# COLUMBIA STREET ANNEX

## 1150 SOUTH COLUMBIA STREET, CHAPEL HILL, NC 27514

## SPECIAL USE PERMIT APPLICATION - 2018/20

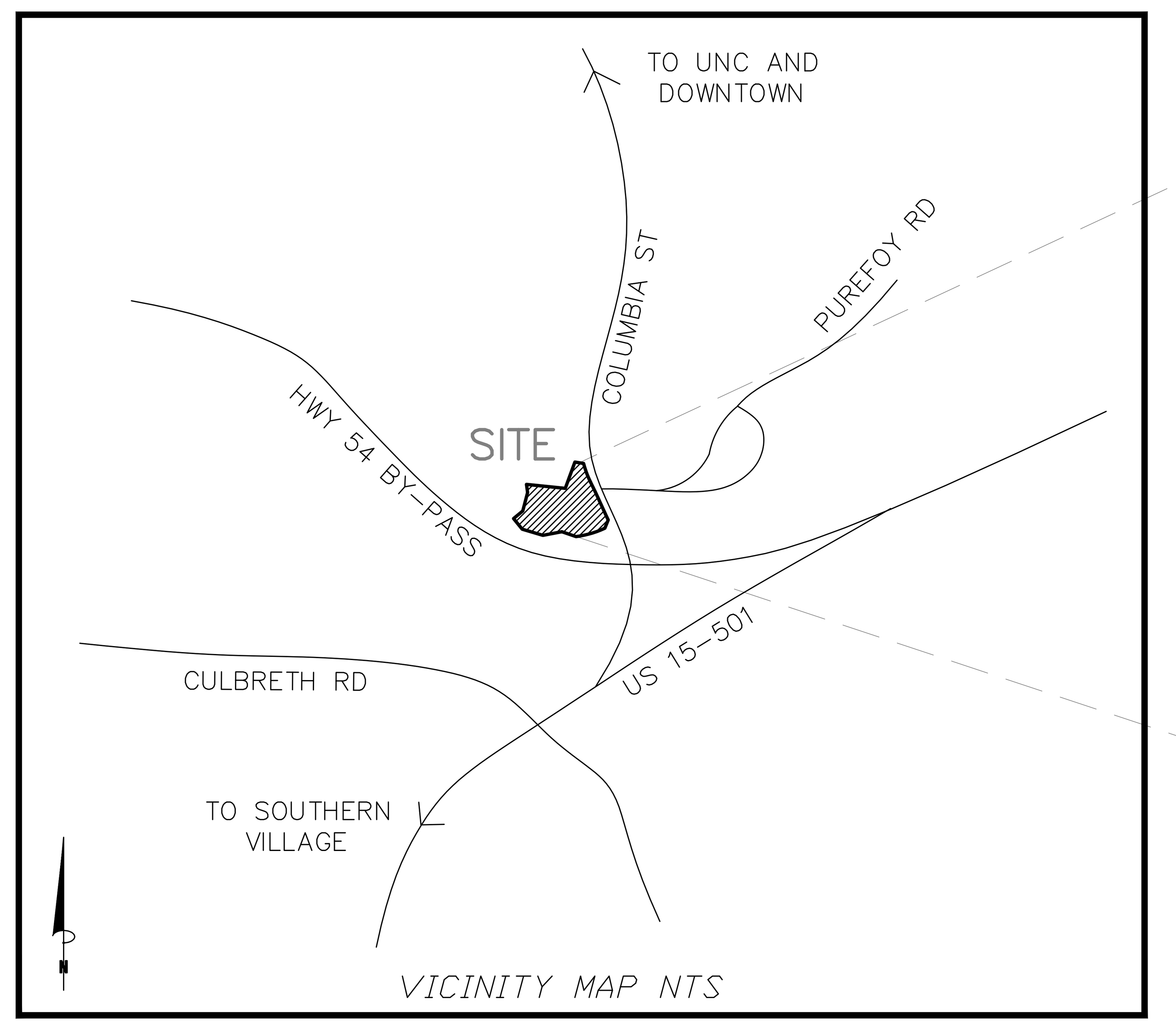
### PROJECT DATA

| | |
|---|---|
| EXISTING USE | VACANT RESIDENTIAL |
| PROPOSED USE<br>USE GROUP | MIXED USE – RESIDENTIAL, COMMERCIAL, RETAIL |
| PARCEL 1 | 9788204502 |
| PARCEL 2 | 9788205716 |
| PARCEL 3 | 9788206500 |
| EXISTING LAND AREA | 131,340.04 SF – PARCEL 1<br>14,228.80 SF – PARCEL 2<br>8,453.88 SF – PARCEL 3<br>6,967.75 SF – MONROE ST R/W<br>160,990.47 SF TOTAL NET LAND AREA |
| **POST RECOMBINATION AREAS:** | 3.69 ACRES, NET |
| LAND AREA IN RCD streamside zone | 35,935 SF net |
| LAND AREA IN RCD managed use zone | 38,618 SF net |
| LAND AREA IN RCD upland zone | 34,668 SF net |
| LAND AREA non–RCD | 51,769 SF net |
| GROSS LAND AREA | 177,090 SF / 4.065 ACRES |
| PROJECT AREA | 1.64 ACRES NET / 1.804 AC GROSS |
| DISTURBED AREA | 1.64 ACRES |
| EXISTING ZONING | R–2 |
| PROPOSED ZONING | MU–V |
| FAR — MU–V ARTERIAL | 1.2 x 86,437 = 103,724 sf |
| RCD – streamside | 0.01 x 35,935 = 359 sf |
| RCD – managed use | 0.019 x 38,618 = 734 |
| MAXIMUM BUILDING SIZE | 104,817 SF<br>BASED ON GROSS LAND AREA |
| EXISTING BUILDING SIZE | N/A |
| PROPOSED BUILDING SIZE | 57,000 SF residential<br>4,000 SF general business<br>maximum 61,000 SF total (incl mechanical, excl underground parking<br>RESIDENTIAL: maximum 52 UNITS TOTAL<br>(15% WILL BE DESIGNATED AFFORDABLE) |
| PROPOSED FAR | .734 |
| REQUIRED PARKING<br>BASED ON MAXIMUM BLDG SIZE | MIN 65 SPACES, MAX 111 SPACES |
| PROPOSED PARKING | 69 SPACES INCLUDING:<br>3 VAN ACCESSIBLE ADA (all in underground parking)<br>21 STANDARD SURFACE SPACES<br>17 UNDERGROUND SPACES INCLUDING APPROX. 4 COMPACT<br>28 UNDERGROUND GARAGE (DOUBLE STACKED) |
| PROPOSED CAR CHARGING STATIONS | 1 LOCATED IN UNDERGROUND GARAGE SERVING 2 SPACES (3% OF PARKING) |
| EXISTING IMPERVIOUS | 676 SF |
| PROPOSED IMPERVIOUS | 48,950 SF |
| REQUIRED BICYCLE PARKING | GENERAL BUSINESS: 4 + 2 per 2500 sf = 6 SPACES<br>(20% CLASS I AND 80% CLASS II )<br>RESIDENTIAL: 1 per 4 units = 13 SPACES<br>(90% CLASS I AND 10% CLASS II )<br>TOTAL BIKE PARKING REQUIRED WILL MEET LUMO REQUIREMENT |
| PROPOSED BICYCLE PARKING | LOCATIONS: UNDERGROUND PARKING, SURFACE PLAZA, IN RESIDENTIAL UNITS |
| EXISTING TREE CANOPY | 134,000 SF = 80.8% OF SITE |
| REQUIRED TREE CANOPY | 40% = 58,724 SF CALCULATION ON SHEET SUP–7.0 |
| PROPOSED TREE CANOPY | 66,331 SF (EXISTING RETAINED COVERAGE) |
| REQUIRED RECREATION SPACE | 0.046 RSR<br>GROSS LOT AREA IS 177,090 SF<br>PROJECT AREA IS 71,450 SF<br>RESIDENTIAL PERCENTAGE OF PROJECT IS 93.4%<br>PROJECT AREA x RECREATION MULTIPLIER x PERCENTAGE RESIDENTIAL<br>= 71,450 x .046 x .934 = 3,070 SF<br>PAYMENT IN LIEU IS $12/SF |
| RECREATION SPACE PROVIDED | 3,070 SF ACTIVE RECREATION SPACE PROVIDED AS FITNESS CENTER IN THE BUILDNG FOR TENANTS<br>SHORTFALL IN FINAL INTERIOR FITNESS SPACE SQUARE FOOTAGE WILL BE MADE UP AS PAYMENT IN LIEU AT $12/SF |

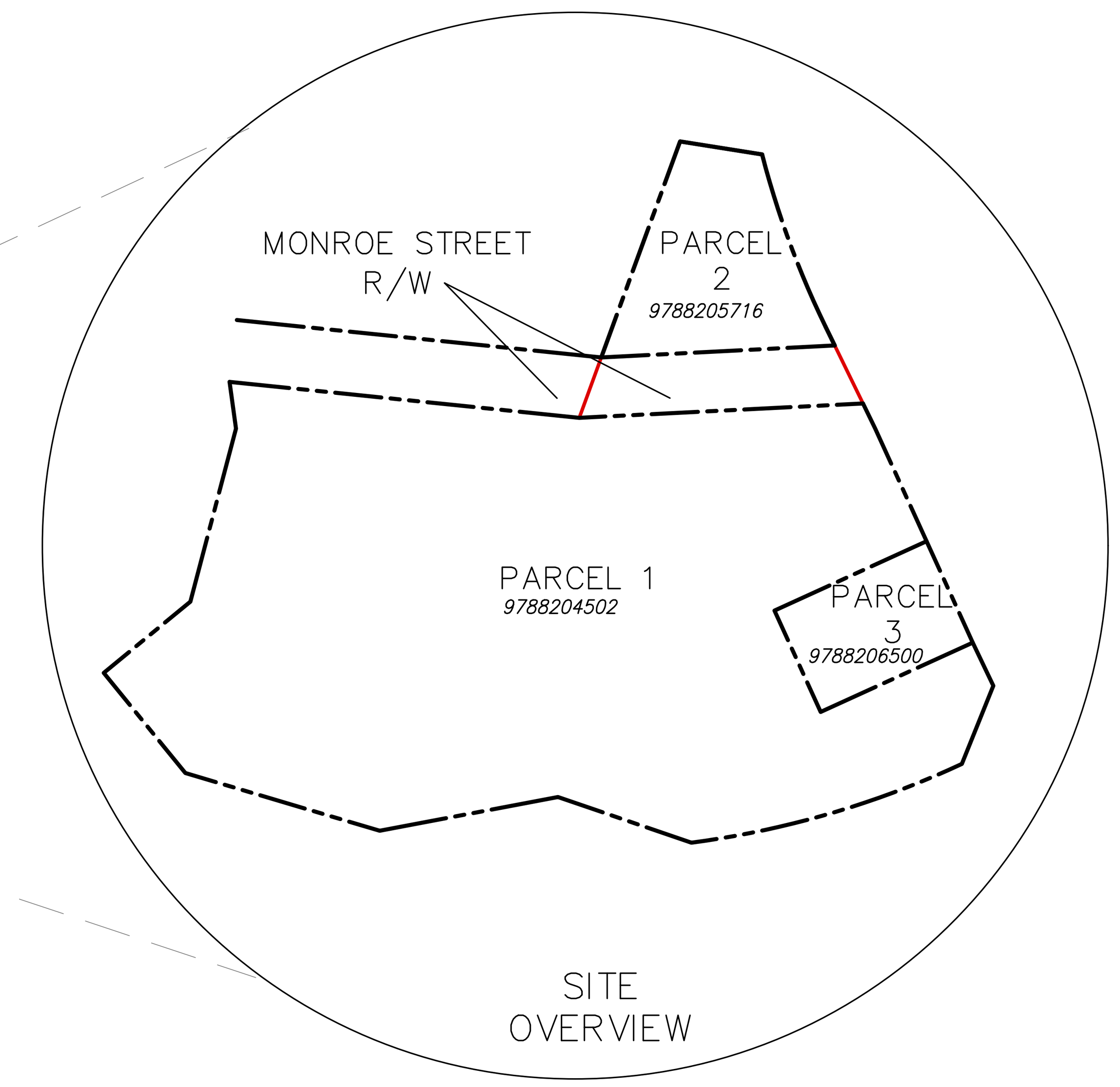
4,000 SF GENERAL BUSINESS
1 SPACE/300 SF TO 1 SPACE /200 SF
= 13 MIN 20 MAX

52 RESIDENTIAL UNITS
MIX OF STUDIO / 1 BDRM /2 BDRM
1.0 TO 1.75 PER UNIT
= 52 MIN 91 MAX

NON–RESIDENTIAL SPACE IS INTENDED FOR USE BY RESIDENTS FOR WORK/LIVE USE. THERE IS NO PARKING SPECIFICALLY RESERVED FOR THE NON–RESIDENTIAL SPACE.




VICINITY MAP NTS




SITE OVERVIEW

### SPECIAL CONDITIONS OF APPROVAL

1. PARCELS MUST BE RECOMBINED PRIOR TO ZCP APPROVAL.
2. THE BUILDINGS ARE REQUIRED TO BE SPRINKLED.
3. ~~LAYOUT IS BASED ON A RIGHT-IN / RIGHT-OUT DRIVEWAY CONFIGURATION.~~
4. THE APPLICANT MUST SUBMIT A CONSTRUCTION MANAGEMENT PLAN FOR APPROVAL BY THE TOWN PRIOR TO ISSUANCE OF A ZONING COMPLIANCE PERMIT.
5. THE PROJECT WILL MEET THE TOWN'S 15% AFFORDABLE HOUSING REQUIREMENT, WITH THE PROVISION OF 7 AFFORDABLE UNITS PROVIDED IN THE BUILDING.
6. CONTRACTORS MUST COMPLETE THE TOWN'S TREE PROTECTION SEMINAR PRIOR TO TREE PROTECTION FENCE INSTALLATION. CONTACT ADAM NICHOLSON, URBAN FORESTRY, 919-969-5006.
7. DEVELOPER WILL BE REQUIRED TO INSTALL ADA RAMPS AND PEDESTRIAN ACTIVATED LED SIGNAL AT THE EVENTUAL SOUTH COLUMBIA STREET CROSSWALK LOCATION IN FRONT OF OR JUST NORTH OF THE PROJECT SITE.
8. REVISED S COLUMBIA STREET TRAFFIC COUNTS WILL BE REQUIRED AT ZCP SUBMITTAL.

### LIST OF SHEETS

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COLUMBIA STREET ANNEX

1150 South Columbia Street
Chapel Hill, North Carolina

OWNER:
CH HOTEL ASSOCIATES LLC.
3008 ANDERSON DRIVE, SUITE 120
RALEIGH NC 27609

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1302 WENDI L. RAMSDEN
5-11-2020

If this drawing is not 24" x 36" it is a reduced print - refer to graphic scale

| Date | For |
|---|---|
| 24 May 18 | Addition of RCD data |
| 20 May 19 | Review Comment Revisions |
| 24 Oct 19 | Review Comment Revisions |
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Drawn By: WLR, MTC Date: 26 April 18

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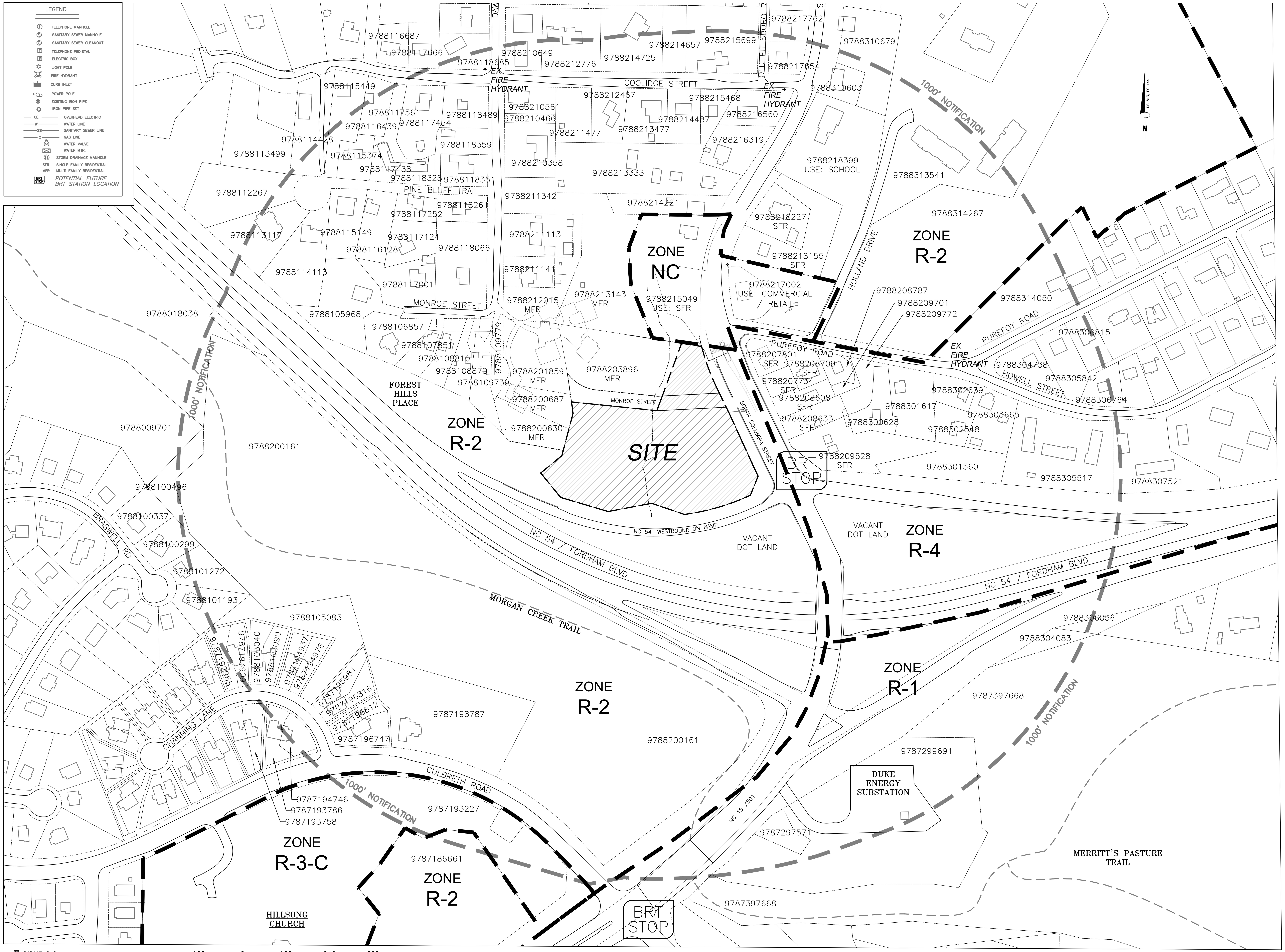
**COVER**

**SUP-0.0**




1/SUP-0.1
AREA MAP
SCALE: 1"=120'

120 0 120 240 360
Scale 1" = 120'

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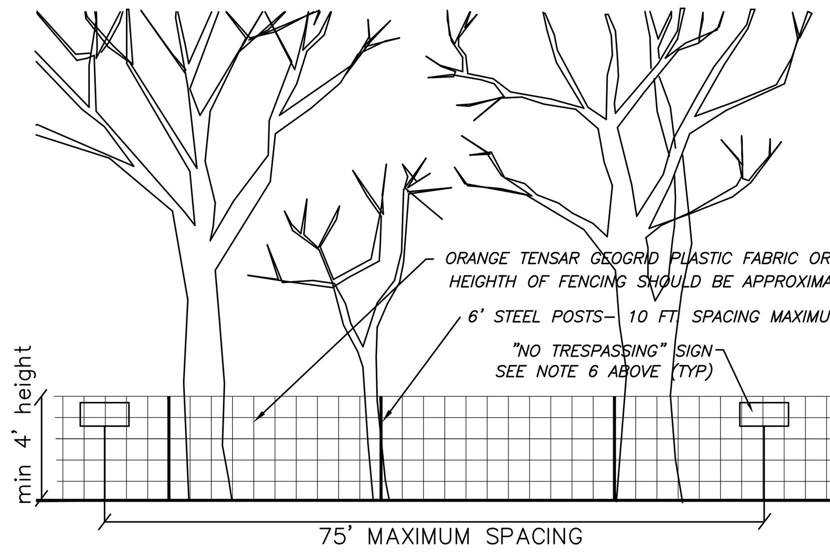
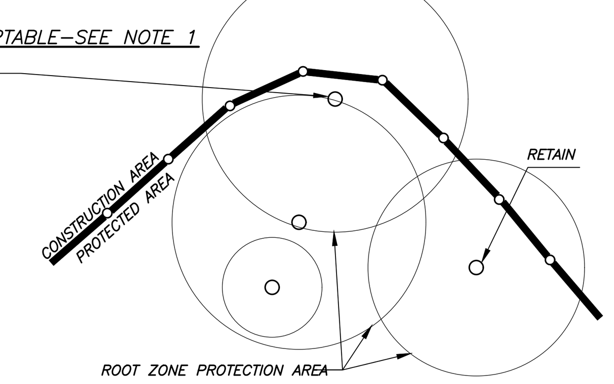
## AREA MAP



