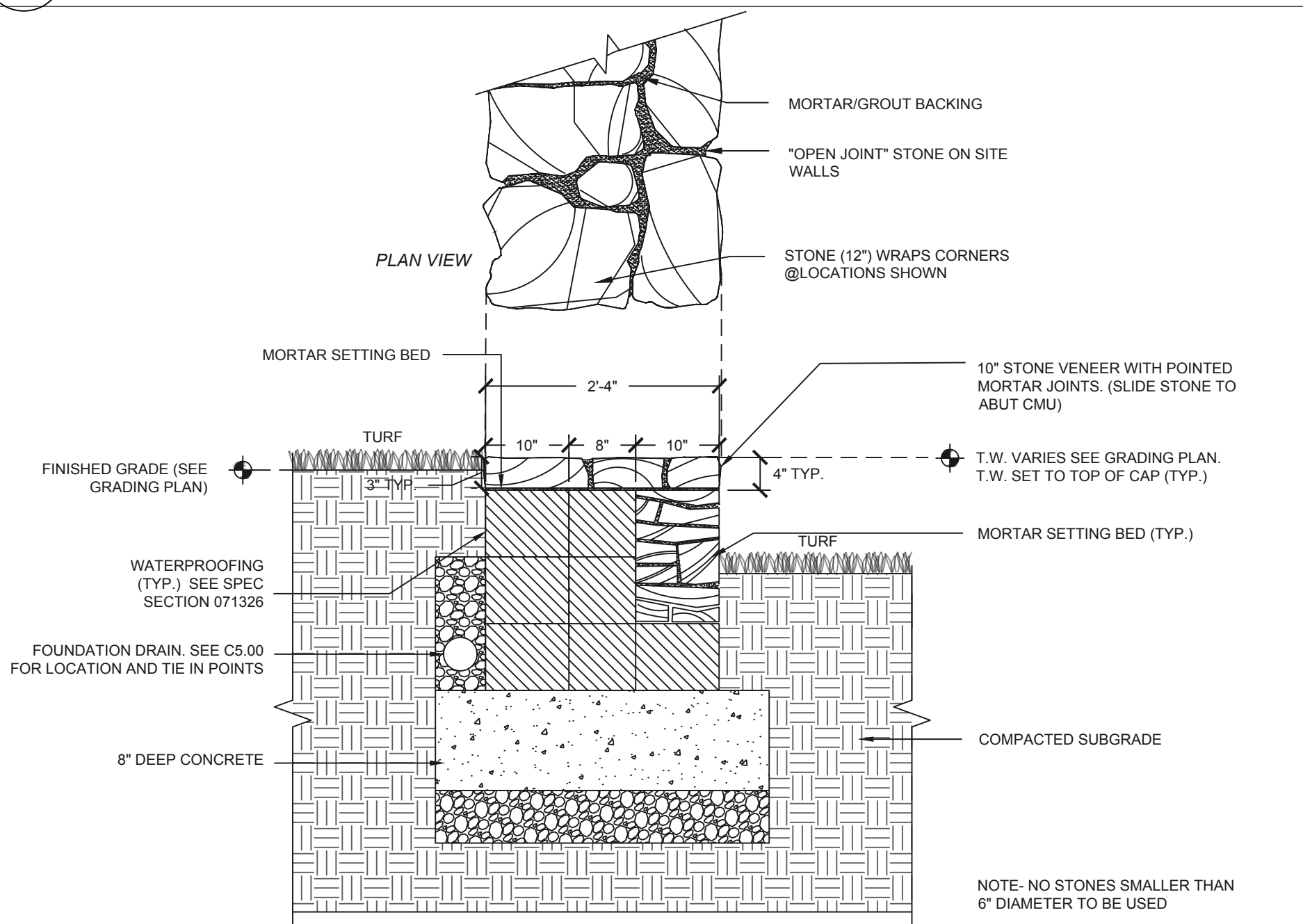
- NOTE:
1. THE RESERVED PARKING SIGN IS TO BE 5'-0" IF THE PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN IN ACCORDANCE WITH NORTH CAROLINA STATE HANDICAPPED ACCESSIBILITY CODE.
 2. THE RESERVED PARKING SIGN IS TO BE 7'-0" IF THE PEDESTRIAN PATH GOES BY, UNDER, OR AROUND THE SIGN IN ACCORDANCE WITH NORTH CAROLINA STATE HANDICAPPED ACCESSIBILITY CODE.



3 PUMP TRACK FENCE

PLAN

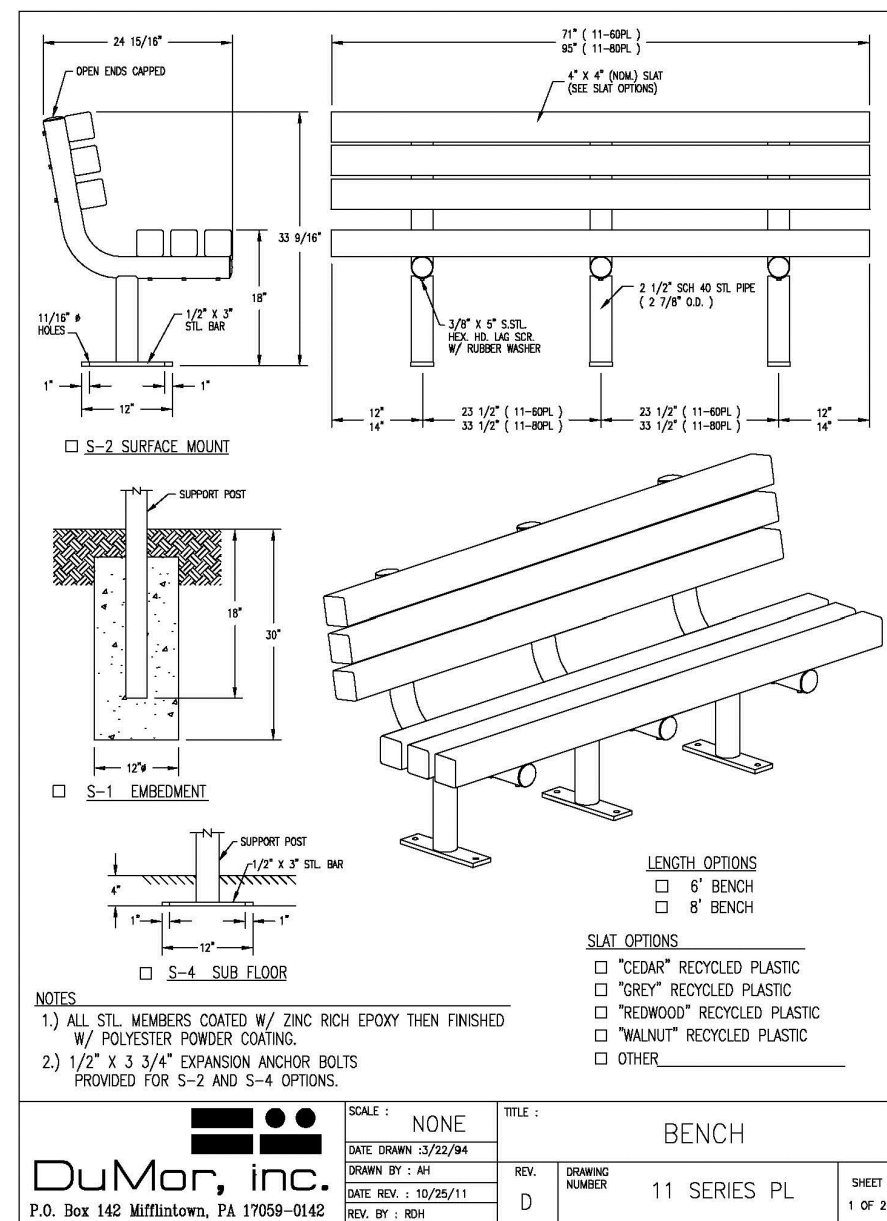
NTS



4 SEAT WALL - AMPHITHEATRE

PLAN

$\frac{3}{8}" = 1'-0"$



5 PARK BENCH

PLAN

NTS

6 HEAVY DUTY CONCRETE

PLAN

NTS



9 DOG WASTE STATION

SECTION

NTS

7 EXERCISE EQUIPMENT

PLAN

NTS

8 BIKE RACK

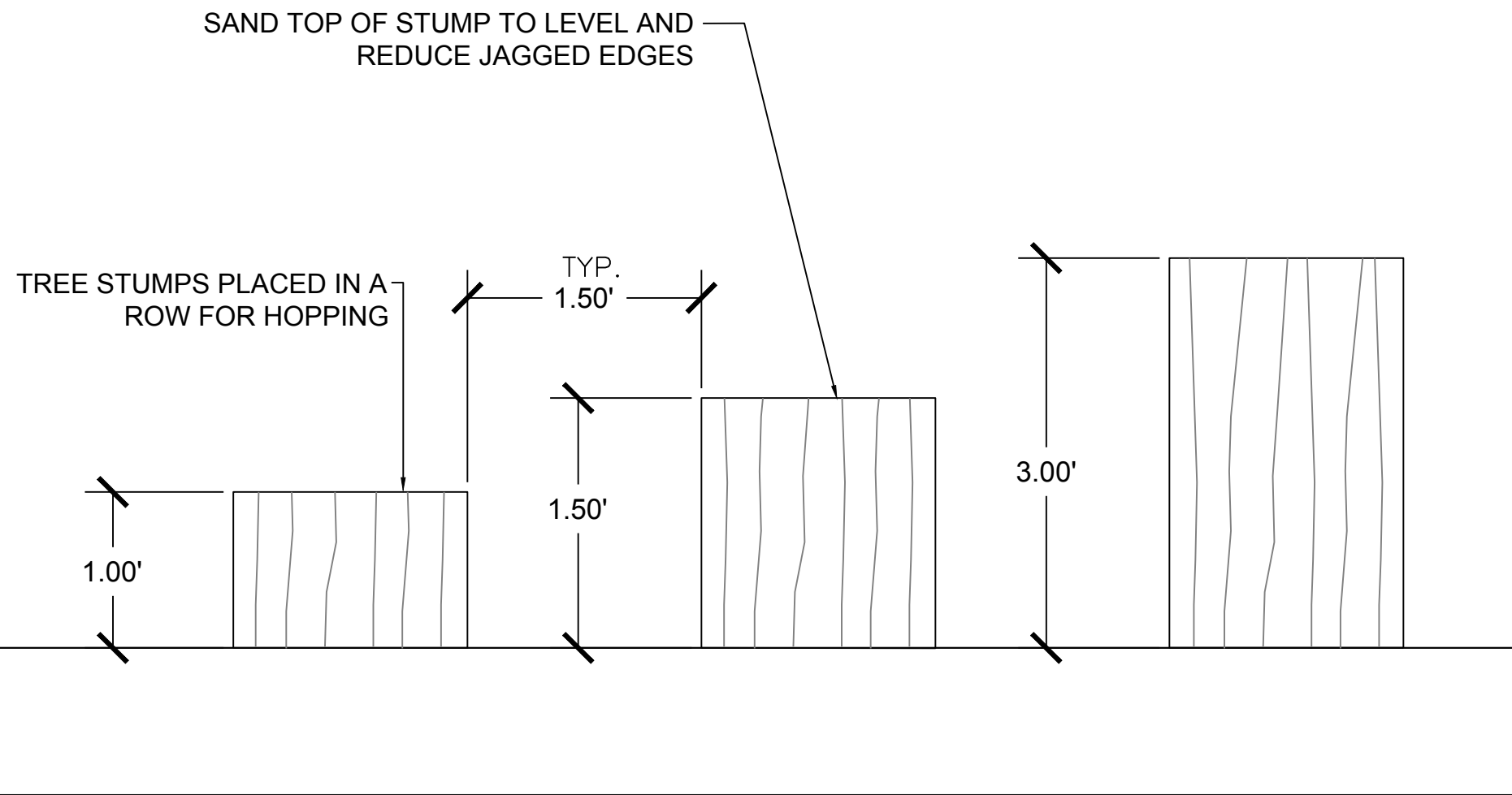
PLAN

NTS

SITE DETAILS

C16146
12.04.2017
TPG
JLW

C9.01



1 HOPPING LOGS ELEVATION NTS



Natural Playgrounds Store

Natural Playgrounds Company
85 Warren Street, Concord, NH 03301
Toll Free 888-290-8405
Int'l 603-228-0476
Fax 603-228-0018
ethan@naturalplaygrounds.com



Embankment Slide w/ sit down bar

EMB-SL
Shipping Weight: 6 lbs
Shipping Dimensions: 72"L X 24"W X 18"H
Brand: Natural Playgrounds Company
Toxicity: non-toxic
Age Appropriateness: all ages

<12>A manual quote is required for shipping slides from the manufacturer. Typically such a quote takes no more than 1 business day, but it may take slightly longer depending on how busy they are. Please bear with us while we calculate accurate shipping costs. As soon as we receive the shipping cost, we'll add it to your estimate and e-mail it to you. When you've authorized payment, we'll process the order.<12>

Embankment Slides offer constant thrills of movement and speed, and are a must-have on all playgrounds for several reasons!

First, Embankment Slides are built into the ground so it's impossible to fall off a ladder (there is none!) or off the sides (the slide is level with the ground), which means Embankment Slides are 100% safe!

Further, slides encourage scientific curiosity: climbing the hill builds up a reservoir of potential energy resulting from gravity's pull, sliding down the hill turns that supply of energy into its kinetic form -- and demonstrates acceleration and velocity. Slides trigger both proprioceptive and kinesthetic responses; they help illustrate several branches of mathematics (geometry, calculus, and trigonometry); they help children stay active, get physically fit, and develop motor skills and coordination; and they are the most popular play element on a Natural Playground.

Our slides are made of heavyweight, commercial-grade, 38" +/- thick polyethylene that resists fading (so they last forever), they will not buckle in the heat or with use, seams will never separate to cause safety hazards, they're treated to resist static build-up so cooties/implants will not be affected, AND the built-in foot under the exit region not only provides the necessary anchoring, but also keeps the exit region at the ASTM/CPSIC required height off the fall zone material!

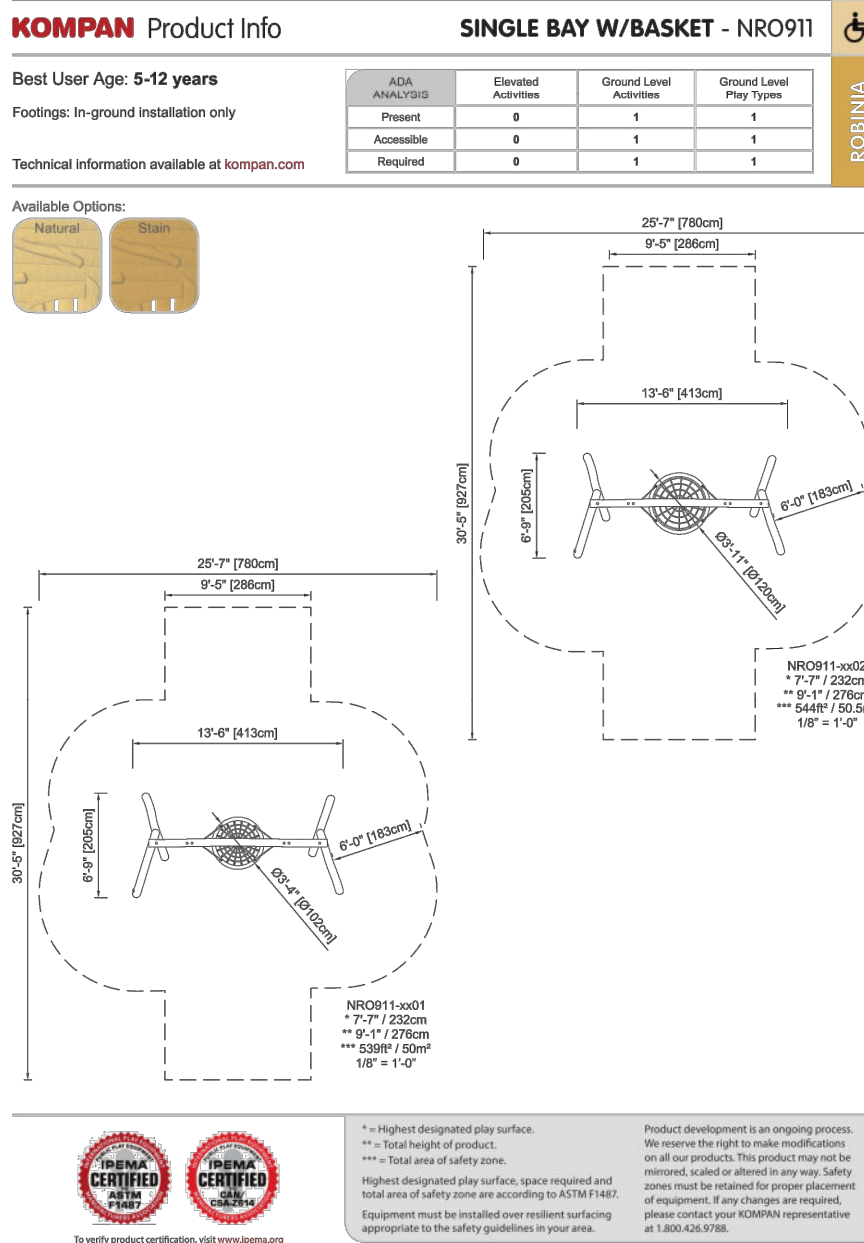
Also, exclusive to our long slides (more than 12' deck height) is a spring system that allows for expansion and contraction in the heat and cold. We recommend this as a precaution against buckling the slide.

Slides may be made of any length. Shown in the picture is a 35 foot embankment slide, but the low price shown is for our smallest slide that fits in a 3 foot high hill. (NOTE: If you are installing a slide exceeding an 8 foot deck height, we may recommend expansion springs be installed to take care of any expansion due to heat.)

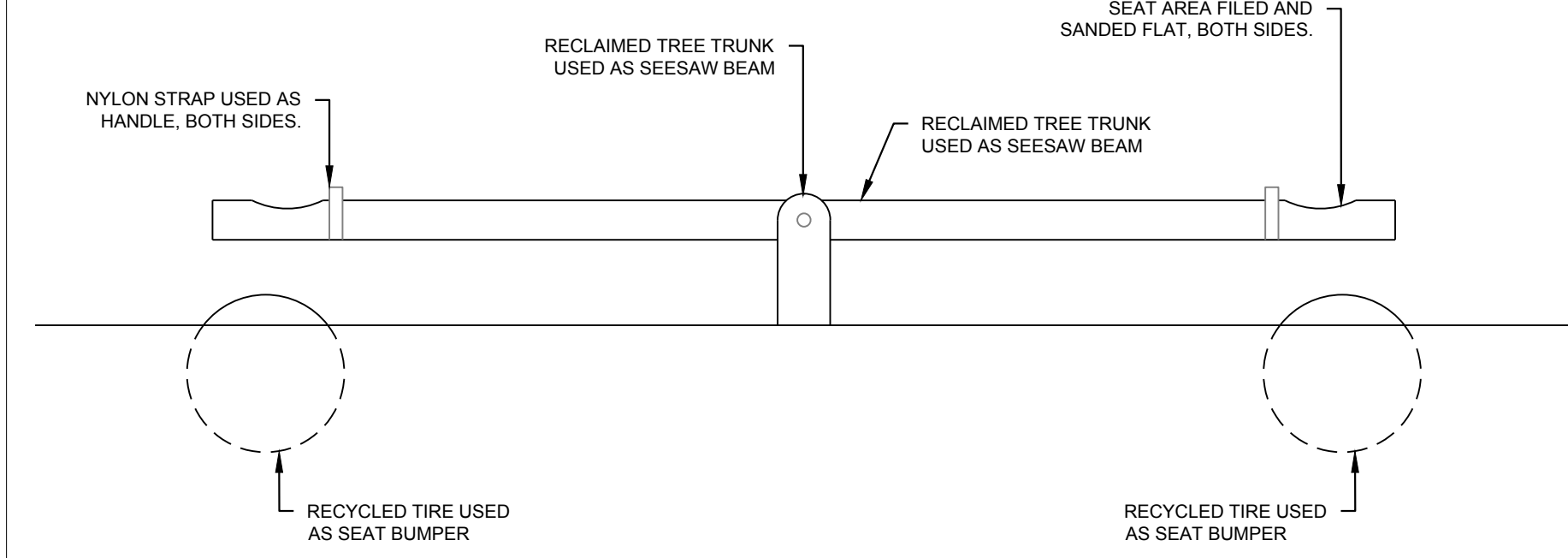
Slides are usually straight, but left or right curves or waves can be included in longer slides to add thrills or slow speed if desired. We suggest the neutral gray color to better fit with a natural playground theme. Dye lots may cause slight color variations on longer slides.

Installation instructions that meet all CPSC and ASTM safety guidelines, all slide hardware, CPSIC approved sit-down bar.