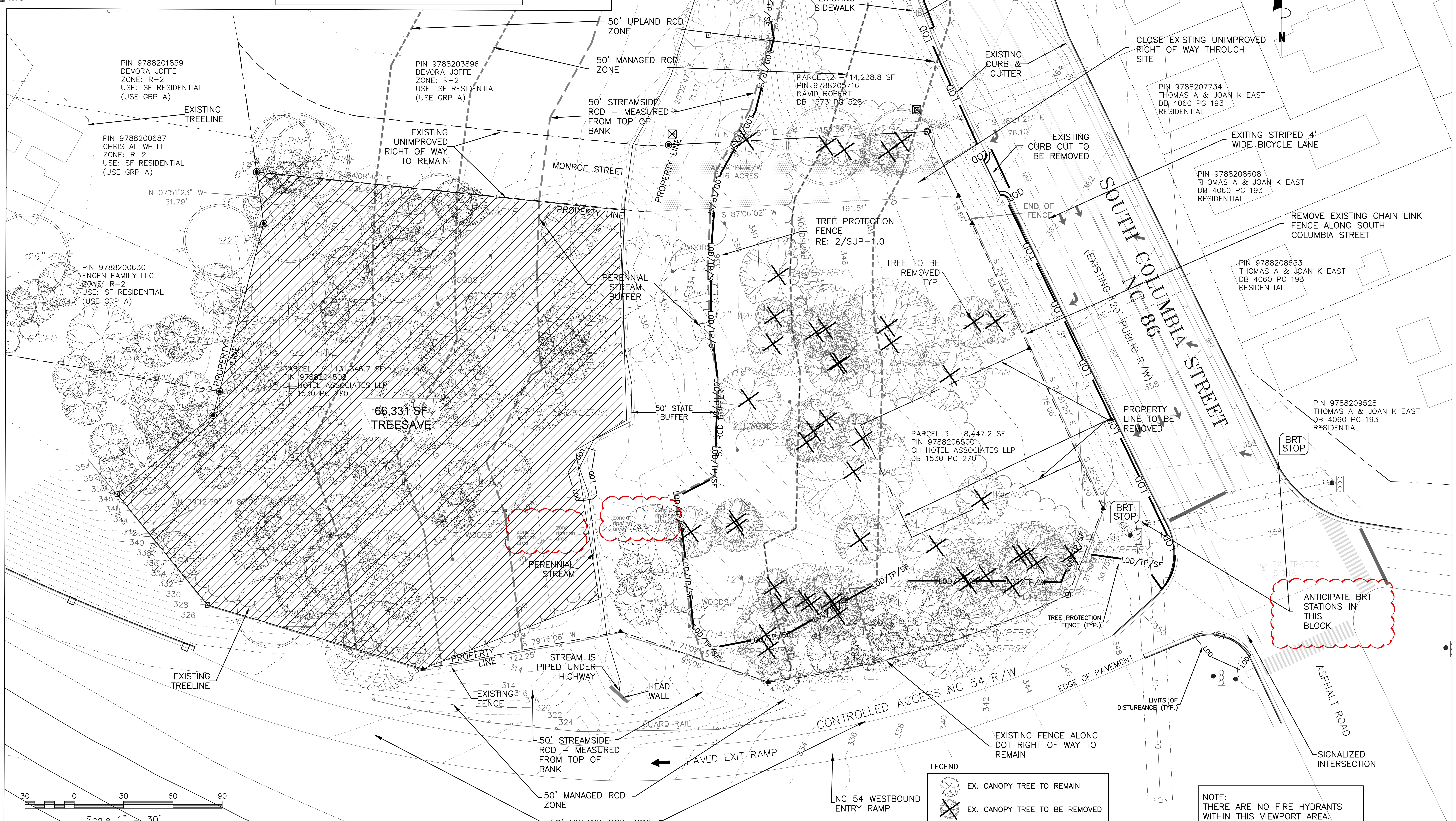




TREE PROTECTION FENCING NOTES:
1. MOVE FENCE OR REMOVE TREE IF MORE THAN 20% OF A TREE'S ROOT PROTECTION ZONE AREA IS UNPROTECTED.
2. ROOT PRUNE THE TREES TO REMAIN WHERE CONSTRUCTION ACTIVITIES WILL SEVER ROOTS.
3. ANY TREE ROOTS EXPOSED BY CONSTRUCTION SHALL BE SEVERED CLEANLY WITH A PRUNING TOOL.
4. DO NOT DISPOSE OF ANY CHEMICALS OR REMOVE SOIL OUTSIDE THE LIMITS OF WORK.
5. WHEN INSTALLING NEW LANDSCAPE PLANTS, DO NOT DRIVE EQUIPMENT UPON OR DISTURB THE SOIL WITHIN THE ROOT ZONE PROTECTION AREA OF EXISTING TREES.
6. SIGNAGE IN BOTH ENGLISH AND SPANISH MUST BE PLACED ON TREE PROTECTION FENCING WITH A MINIMUM SPACING OF 75' O.C. SIGNAGE IS TO READ :
TREE PROTECTION AREA – NO TRESPASSING WITHIN THE FENCE
PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES
7. TREES WITHIN THE TREE PROTECTION AREA TO BE REMOVED ARE TO BE CUT FLUSH WITH THE GROUND (LEAVE ROOTS INTACT) AND FELLED TOWARD THE CONSTRUCTION ZONE.
8. TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY SITE WORK OR LAND DISTURBANCE.

CONTRACTORS MUST COMPLETE THE TOWN'S TREE PROTECTION SEMINAR PRIOR TO TREE PROTECTION FENCE INSTALLATION. CONTACT ADAM NICHOLSON, URBAN FORESTRY, 919–969–5006.

TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY SITE WORK OR LAND DISTURBANCE.

**2/SUP-1.0**
**TREE PROTECTION FENCE**
**NTS**




EXISTING CONDITIONS WERE SURVEYED BY THE JOHN R. MCADAMS COMPANY, 3–9–98. TREE SURVEY WAS CONDUCTED BY COULTER JEWELL THAMES PA, 4–26–13.

**1/SUP-1.0**
**EXISTING CONDITIONS & DEMOLITION PLAN**
**SCALE: 1"=30'**

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**EXISTING CONDITIONS, TREE SURVEY, AND DEMOLITION PLAN**

**SUP-1.0**

TOPOGRAPHY/SLOPES:

BECAUSE OF DOT ROAD CONSTRUCTION IN THE 1990'S, THE SITE SITS MUCH LOWER THAN COLUMBIA STREET AND THERE IS A STEEP DROP FROM THE STREET INTO THE SITE. THE SITE SLOPES FROM NORTH TO SOUTH, AND DROPS APPROXIMATELY 30 FEET OVER THE WIDTH OF THE SITE. THE DEVELOPMENT WILL TAKE ADVANTAGE OF THIS DROP BY SETTING THE BUILDING INTO THE SLOPE AND PROVIDING STREET LEVEL ACCESS TO THE PLAZA AND BUILDING. SERVICE AND PARKING USES WILL BE PLACED BELOW STREET LEVEL. SOME USABLE SPACE WILL FACE AND ACCESS LOWER LEVEL PARKING ON THE WEST SIDE. THE SITE HAS SLOPES OF 4% TO OVER 25%. THE MAJORITY OF THE SITE HAS SLOPES UNDER 10%.

EXISTING SLOPES:
10–15% = 37,161.8 SF (22.4% OF THE SITE)
15–25% = 24,507.7 SF (14.8% OF THE SITE)
>25% = 9,541.8 SF (5.8% OF THE SITE)
57.0% OF THE SITE HAS <10% SLOPE

HYDROLOGICAL FEATURES/DRAINAGE

THERE IS AN PERENNIAL STREAM IN THE CENTER OF THE SITE AND AN EPHEMERAL STREAM ON THE WESTERN SIDE OF THE SITE. THE SITE GENERALLY DRAINS FROM NORTH TO SOUTH.

SOIL TYPES

THE USDA / NRCS WEB SOIL SURVEY CLASSIFIES TWO SOILS ON THIS SITE. THE WESTERN, EASTERN, AND SOUTH–CENTRAL PORTIONS OF THE SITE ARE WEDOWEE SANDY LOAM WITH 4% TO >25% SLOPES. THE NORTH–CENTRAL PORTION OF THE SITE IS A APPLING SANDY LOAM WITH 6% TO >25% SLOPES.

SUN/SHADE PATTERNS

THE SUN WILL PASS AROUND THE SOUTH SIDE OF THE STRUCTURE DURING THE COURSE OF THE DAY. THE FRONT ENTRY WILL GET MORNING SUN. SOME EXISTING TREES WILL BE RETAINED SOUTH OF THE BUILDING IN THE BUFFER AGAINST THE NC 54 ON–RAMP. PLANTINGS WILL BE ADDED TO THE COLUMBIA STREET PLAZA AND FRONTAGE.

TREES IN THE PARKING LOT WILL BE CONCENTRATED ALONG THE EAST AND SOUTH SIDES OF THE PARKING BAYS TO PROVIDE MAXIMUM SHADE FOR VEHICLES. SOME PARKING IS LOCATED UNDER THE BUILDING. SOME PARKING IS ON THE NORTH SIDE OF 6 AND 7 STORY BUILDINGS AND WILL BE SHADED BY THE BUILDINGS. THERE WILL BE PLANTINGS AT THE ENTRY AND ALONG THE SIDEWALKS TO PROVIDE MAXIMUM SHADE FOR PEDESTRIANS.

FEMA FLOODPLAIN INFORMATION.

THERE IS NO MAPPED FLOODPLAIN ON SITE PER FEMA PANEL 3710978800J.

SPECIAL FEATURES

THIS PROPERTY HAS FRONTAGE ON SOUTH COLUMBIA STREET AND THE WESTBOUND NC 54 ON–RAMP.

VEGETATION

THE SITE IS ENTIRELY TREED IN HARDWOODS AND SOME PINES TO THE WEST. THE SITE WEST OF THE PERENNIAL STREAM WILL BE LEFT FORESTED AND UNDISTURBED.

SLOPE DISTURBANCE IN PROJECT AREA

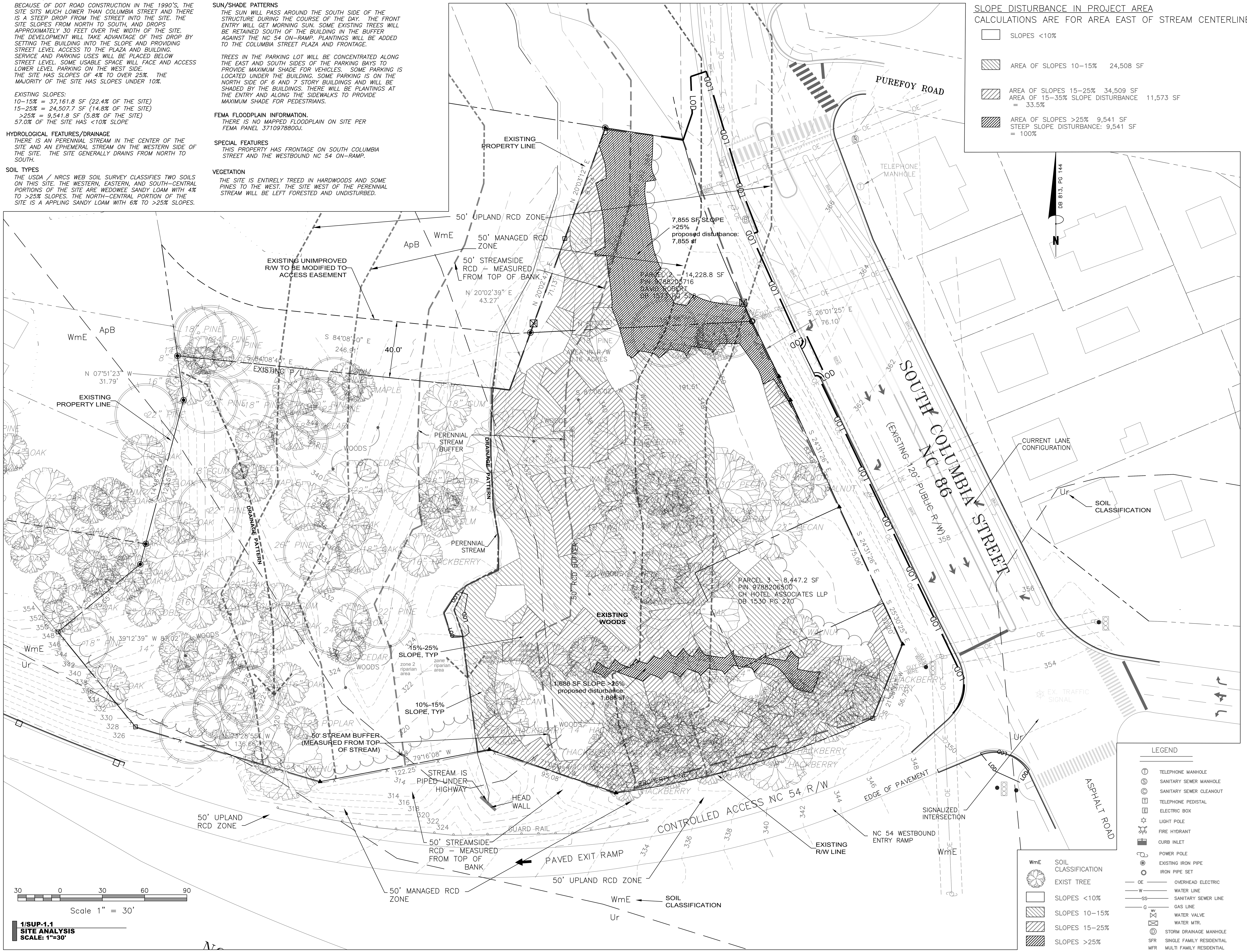
CALCULATIONS ARE FOR AREA EAST OF STREAM CENTERLINE

SLOPES <10%

AREA OF SLOPES 10–15% 24,508 SF

AREA OF SLOPES 15–25% 34,509 SF
AREA OF 15–35% SLOPE DISTURBANCE 11,573 SF
= 33.5%

AREA OF SLOPES >25% 9,541 SF
STEEP SLOPE DISTURBANCE: 9,541 SF
= 100%




1/SUP-1.1
SITE ANALYSIS
SCALE: 1"=30'

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SITE ANALYSIS

SUP-1.1


LEGEND

- TELEPHONE MANHOLE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- TELEPHONE PEDISTAL
- ELECTRIC BOX
- LIGHT POLE
- FIRE HYDRANT
- CURB INLET
- POWER POLE
- EXISTING IRON PIPE
- IRON PIPE SET
- OE — OVERHEAD ELECTRIC
- W — WATER LINE
- SS — SANITARY SEWER LINE
- G — GAS LINE
- WATER VALVE
- WATER MTR.
- STORM DRAINAGE MANHOLE
- SFR SINGLE FAMILY RESIDENTIAL
- MFR MULTI FAMILY RESIDENTIAL

EXIST TREE TO REMAIN

1/SUP-1.2
**TREE CANOPY PLAN**
**SCALE: 1"=30'**

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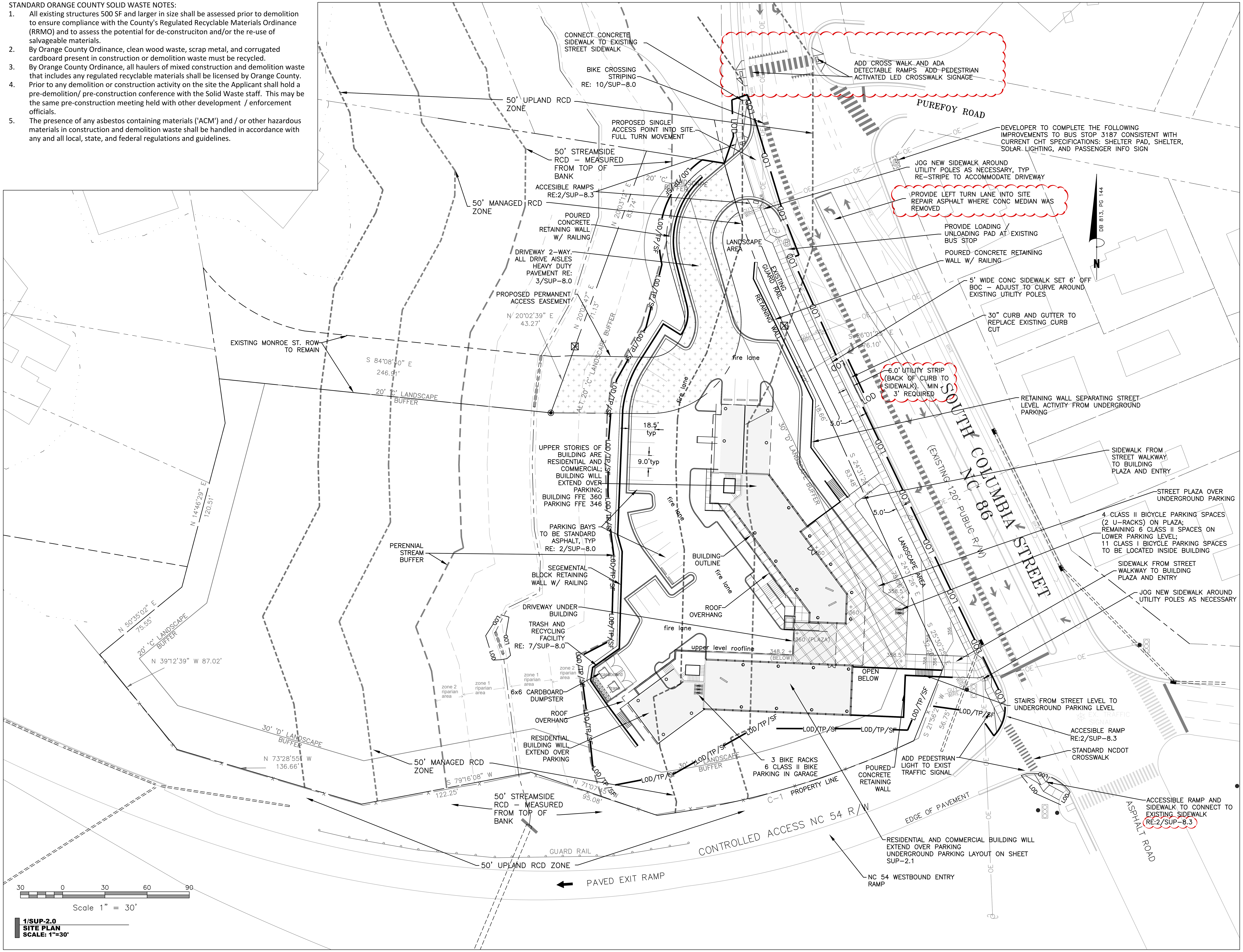
**TREE CANOPY PLAN**

**SUP-1.2**

STANDARD ORANGE COUNTY SOLID WASTE NOTES:

1. All existing structures 500 SF and larger in size shall be assessed prior to demolition to ensure compliance with the County's Regulated Recyclable Materials Ordinance (RRMO) and to assess the potential for de-construciton and/or the re-use of salvageable materials.
2. By Orange County Ordinance, clean wood waste, scrap metal, and corrugated cardboard present in construction or demolition waste must be recycled.
3. By Orange County Ordinance, all haulers of mixed construction and demolition waste that includes any regulated recyclable materials shall be licensed by Orange County.
4. Prior to any demolition or construction activity on the site the Applicant shall hold a pre-demolition/ pre-construction conference with the Solid Waste staff. This may be the same pre-construction meeting held with other development / enforcement officials.
5. The presence of any asbestos containing materials ('ACM') and / or other hazardous materials in construction and demolition waste shall be handled in accordance with any and all local, state, and federal regulations and guidelines.




1/SUP-2.0
SITE PLAN
SCALE: 1"=30'

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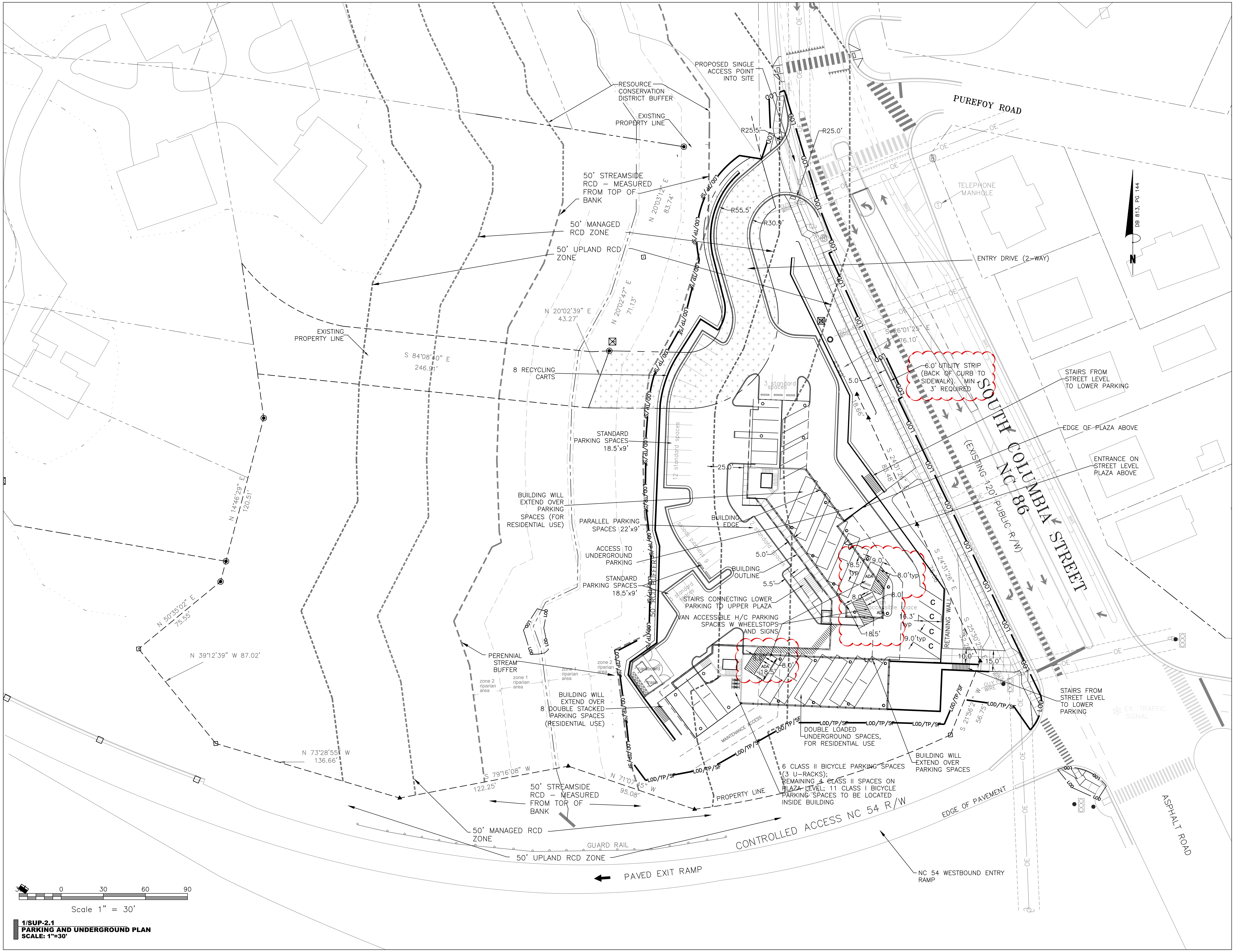
## OVERALL SITE PLAN STREET LEVEL BUILDING PLAN

SUP-2.0

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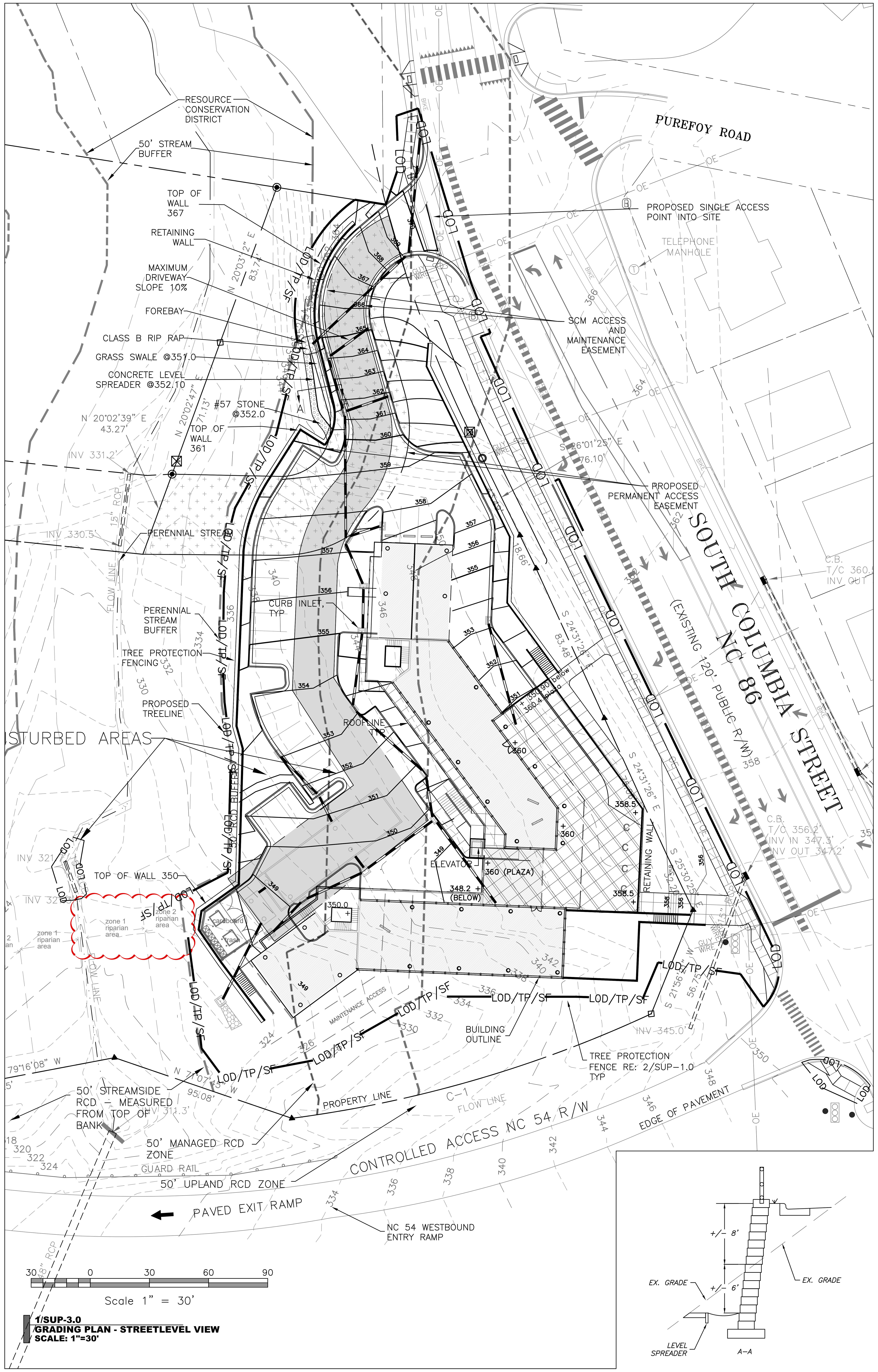
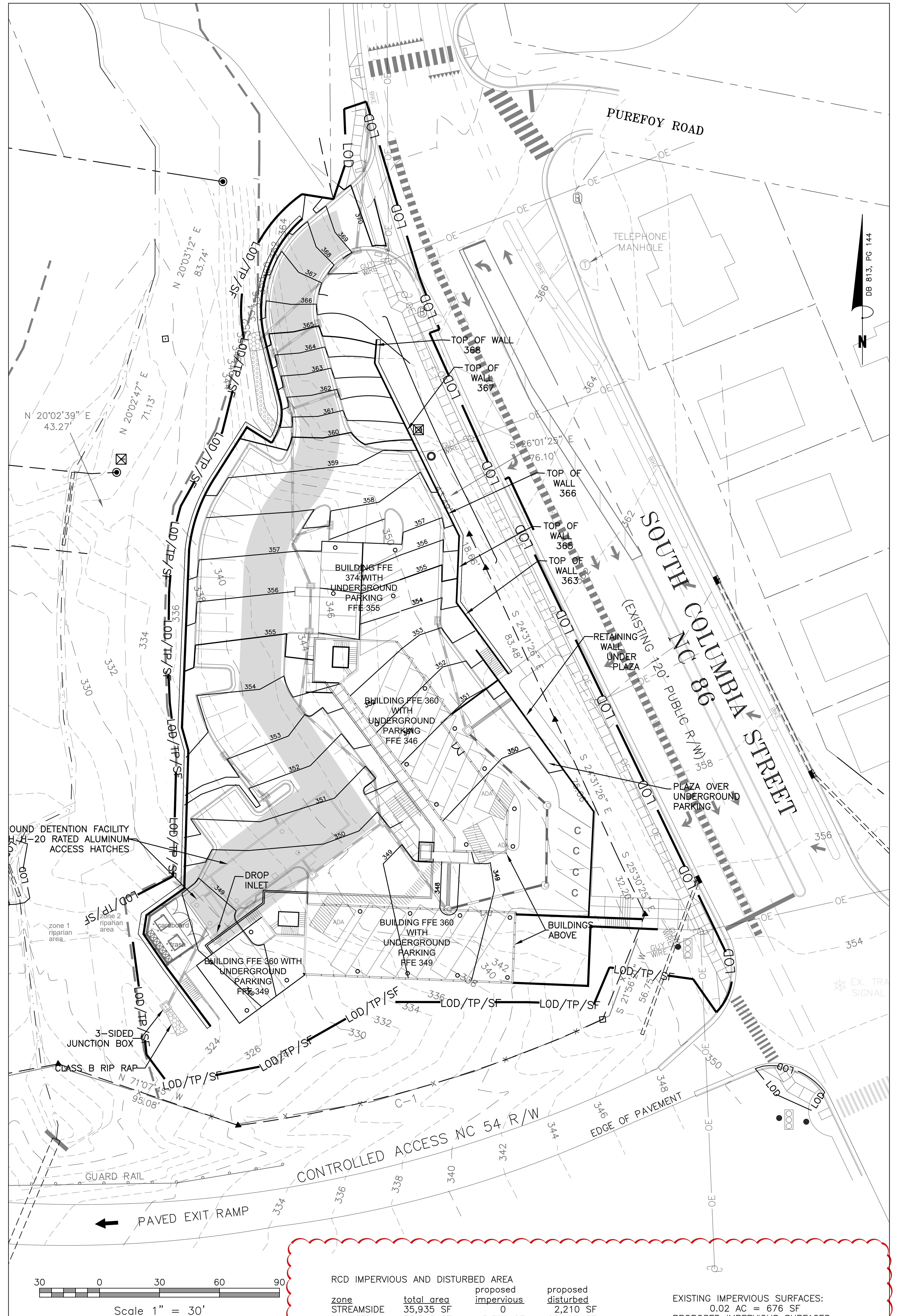
## SITE PLAN UNDERGROUND PARKING LAYOUT

SUP-2.1




**1/SUP-3.0**
**GRADING PLAN - STREETLEVEL VIEW**
**SCALE: 1"=30'**




**2/SUP-3.0**
**GRADING PLAN - UNDERGROUND PARKING LEVEL**
**SCALE: 1"=30'**

RCD IMPERVIOUS AND DISTURBED AREA

| zone | total area | proposed impervious | proposed disturbed |
|---|---|---|---|
| STREAMSIDE | 35,935 SF | 0 | 2,210 SF |
| MANAGED | 38,618 SF | 5,380 SF | 23,100 SF |
| UPLAND | 34,668 SF | 13,650 SF | 18,300 SF |
| TOTAL: | 109,221 SF | 19,030 SF | 43,610 SF |
| | | 17.42% | 39.92% |

CALCULATIONS REPRESENT AREAS WITHIN PROPERTY BOUNDARY ONLY.

EXISTING IMPERVIOUS SURFACES:
0.02 AC = 676 SF
PROPOSED IMPERVIOUS SURFACES:
0.96 AC = 48,950 SF

NOTE: PROPOSED IMPERVIOUS SURFACES ARE TALLIED WITHIN PROPERTY BOUNDARY ONLY.

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## COLUMBIA STREET ANNEX

1150 South Columbia Street
Chapel Hill, North Carolina

OWNER:
CH HOTEL ASSOCIATES LLC.
3008 ANDERSON DRIVE, SUITE 120
RALEIGH NC 27609

NORTH CAROLINA PROFESSIONAL ENGINEER 23461 CHARLES N. HILL, JR.
5/11/2020

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Drawn By: WLR, MTC Date: 26 April 18

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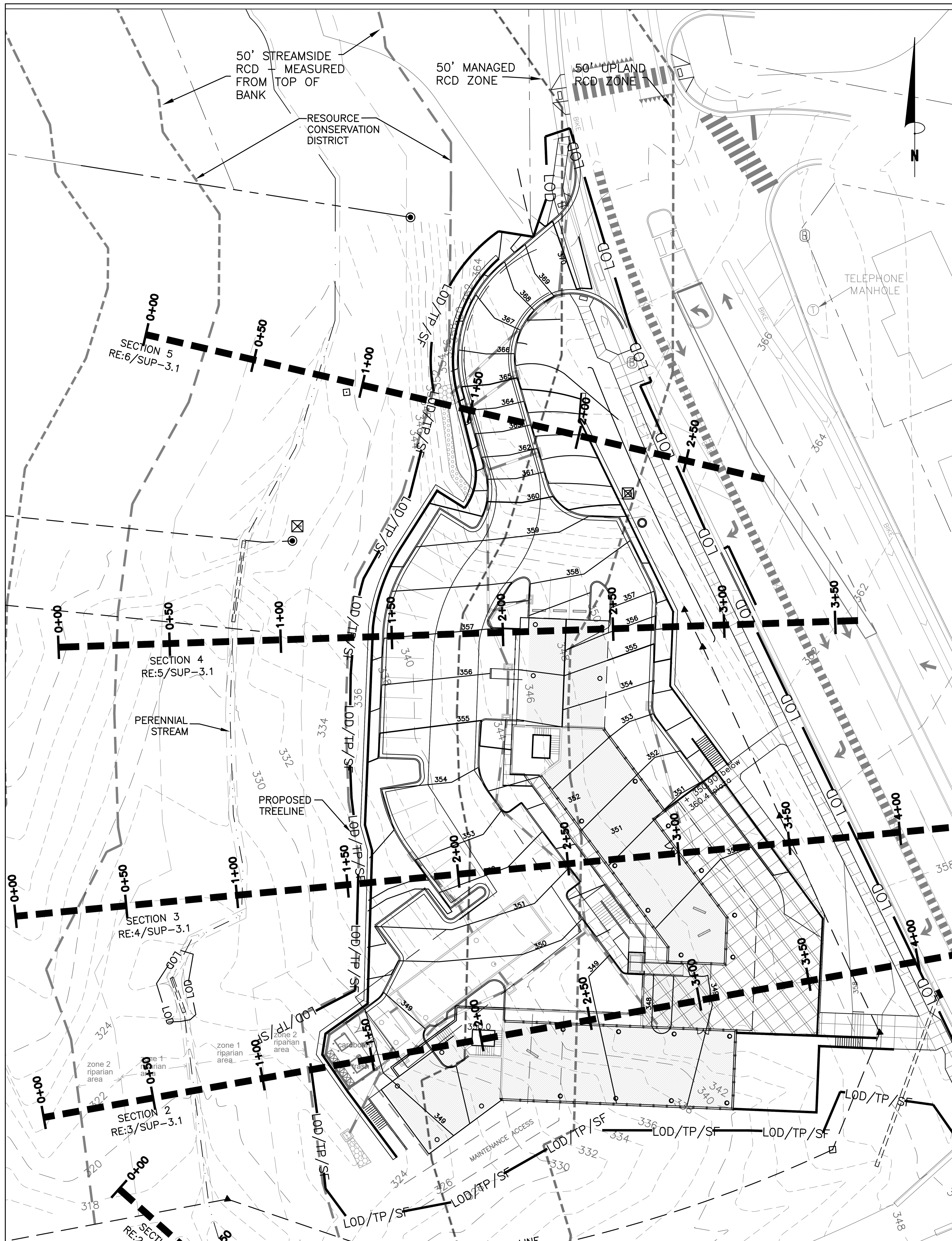
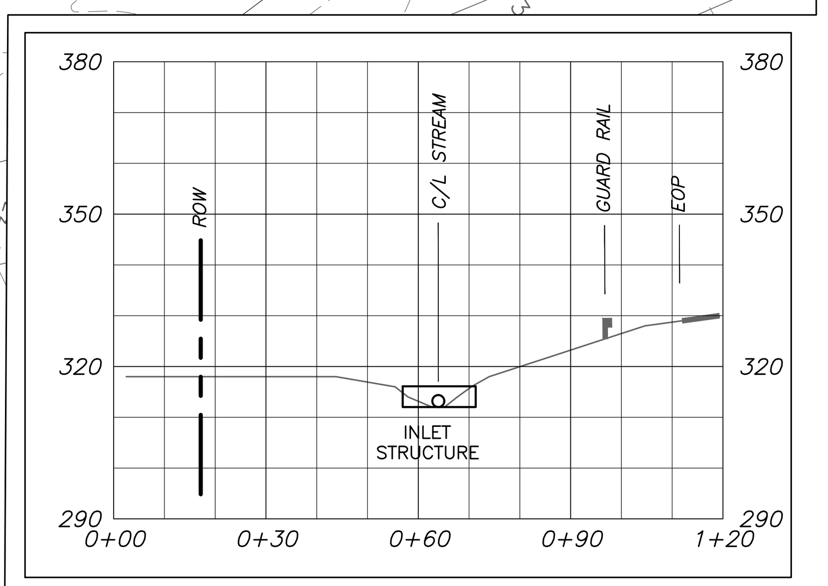
## GRADING, TREE PROTECTION AND STORMWATER PLAN