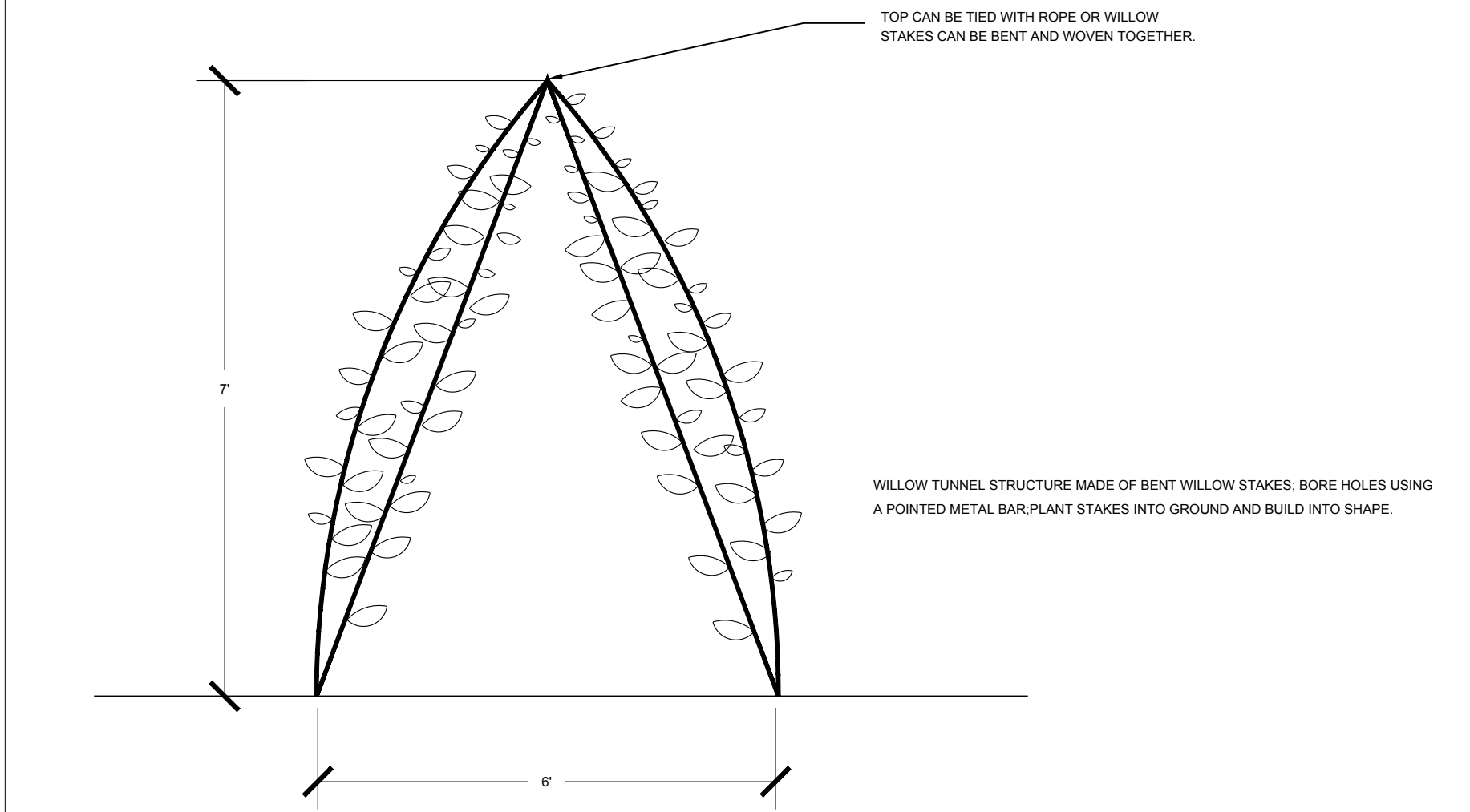
4 Embankment Slide PLAN NTS



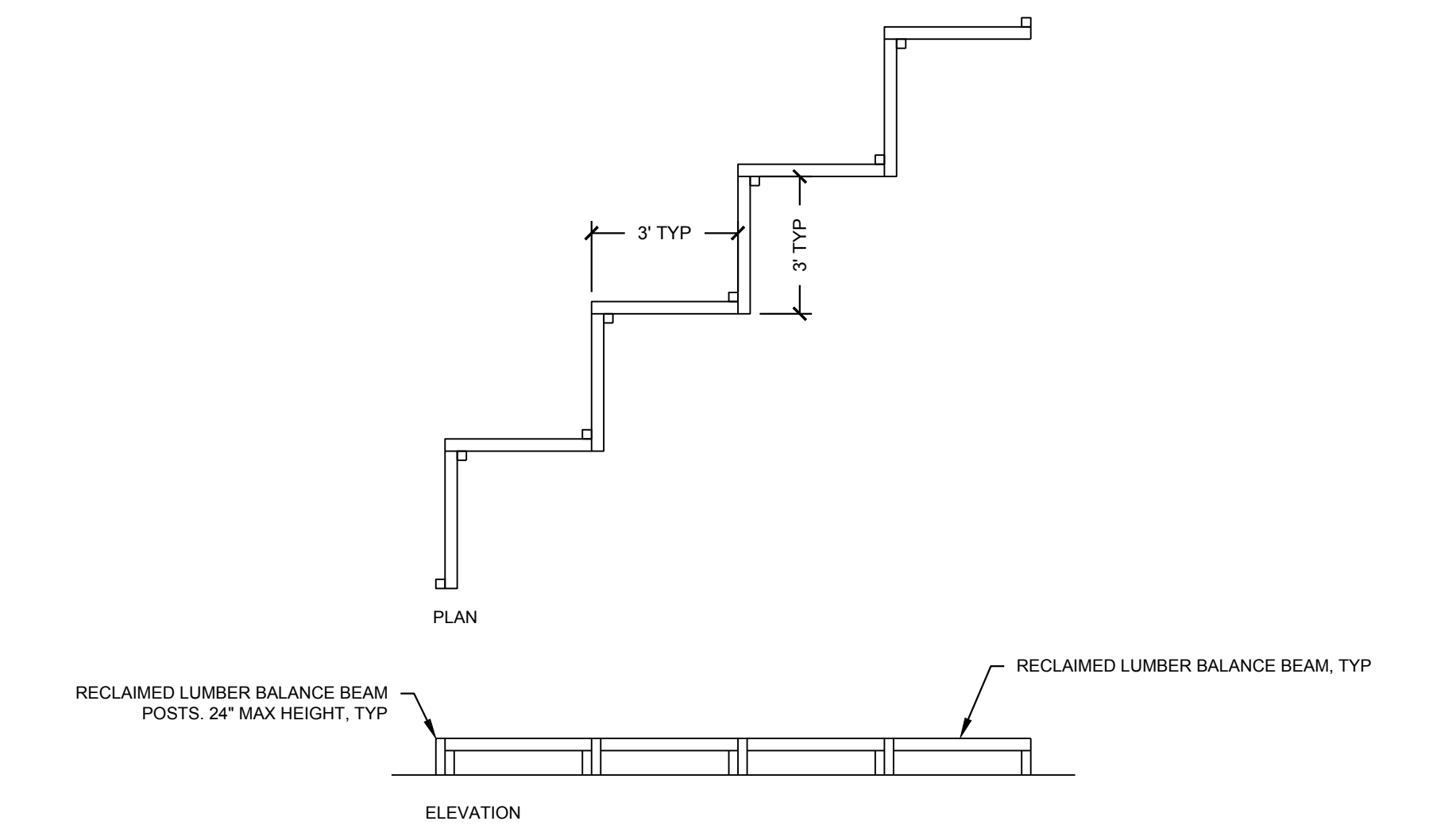
7 KOMPAN SINGLE BAY BASKET SWING PLAN NTS



2 SEESAW ELEVATION NTS



5 WILLOW TUNNEL ELEVATION NTS



8 BALANCE BEAM PLAN NTS

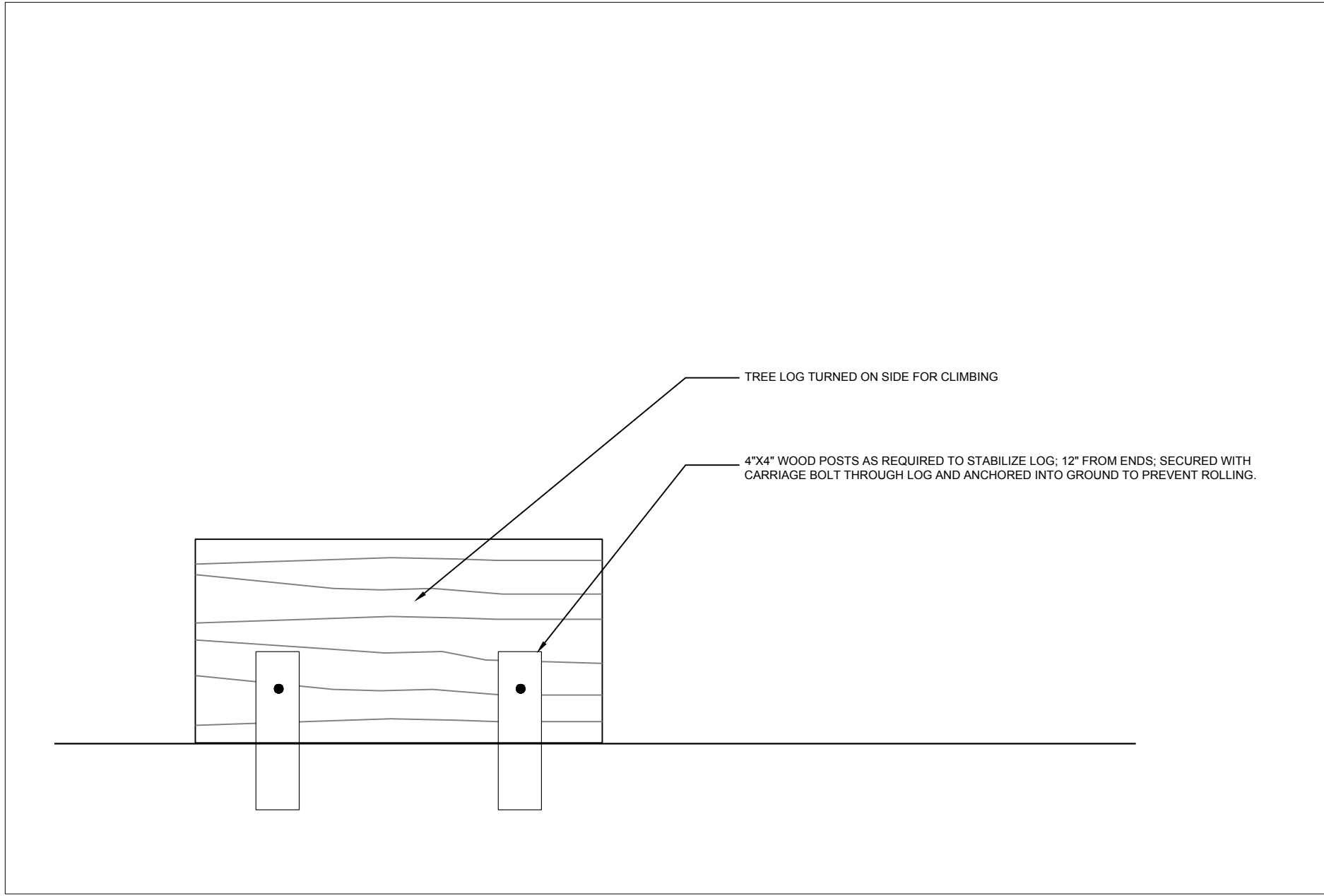
Triple Water Play Center
2637-UP
Ages: 2 - 5 yrs | Use Zone: 11'4" x 6'10" | Capacity: 20 Children

Quick Facts:
• Add flowing water to the tiered channels using a garden hose attached to a bracket, or through an optional child-operated pump.
• Collect water for re-circulating in a bin at the end of the lowest tier.
• Removable dams invite children to halt the flow of water and use floating loose parts.
• Made from Recycled Plastic

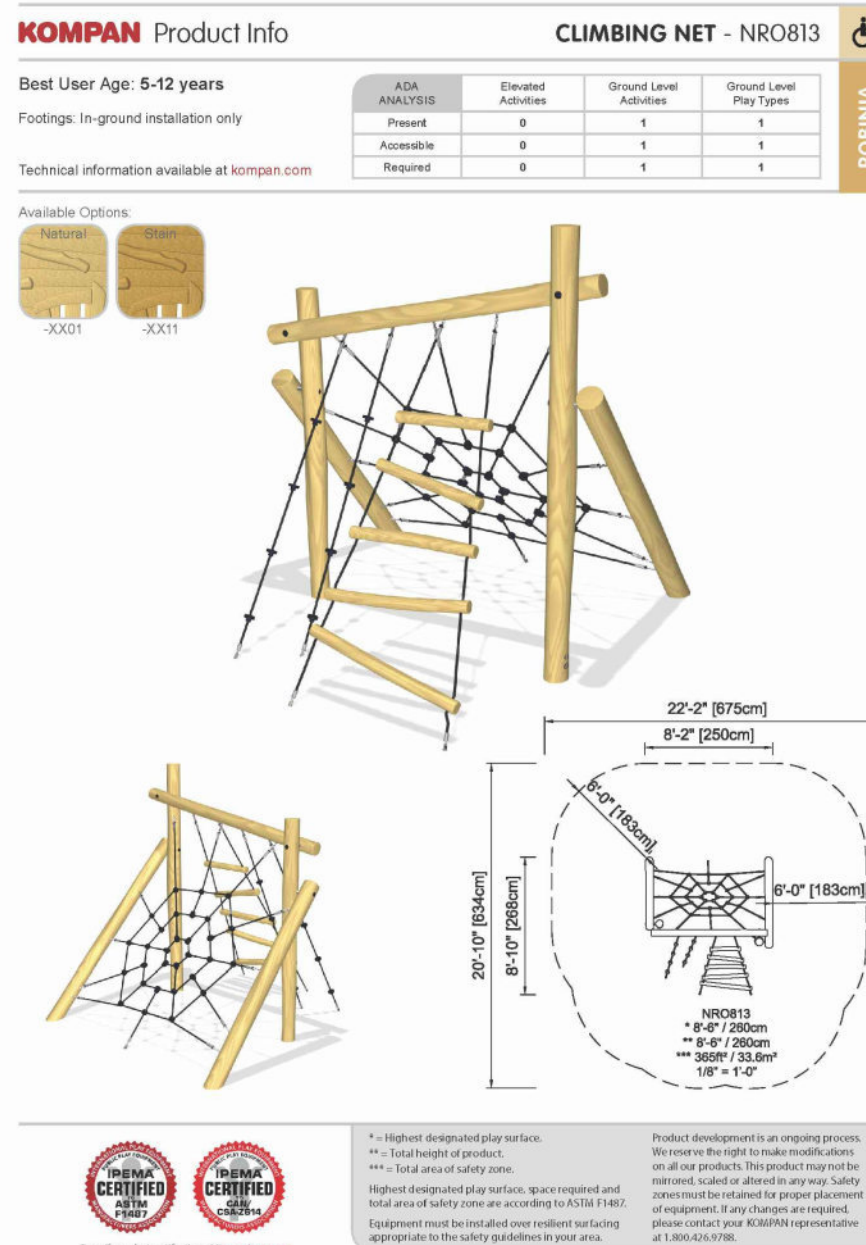
Warranty:
• 10-year limited warranty on support posts (uprights).
• 5-year limited warranty on metal parts including decks, pipes, rails, loops and fangs.
• 3-year limited warranty on reasonably implied polyethylene components.
• 1-year limited warranty on all hardware and all library products in general.

www.BYOPlayground.com | 1-800-853-5316

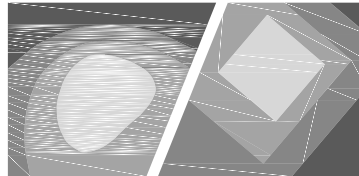
3 WATER TABLE PLAN NTS



6 BALANCING & CLIMBING LOG ELEVATION NTS



9 KOMPAN CLIMBING NET PLAN NTS



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: (919) 380-8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

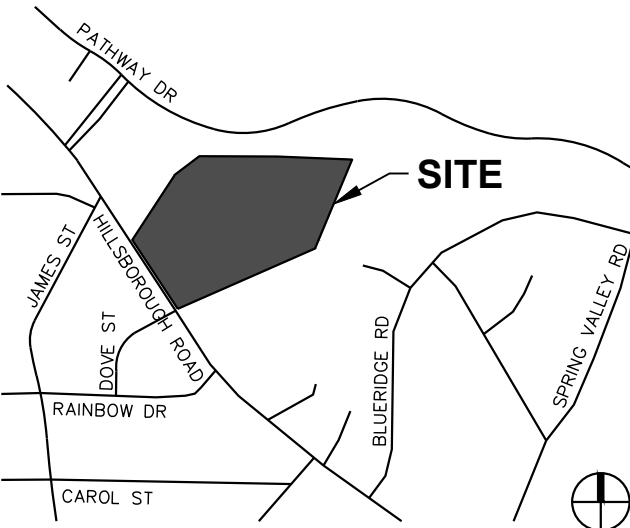
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



Seal:



Issued for:

CONSTRUCTION DOCUMENTS

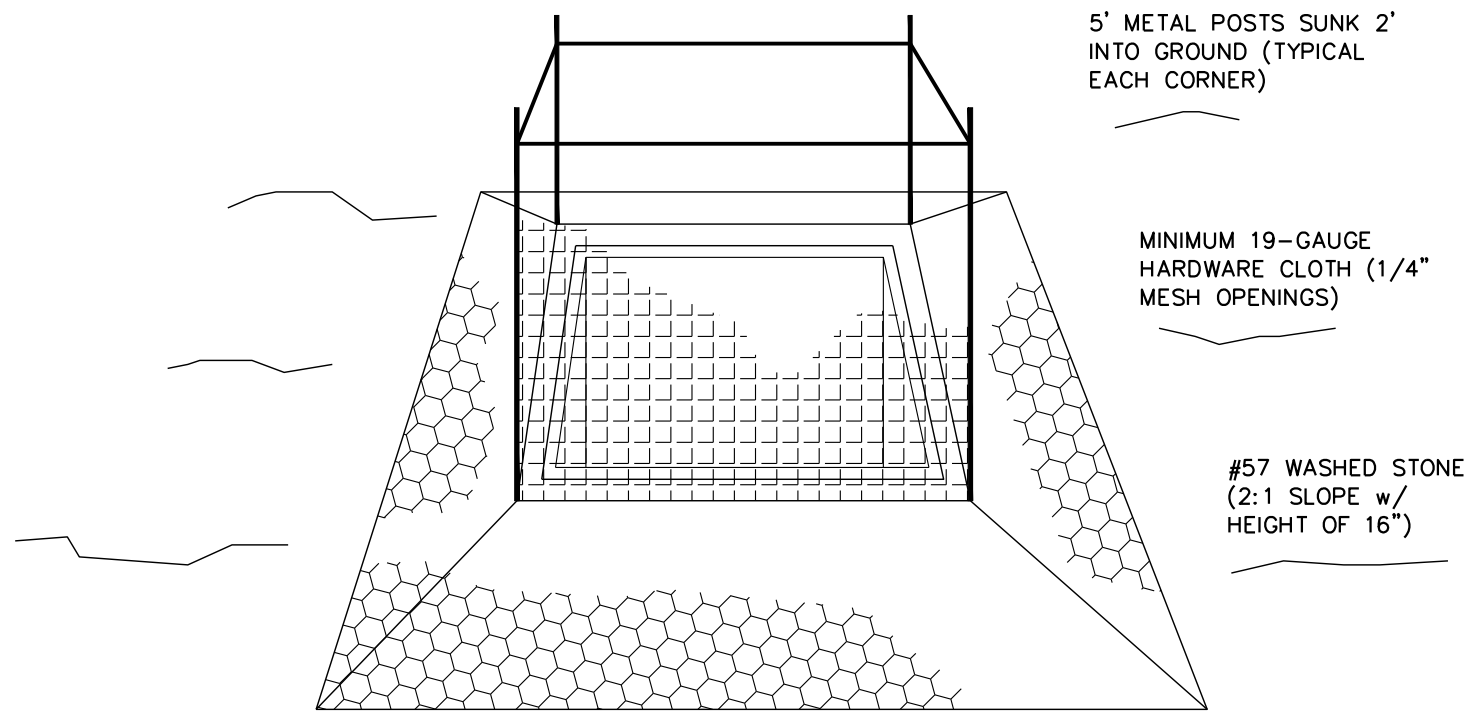
No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	11.16.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS

Title:

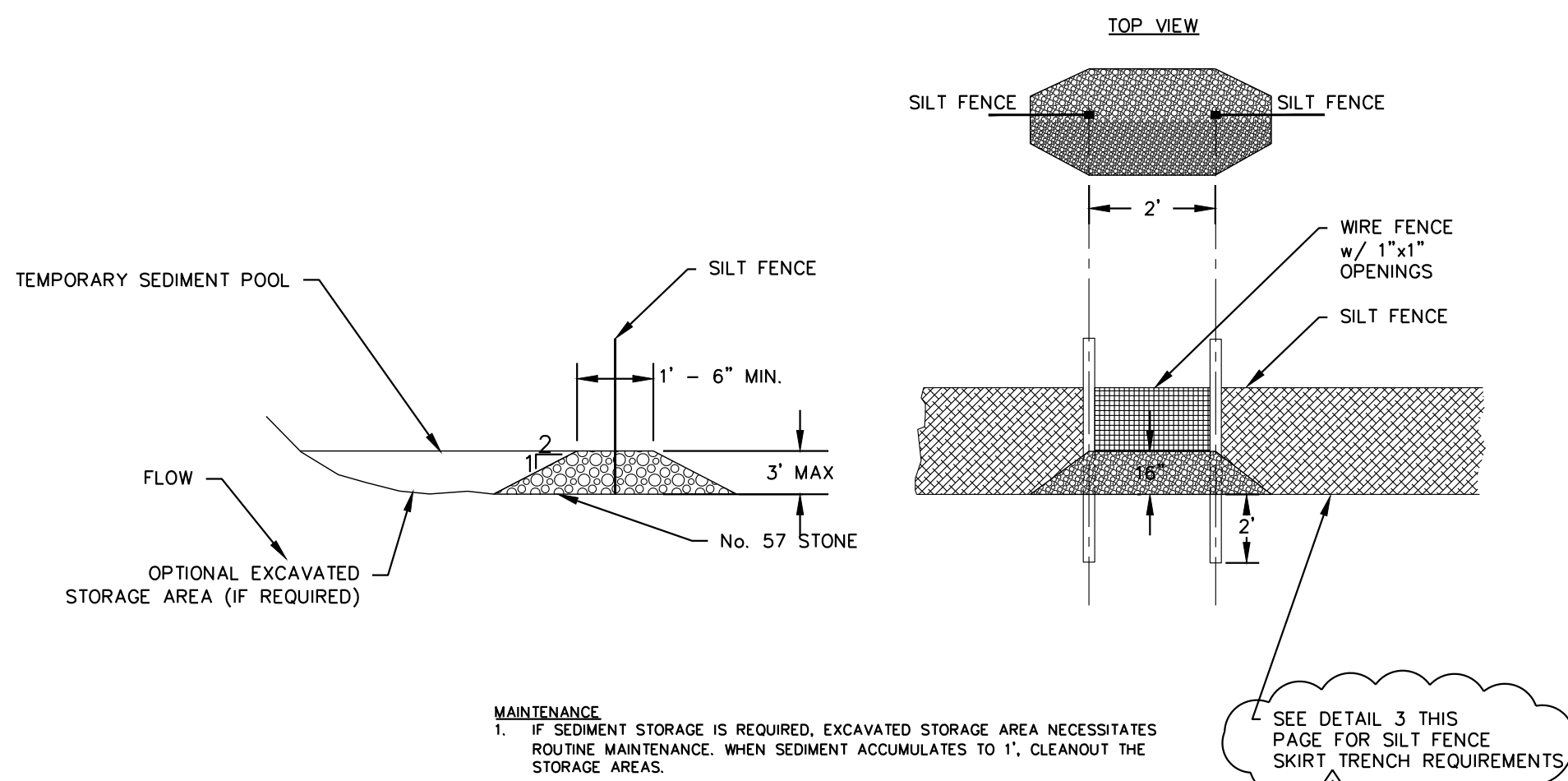
SITE DETAILS

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: TPG
Approved by: JLW

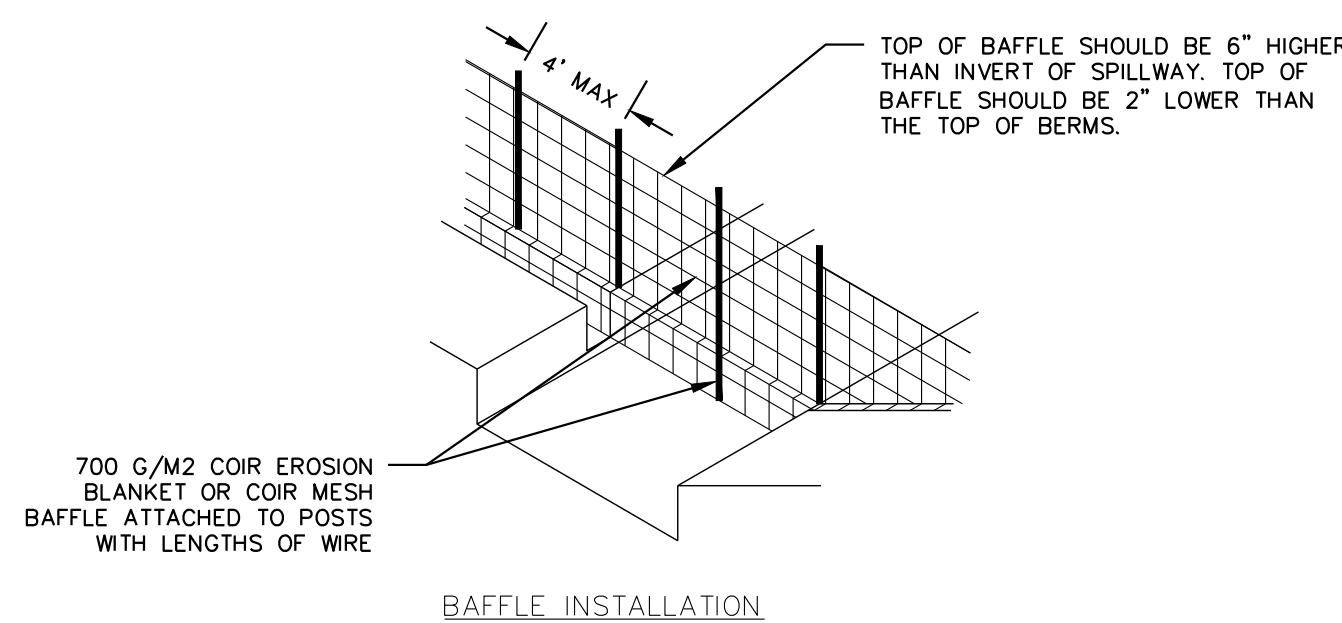
C9.02



1 BLOCK AND GRAVEL INLET PROTECTION PLAN

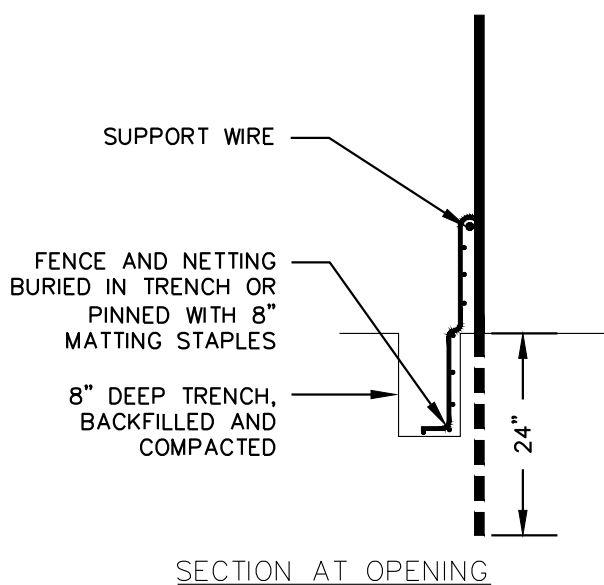


4 SILT FENCE OUTLET SECTION



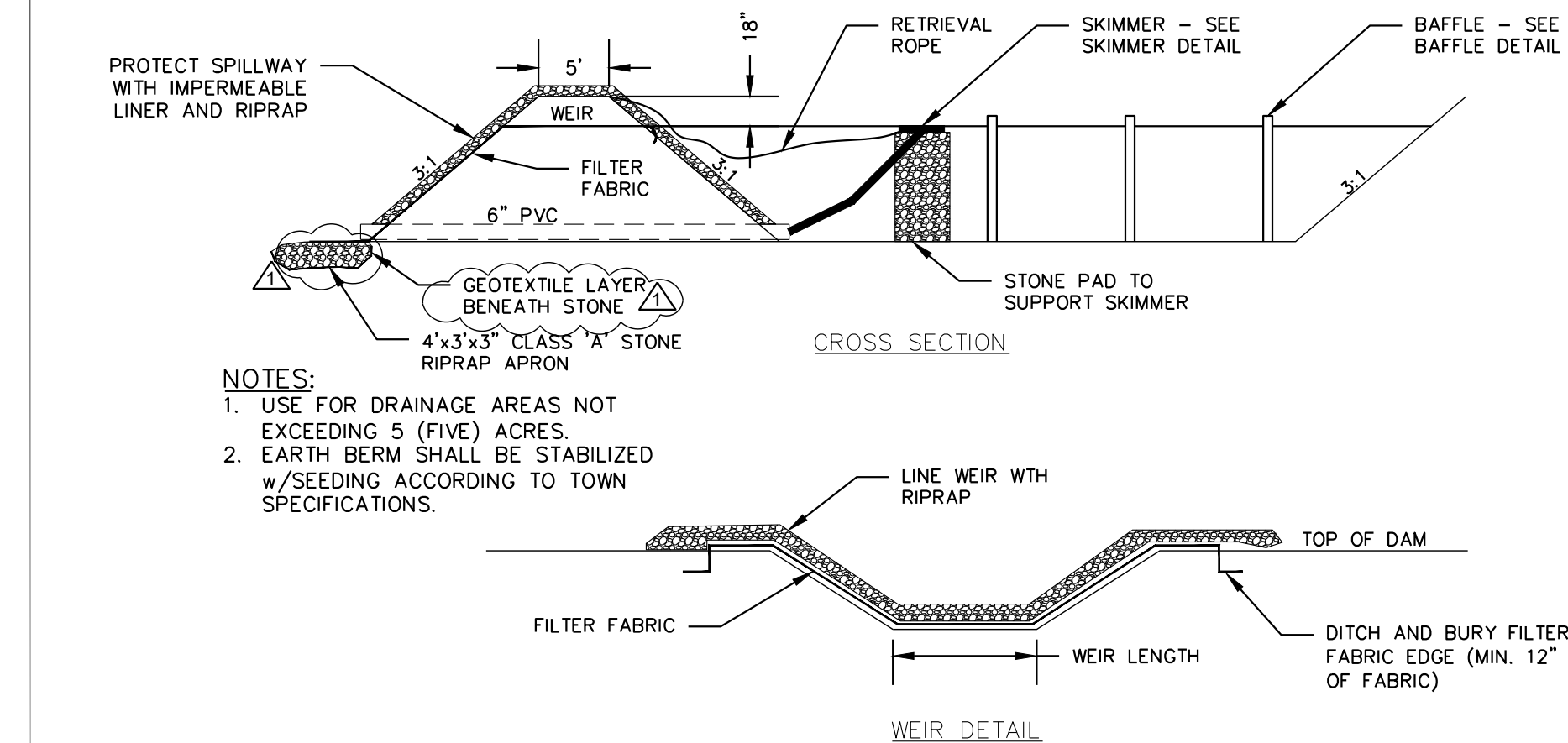
- NOTES**
1. DRIVE STEEL FENCE POST AT LEAST 24\"/>
- MAINTENANCE**
1. INSPECT BAFFLES AT LEAST ONCE A WEEK OR AFTER ANY RAINFALL
 2. REMOVE SEDIMENT WHEN IT REACHES HALF FULL. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGN STORAGE DEPTH.
 3. TAKE ALL PRECAUTION TO MAINTAIN QUALITY OF BAFFLES. IF BAFFLES ARE DAMAGE, REMOVE AND REPLACE.

6 BAFFLE SECTION



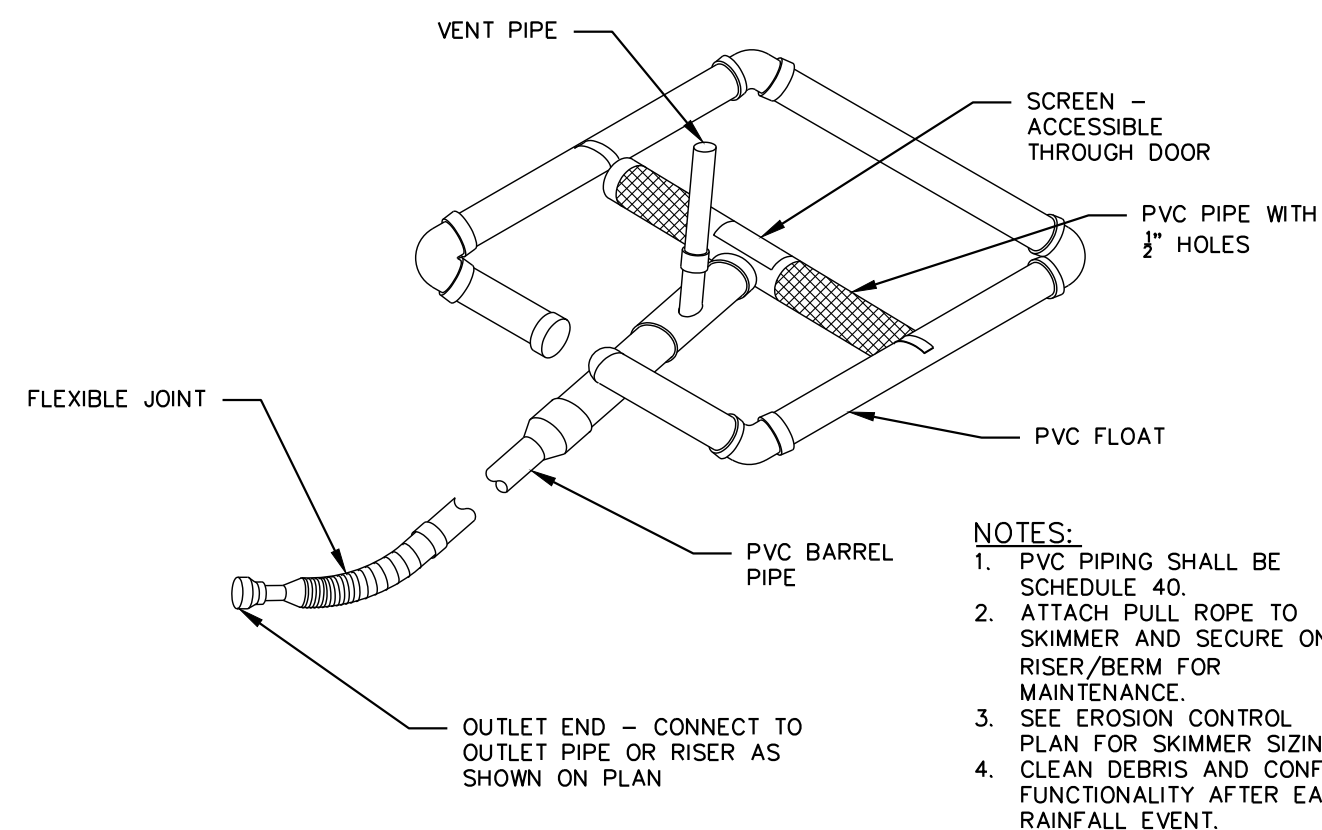
NTS

2 CHECK DAM SECTION



- MAINTENANCE**
1. INSPECT TEMPORARY SEDIMENT TRAPS AND EMPTY SKIMMER OF ALL DEBRIS AFTER EACH PERIOD OF SIGNIFICANT RAINFALL. REMOVE SEDIMENT AND RESTORE 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 A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.
 2. CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.
 3. STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION WITH SEEDING.

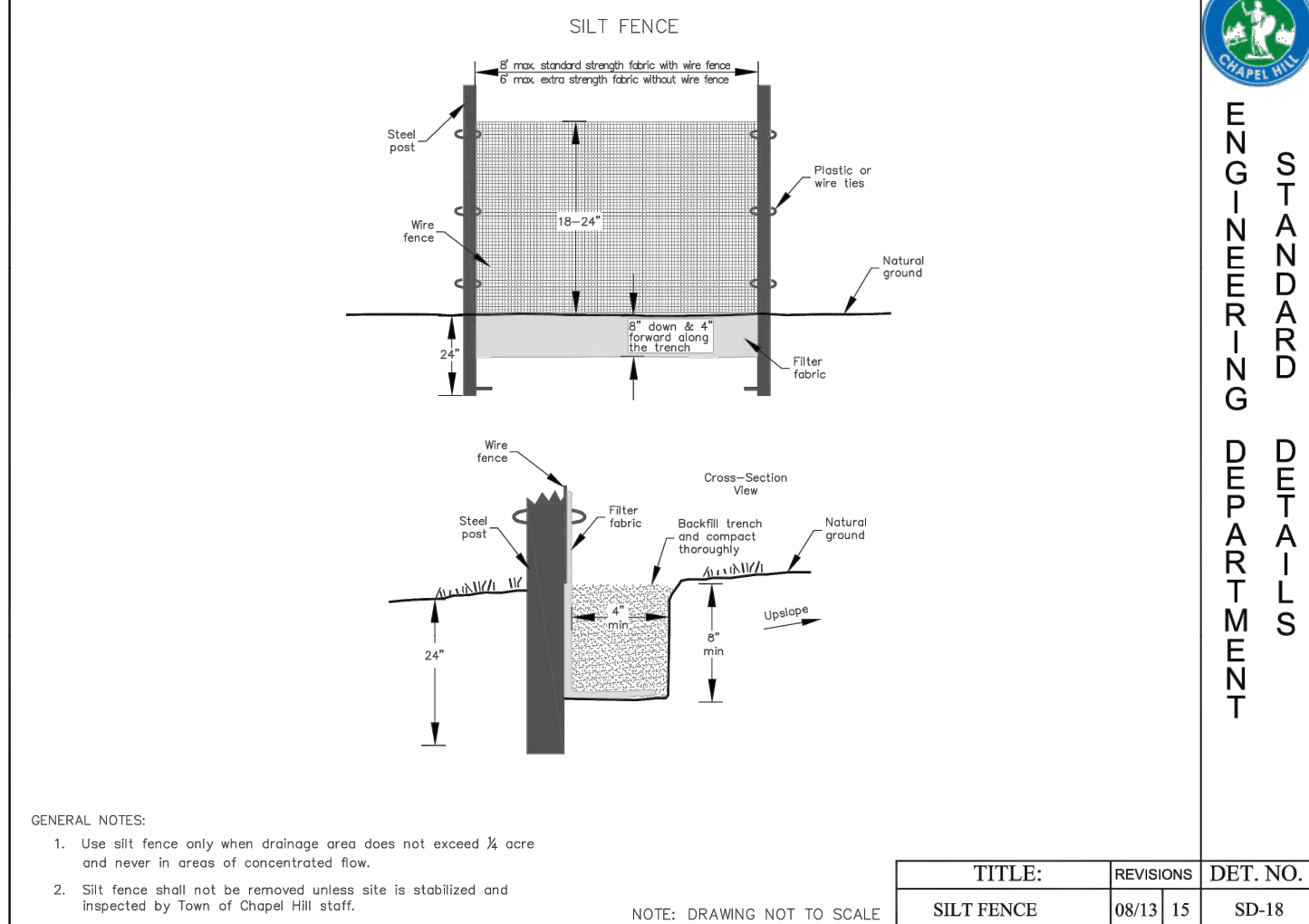
5 SKIMMER SEDIMENT BASIN SECTION



7 SKIMMER SECTION

NTS

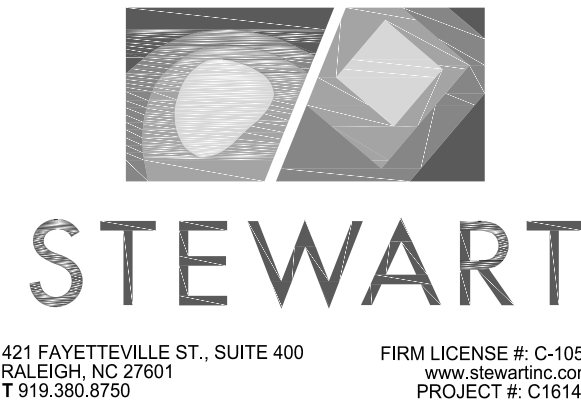
3 SILT FENCE SECTION



- TYPICAL NOTES**
1. STONE SHALL BE 2-3\"/>
- CONSTRUCTION SPECIFICATIONS/MAINTENANCE**
1. CLEAR THE ENTRANCE/EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE THE AREA.
 2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS AND SMOOTH IT.
 3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
 4. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL EVENT, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL MATERIALS SPILLED, WASHED, OR TRACKED OFF THE CONSTRUCTION SITE OR ONTO PUBLIC ROADWAYS.

8 CONSTRUCTION ENTRANCE SECTION

NTS



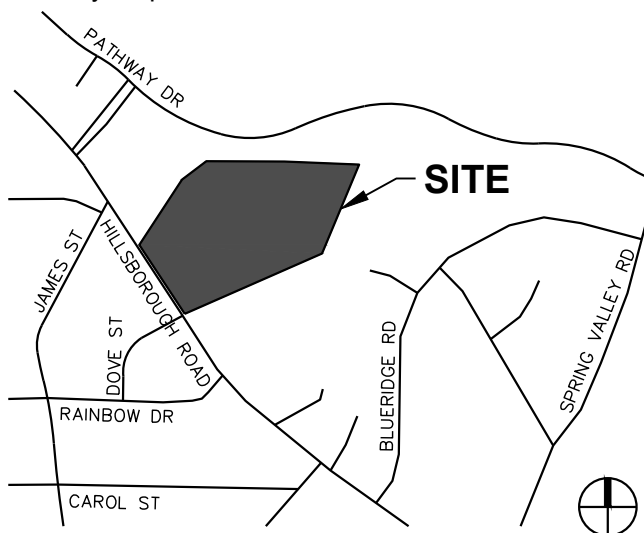
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



Seal:



Issued for:

CONSTRUCTION DOCUMENTS

No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	09.18.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS

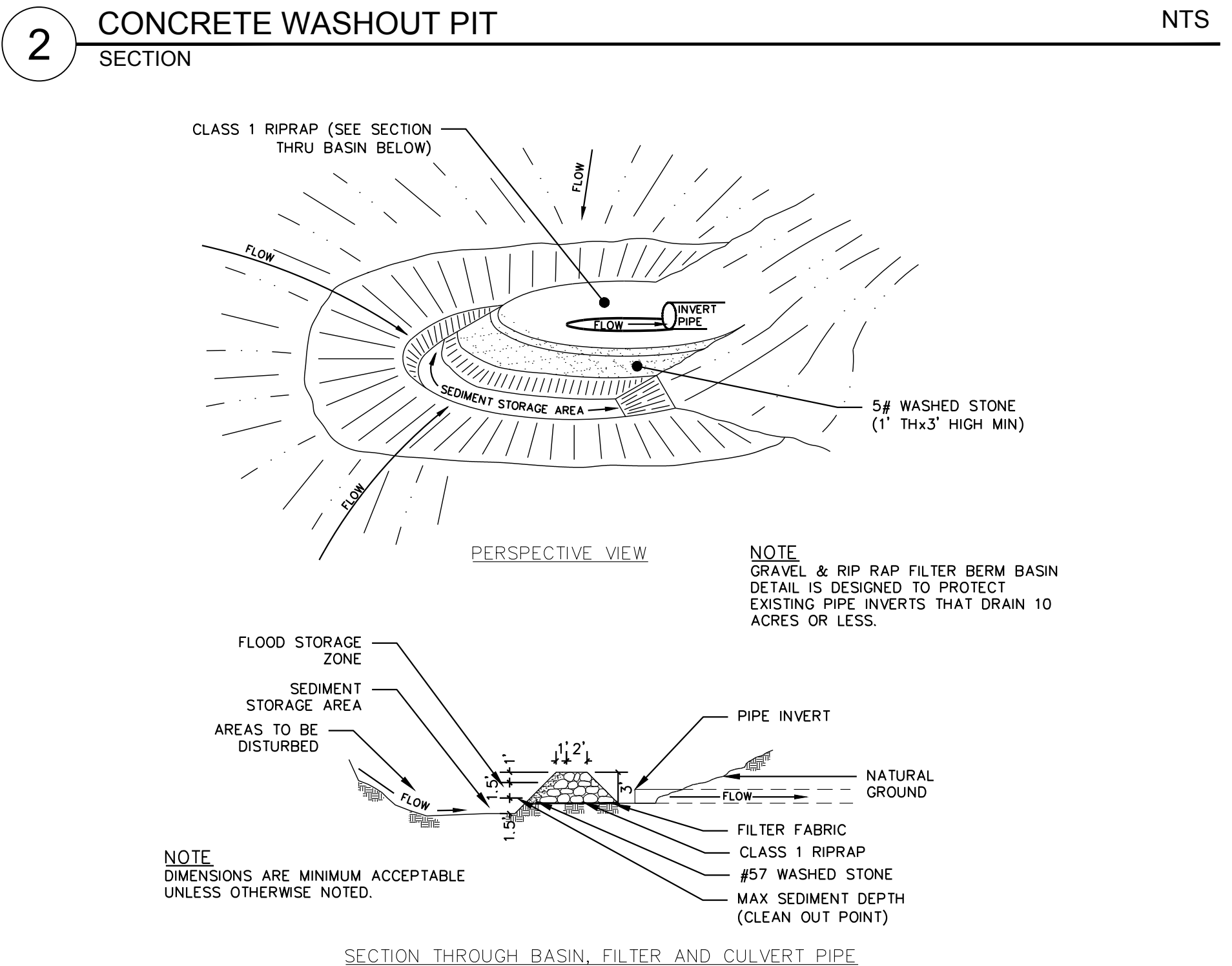
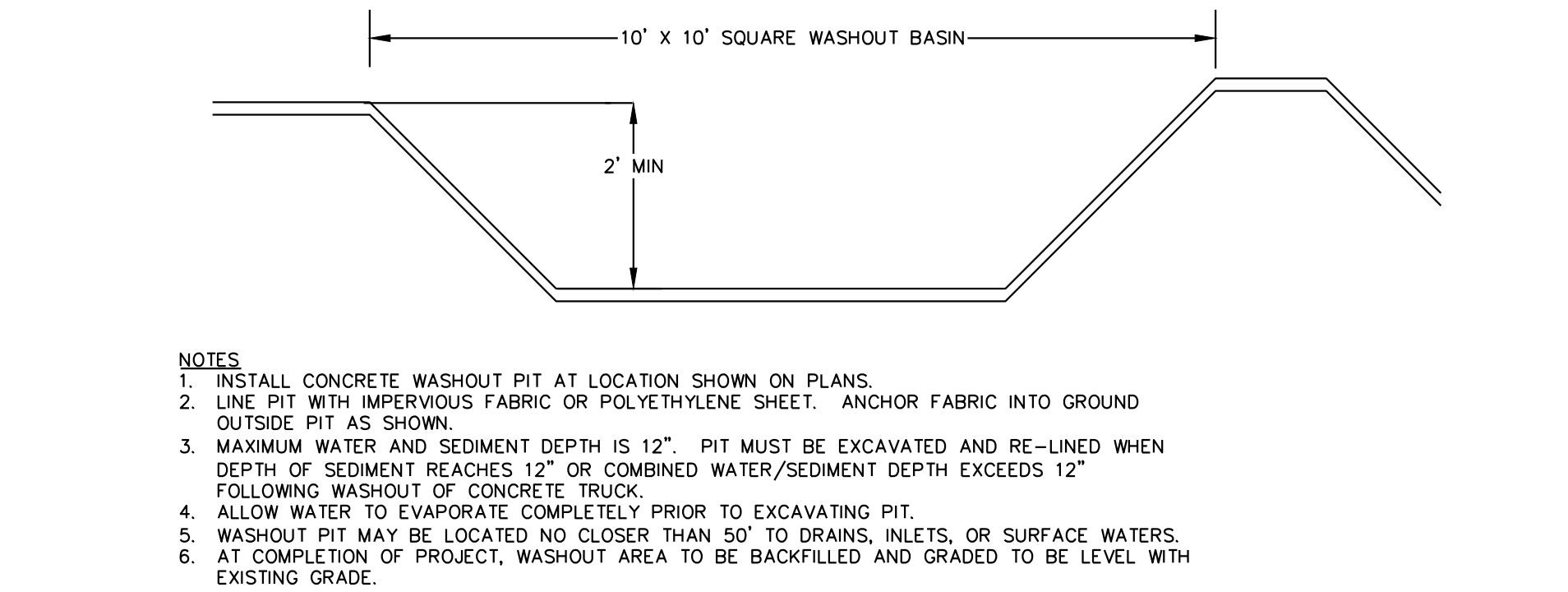
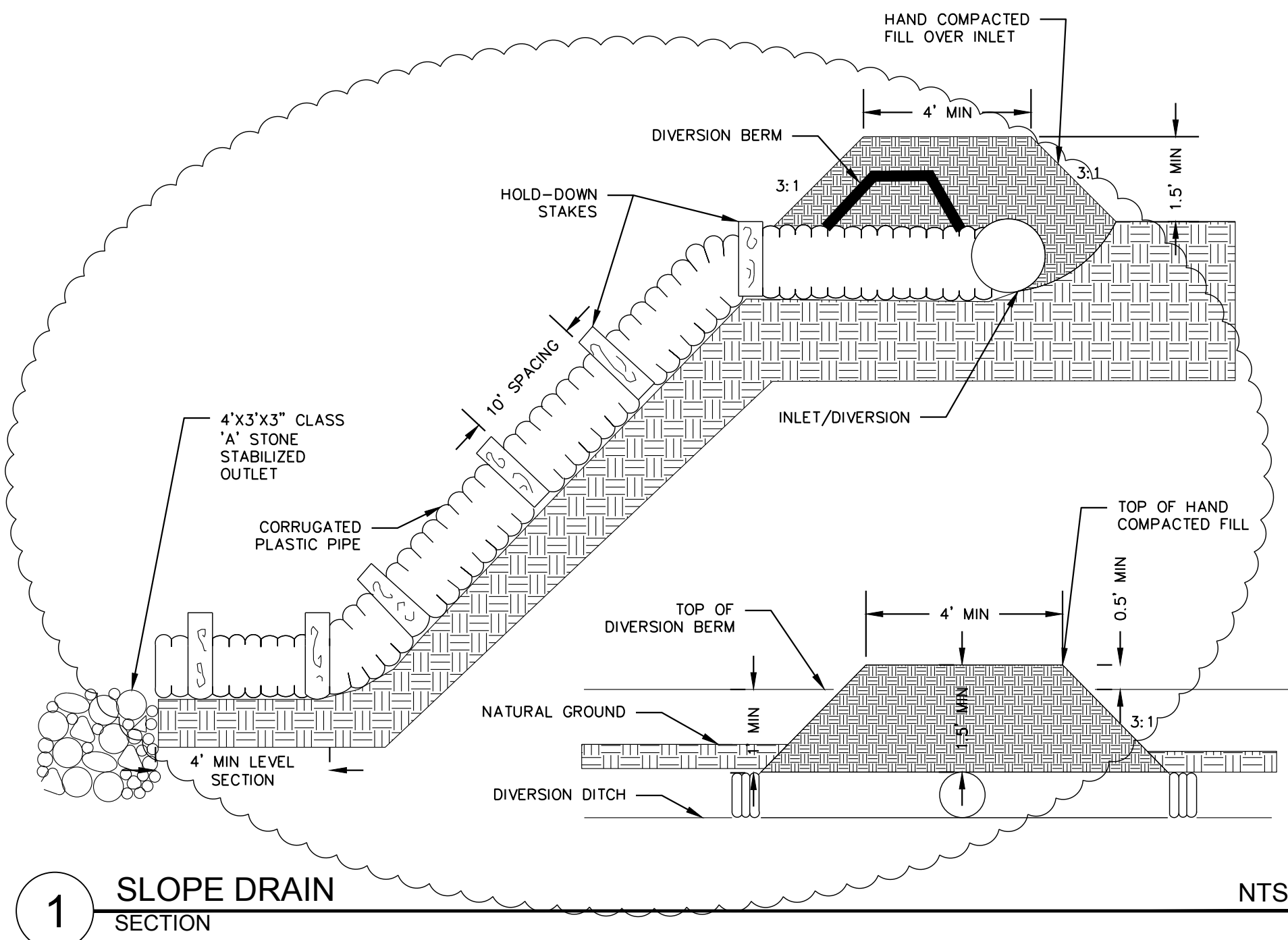
Title:

EROSION CONTROL DETAILS

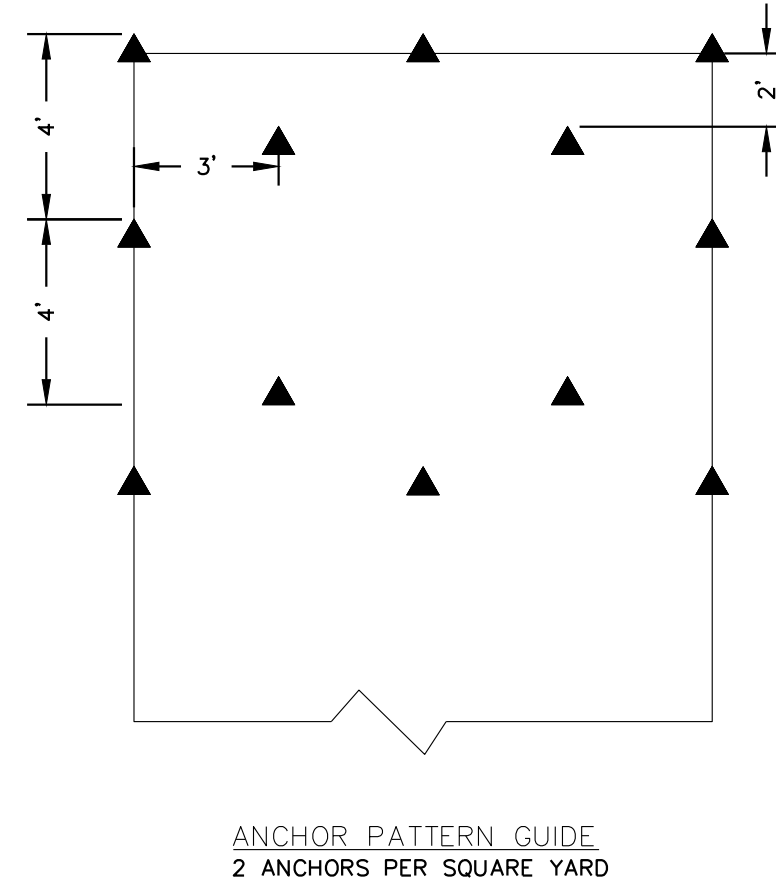
Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

C9.10

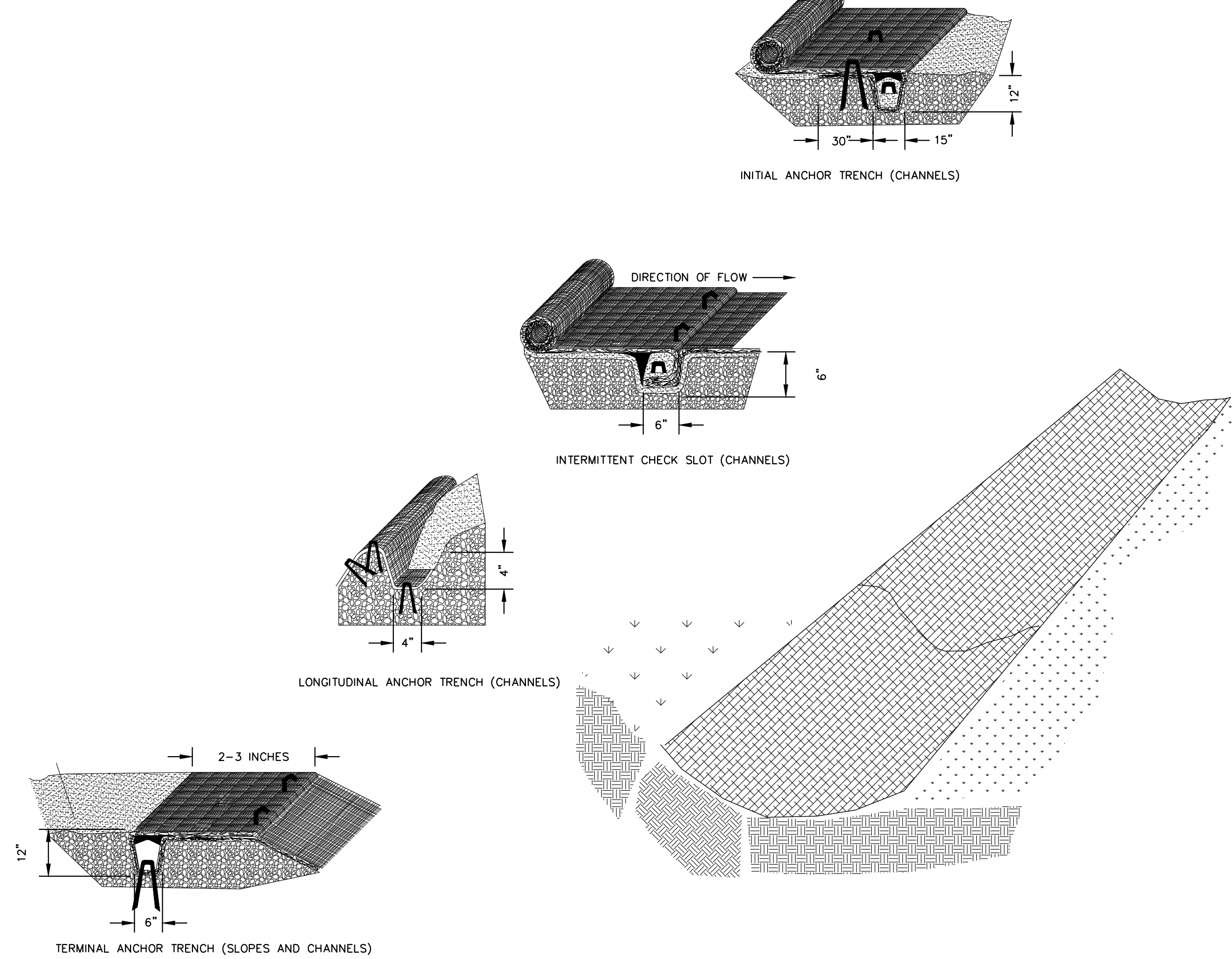
Q:\2016\16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-C9-00-Details - ENGR.dwg Jan 12, 2018 - 8:14am



4 STABILIZATION MAT INSTALLATION DETAIL SECTION



5 TEMPORARY DIVERSION BERM/DITCH DETAIL SECTION



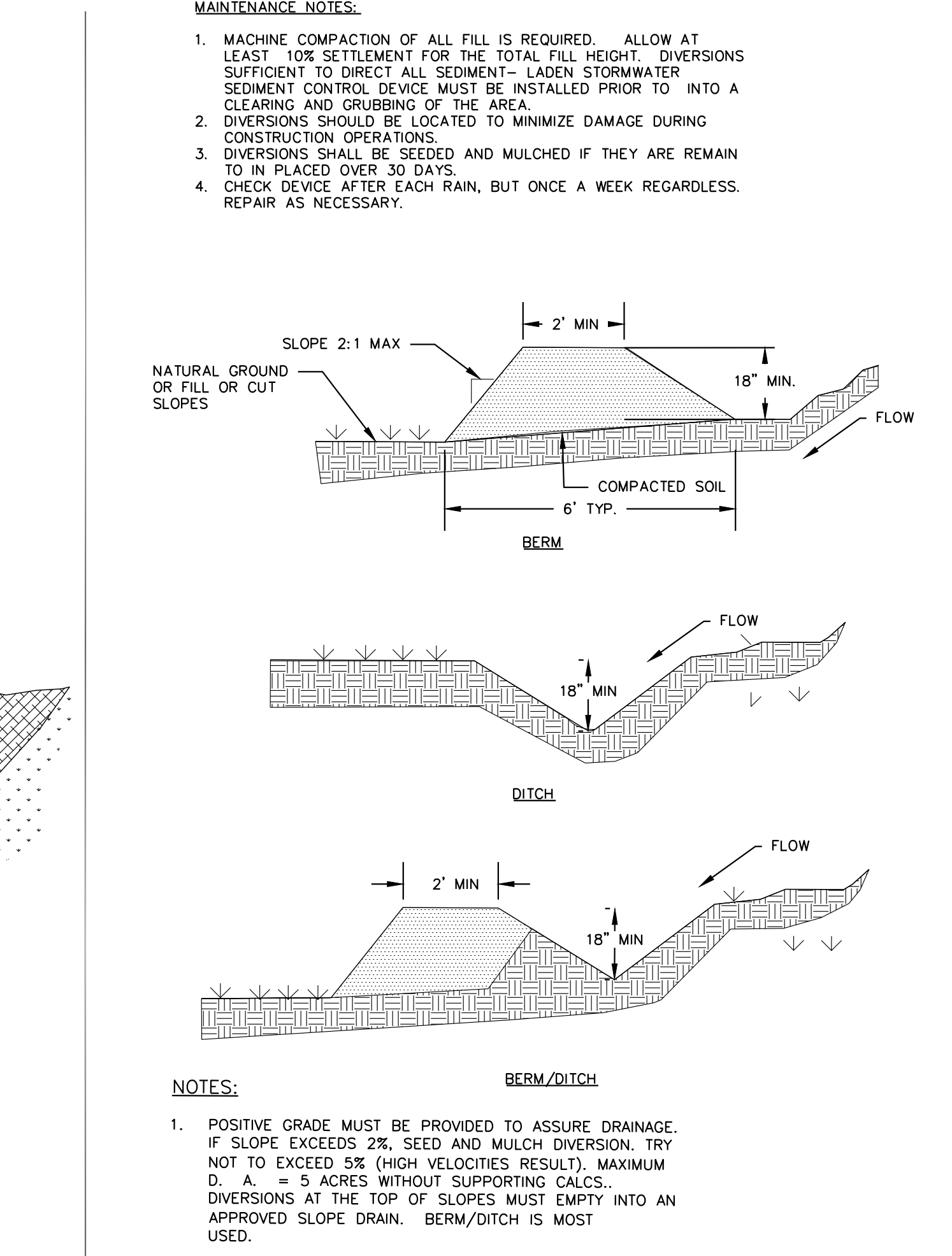
SEE STABILIZATION MAT INSTALLATION SEQUENCE

SITE PREPARATION:

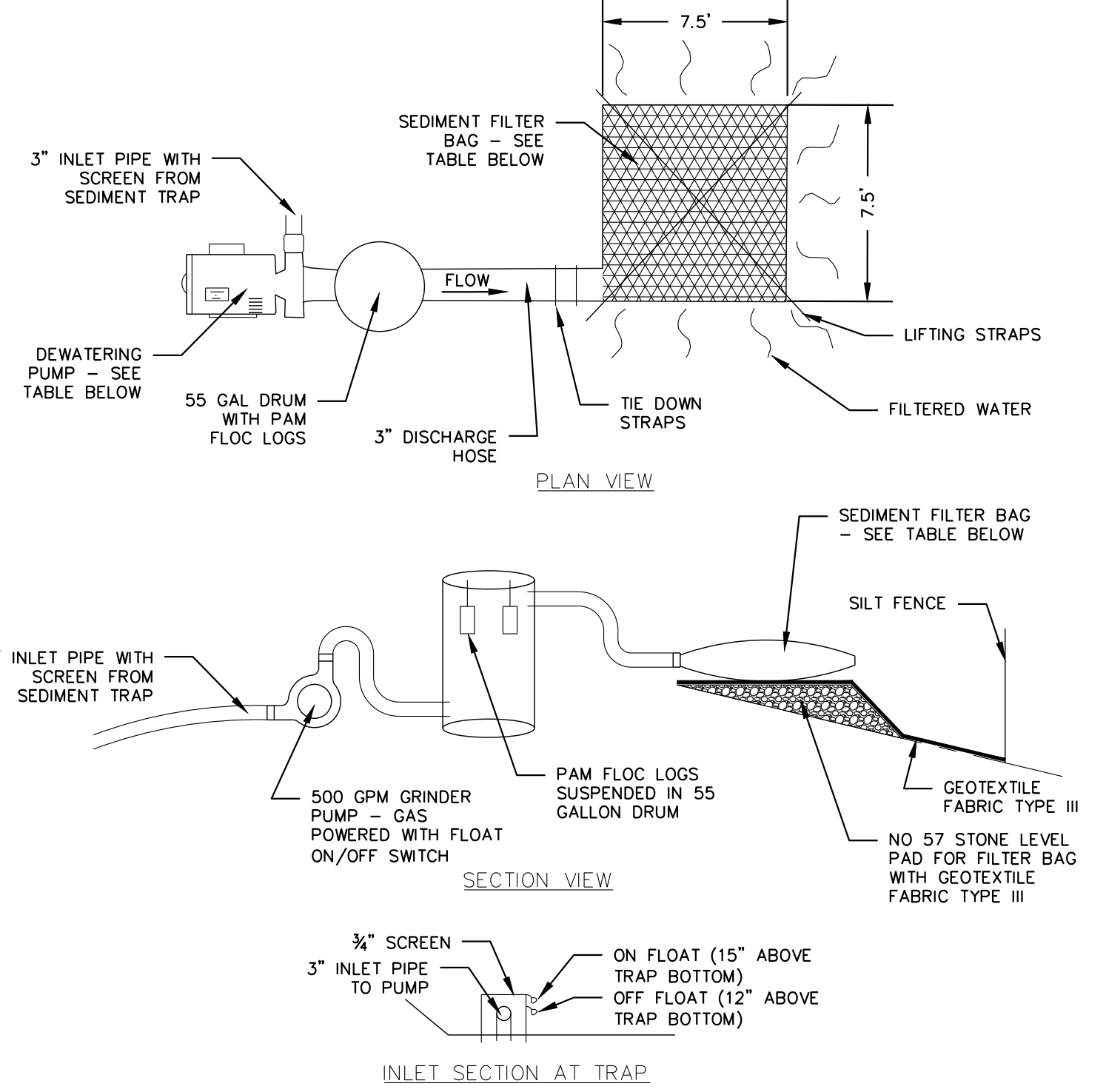
1. GRADE AND COMPACT AREA OF INSTALLATION.
2. PREPARE SEEDBED BY LOOSENING 2-3" OF TOPSOIL ABOVE FINAL GRADE.
3. INCORPORATE AMENDMENTS SUCH AS LIME AND FERTILIZER INTO SOIL IF NEEDED OR RECOMMENDED.
4. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED STABILIZATION MAT WILL HAVE DIRECT CONTACT WITH THE SOIL SURFACE.
5. DO NOT MULCH AREAS WHERE STABILIZATION MAT IS TO BE PLACED.

STABILIZATION MAT PLACEMENT: CHANNELS

1. EXCAVATE AN INITIAL ANCHOR TRENCH 12" DEEP AND 6" WIDE ACROSS THE CHANNEL AT THE LOWER END OF THE PROJECT AREA.
2. EXCAVATE INTERMITTENT CHECK SLOTS 6" DEEP AND 6" WIDE ACROSS THE CHANNEL AT 30' INTERVALS ALONG THE CHANNEL.
3. CUT LONGITUDINAL CHANNEL ANCHOR SLOTS 4" DEEP AND 4" WIDE ALONG BOTH SIDES OF THE INSTALLATION TO BURY THE EDGES OF THE MAT. WHENEVER POSSIBLE, EXTEND MAT 2-3' ABOVE CREST OF CHANNEL SIDE SLOPES.
4. BEGINNING AT THE CENTER OF DOWNSTREAM END OF THE CHANNEL, PLACE THE END OF THE FIRST ROLL IN THE ANCHOR TRENCH AND SECURE WITH FASTENING DEVICES AT 1' INTERVALS.
5. IN SAME MANNER, POSITION ADJACENT ROLLS IN ANCHOR ROLLS IN ANCHOR TRENCH, OVERLAPPING THE PRECEDING ROLL A MINIMUM OF 3'.
6. SECURE AT 1' INTERVALS, BACKFILL AND COMPACT SOIL.
7. UNROLL ADJACENT ROLLS UPSTREAM IN ORDER TO MAINTAIN 3' OVERLAP AND ANCHORING AT 18" INTERVALS.
8. FOLD AND SECURE ALL STABILIZATION MAT ROLLS SNUGLY INTO INTERMITTENT CHECK SLOTS. LAY MAT IN THE BOTTOM AND FOLD BACK AGAINST ITSELF. ANCHOR THROUGH BOTH LAYERS OF MAT AT 1' INTERVALS THEN BACKFILL AND COMPACT SOIL. CONTINUE ROLLING MAT UPSTREAM OVER THE COMPACTED SLOT TO THE NEXT CHECK SLOT OR TERMINAL ANCHOR TRENCH.
9. OVERLAP ROLL ENDS A MINIMUM OF 1' WITH UPSTREAM MAT ON TOP. BEGIN ALL NEW ROLLS IN A CHECK SLOT. ANCHOR OVERLAPPED AREA BY PLACING TWO ROWS OF ANCHORS, 1' APART ON 1' INTERVALS.
10. PLACE OUTER EDGE OF MAT IN PREVIOUSLY EXCAVATED LONGITUDINAL SLOTS, ANCHOR USING PRESCRIBED PATTERN, BACKFILL AND COMPACT SOIL.
11. ANCHOR, BACKFILL AND COMPACT UPSTREAM END OF STABILIZATION MAT IN A 12" X 6" TERMINAL TRENCH.
12. SECURE MAT TO GROUND SURFACE USING U-SHAPED STAPLES (PREFERRED) OR GEOTEXTILE PINS.
13. REFER TO SUPPLIED ANCHOR PATTERN FOR APPROPRIATE NUMBER AND PATTERN OF ANCHORS.
14. WHEN USING A STABILIZATION MAT, ALWAYS SEED AFTER INSTALLING MAT, THEN FILL WITH SOIL.



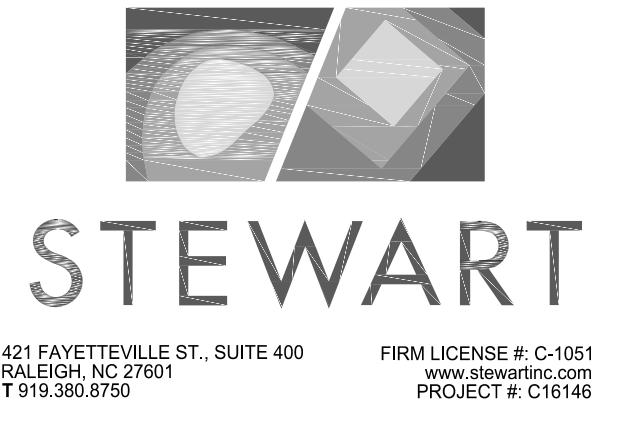
6 PUMP AND SEDIMENT FILTER BAG SECTION



MAXIMUM PUMP RATE (GPM)	SILT BAG DIMENSIONS (LxW)
225	5'x5'
270	5'x6'
500	7.5'x7.5'
840	6.25'x15'
900	10'x10'
1300	10'x15'
1600	12'x15'
2000	15'x15'
4000	15'x30'
8000	30'x30'

- TYPICAL NOTES
1. LIFTING STRAPS SHOULD BE PLACED UNDER THE FILTER BAG TO FACILITATE REMOVAL AFTER USE.
 2. PLACE FILTER BAG ON A LEVEL STABILIZED AREA. VERIFY DRAINAGE PATH FROM BAG IS STABILIZED ALSO.
 3. TIGHTLY SECURE HOSE TO FILTER BAG TO ENSURE WATER IS FILTERED.
 4. REPLACE UNIT WHEN ONE HALF FULL OF SEDIMENT OR WHEN DISCHARGE RATE FROM BAG IS REDUCED TO AN IMPRACTICABLE LEVEL OR WHEN DIRECTED BY THE ENGINEER/INSPECTOR.
 5. DISPOSE OF USED SEDIMENT FILTER BAG AT APPROVED LICENCED LANDFILL.

- CONSTRUCTION SPECIFICATIONS/MAINTENANCE
1. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER SATISFACTORY TO ENGINEER/INSPECTOR.