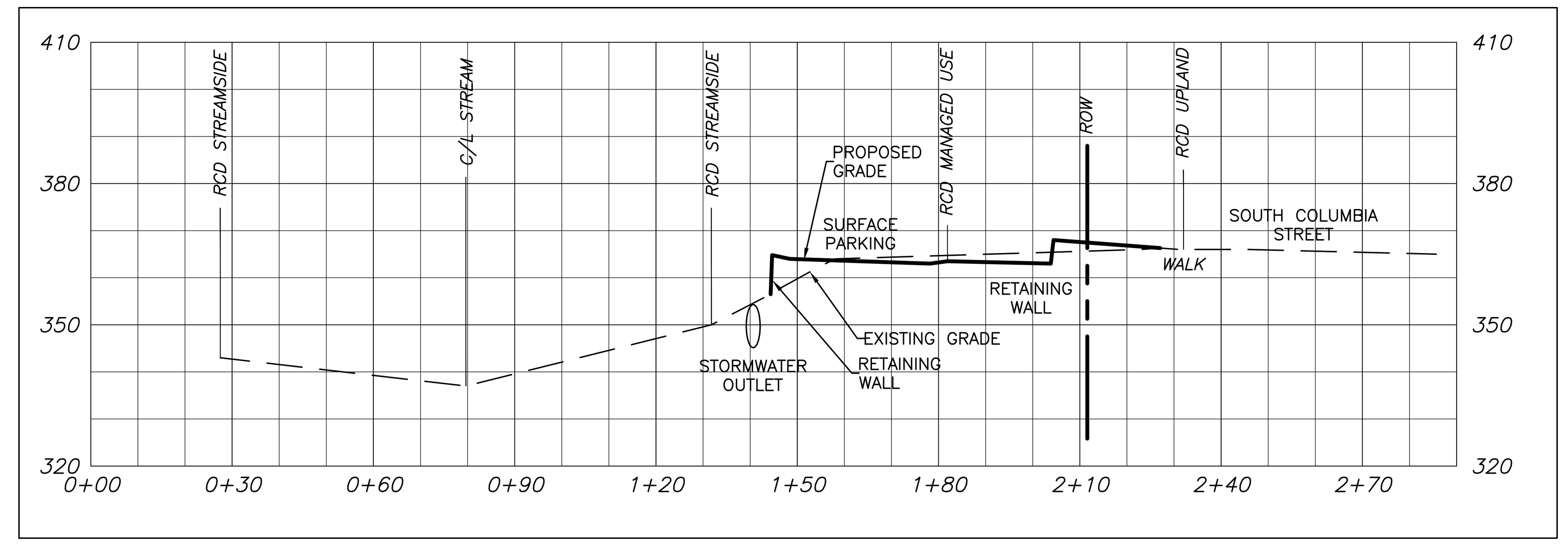
**SUP-3.0**




1/SUP-3.1
**SECTION KEY**
**SCALE: 1"=30'**




2/SUP-3.1 SECTION 1
**HORIZ: 1"=30'**
**VERT: 1"=30'**




6/SUP-3.1 SECTION 5
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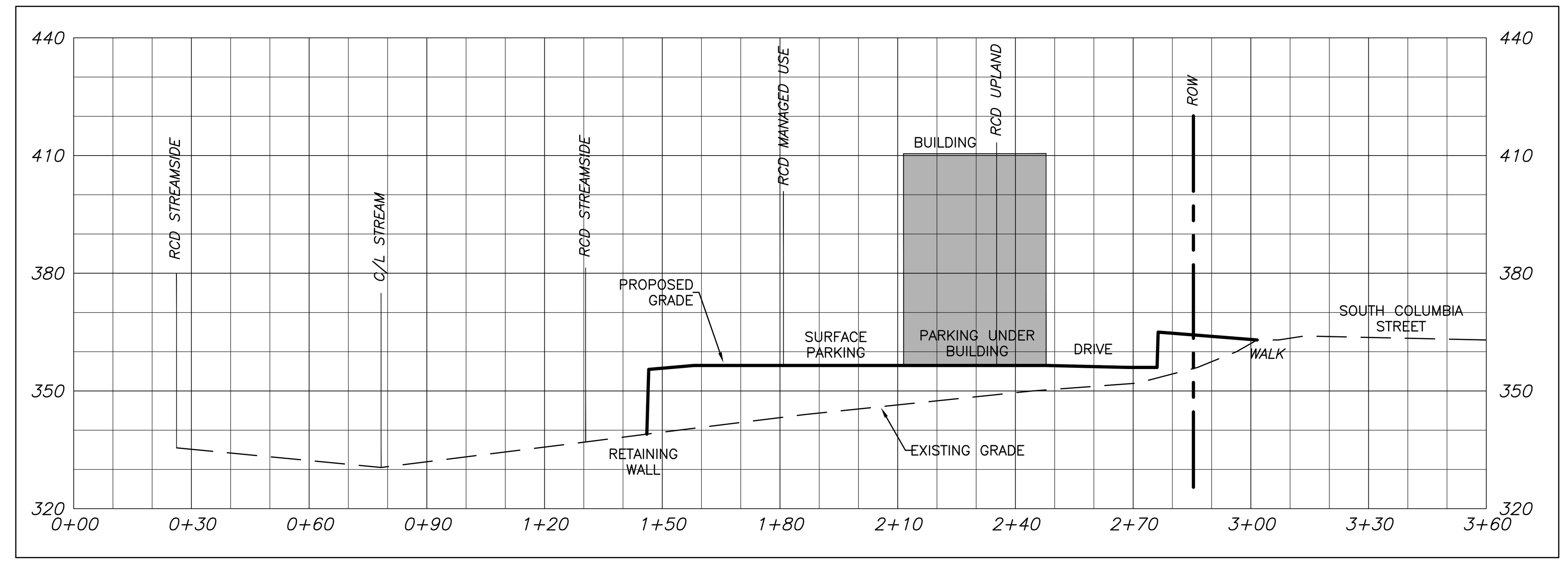
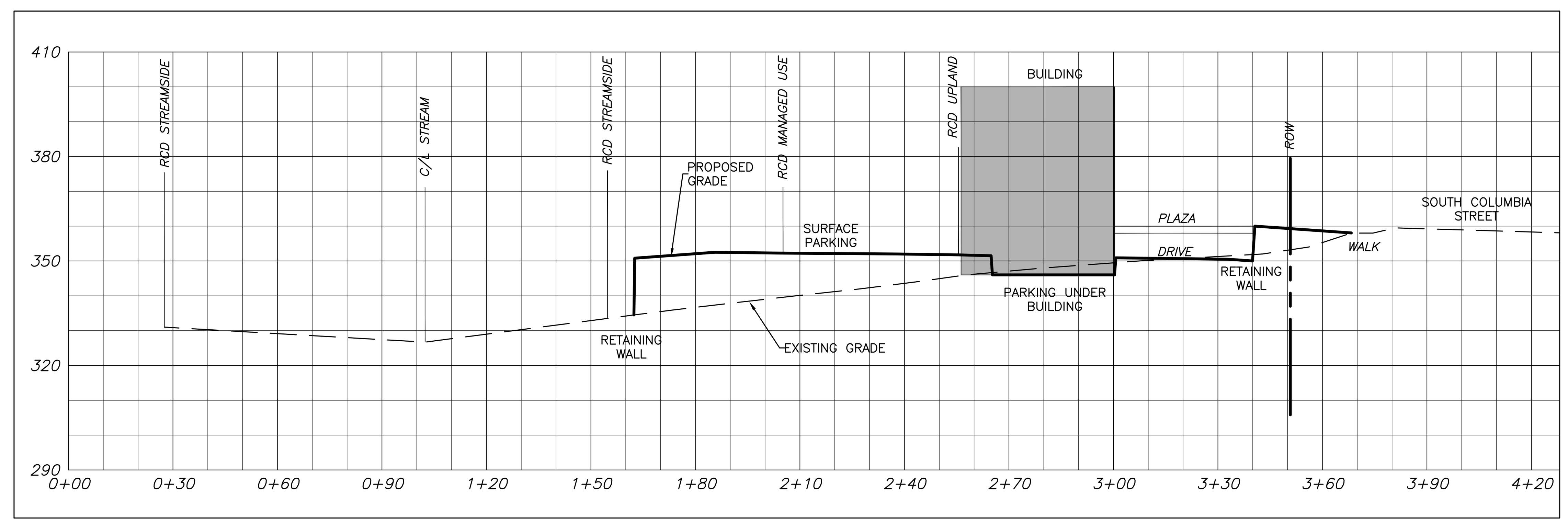
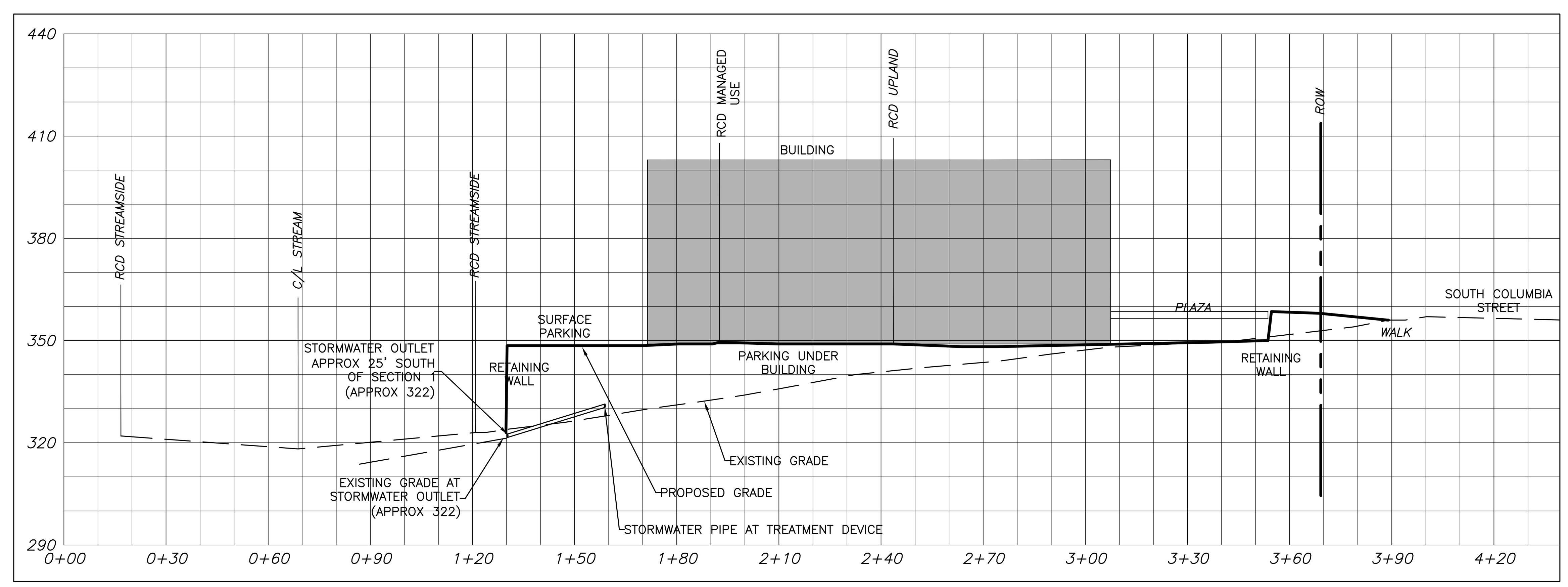
**VERT: 1"=30'**




5/SUP-3.1 SECTION 4
**HORIZ: 1"=30'**
**VERT: 1"=30'**




4/SUP-3.1 SECTION 3
**HORIZ: 1"=30'**
**VERT: 1"=30'**




3/SUP-3.1 SECTION 2
**HORIZ: 1"=30'**
**VERT: 1"=30'**

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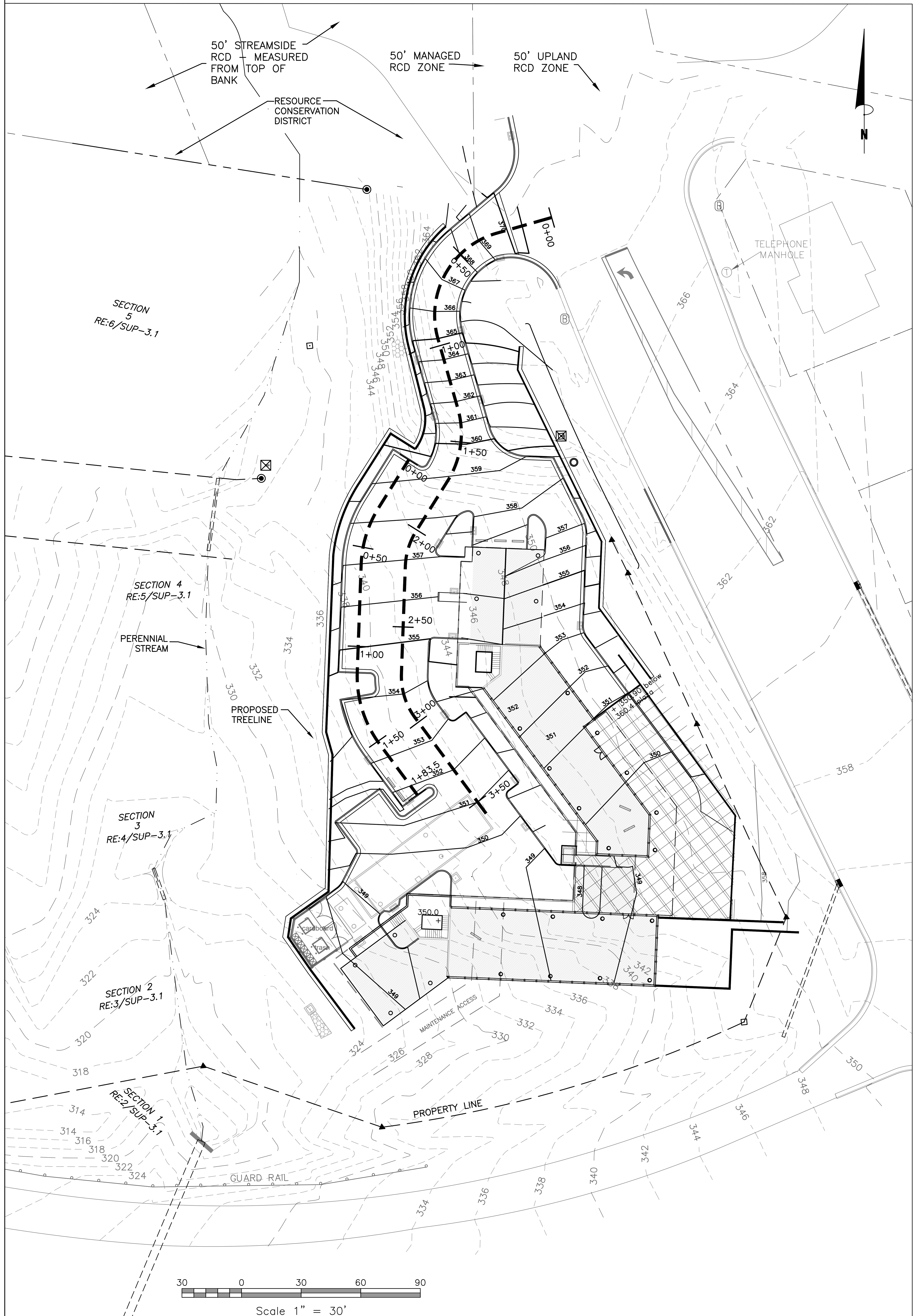
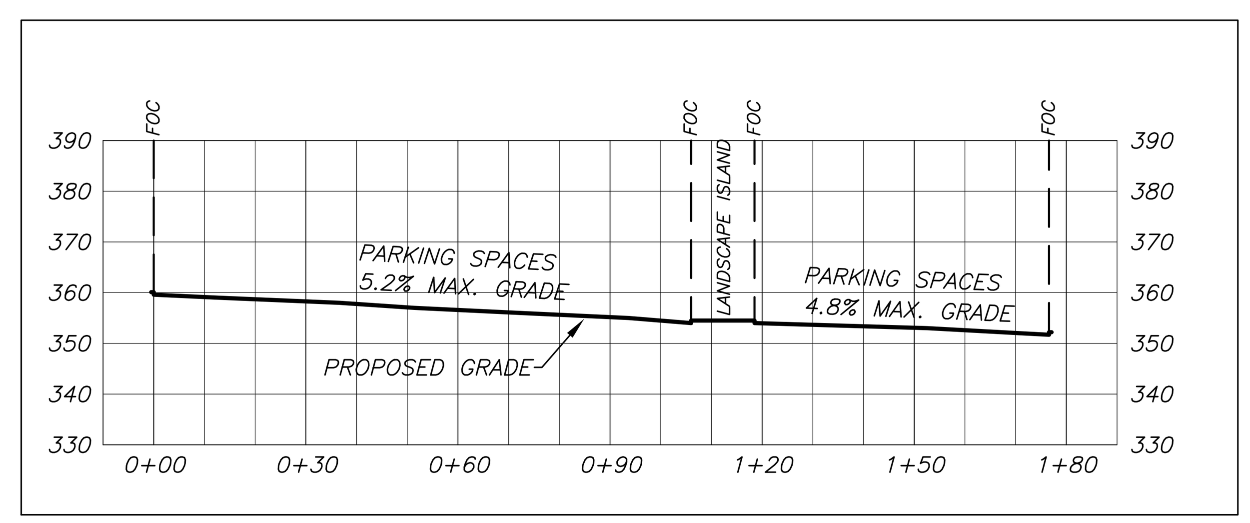
## SITE / RCD SECTIONS

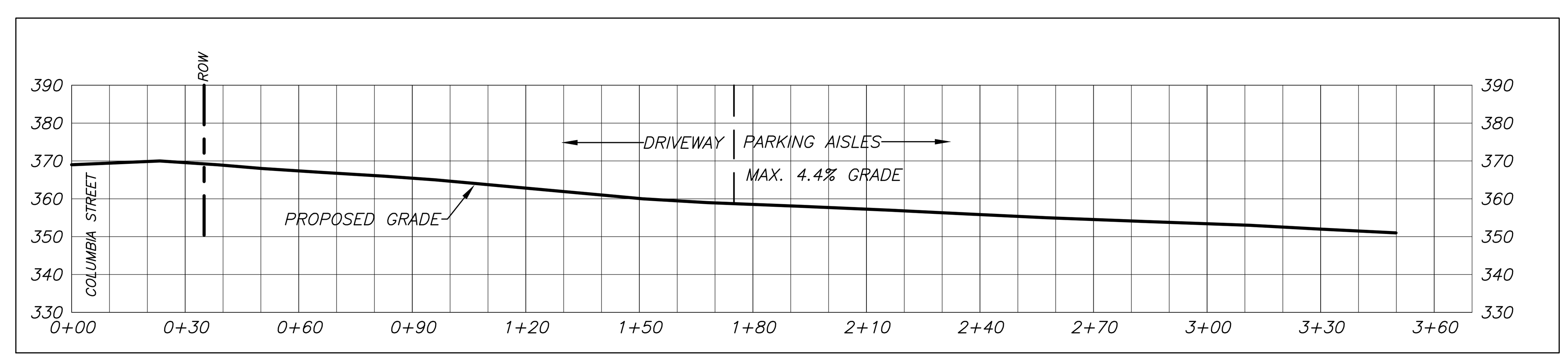
**SUP-3.1**




**1/SUP-3.2**
**SECTION KEY**
**SCALE: 1"=30'**




**2/SUP-3.2 SECTION 1**
**HORIZ: 1"=30'**
**VERT: 1"=30'**




**3/SUP-3.2 SECTION 2**
**HORIZ: 1"=30'**
**VERT: 1"=30'**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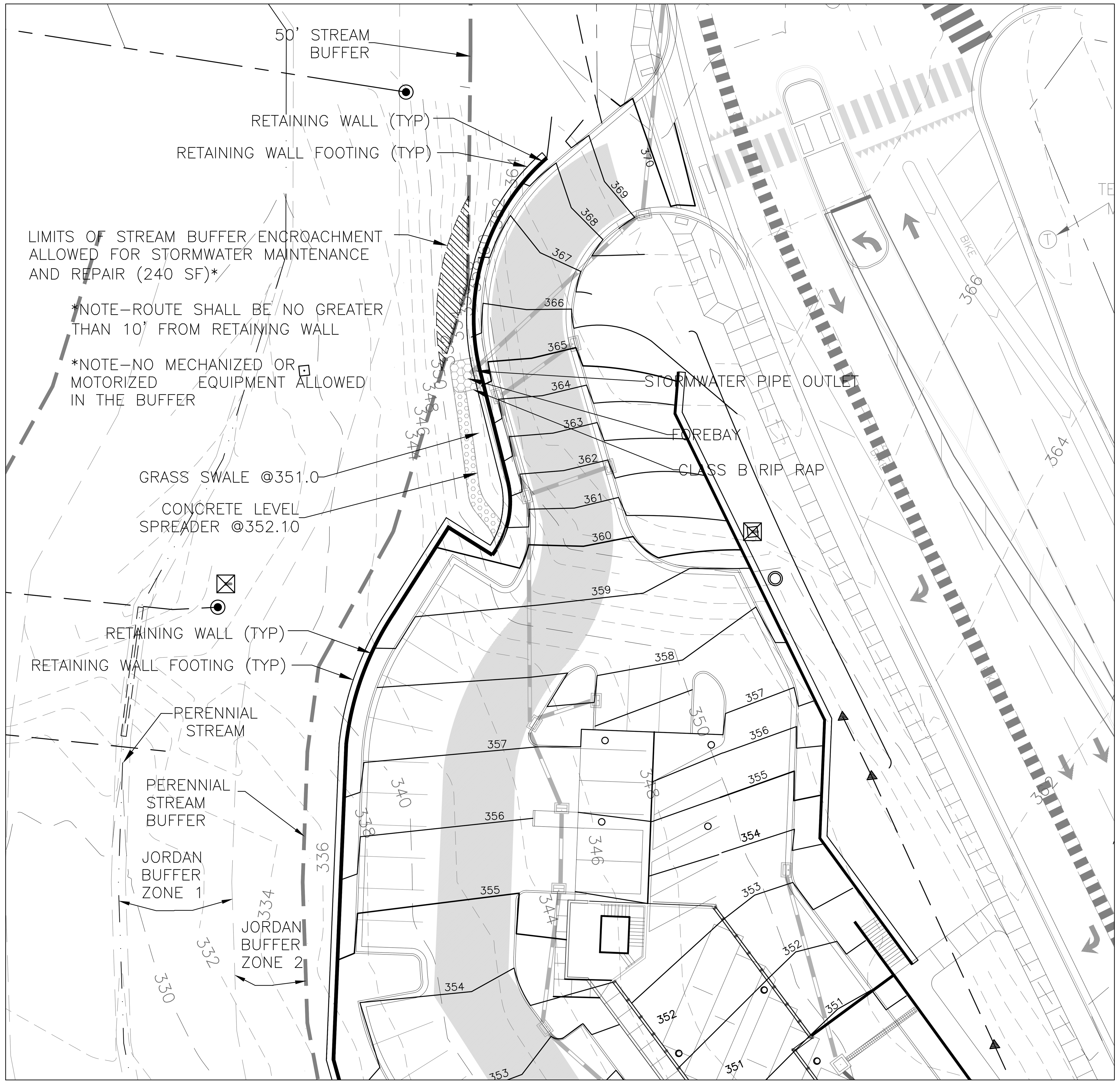
## DRIVE / PARKING SECTIONS

**SUP-3.2**




Scale 1" = 20'

**1/SUP-3.3**
**STORMWATER MAINTENANCE PLAN**
**SCALE: 1"=20'**

NOTES:

1. THE STORMWATER PIPING OUTLET AND LEVEL SPREADER BEHIND THE RETAINING WALL NEAR THE PROJECT ENTRANCE HAS LIMITED ACCESS BECAUSE OF THE PROTECTIVE STREAM BUFFER IN THIS LOCATION. AS SHOWN ON THE DRAWINGS, THE PIPING AND LEVEL SPREADER ARE NOT LOCATED WITHIN THIS BUFFER.
2. ACCESS TO THE PIPING OUTLET AND LEVEL SPREADER FOR MAINTENANCE AND/OR REPAIR IS ALLOWABLE, WITH STRICT LIMITATIONS AS FOLLOWS:
3. PERSONNEL WITH HAND OPERATED TOOLS OR EQUIPMENT MAY ACCESS THE STORMWATER PIPING OUTLET AND LEVEL SPREADER ON FOOT ALONG A ROUTE BEHIND THE RETAINING WALL. THE ROUTE SHALL BE LIMITED TO WITHIN 10' OF THE WALL TO AVOID DAMAGE TO THE BUFFER AREA AS MUCH AS POSSIBLE. NO TREES MAY BE REMOVED ALONG THIS ROUTE FOR MAINTENANCE PURPOSES. ANY DISTURBANCE OF THE GROUND BY THIS FOOT TRAFFIC SHALL BE REPAIRED IMMEDIATELY AFTER COMPLETION OF THE STORMWATER MAINTENANCE.
4. NO MECHANICAL OR MOTORIZED EQUIPMENT IS ALLOWED TO TRAVERSE THIS ROUTE THROUGH THE BUFFER TO ACCESS THE PIPING OUTLET OR LEVEL SPREADER.
5. IF MECHANICAL OR MOTORIZED EQUIPMENT IS REQUIRED FOR MAINTENANCE OR REPAIR ACTIVITIES BEHIND THE RETAINING WALL, THE EQUIPMENT SHALL BE LOWERED OVER THE WALL SUCH THAT THE EQUIPMENT DOES NOT ENCROACH INTO THE STREAM BUFFER.