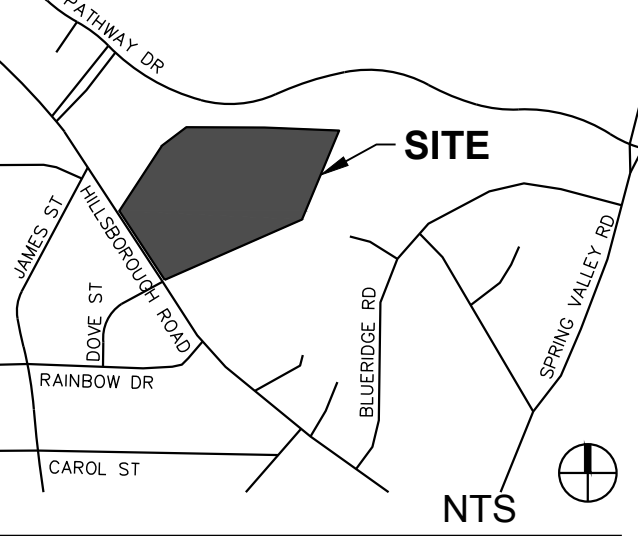
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



Seal:



Issued for:

CONSTRUCTION DOCUMENTS

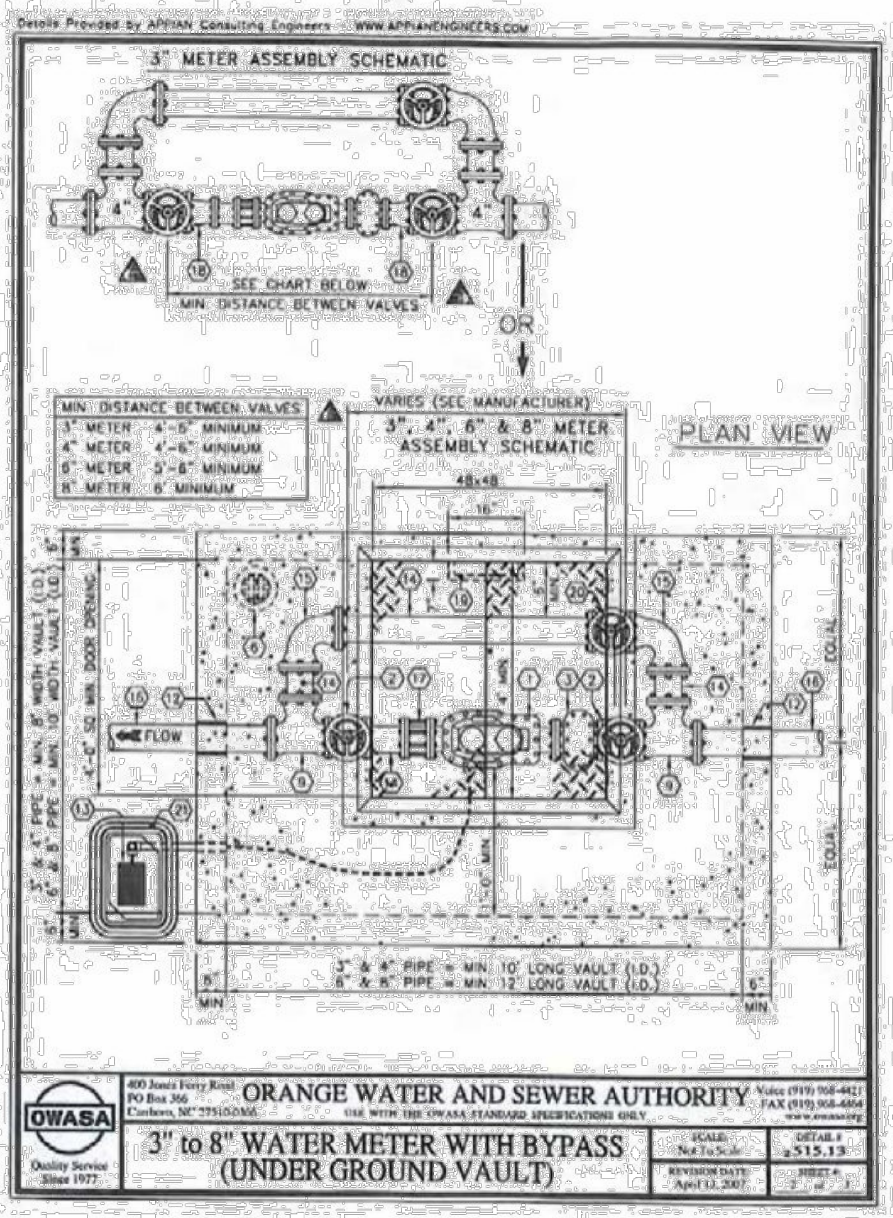
No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	09.18.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS

Title:

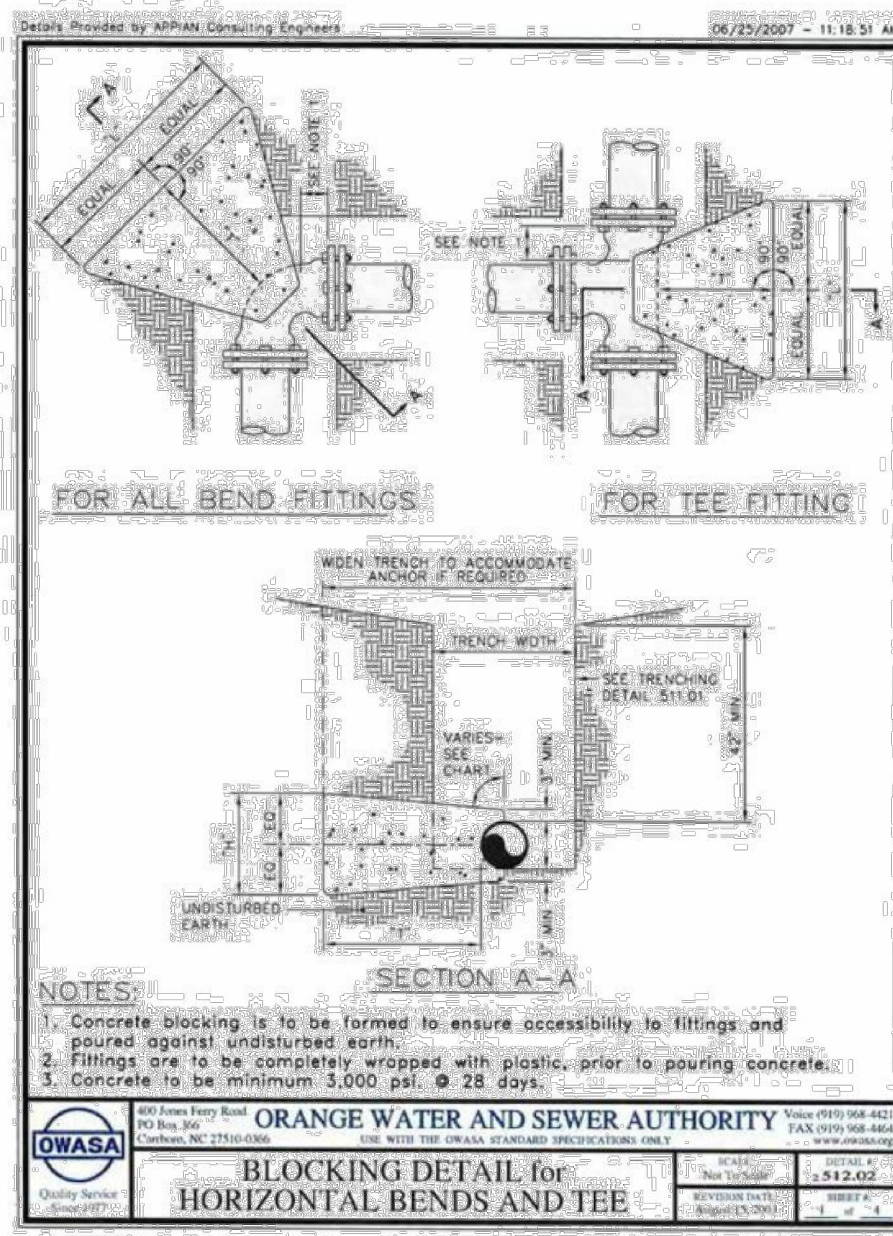
EROSION CONTROL DETAILS

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: CJJ
Approved by: JWP

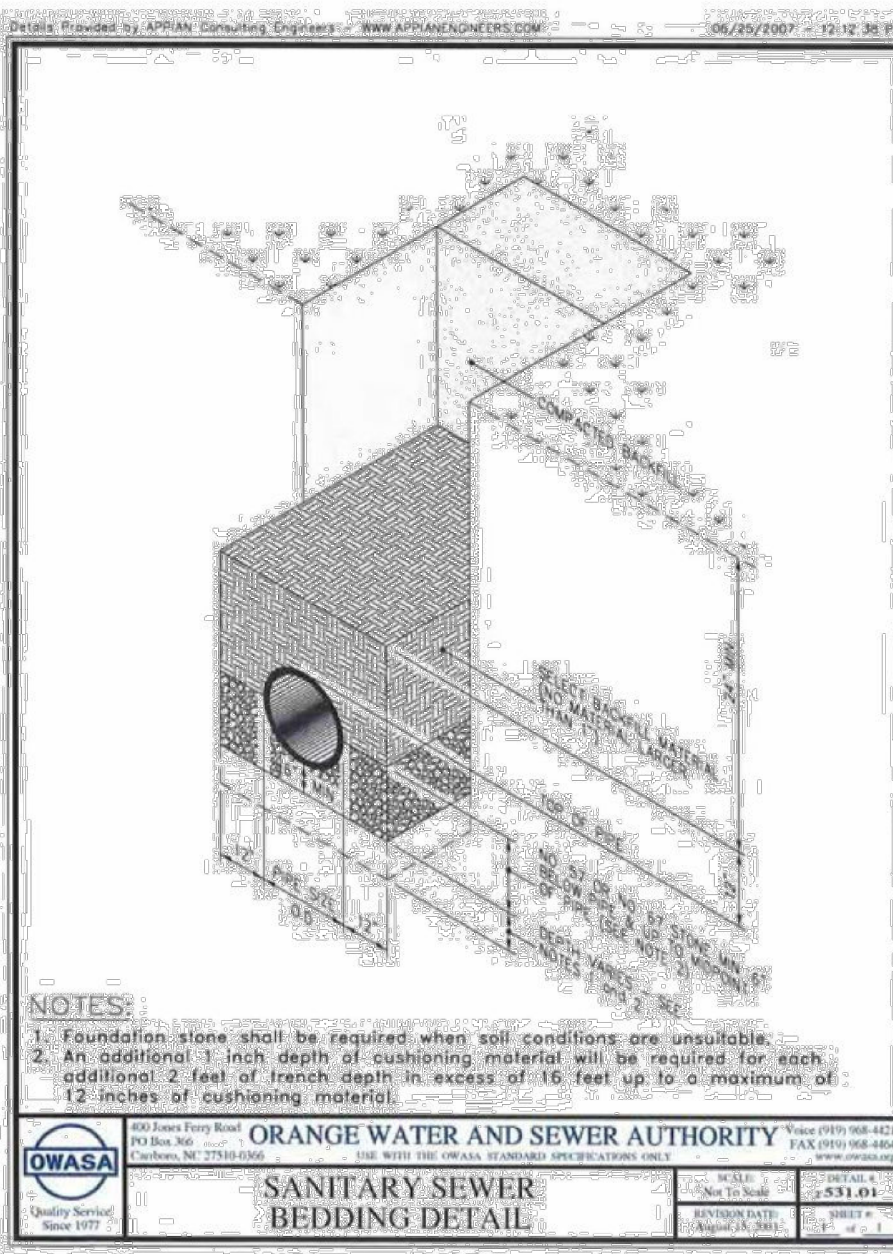
C9.11



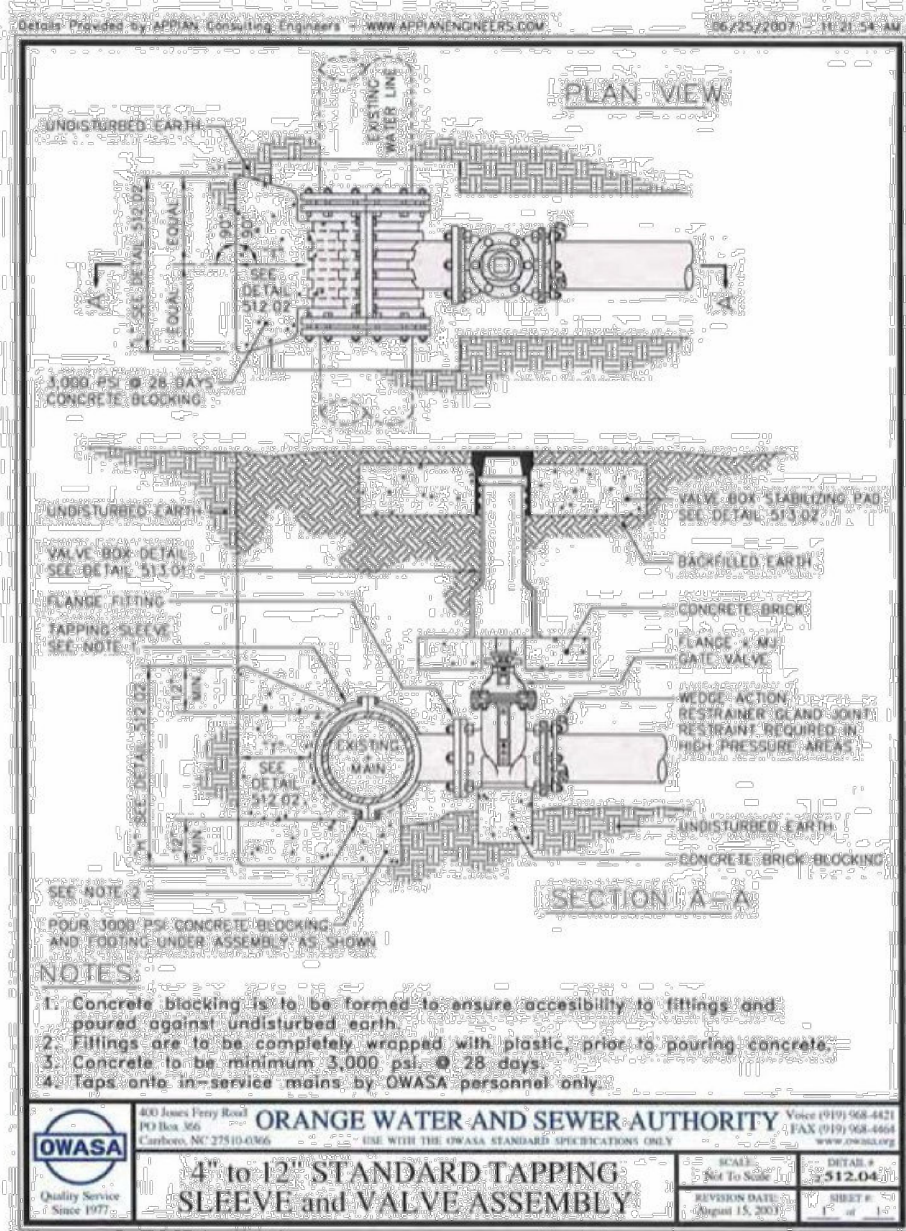
1 WATER METER PLAN NTS



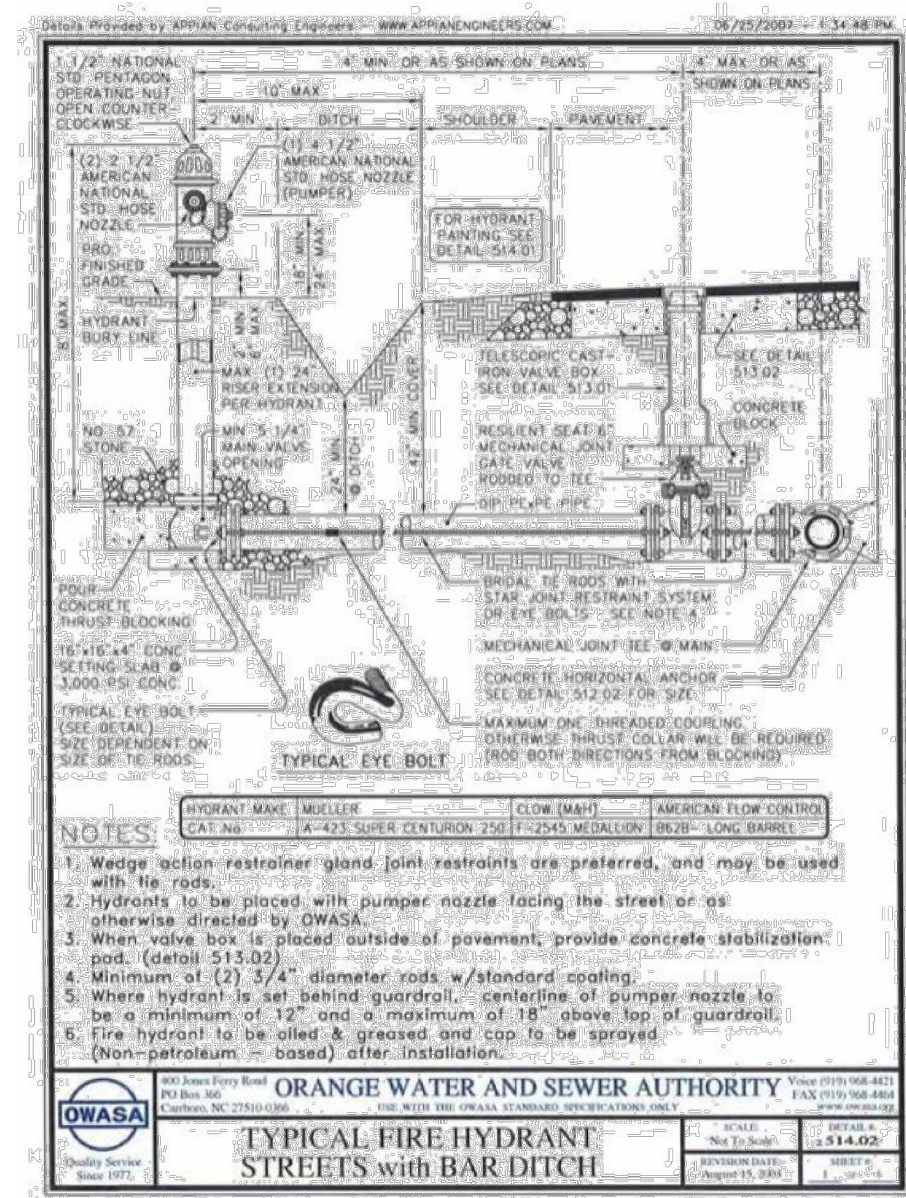
4 BLOCKING PLAN NTS



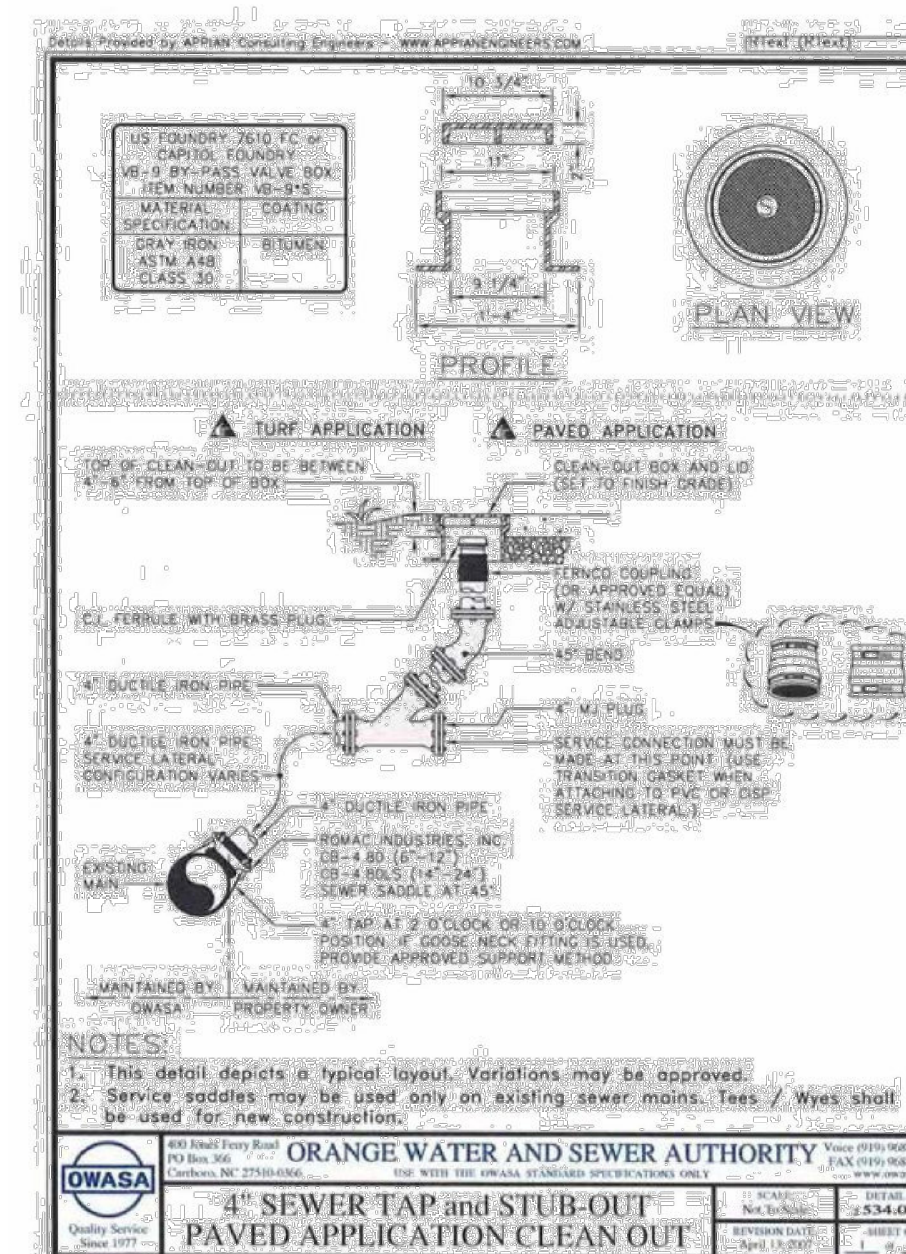
7 SANITARY SEWER BEDDING SECTION NTS



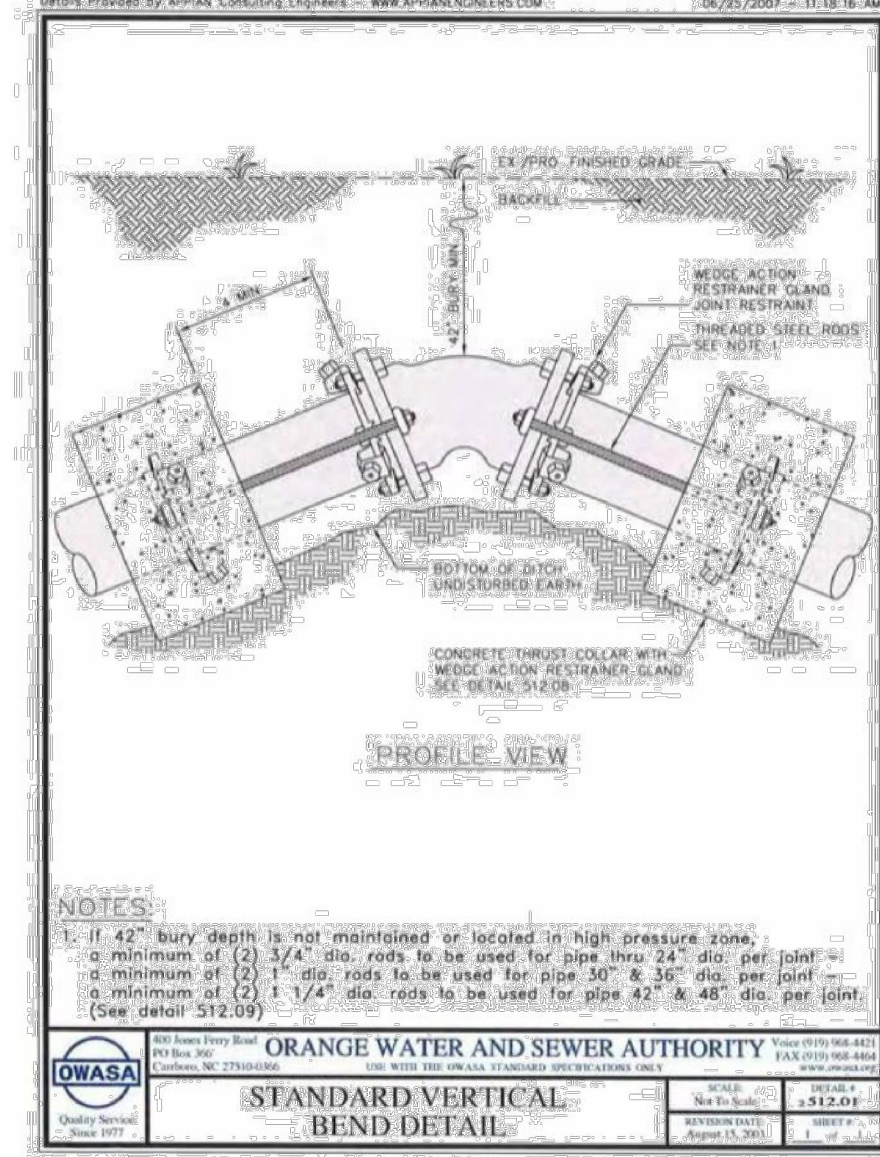
2 TAPPING SLEEVE AND VALVE PLAN NTS



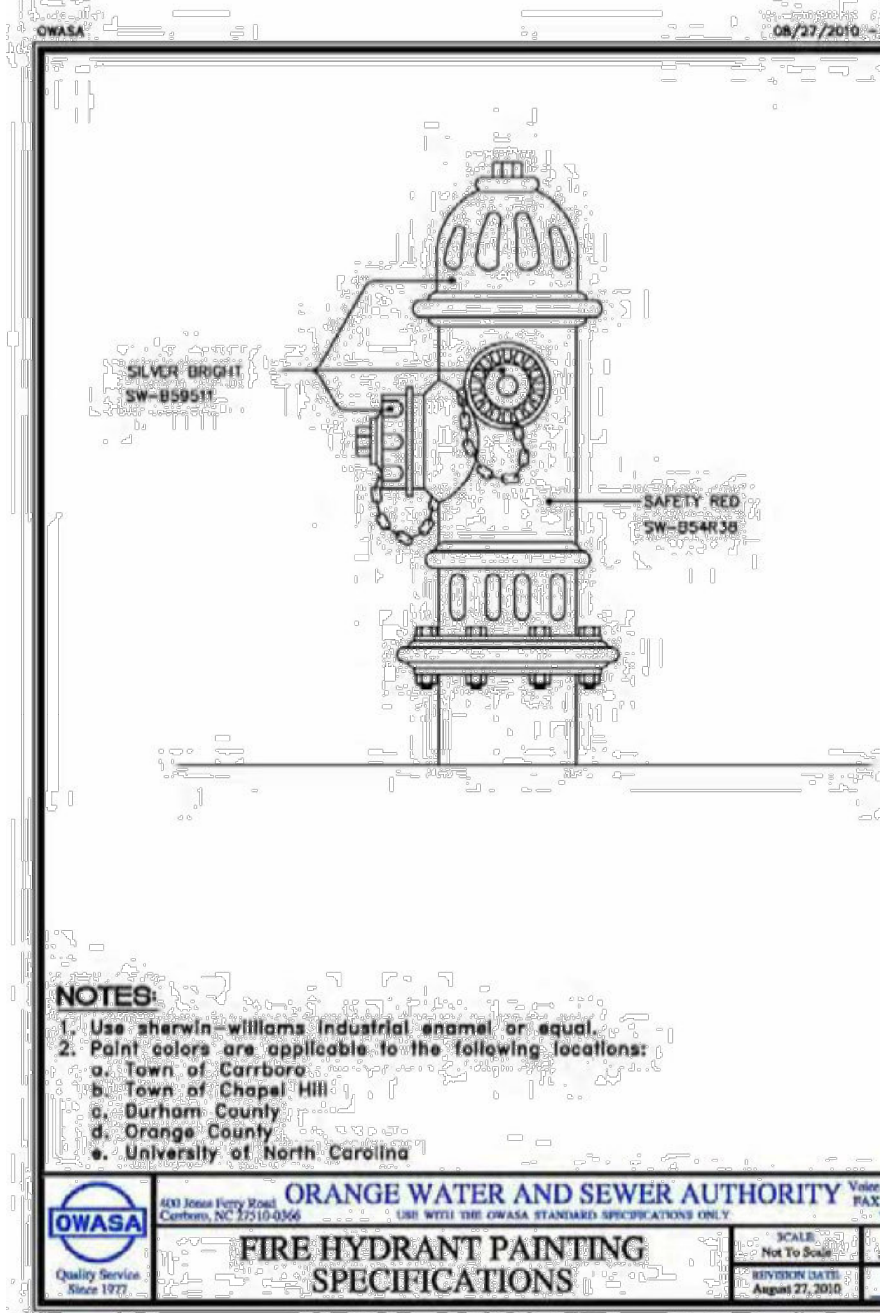
5 FIRE HYDRANT SECTION NTS



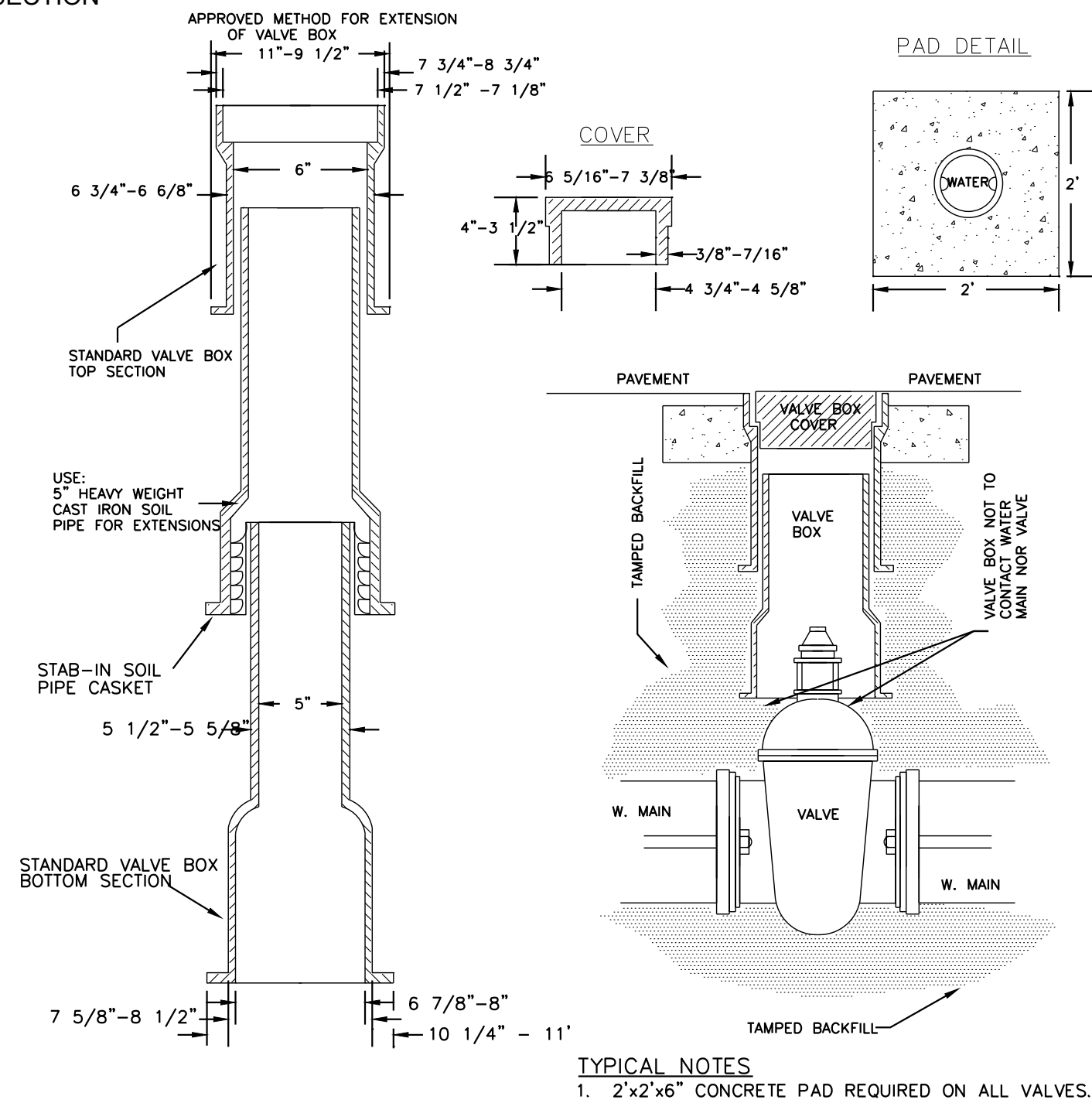
8 CLEANOUT SECTION NTS



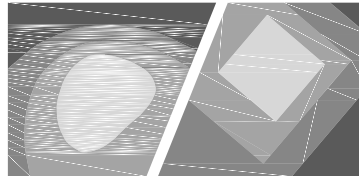
3 WATERLINE BEND PLAN NTS



6 FIREHYDRANT PAINT SECTION NTS



9 VALVE BOX INSTALLATION AND EXTENSION SECTION NTS



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

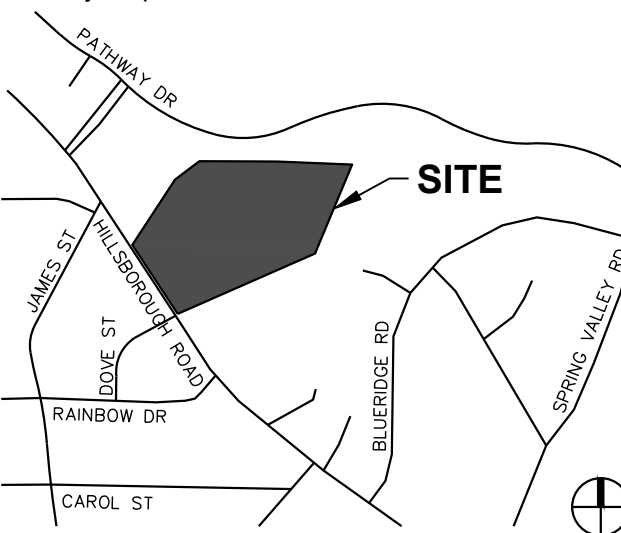
Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project:

DR. MARTIN
LUTHER KING, JR.
PARK

Vicinity map:



Seal:



Issued for:

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

Title:

UTILITY DETAILS

Project number: C16146 Sheet:

Date: 12.04.2017

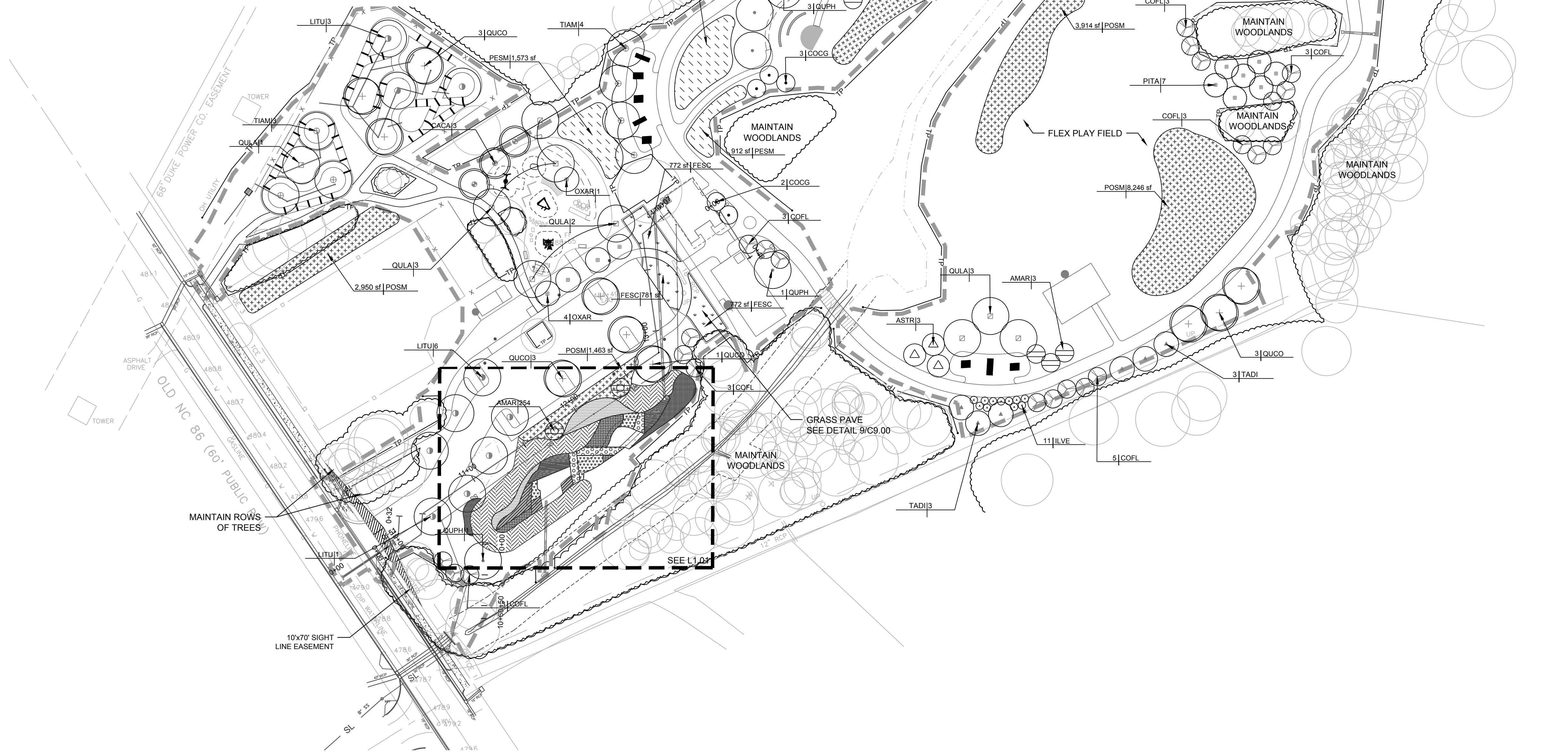
Drawn by: CJJ

Approved by: JWP

C9.30

PLANT SCHEDULE

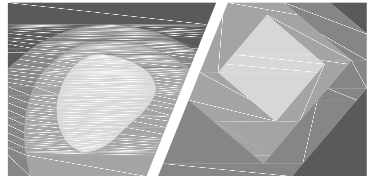
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	REMARKS
	CACA	3	CARPINUS CAROLINIANA	AMERICAN HORNBEEAM	9 & B	3" CAL		
	CISG	1	CARYA ILLINOENSIS 'STARKING SOUTHERN GIANT'	SOUTHERN GIANT PECAN	9 & B	4" CAL		
	COFL	26	CORNUS FLORIDA	FLOWERING DOGWOOD	9 & B	2" CAL	8'	
	LITU	10	LIRIODENDRON TULIPIFERA	TULIP TREE	9 & B	3" CAL		
	OXAR	5	OXYDENDRUM ARBOREUM	SOURWOOD TREE	9 & B	3" CAL		
	PITA	15	PINUS TAEDA	LOBLOLLY PINE	9 & B	3.5" CAL		
	QUCO	13	QUERCUS COCCINEA	SCARLET OAK	9 & B	3.5" CAL		
	QULA	9	QUERCUS LAURIFOLIA	LAUREL-LEAVED OAK	9 & B	3.5" CAL		
	QUPH	5	QUERCUS PHELLOS	WILLOW OAK	9 & B	3.5" CAL		
	TADI	16	TAXODIUM DISTICHUM	BALD CYPRESS	9 & B	3.5" CAL		
	TIAM	7	TIJIA AMERICANA	AMERICAN LINDEN	9 & B	3" CAL		
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HGT.		REMARKS
	AMAR	11	AMELANCHIER ARBOREUM	SERVICEBERRY	5 GAL			
	ASTR	6	ASIMINA TRILOBA	PAWPAW	5 GAL			
	COCG	5	COTINUS COGGYGRIA 'GRACE'	GRACE SMOKE TREE	5 GAL			
	ILVE	11	ILEX VERTICILLATA	WINTERBERRY	3 GAL			
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SF		REMARKS
	FESC	2,326 SF	FESCUE SEED	FESCUE GRASS	SEED	3LBS/1000SF		
	PESM	4,676 SF	PERENNIAL SEED MIX	PRAIRIE MOON NURSERY INSECTOPIA SEED MIX	SEED	26LBS/AC		SEE GENERAL LANDSCAPING NOTE 19
	POSM	19,799 SF	POLLINATOR SEED MIX	MELLOW MARSH FARM "POLLINATOR MIX"	SEED	14 LB / AC		SEE GENERAL LANDSCAPING NOTE 20



LANDSCAPING NOTES:

- VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING MATERIALS WITHIN THE PROJECT AREA.
- THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING AND NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY THE LANDSCAPE OPERATION SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.
- LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS ON THE SITE.
- ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY STOCK.
- TREE PROTECTION NOTE:** TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING"/"TREE PROTECTION AREA"/"PROHIBIDO ENTRAR" / "ZONA PROTECTORA PARA LOS ARBOLES".
- PROTECTION OF EXISTING VEGETATION:** AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- ROOT ZONE PROTECTION AREA:** VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED WITHIN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING SIGNS.
- SEED BED PREPARATION:** ALL AREAS TO BE SEED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN 6" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
- ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL.
- SOIL SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.
- SHREDDED HARDWOOD MULCH** 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
- TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.
- FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL. ORANGE FLAGGING TAPE/ED TO BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
- USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION.
- USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
- LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.
- PERENNIAL SEED MIX CONTAINS THE FOLLOWING SPECIES: ACHILLEA MILLEFOLIUM, AGASTACHE FOENICULUM, ALLIUM STELLATUM, APOCYNUM CANADINUM, ASCLEPIAS INCARNATA, ASCLEPIAS SYRIACA, ASCLEPIAS TUBEROSA, ASCLEPIAS VERTICILLATA, ASTER ERICOIDES, ASTER LAEVIS, CHAMAECRISTA FASCICULATA, COREOPSIS LANCEOLATA, COREOPSIS PALMATA, DALEA CANDIDA, DALEA PURPUREA, ERYNGIUM YUCCIFOLIUM, HELIANTHUS PALCIFLORUS, HELIOPSIS HELIANTHOIDES, LIATRIS LIGULISTYLIS, MONARDA FISTULOSA, MONARDA PUNCTATA, PARTHENIUM INTEGRIFOLIUM, POTENTILLA ARGUTA, PYCNANTHEMUM VIRGINIANUM, RATIBIDA PINNATA, RUDEBECKIA HIRTA, SCROPHULARIA MARILANDICA, SOLIDAGO GRAMINIFOLIA, SOLIDAGO SPECIOSA, TRADESCANTIA OHIENSIS, VERBENA STRICTA, VERONICASTRUM VIRGINICUM, ZIZIA APTERA, ZIZIA AUREA, CEANOTHUS AMERICANUS, BOUTELOUA CURTIPENDULA, ELYMUS CANADENSIS, KOeleria MAGRANTHA, SCHYZACHYRIUM SCOPARIUM, SPOROBOLUS HETEROLEPIS.
- POLLINATOR SEED MIX CONTAINS THE FOLLOWING SPECIES: CHAMAECRISTA FASCICULATA, COREOPSIS LANCEOLATA, ACHILLEA MILLEFOLIUM, BIDENS ARISTOSA, GAILLARDIA PULCHELLA, ELYMUS CANADENSIS, ELYMUS VIRGINICUS, TRIPSACUM DACTYLOIDES, SORGHASTRUM NUTANS, RUDEBECKIA HIRTA, SCHIZACHYRIUM SCOPARIUM, TRIDENS FLAVUS, ECHINACEA PURPUREA, SENNA HEBECARPA, HELIANTHUS ANGUSTIFOLIUS, HELIANTHUS MAXIMILIANII, MONARDA PUNCTATA, VERBENA HASTATA, ASCLEPIAS TUBEROSA, SYMPHYOTRICHUM PILOSUM.
- WETLAND SEED MIX CONTAINS THE FOLLOWING SPECIES: ELYMUS RIPARIUS, PANICUM RIGIDULUM, PANICUM DICHOTOMIFLORUM, CAREX VULPINODES, PANICUM VIRGATUM, DICHANTHELIUM CLANDESTINUM, BIDENS ARISTOSA, JUNCUS EFFUSUS, POLYGONUM PENNSYLVANICUM, AND SPARGANIUM AMERICANUM.

VEHICLE SHADING REQUIREMENTS	
TOTAL VEHICLE ACCOMMODATION AREA (SF)	13,500
AREAS TO BE SHADED (SF)	4,725
AREA SHADED BY EXISTING TREES TO BE RETAINED AROUND VEHICLE ACCOMMODATION AREA (SF)	960
REMAINING AREA TO SHADE (SF)	3,765
TREES REQUIRED	533
TREES PROVIDED	6



STEWART

421 FAYETTEVILLE ST., SUITE 400
RALEIGH, NC 27601
T: 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C16146

Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

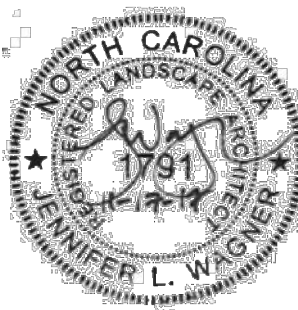
Project:

DR. MARTIN LUTHER KING, JR. PARK

Vicinity map:



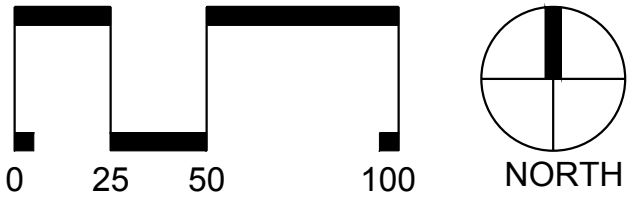
Seal:



Issued for:

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



SCALE: 1"=50'

Title:

LANDSCAPE PLAN

Project number: C16146 Sheet:

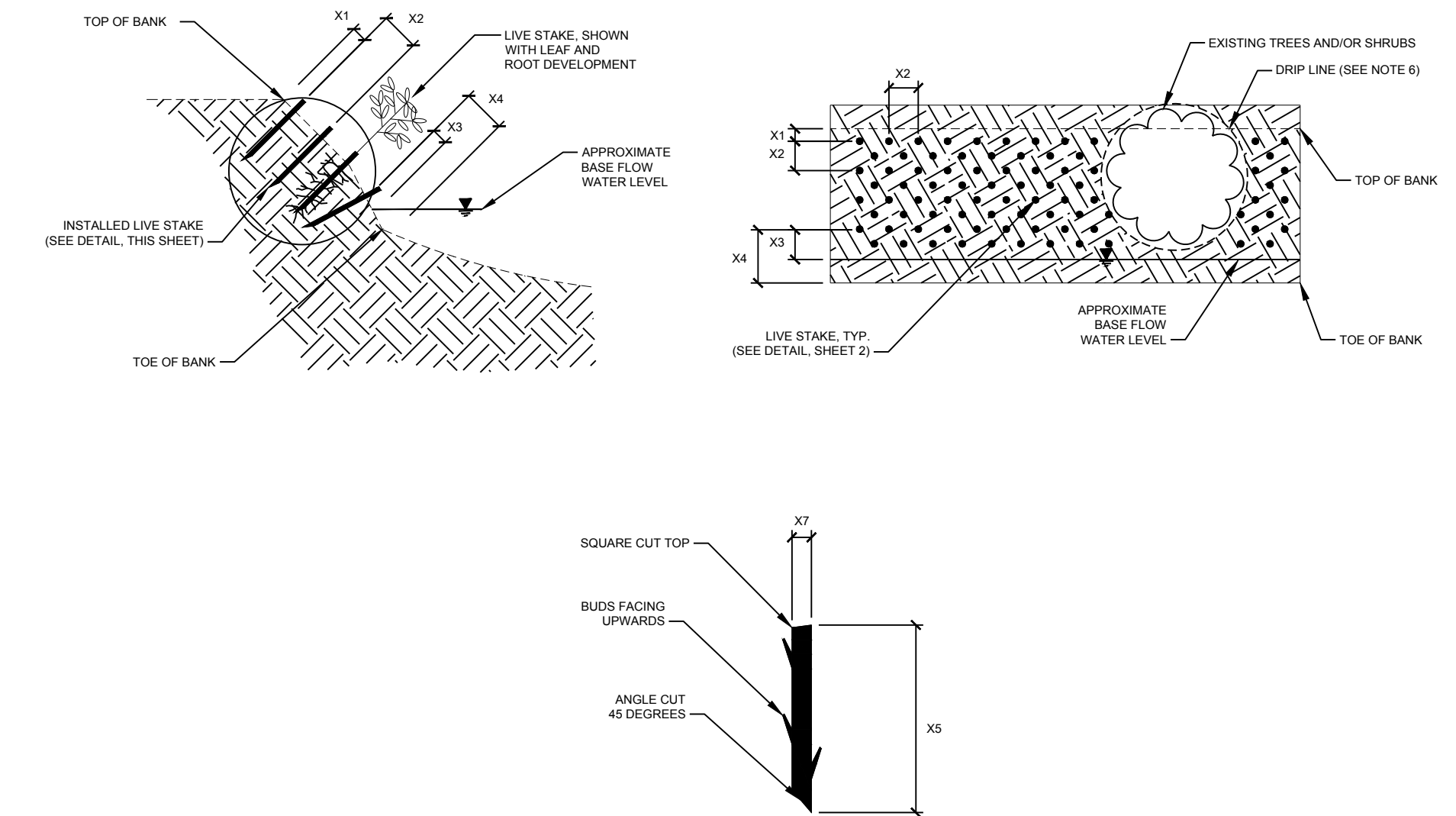
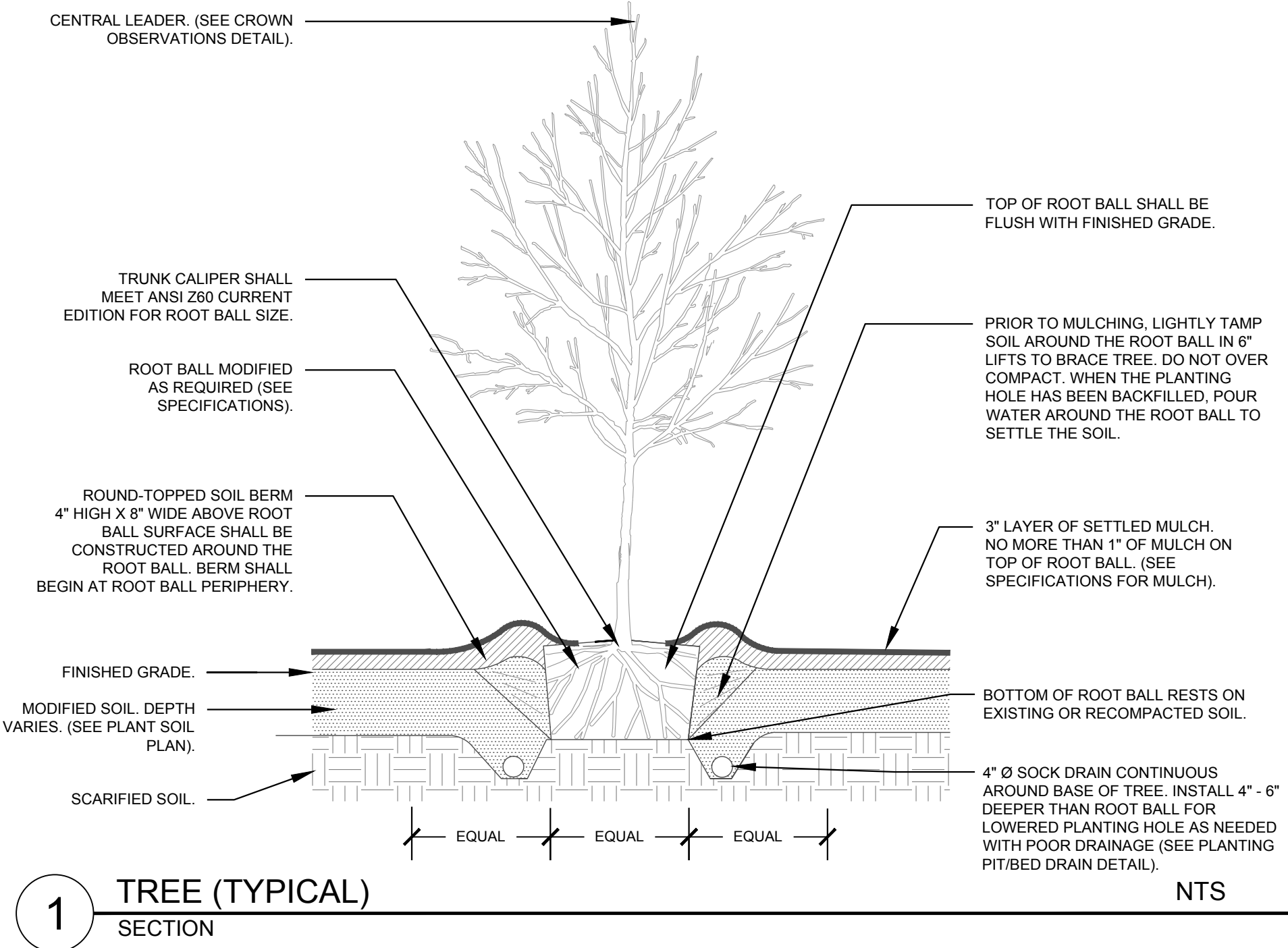
Date: 12.04.2017

Drawn by: TPG

Approved by: JLW

L1.00

Q:\2016\C16146 - MLK Jr Park\DWGS\1 - Design\Sheets\C16146-12 00-Planting & Soils Details.dwg Jan 12, 2018 - 8:14am

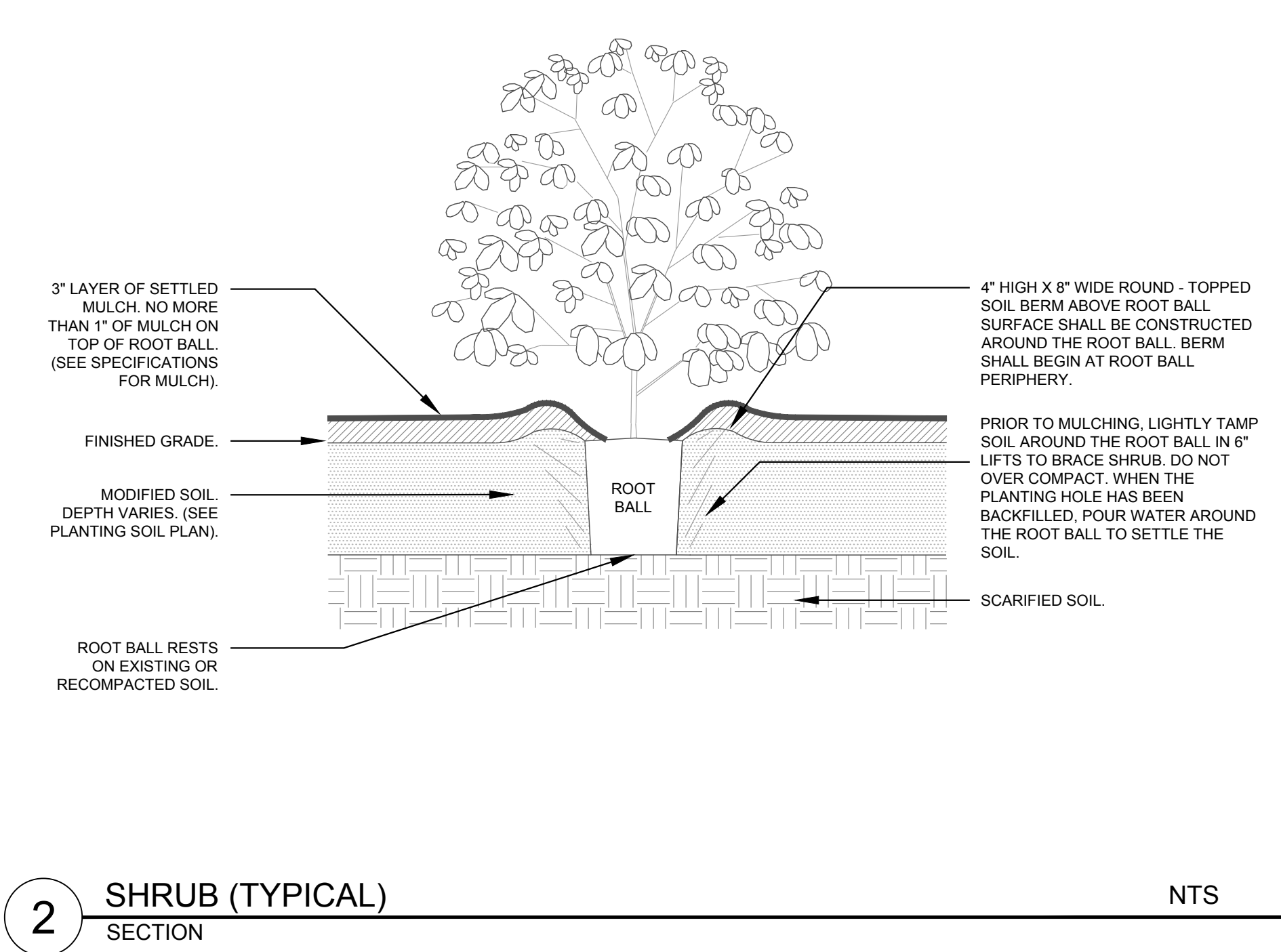


4 WETLAND PLANTING (LIVE STAKING) SECTION NTS

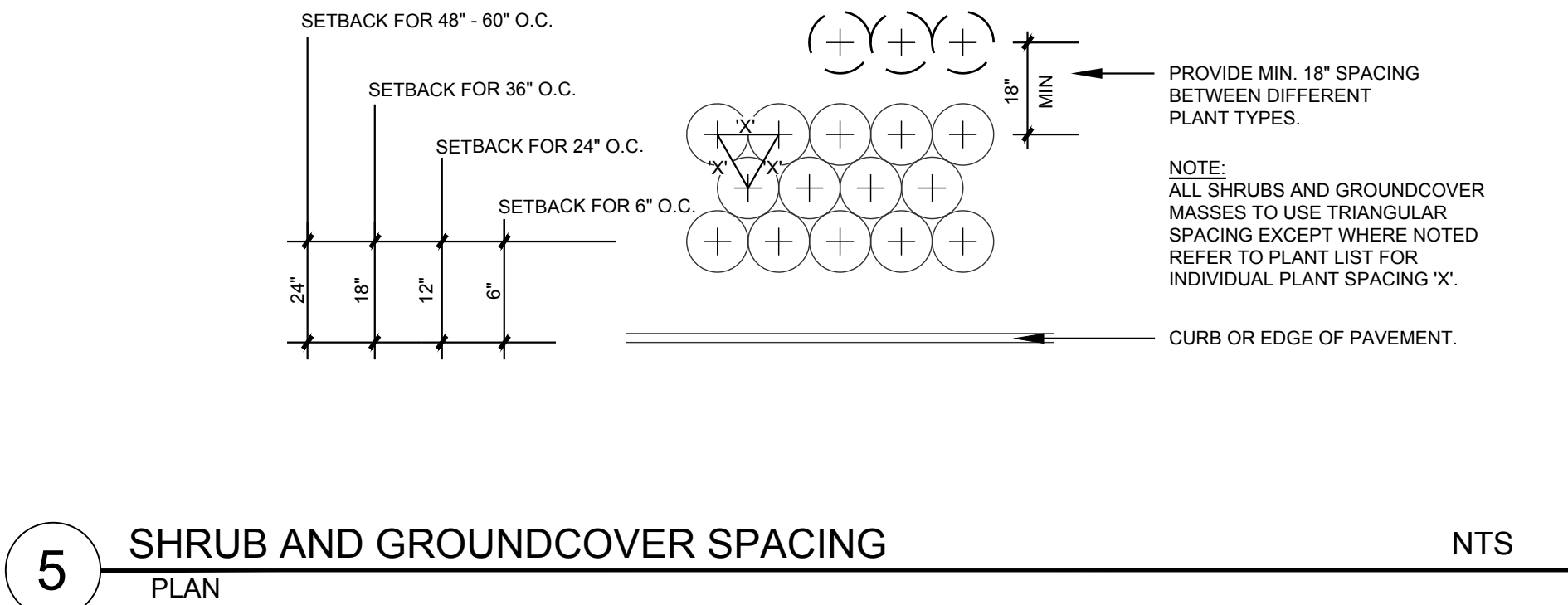
PLANTING NOTES:

- DO NOT STAKE TREES EXCEPT WHERE SPECIFIED BY LANDSCAPE ARCHITECT. STAKING IS REQUIRED FOR TREES PLANTED ON SLOPES.
- WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6\"/>

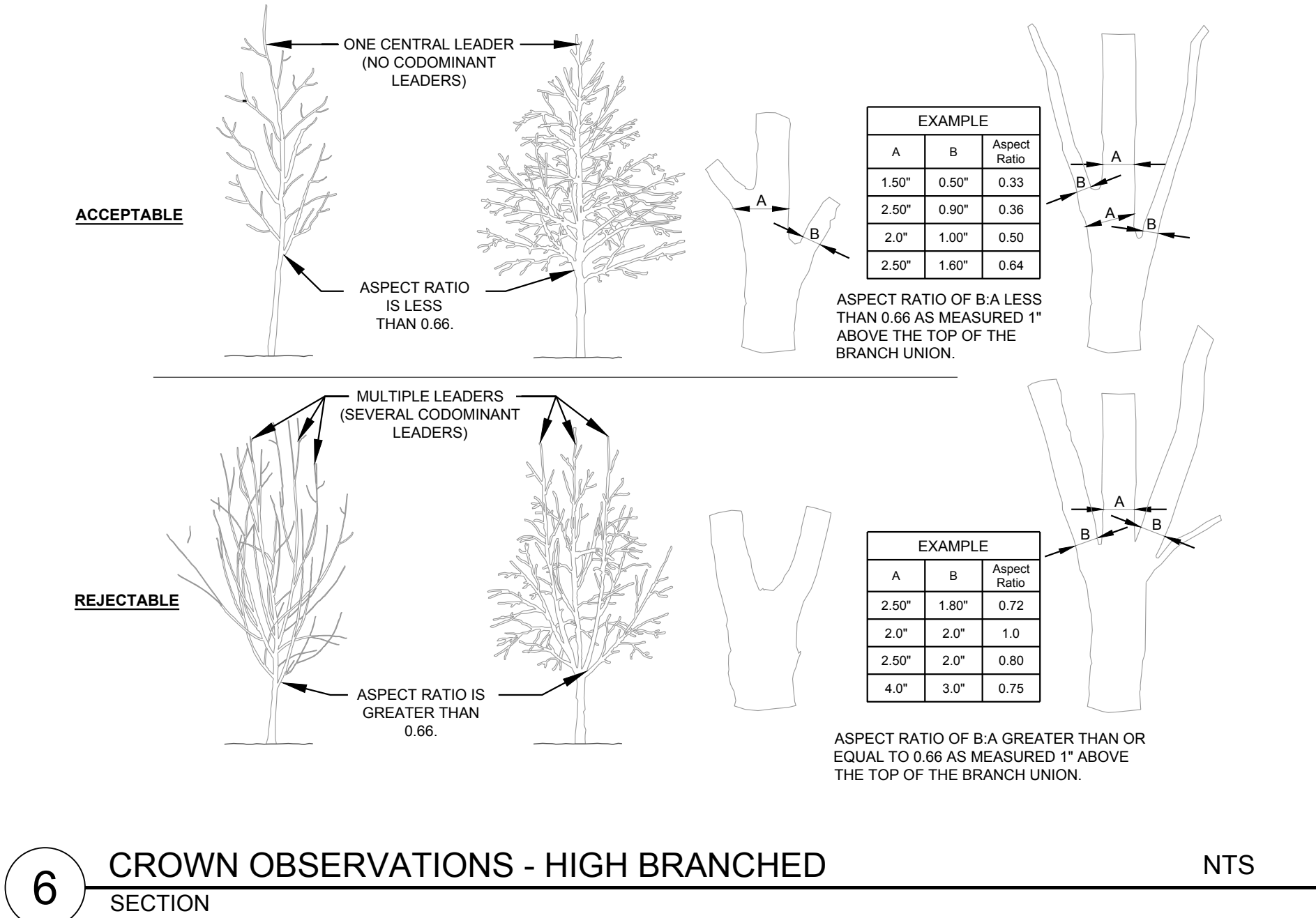
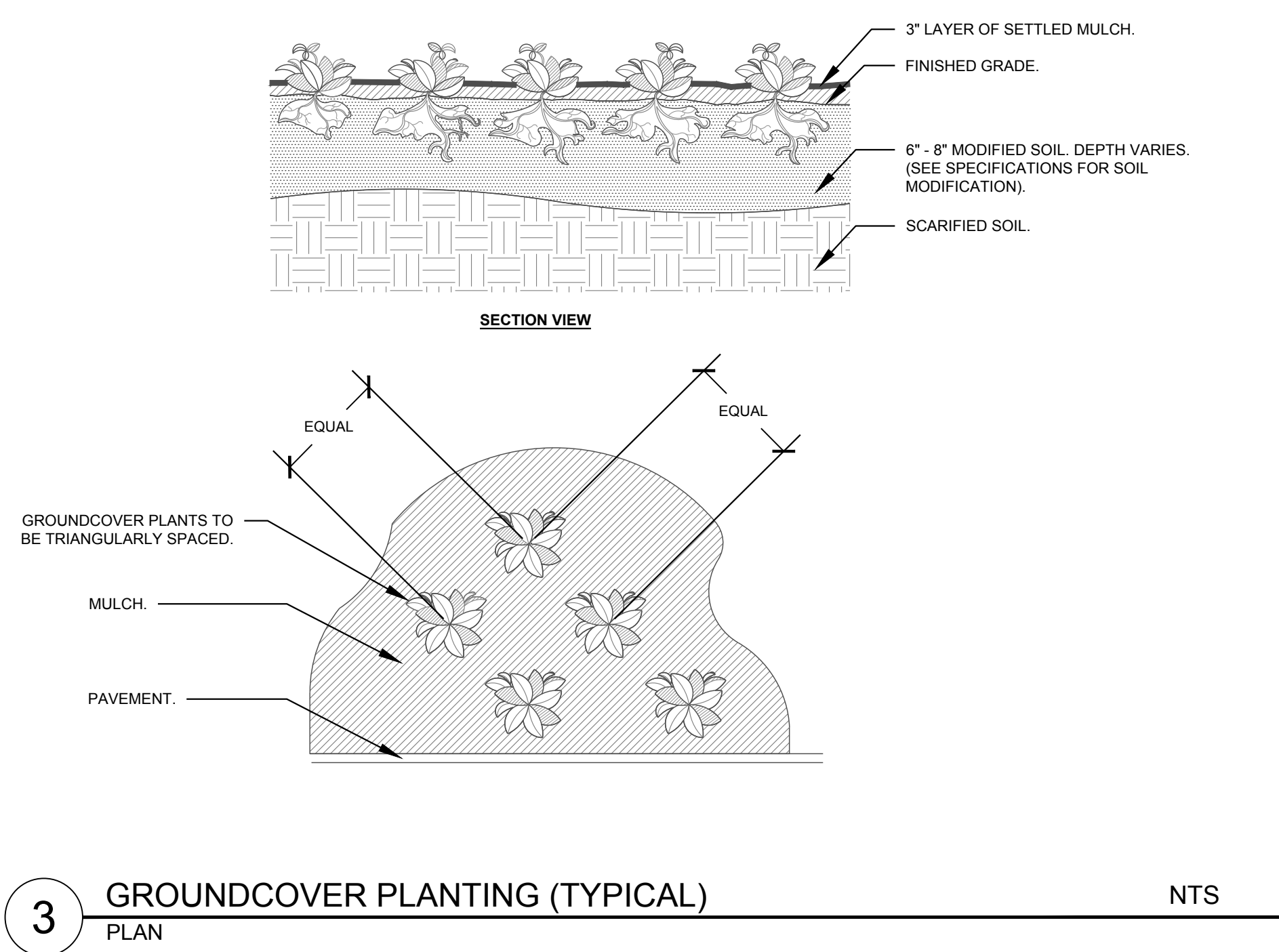
7 PLANTING NOTES SECTION NTS



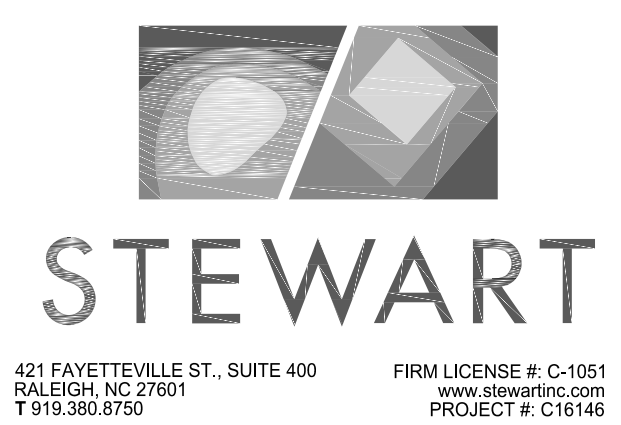
- NOTES:**
- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE AND SPACING DIMENSION.
 - SMALL ROOTS (1/2\"/>



5 SHRUB AND GROUNDCOVER SPACING PLAN NTS



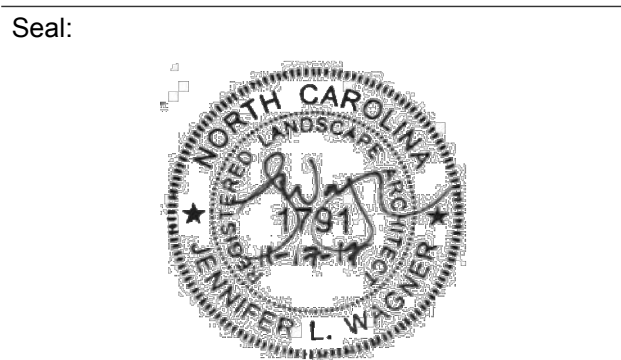
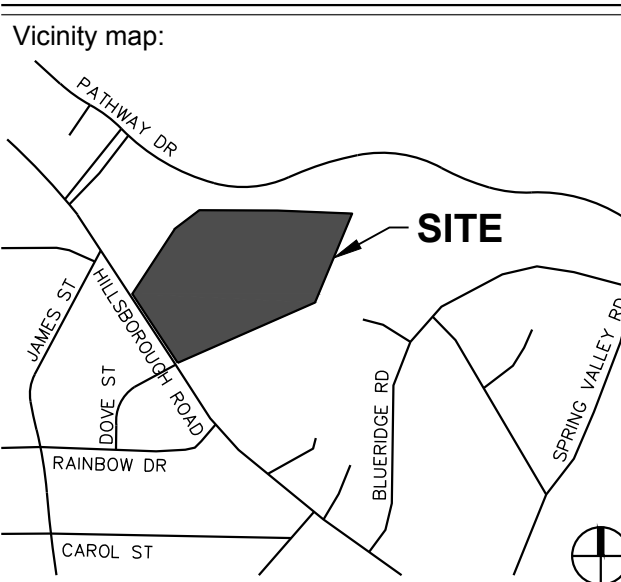
6 CROWN OBSERVATIONS - HIGH BRANCHED SECTION NTS