**1/SUP-3.3**
**STORMWATER MAINTENANCE PLAN NOTES**

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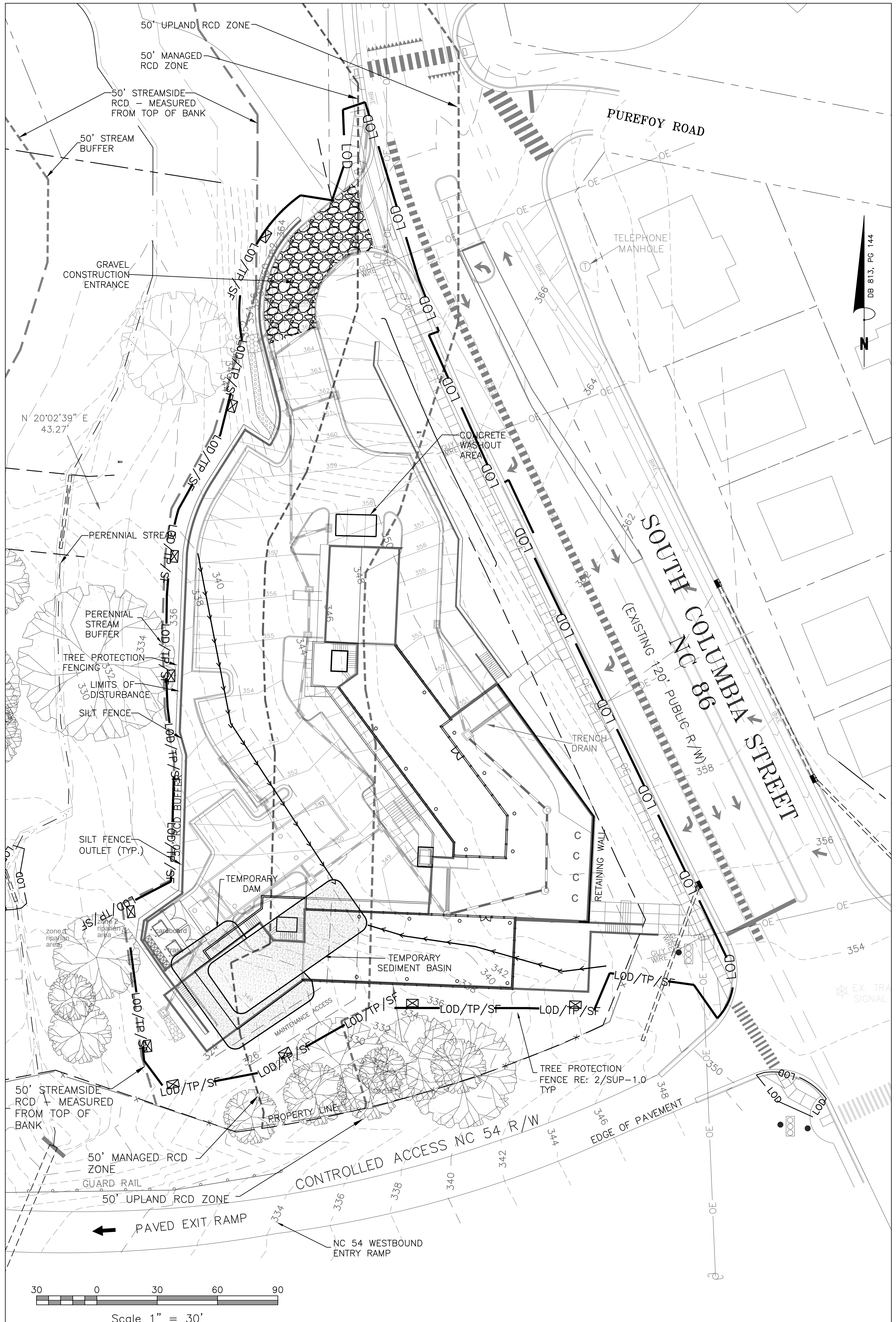
**STORMWATER MAINTENANCE PLAN**

**SUP-3.3**




**1/SUP-4.0**
**EROSION CONTROL PLAN**
**SCALE: 1"=30'**

NOTE:
EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS MAY BE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE EXISTING AND PROPOSED STORMWATER BMP'S. ANY REQUIRED SEDIMENT REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. INSTALL SILT FENCE PRIOR TO WORK IN ANY AREA TO PREVENT SILT FROM LEAVING SITE.
2. ALL STORMWATER PIPING SHALL BE PROTECTED FROM FLOW UNTIL STABILIZATION IS ACHIEVED. PROTECTION SHALL BE INSTALLED AT THE END OF CONSTRUCTION EACH WORK DAY AND AT ANY TIME RAIN EVENTS CAUSE FLOW INTO OPEN TRENCH, PER DETAILS.
3. ALL STORMWATER STRUCTURES SHALL BE PROTECTED FROM INFLOW UNTIL STABILIZATION IS ACHIEVED USING EITHER STAKED HARDWARE CLOTH OR SILT SACKS, PER DETAILS.
4. CONSTRUCTION ENTRANCES SHOWN ARE IN SUGGESTED LOCATIONS. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AND MAINTAINED SUCH THAT NO CONSTRUCTION TRAFFIC MAY LEAVE THE SITE WITHOUT PASSING OVER THE ENTRANCE DEVICE.

**2/SUP-4.0**
**EROSION CONTROL NOTES**

1. *INSTALL ALL TREE PROTECTION FENCING REQUIRED.*
2. *OBTAIN ALL APPROVALS AND PERMITS NECESSARY TO BEGIN AMD COMPLETE THE PROJECT. THE APPROVALS AND PERMITS MUST BE OBTAINED BEFORE THE DISTURBANCE BEGINS SO THAT WORK WILL NOT BE INTERRUPTED OR DELAYED.*
3. *SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL PLAN AND SCHEDULE WITH THE OWNER OR OWNER'S REPRESENTATIVE, GRADING CONTRACTOR, AND EROSION CONTROL PERSONNEL BEFORE STARTING ANY DEMOLITION, TIMBERING, GRUBBING, CLEARING, OR GRADING ACTIVITIES.*
4. *CLEAR ONLY THE AREA NECESSARY TO GAIN ACCESS TO AND INSTALL THE INITIAL EROSION CONTROL DEVICES: THE CONSTRUCTION ENTRANCE, SILT FENCE AND OUTLETS, DIVERSION DITCHES, ARCH FILTERS, AND CHECK DAMS. ALL DITCHES ARE TO BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE INSTALLED.*
5. *CLEAR AND GRADE THE REMAINDER OF THE SITE. INSTALL STORM DRAINS AND OTHER UTILITIES.*
6. *INSTALL TEMPORARY INLET PROTECTION AND RIP RAP APRONS AS SOON AS POSSIBLE AFTER PIPE HAS BEEN INSTALLED AND DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND BACKFILLED. ENSURE THAT UPSTREAM EROSION CONTROL DEVICES ARE IN PROPER WORKING ORDER TO PREVENT RIP RAP APRONS FROM BECOMING CLOGGED WITH SILT.*
7. *INSTALL CURB AND GUTTER, PAVEMENT BASE, AND PAVEMENT. REMOVE TEMPORARY INLET PROTECTION AND INSTALL SILT SACKS IN INLETS.*
8. *INSPECT AND MAINTAIN THE SEDIMENT CONTROL DEVICES SO THEY CONTINUE TO FUNCTION PROPERLY. THE PERSON RESPONSIBLE FOR EROSION CONTROL WILL OVERSEE THE INSPECTING AND MAINTENANCE OF THESE DEVICES. MEASURES SHOULD BE INSPECTED WEEKLY AND AFTER A RAINFALL OF MORE THAN 0.5 INCHES. SEDIMENT TO BE REMOVED FROM TRAPS WHEN SEDIMENT DEPTH IS ONE HALF OF THE TOTAL DEPTH OF TRAP. EROSION CONTROL DEVICES SHALL BE REPLACED WHEN DAMAGED OR DO NOT APPEAR TO BE WORKING PROPERLY.*
9. *IF IT IS DETERMINED DURING THE COURSE OF CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE PROJECT SITE DESPITE PROPER IMPLEMENTATION AND MAINTENANCE OF THE EROSION CONTROL PLAN, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY IS OBLIGATED TO TAKE ADDITIONAL PROTECTIVE ACTION.*
10. *KEEP MUD, DUST, AND DEBRIS OFF THE PUBLIC STREET AT ALL TIMES. IF MUD OR DEBRIS IS TRACKED FROM THE SITE, USE A SHOVEL AND BROOM TO REMOVE IT IMMEDIATELY. IF MUD, DUST, AND DEBRIS ARE NOT KEPT OFF THE STREET, ENFORCEMENT ACTION (REVOKING THE GRADING PERMIT AND/OR A STOP WORK ORDER) MAY BE TAKEN.*
11. *SILT FENCE AND DIVERSION DITCHES ARE TO BE RELOCATED AS NECESSARY AS GRADING PROGRESSES TO ENSURE THAT NO SEDIMENT LEAVES THE SITE AND RUNOFF ENTERS THE SEDIMENT BASIN.*
12. *SEEDING AND RESTABILIZATION OF DISTURBED AREAS MUST BE ACCOMPLISHED PER THE PLANS AND SPECIFICATIONS WITHIN THE TIMEFRAMES GIVEN IN THE STABILIZATION TIME TABLE PROVIDED IN THE SEEDING SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEEDING THAT IS REQUIRED DURING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.*
13. *WHEN CONSTRUCTION IS COMPLETED, ALL TEMPORARY EROSION CONTROL DEVICES MUST BE REMOVED AFTER THE DRAINAGE AREA HAS BEEN SUFFICIENTLY STABILIZED TO RESTRAIN EROSION. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT AND DEBRIS FROM THE DEVICES AND STABILIZE THE LOCATIONS.*
14. *ARRANGE A FINAL INSPECTION WITH THE EROSION CONTROL INSPECTOR TO CONFIRM THAT ALL THE REQUIREMENTS OF THE APPROVED EROSION CONTROL PLAN HAVE BEEN COMPLETE*
15. *SANDFILTERS ARE NOT TO RECEIVE RUNOFF FROM THE SITE UNTIL ALL EROSION AND SEDIMENT PHASES ARE COMPLETED. ALL INLETS TO SANDFILTERS SHALL REMAIN SEALED UNTIL SITE IS COMPLETELY STABILIZED.*

**3/SUP-4.0**
**CONSTRUCTION SEQUENCE**
**NTS**

**Ground Stabilization***

| Site Area Description | Stabilization Time Frame | Stabilization Time Frame Exceptions |
|---|---|---|
| Perimeter dikes, swales, ditches, and slopes | 7 days | None |
| High Quality Water (HQW) Zones | 7 days | None |
| Slopes steeper than 3:1 | 7 days | None |
| Slopes 3:1 or flatter | 7 days | None |
| All other areas with slopes flatter than 4:1 | 7 days | None |

* "Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable" (Section 11.B(2)(b))

7-DAY STABILIZATION AREAS INCLUDE:

SWALES 1 - 6

ALL AREAS BETWEEN LIMITS OF DISTURBANCE AND WALL 3

ALL AREAS BETWEEN LIMITS OF DISTURBANCE AND STORM LINE FROM MH1 TO MH3

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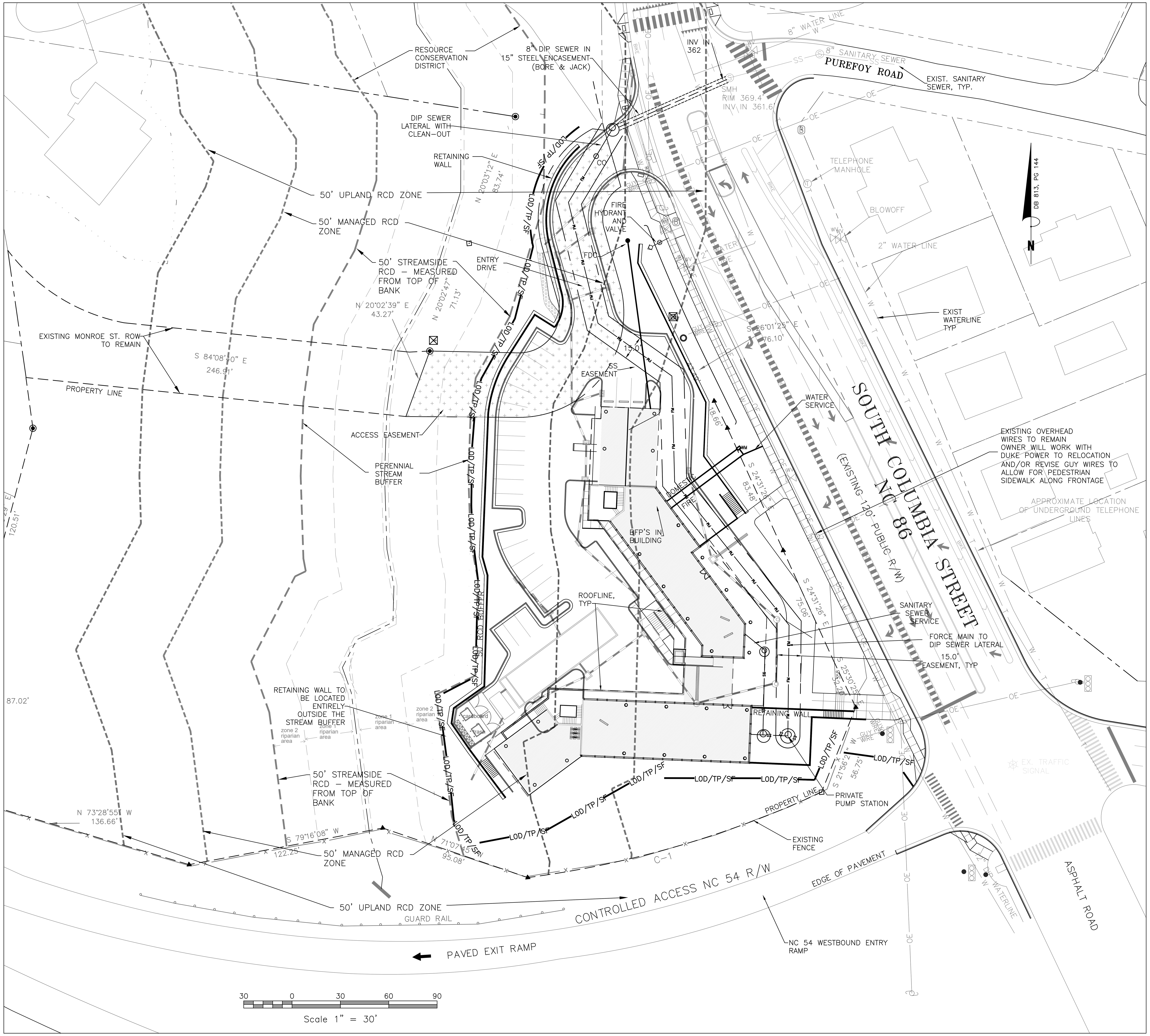
**EROSION CONTROL PLAN**

**SUP-4.0**

FIRE PROTECTION NOTES:

1. All construction an demolition conducted shall be in compliance of the current edition of Chapel 14 of the NC FPC.
2. When the building being constructed requires standpipes, a temporary standpipe connection will be constructed with ready Fire Department Access when the building is not more than 40' in height. Such standpipes shall provide usable connections adjacent to the stairs and shall continue with building progression always being not more than one floor below the highest floor of the building. NC FPC 2012 Section 1413.




**1/SUP-5.0**
**UTILITY PLAN**
**SCALE: 1"=30'**

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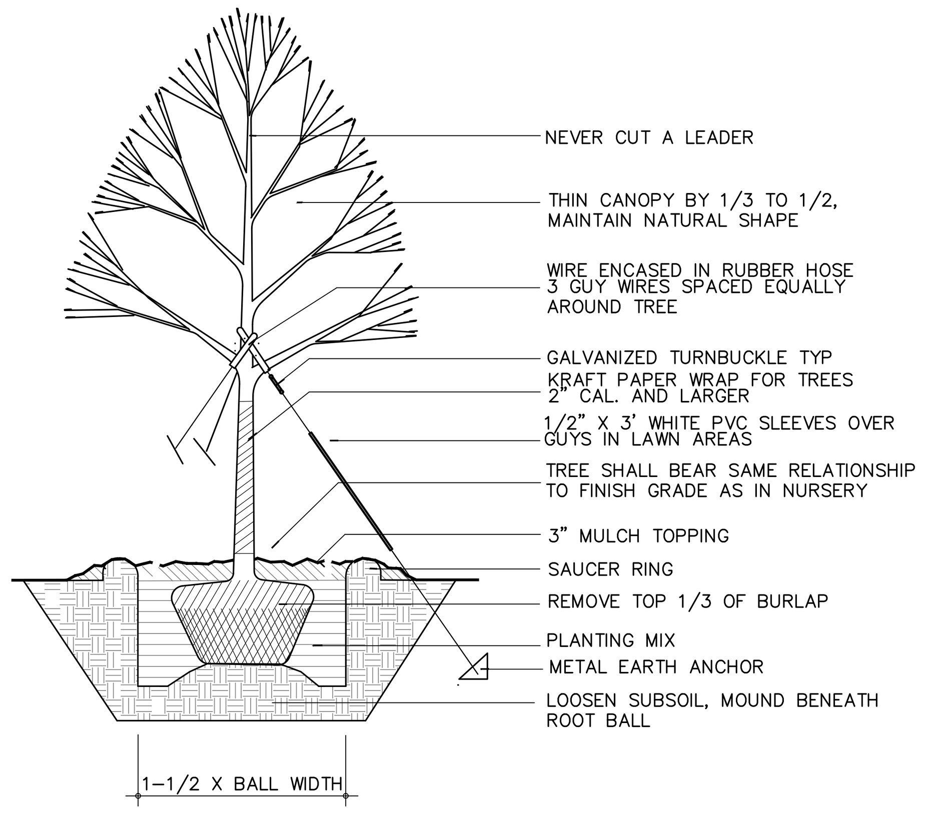
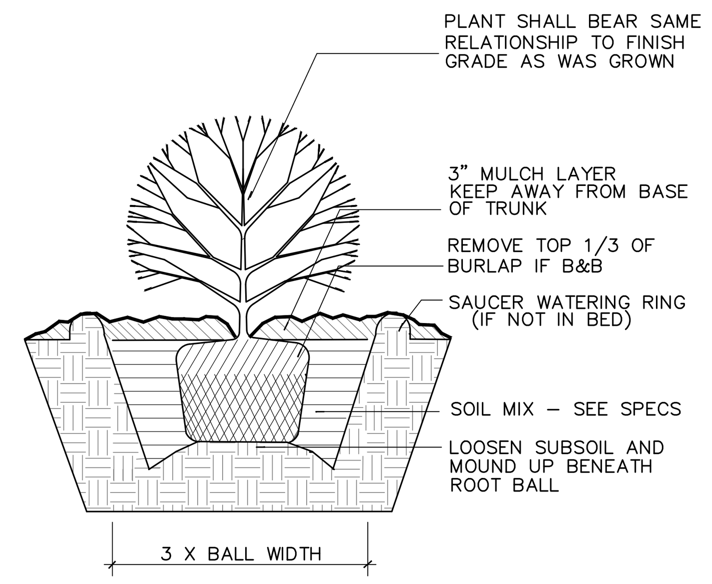
**UTILITY PLAN**

**SUP-5.0**




**2/SUP-7.0**
**TREE PLANTING DETAIL**




**3/SUP-7.0**
**SHRUB PLANTING DETAIL**

1. PRIOR TO PLANT INSTALLATION IN LANDSCAPE BUFFER, CONTRACTOR SHALL ENSURE REMOVAL OF ALL INVASIVE PLANT MATERIAL AS LISTED IN THE SOUTHEAST EXOTIC PEST PLANT COUNCIL LIST OF INVASIVE PLANT MATERIAL.
2. A MINIMUM OF 10' MUST SEPARATE LIGHT POLES FROM CANOPY TREES.