Client:

TOWN OF CARRBORO
301 W. MAIN STREET
CARRBORO, NC 27510
T: (919) 918-7371
F: (919) 918-4475

Project: DR. MARTIN LUTHER KING, JR. PARK



Issued for: CONSTRUCTION DOCUMENTS

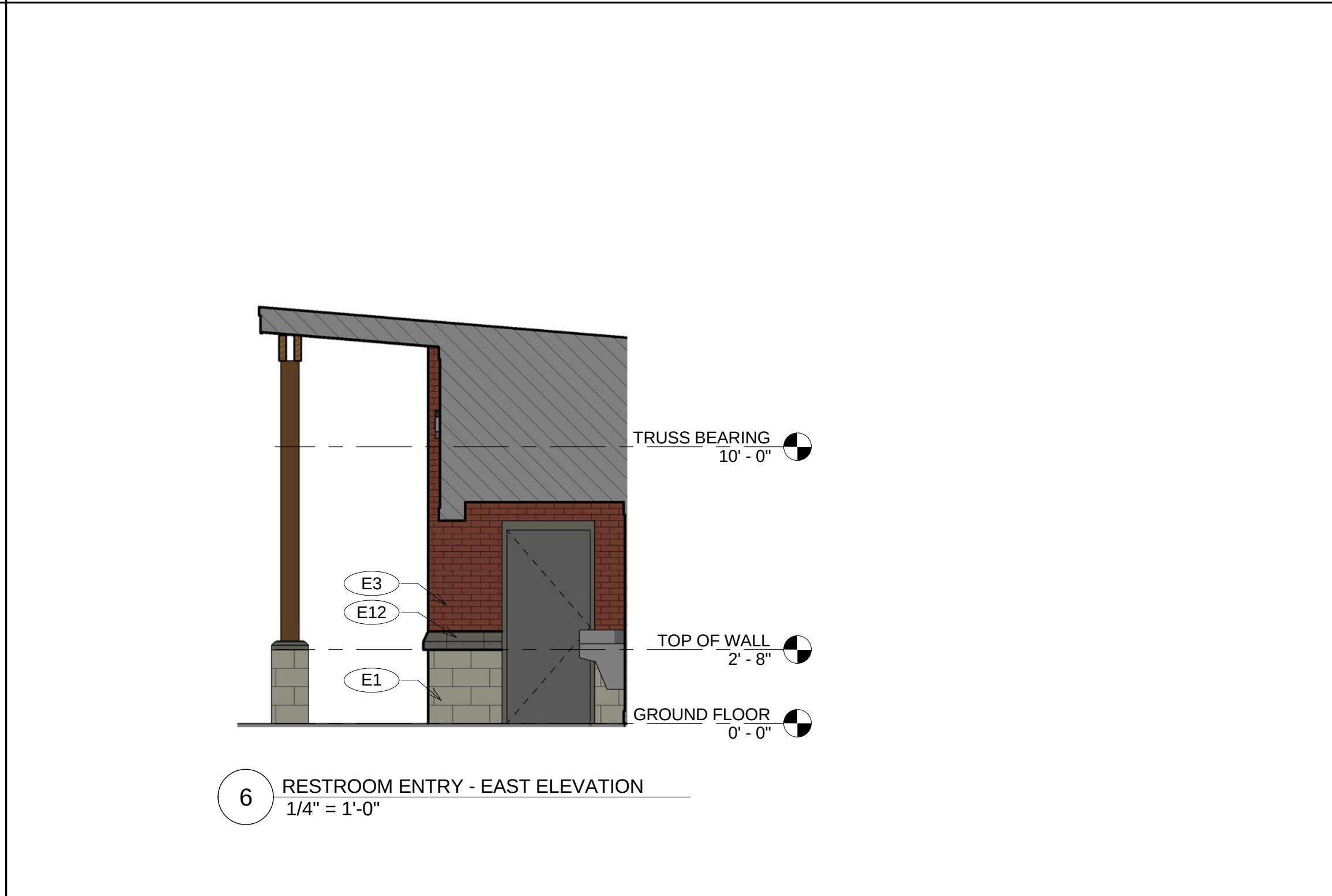
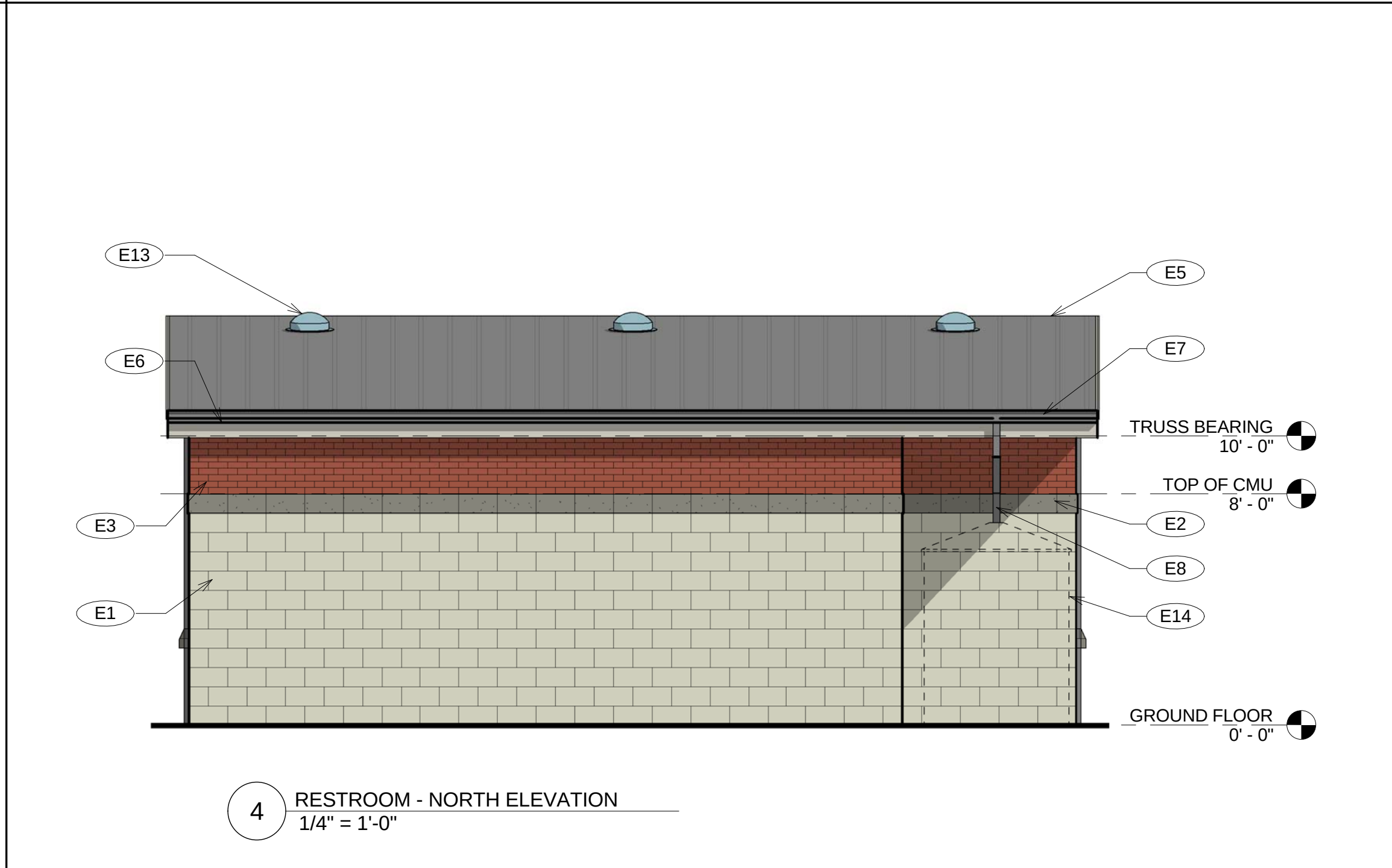
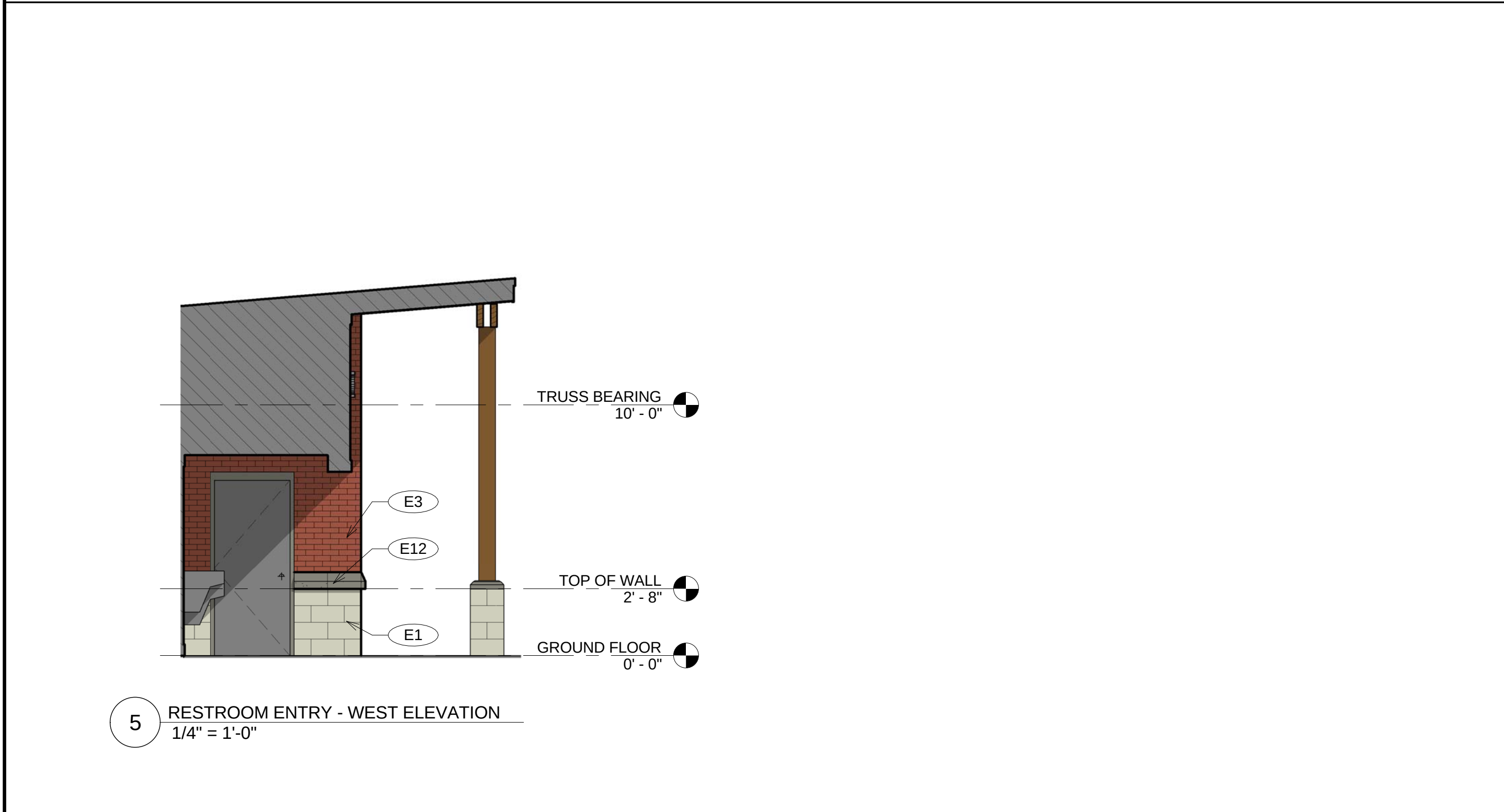
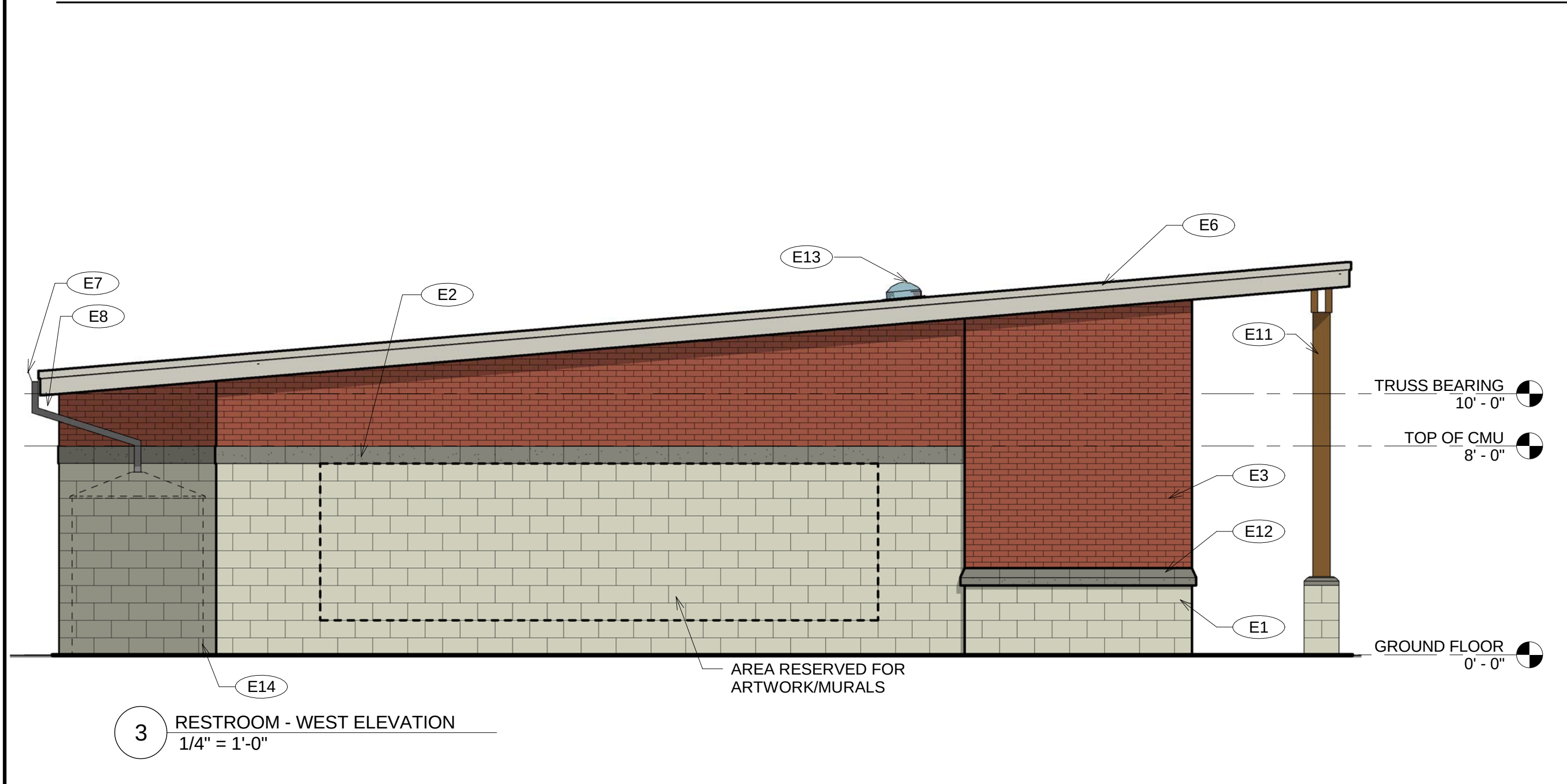
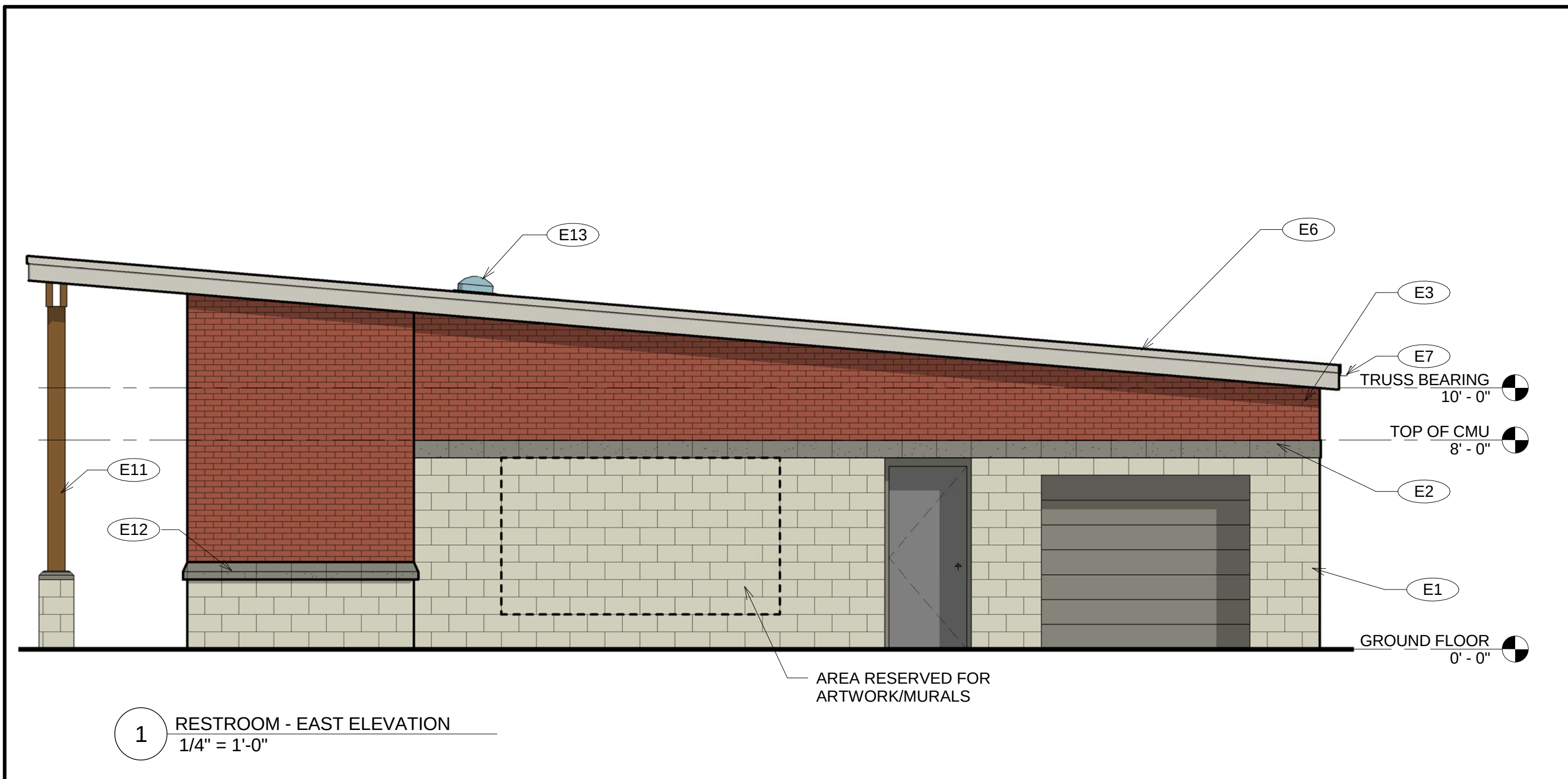
No.	Date	Description
1	07.20.2017	RESPONSE TO COMMENTS
2	10.20.2017	RESPONSE TO COMMENTS
3	11.16.2017	RESPONSE TO COMMENTS
4	11.29.2017	RESPONSE TO COMMENTS
5	12.04.2017	RESPONSE TO COMMENTS

Title:

PLANTING DETAILS

Project number: C16146 Sheet:
Date: 12.04.2017
Drawn by: TPG
Approved by: JLW

L2.00



KEYNOTES - ELEVATION	
E1	CMU BLOCK
E2	SPLIT FACE CMU BLOCK
E3	BRICK VENEER
E4	RECLAIMED WOOD SIDING
E5	STANDING SEAM METAL ROOF
E6	CEMENT BOARD ROOF FASCIA
E7	PRE-FINISHED ALUMINUM GUTTER
E8	ALUMINUM DOWNSPOUT
E9	TREATED COLUMN; SEE STRUCTURAL DRAWINGS
E10	CMU SILL
E11	SKYLIGHT - SEE ROOF PLAN FOR LOCATION
E12	RAINWATER CISTERN, NOT SHOWN FOR CLARITY - REFERENCE CIVIL

HH ARCHITECTURE

520 SOUTH HARRINGTON STREET
RALEIGH, NC 27601
919.828.2301 919.828.2303 (FAX) OFFICE@HH-ARCH.COM

MARTIN LUTHER KING JR. PARK

TOWN OF CARRBORO
1120 HILLSBOROUGH ROAD
CARRBORO, NC 27516

DOCUMENT FOR REVIEW - NOT FOR CONSTRUCTION

DOCUMENT FOR REVIEW - NOT FOR CONSTRUCTION

NO.	REVISION	DATE

JOB NUMBER
16-051

DATE ISSUED
04-27-2017

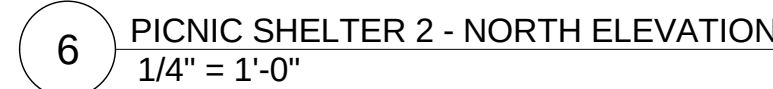
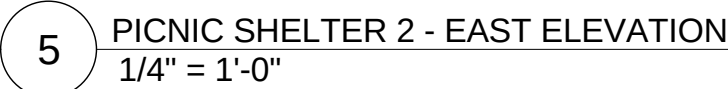
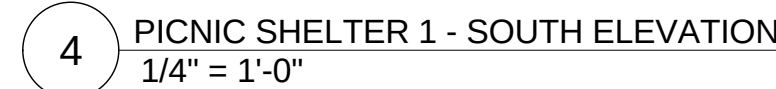
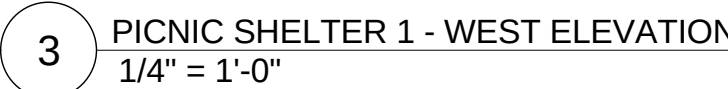
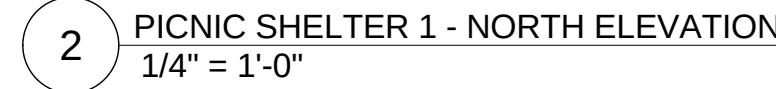
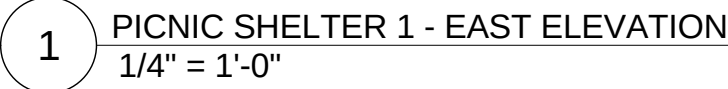
PROJECT STATUS
DESIGN DEVELOPMENT

SHEET

ELEVATIONS

A-201

These drawings are for the purpose of design development only. They may not be used for any purpose without written permission. Copyright 2017 by HH Architecture, P.A. All rights reserved.
Print Date: 4/27/2017 5:15:35 PM



E1	CMU BLOCK
E5	STANDING SEAM METAL ROOF
E6	CEMENT BOARD ROOF FASCIA
E7	PRE-FINISHED ALUMINUM GUTTER
E11	TREATED COLUMN; SEE STRUCTURAL DRAWINGS
E12	CMU SILL
E14	RAINWATER CISTERN, NOT SHOWN FOR CLARITY - REFERENCE CIVIL





1 ARRIVAL PERSPECTIVE VIEW



2 PICNIC SHELTER 2 PERSPECTIVE VIEW



3 RESTROOM PERSPECTIVE VIEW



4 GARDEN SHELTER PERSPECTIVE VIEW



5 AMPITHEATER PERSPECTIVE VIEW