**5/SUP-7.0**
**PLANTING NOTES**

| | |
|---|---|
| *POST DEVELOPMENT LAND AREA (RECOMBINATION & R/W CLOSURE)* | *165,828.8 SF* |
| *LESS ACCESS EASEMENT* | *5,127 SF NET* |
| *LESS UTILITY EASEMENT* | *6,498 SF NET* |
| *LESS STORM EASEMENT* | *7,393 SF NET* |
| *NET SITE SIZE* | *146,810 SF* |
| *REQUIRED TREE CANOPY* | *40% X 146,811 = 58,724 SF* |
| *PROPOSED TREE CANOPY* | *66,331 SF* |

*ALL TREESAVE WILL BE PROVIDED BY EXISTING TREE PRESERVATION*

**4/SUP-7.0**
**TREESAVE CALCULATIONS**

PARKING LOT PLANTINGS WILL INCLUDE A SELECTION FROM:

CANOPY TREES:
- ACER RUBRUM 'October Glory' - October Glory Red Maple
- BETULA NIGRA - River Burch
- QUERCUS SHUMARDII - Shumard Oak
- ZELKOVA SERRATA 'Village Green' - Village Green Zelkova
- INSTALLATION SIZE WILL BE MIN. 2 1/2" CALIBER

UNDERSTORY TREES:
- CERCIS RENIFORMIS 'Oklahoma' - Texas White Redbud
- LAGERSTROEMIA INDICA - Crape Myrtles
- MAGNOLIA VIRGINIANA - Sweetbay Magnolia
- INSTALLATION SIZE 6' HT

SHRUBS/GROUNDCOVER:
- CALLICARPA AMERICANA - American Beautyberry
- ILEX - Small hollies
- JUNIPERUS SARGENTII - Low growing Juniper
- MUHLENBERGIA CAPILLARIS - Pink Muhly Grass
- PANICUM VIRGATUM 'Shenandoah' - Shenandoah Switchgrass

INSTALLATION SIZE WILL VARY 18"-30" ht for large shrubs, 12"-15" ht for small/spreading shrubs

LANDSCAPE / STREET BUFFER PLANTINGS WILL INCLUDE A SELECTION FROM:
Majority of buffer plantings shall be native species

CANOPY TREES - 2.5" caliper installation size
- ACER COLUMNARE - Columnar Maple
- ACER RUBRUM 'AUTUMN BLAZE' - Autumn Blaze Red Maple
- ACER SACCHARUM 'Legacy' - Legacy Sugar Maple
- BETULA NIGRA - River Birch
- LIQUIDAMBER STYRACIFLUA 'Rotundiloba' - Fruitless Sweet Gum
- NYSSA SYLVATICA - Blackgum
- QUERCUS NUTALLI - Nuttal Oak

UNDERSTORY TREES - 6' minimum height installation size
- AMELANCHEIR SPP AUTUMN BRILLIANCE - Autumn Brilliance Serviceberry
- CARPINUS CAROLINIANA - Hornbeam
- CORNUS FLORIDA 'White Cloud' - White Flowering Dogwood
- CORNUS KOUSA - Kousa Dogwood
- HALESIA CAROLINIANA - Carolina Silverbell
- HAMAMELIS VIRGINIANA - Witch Hazel
- ILEX OPACE - American Holly
- LAGERSTROEMIA FAUREI - Crape Myrtle
- MAGNOLIA VIRGINIANA - Sweetbay Magnolia
- MYRICA CERIFERA - Southern Wax Myrtle

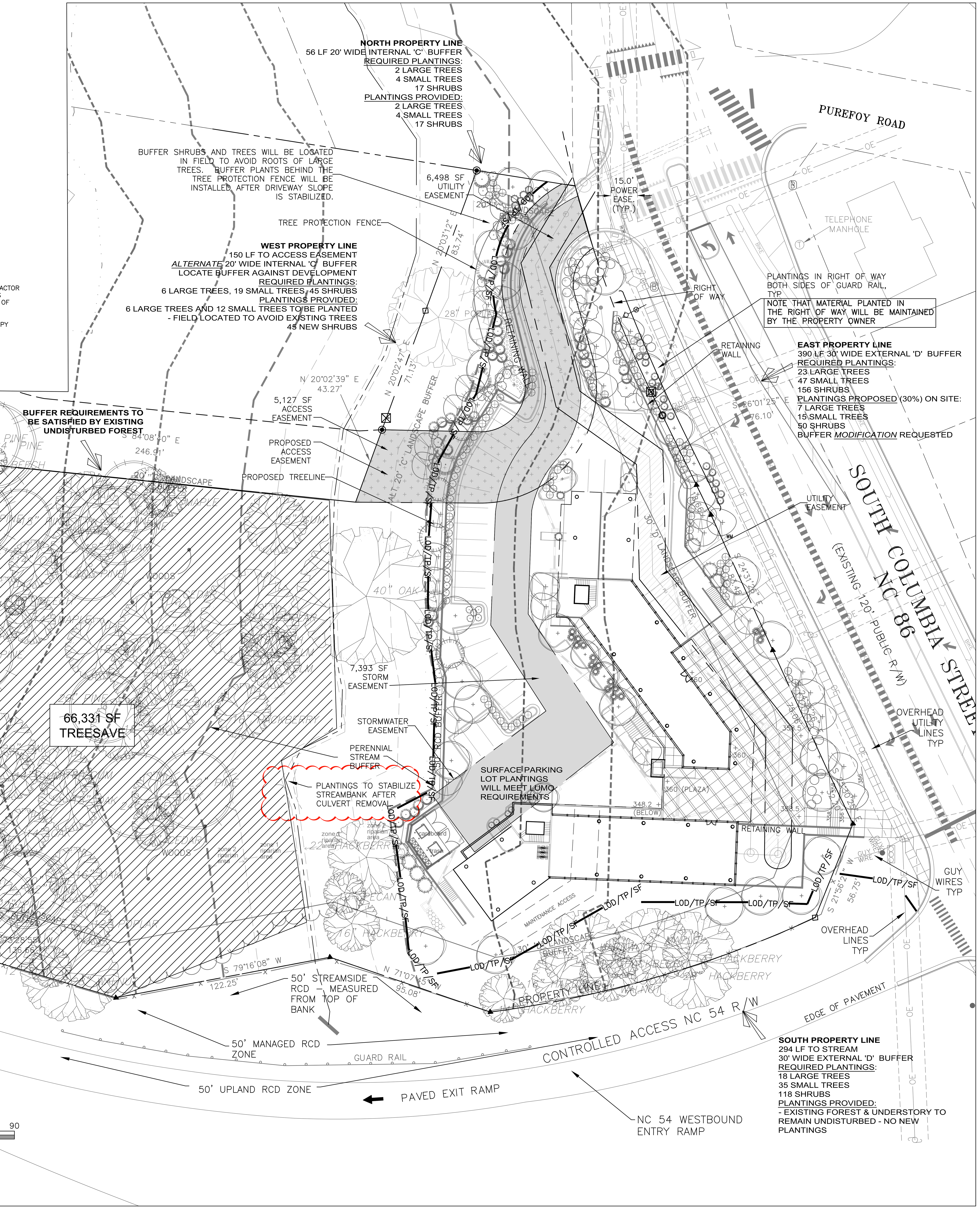
SHRUBS/GROUNDCOVER:
- ABELIA X GRANDIFLORA - Glossy Abelia
- AZALEA - Azalea, variety - street and plaza area
- CAMELLIA JAPONICA - Japanese Camellia
- CALLICARPA AMERICANA - American Beautyberry
- CHASMANTHIUM LATIFOLIUM - River Oats
- GARDENIA JASMINOIDES 'Kleim's Hardy' - Kleim's Hardy Gardenia
- ILEX CRENATA 'CARISSA' - Carissa Holly
- ILEX GLABRA - Inkberry
- ILEX VERTICILLATA - Deciduous Holly
- ILLICIUM PARVIFLORUM - Anise
- MUHLENBERGIA CAPILLARIS - Pink Muhly Grass
- MYRICA CERIFERA - Southern Waxmyrtle
- PRUNUS LAUROCERASUS - Cherry Laurel

PLANTINGS FOR RIPARIAN BUFFER RESTORATION WILL INCLUDE A SELECTION FROM:
approx 35 LF of stream

UNDERSTORY PLANTINGS (sapling size):
- CARPINUS CAROLINIANA - Ironwood
- HAMAMELIS VIRGINIANA - Witch Hazel
- ITEA VIRGINICA - Virginia Willow
- MYRICA CERIFERA - Southern Wax Myrtle

GROUNDCOVER (quart size):
- CAREX PLANTAGINEA - Plantainleaf Sedge
- CHASMATHIUM LATIFOLIUM - River Oats
- DRYOPTERIS MARGINALIS - Eastern Woodfern

**6/SUP-7.0**
**PLANT SELECTION**




**1/SUP-7.0**
**LANDSCAPE PLAN**
**SCALE: 1"=30'**

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COLUMBIA STREET ANNEX

1150 South Columbia Street
Chapel Hill, North Carolina

OWNER:
CH HOTEL ASSOCIATES LLC.
3008 ANDERSON DRIVE, SUITE 120
RALEIGH NC 27609

N. CAROLINA 1302 WENDI L. RAMSDEN
9-11-2020

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Drawn By: WLR, MTC
Date: 26 April 18

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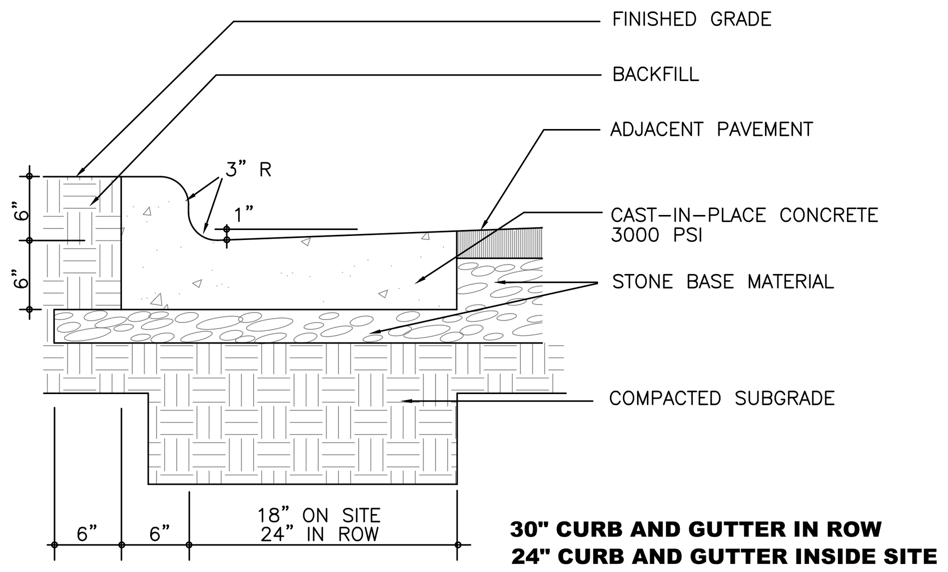
**LANDSCAPE AND TREESAVE PLAN**

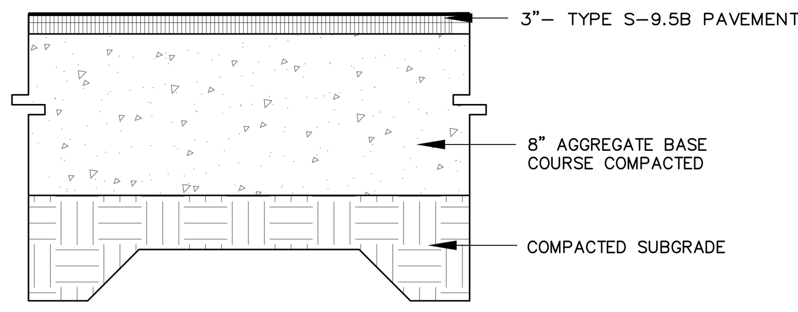
**SUP-7.0**

-CONTRACTION JOINTS SHALL BE SPACED AT 10 FOOT INTERVALS. EXCEPT THAT A 15 FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10 FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
-CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE MAINTAINED.
-ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
-JOINTS SHALL MATCH LOCATIONS WITH JOINT IN ABUTTING SIDEWALK.
-EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.




30" CURB AND GUTTER IN ROW
24" CURB AND GUTTER INSIDE SITE

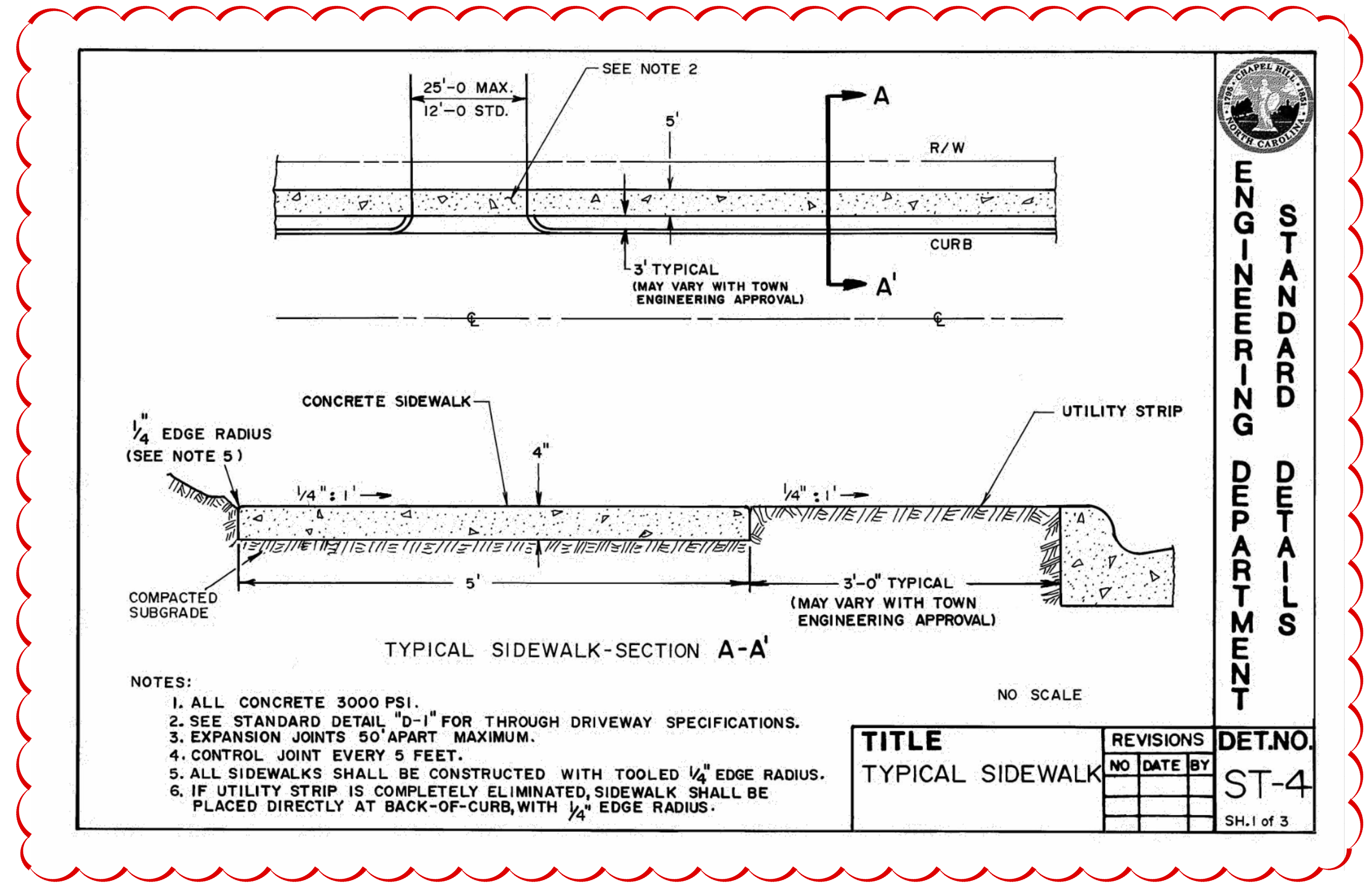
**1/SUP-8.0**
**24" CONCRETE CURB & GUTTER**
NTS



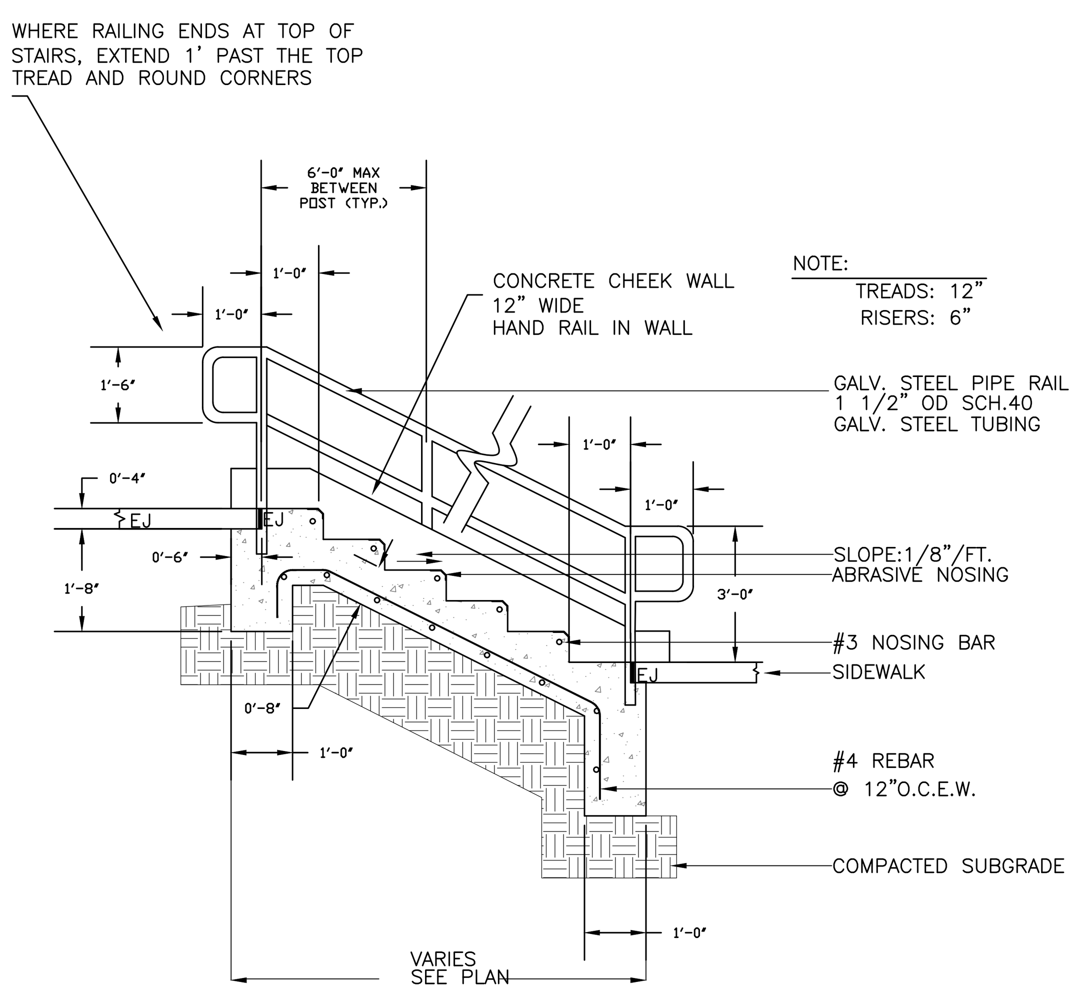

STANDARD PARKING AREAS:

FINAL PAVEMENT SECTION WILL BE PROVIDED BY GEO-TECHNICAL ENGINEER BASED SITE SPECIFIC GEO-TECHNICAL REPORT

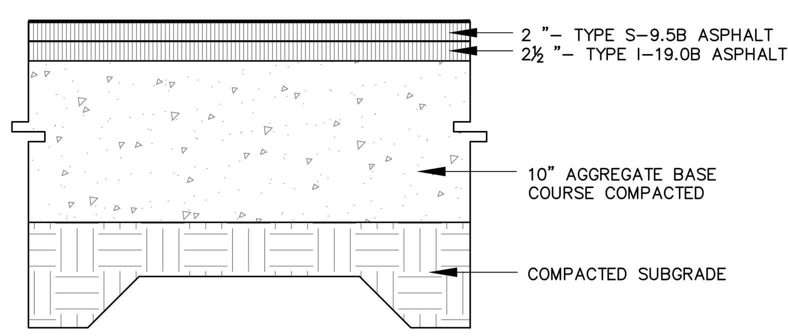
**2/SUP-8.0**
**STANDARD ASPHALT PAVING - PARKING BAYS**
NTS



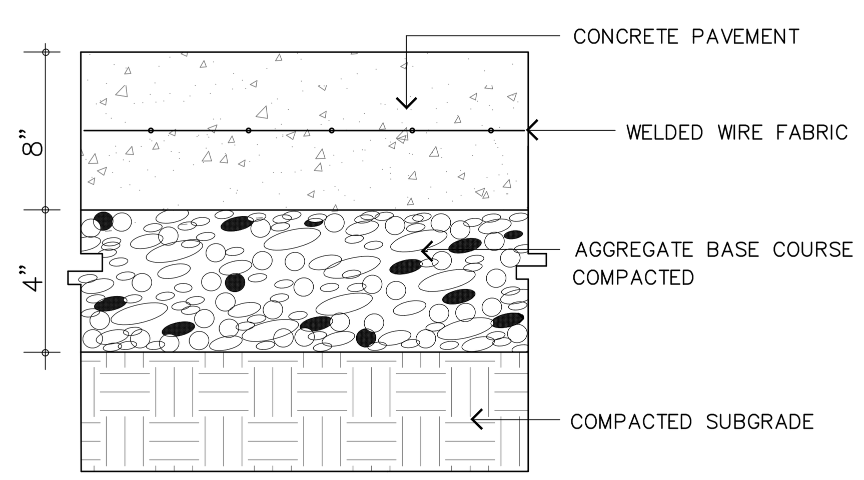

**4/SUP-8.0**
**CONCRETE SIDEWALK**
NTS




**5/SUP-8.0**
**TYPICAL EXTERIOR STAIR AND RAILING**
NTS




**3/SUP-8.0**
**HEAVY DUTY ASPHALT PAVING - DRIVE AISLES**
NTS

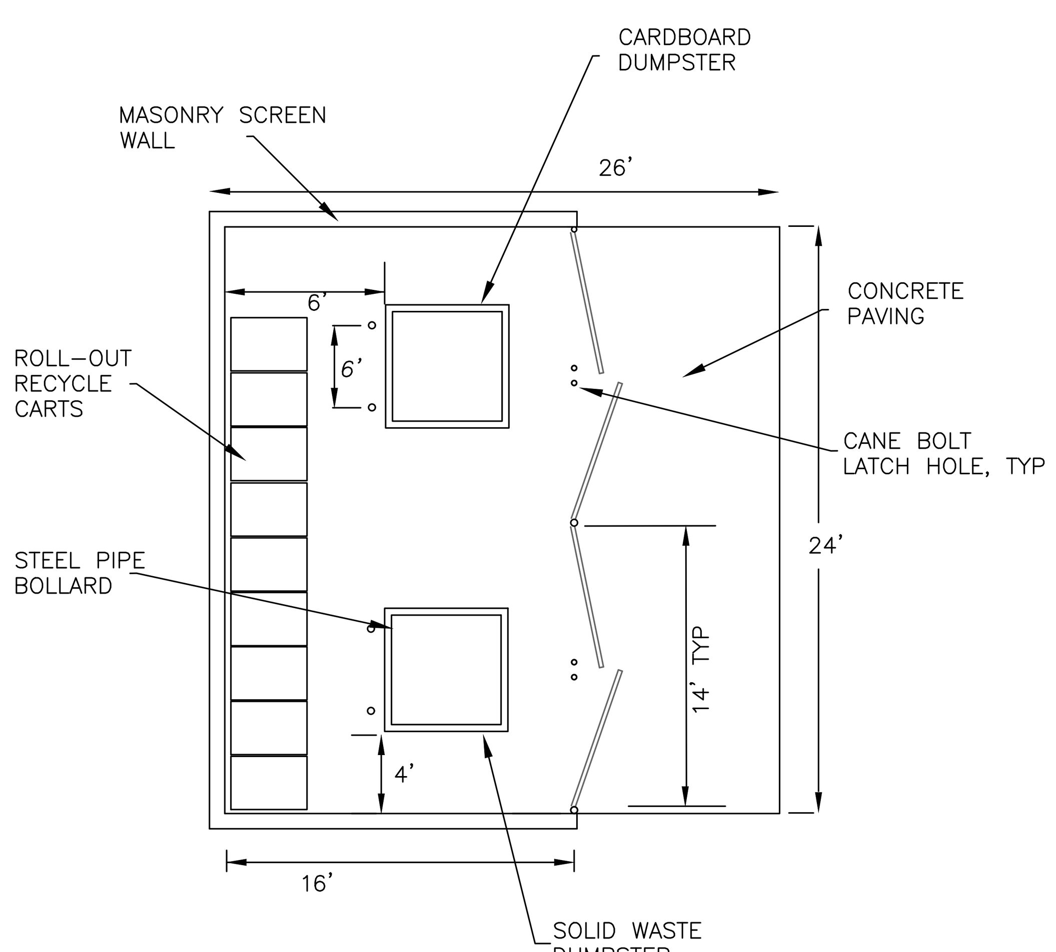



NOTES:

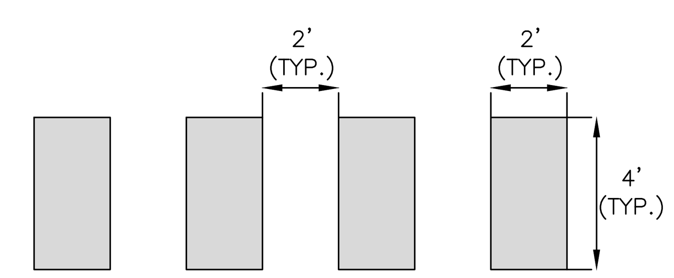
1. ALL CONCRETE TO 4000 PSI, PROPERLY AIR ENTRAINED FOR EXTERIOR GRADE CONCRETE MIXES.

2. CABC BASE AND SOIL SUBGRADE TO BE COMPACTED TO 98% OF THE ASTM D-698 STD. PROCTOR MDD AND PROOFROLLED AND APPROVED BY GEOTECHNICAL PERSONNEL.

**6/SUP-8.0**
**DUMPSTER PAD CONCRETE PAVING**
NTS

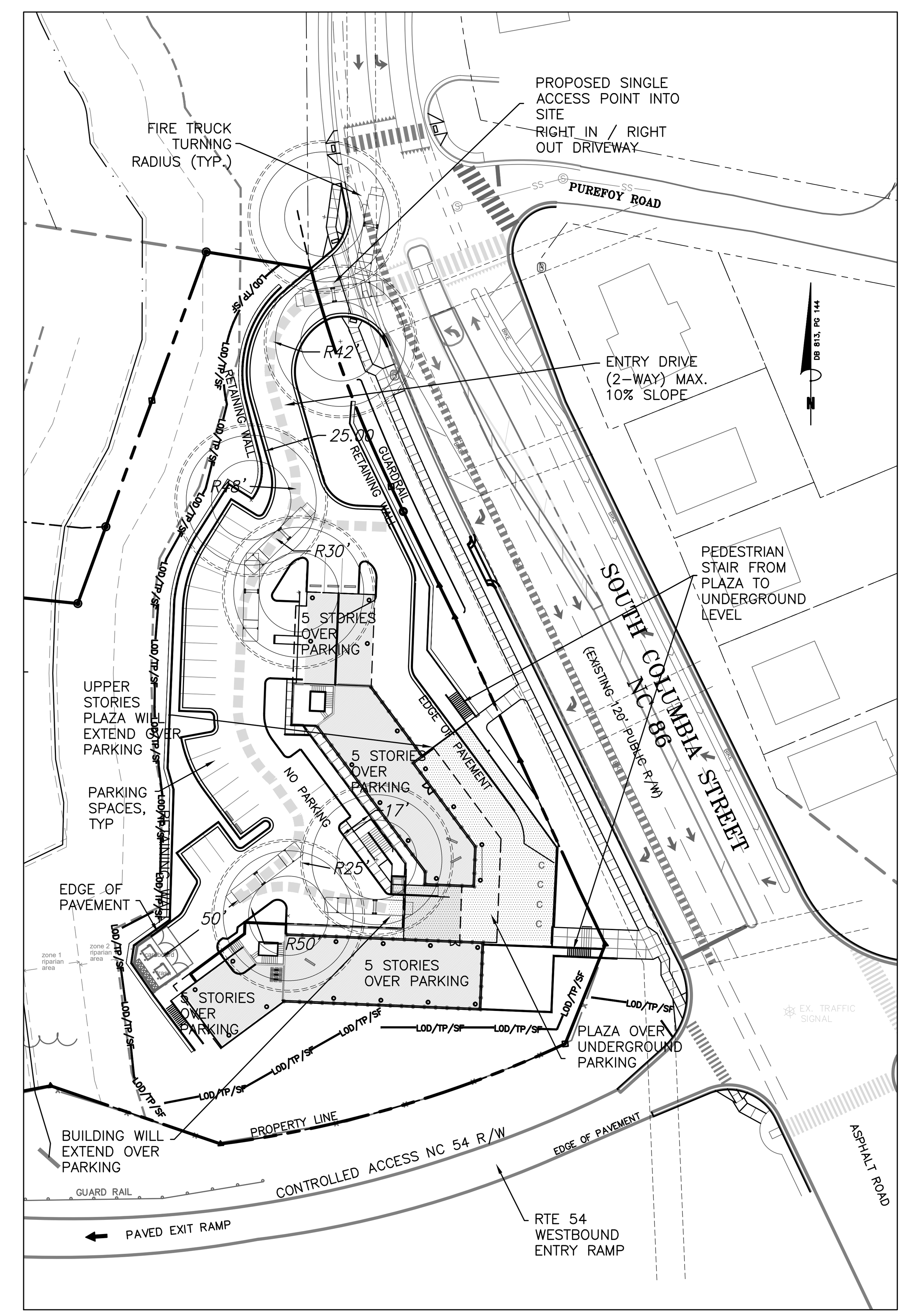



**7/SUP-8.0**
**DUMPSTER ENCLOSURE**
NTS




NOTES:
MARKINGS TO BE MADE FROM THERMOPLASTIC AND HIGH VISIBILITY GREEN IN COLOR.

**8/SUP-8.0**
**BIKE LANE STRIPING**
NTS




**10/SUP-8.0**
**FIRE LANE ACCESS / SOLID WASTE PICKUP ACCESS**
SCALE: 1"=60'

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COLUMBIA STREET ANNEX

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OWNER:
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RALEIGH NC 27609

NORTH CAROLINA
1302
WENDI L. RAMSDEN
8-11-2020

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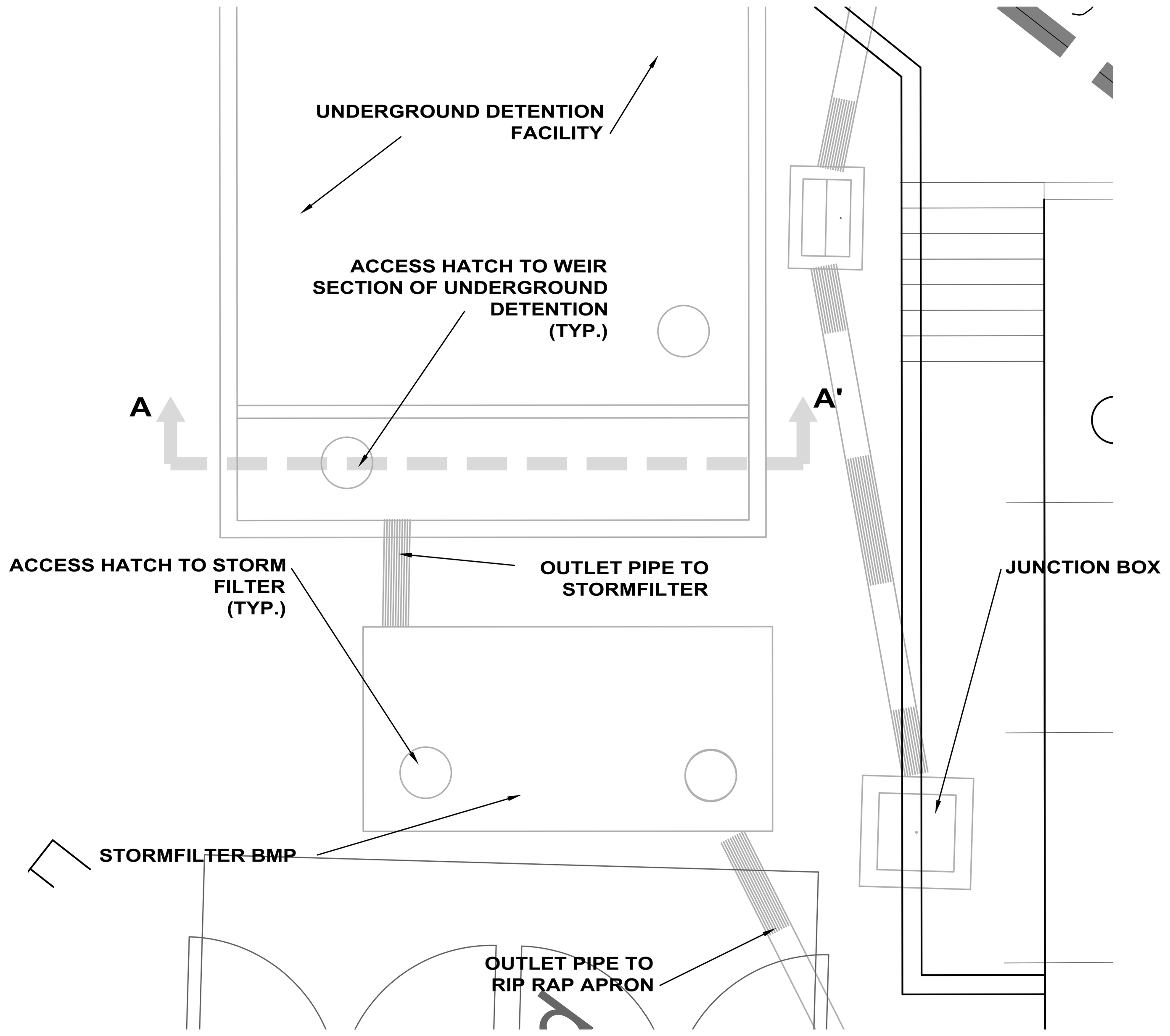
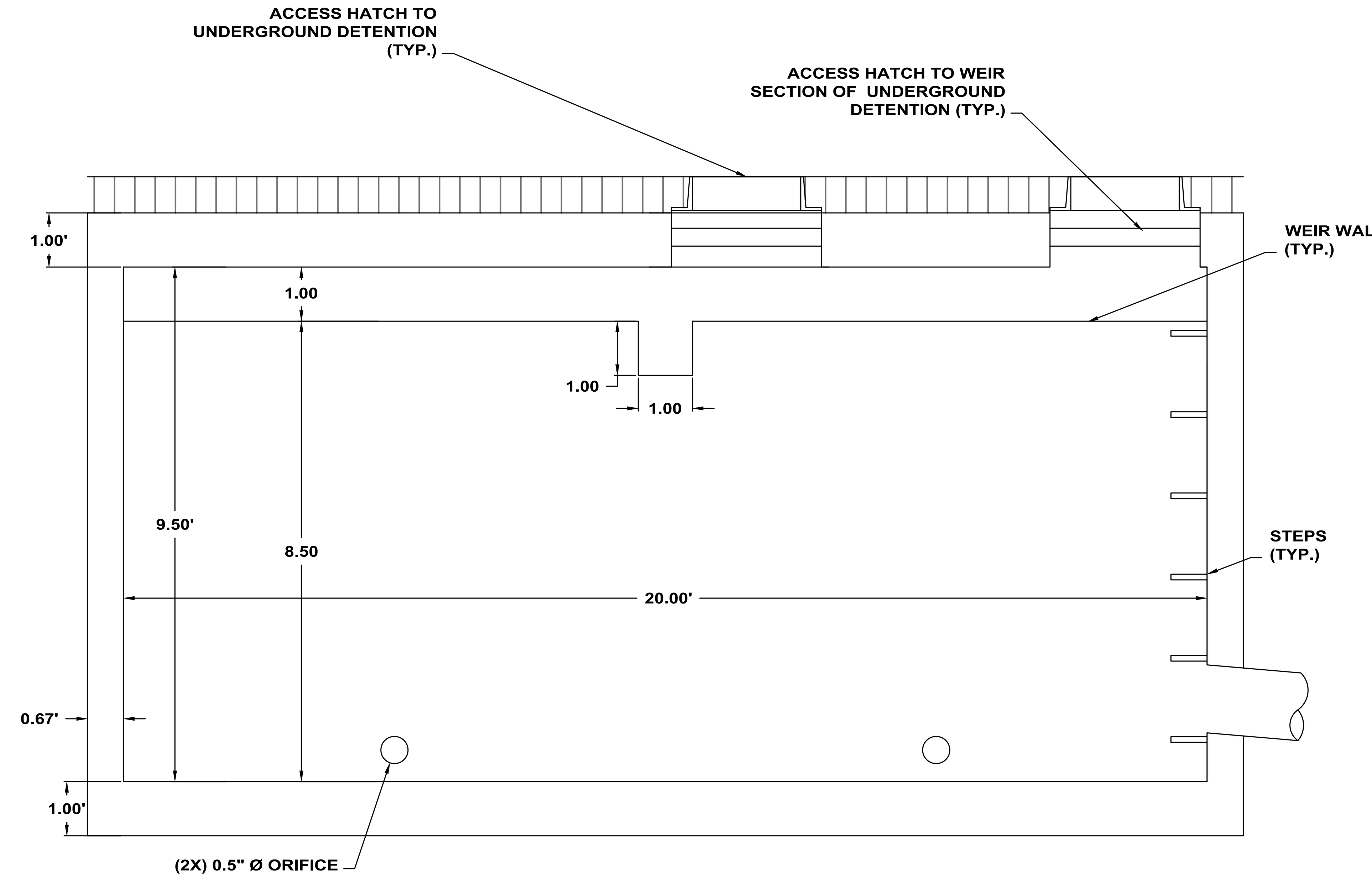
**SITE DETAILS**

**SUP-8.0**

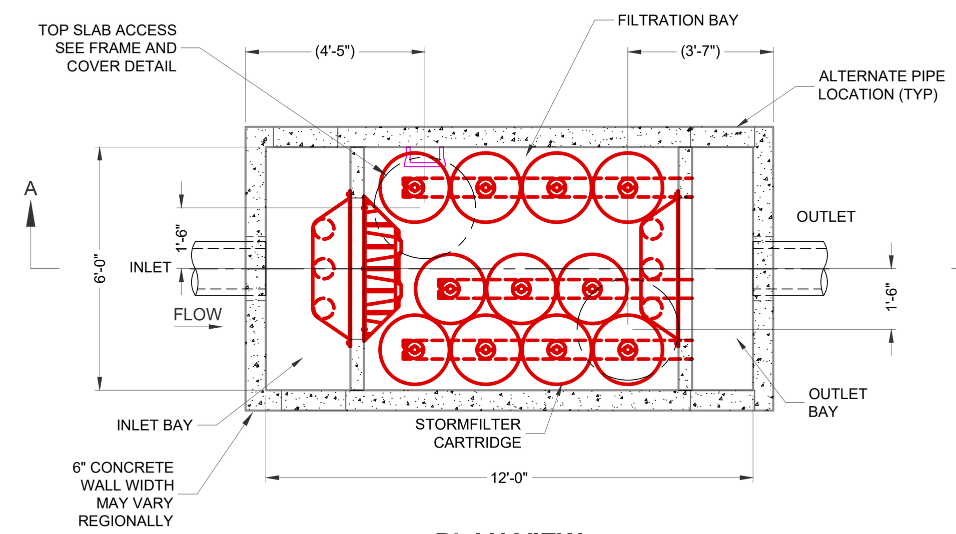



PLAN VIEW

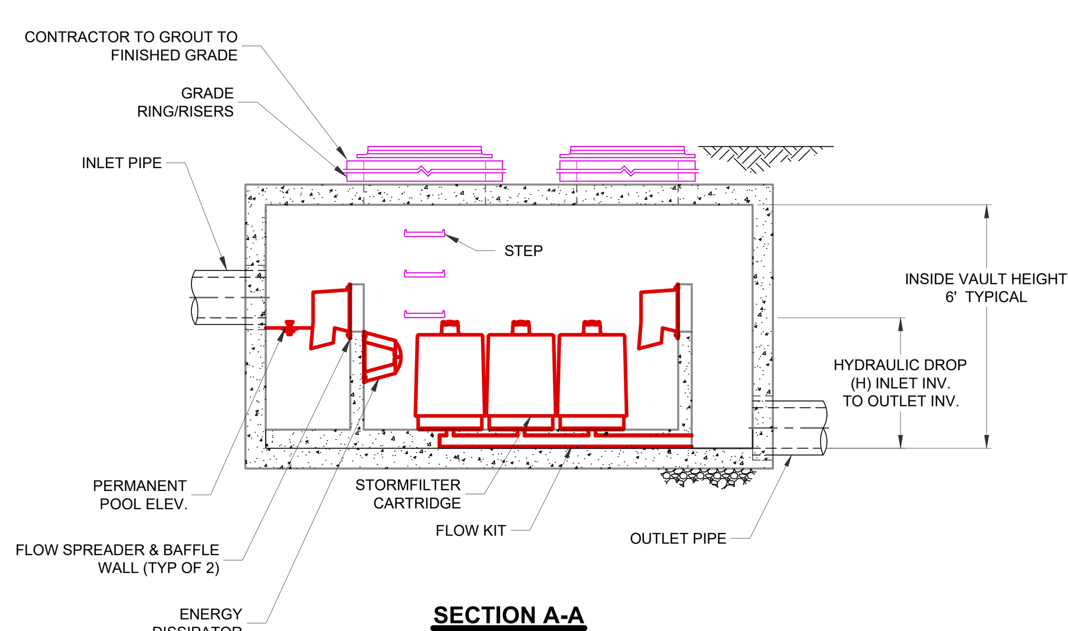



SECTION A-A' VIEW

**1/SUP-8.1**
## UNDERGROUND DETENTION FACILITY
SECTION




PLAN VIEW
VAULT STYLE: INLET BAY - OUTLET BAY



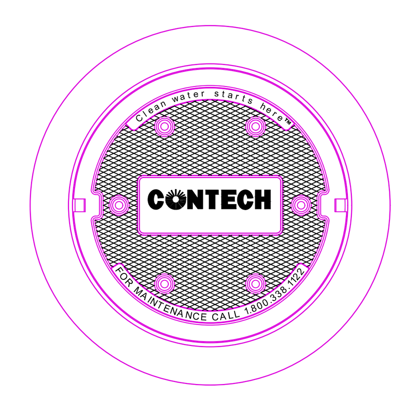

SECTION A-A

### STORMFILTER DESIGN NOTES

STORMFILTER TREATMENTCAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD VAULT STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (11), VAULT STYLE OPTIONS INCLUDE, OUTLET BAY (11), FULL HEIGHT BAFFLE WALL (12).
STORMFILTER 6X12 PEAK HYDRAULIC CAPACITY IS 1.6 CFS. IF THE SITE CONDITIONS EXCEED 1.6 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

| CARTRIDGE HEIGHT | 27" | | 18" | | LOW DROP | |
|---|---|---|---|---|---|---|
| RECOMMENDED HYDRAULIC DROP (H) | 3.05' | | 2.3' | | 1.8' | |
| SPECIFIC FLOW RATE (gpm/sf) | 2 gpm/ft² | 1 gpm/ft² | 2 gpm/ft² | 1 gpm/ft² | 2 gpm/ft² | 1 gpm/ft² |
| CARTRIDGE FLOW RATE (gpm) | 22.5 | 11.25 | 15 | 7.5 | 10 | 5 |




FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

### SITE SPECIFIC DATA REQUIREMENTS

| | | | |
|---|---|---|---|
| STRUCTURE ID | | | * |
| WATER QUALITY FLOW RATE (cfs) | | | * |
| PEAK FLOW RATE (cfs) | | | * |
| RETURN PERIOD OF PEAK FLOW (yrs) | | | * |
| # OF CARTRIDGES REQUIRED | | | * |
| CARTRIDGE FLOW RATE | | | * |
| MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS) | | | * |
| PIPE DATA: | I.E. | MATERIAL | DIAMETER |
| INLET PIPE #1 | * | * | * |
| INLET PIPE #2 | * | * | * |
| OUTLET PIPE | * | * | * |
| UPSTREAM RIM ELEVATION | | | * |
| DOWNSTREAM RIM ELEVATION | | | * |
| ANTI-FLOTATION BALLAST | | WIDTH | HEIGHT |
| | | * | * |

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 39 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT SECTIONS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

######
STORMFILTER
STANDARD DETAIL

**2/SUP-8.1**
## STORMFILTER BMP
NTS

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# COLUMBIA STREET ANNEX

1150 South Columbia Street
Chapel Hill, North Carolina

OWNER:
CH HOTEL ASSOCIATES LLC.
3008 ANDERSON DRIVE, SUITE 120
RALEIGH NC 27609

NORTH CAROLINA PROFESSIONAL SEAL 23461 ENGINEER CHARLES N. HILL, JR.
5/11/2020

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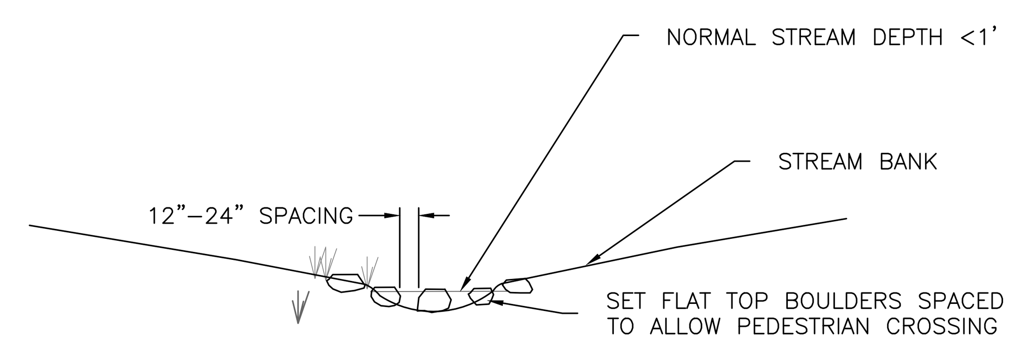
## STORMWATER DETAILS


1/SUP-8.2
**ON SITE STREAM AREA**
SCALE: 1"=30'

STREAM AREA PROPOSED WORK:
1. REMOVE TRASH FROM THE STREAM AND STREAMSIDE RCD AREA
2. REMOVE INVASIVE PLANT MATERIAL FROM THE STREAMSIDE RCD AREA
3. REMOVE CULVERT AND REGRADE TO ALLOW STREAM FLOW THROUGH EXISTING BERM
4. PLANT SEDGE PLUGS INTO THE DISTURBED AREA NEAR THE CULVERT REMOVAL TO STABILIZE THE DISTURBED AREA.
5. CREATE A MULCH SURFACE NATURE TRAIL INCLUDING TWO STREAM CROSSINGS OF STRATEGICALLY PLACED BOULDERS

2/SUP-8.2
**SUMMARY OF WORK TO BE DONE IN STREAM AREA**




CROSS SECTION AT STONE CROSSING


PLAN VIEW

3/SUP-8.2
**ON SITE STREAM CROSSING**
SCALE: 1"=10'

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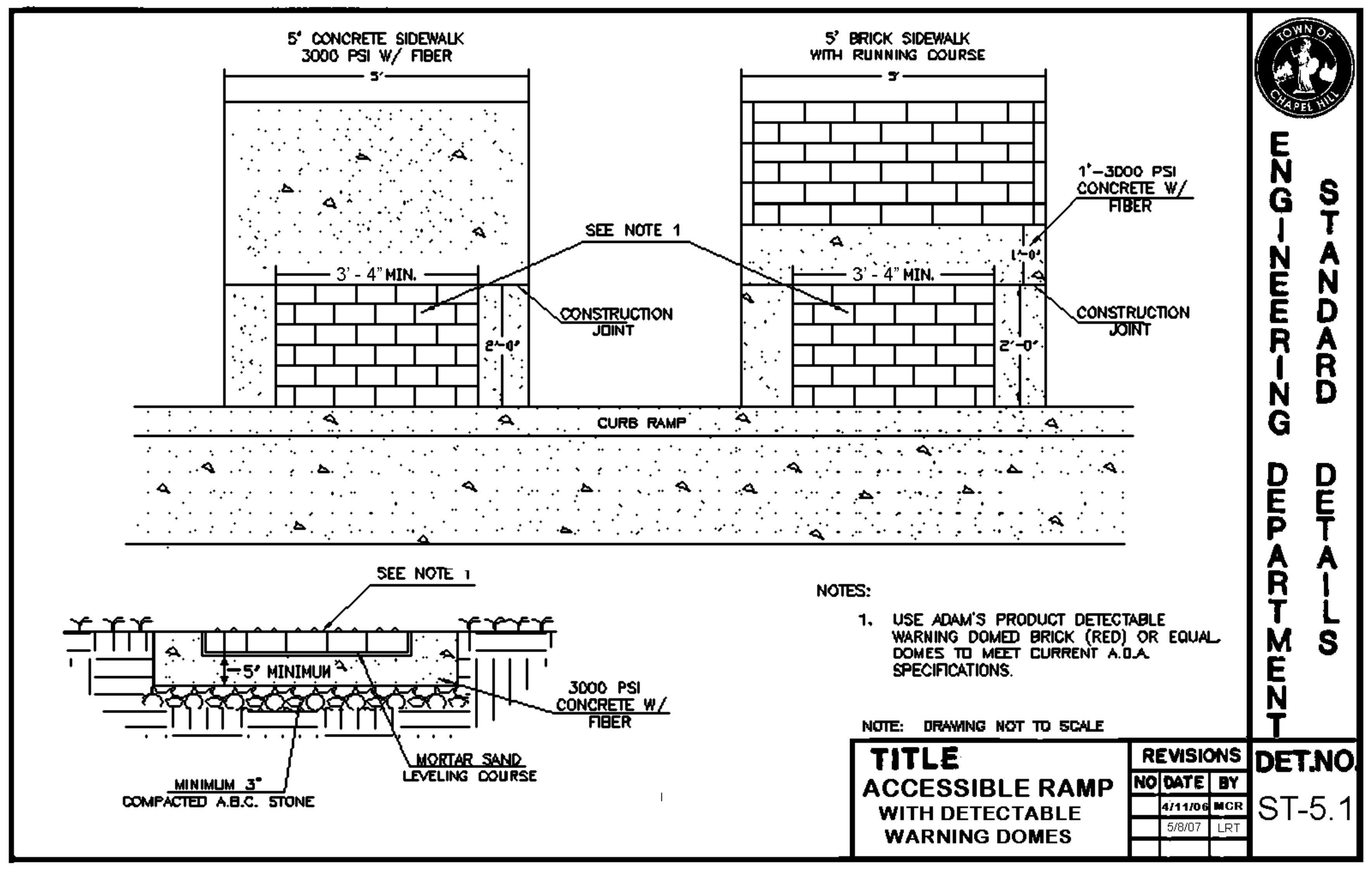
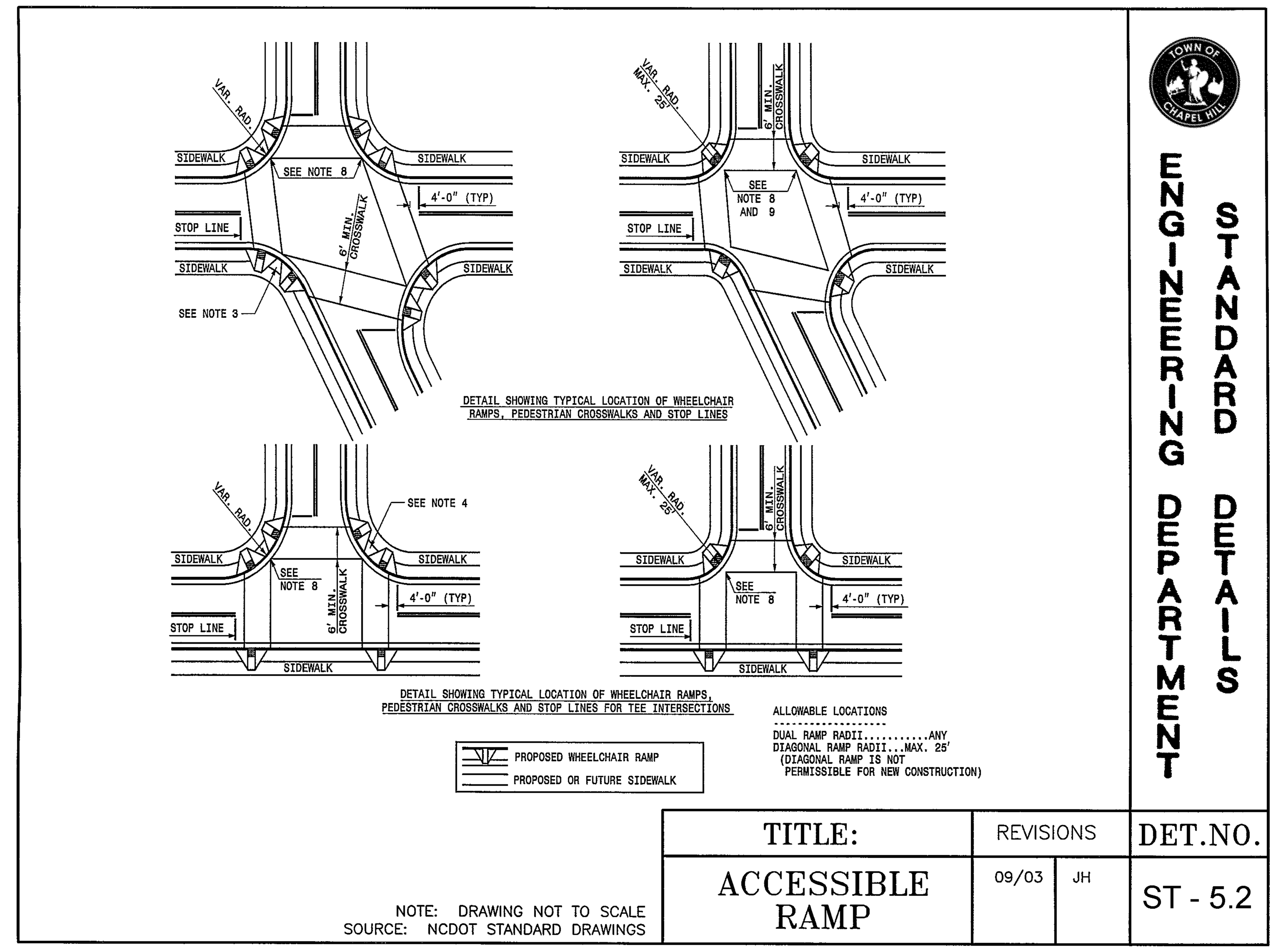
**STREAM RESTORATION DETAILS**

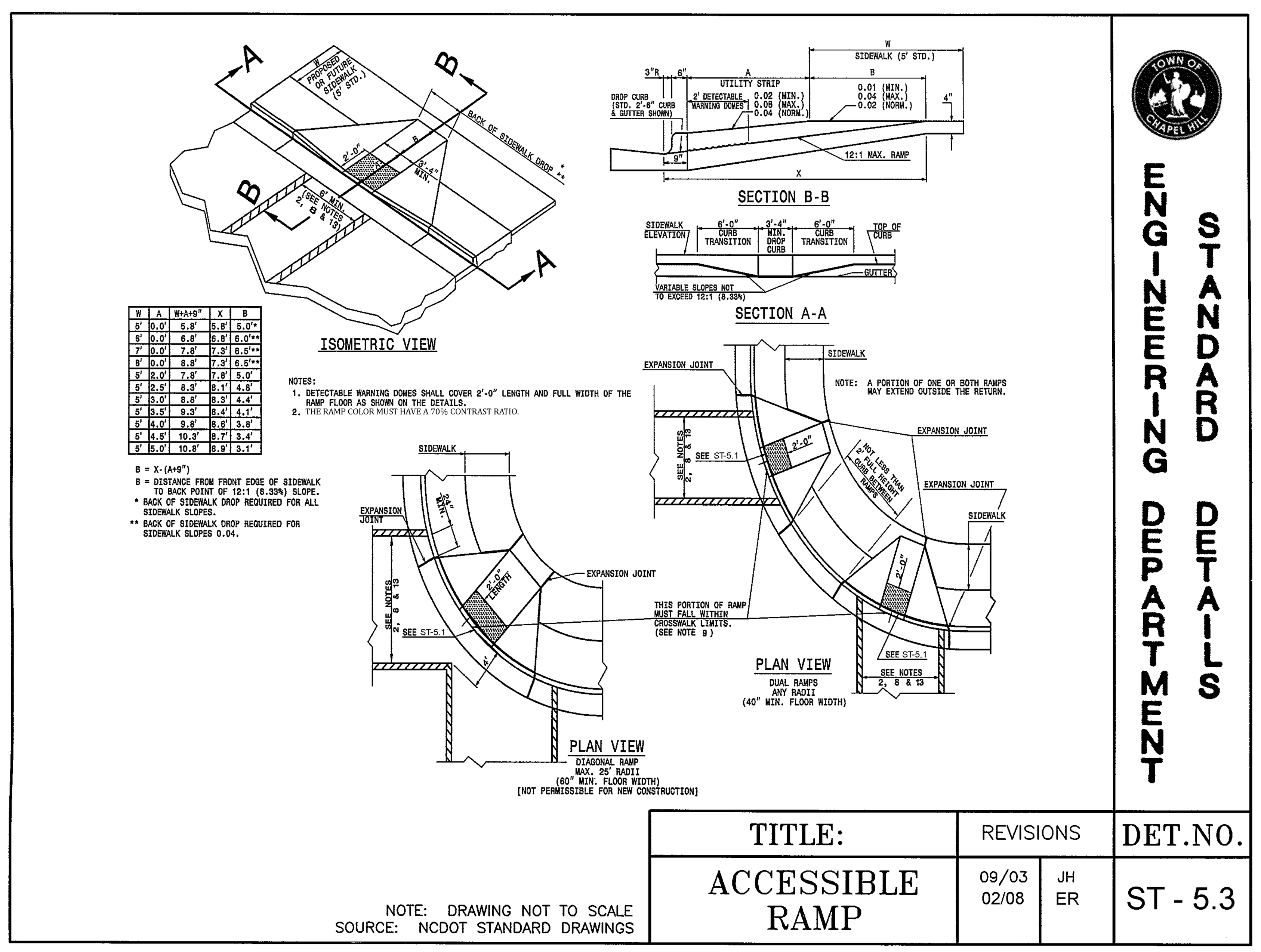
**SUP-8.2**




**1/SUP-8.3**
**ACCESSIBLE RAMP**
NTS




**2/SUP-8.3**
**ACCESSIBLE RAMP**
NTS




**3/SUP-8.3**
**ACCESSIBLE RAMP**
NTS

NOTES:

1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.
2. CROSSWALK WIDTHS AND CONFIGURATION MAY VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
3. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED, PLACE NOT LESS THAN TWO FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE .
4. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.
5. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
6. USE CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
7. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AS SHOWN ON DETAIL ST-5A.
8. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 13)
9. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
10. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 8 FEET OR GREATER IS DESIRABLE.
11. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTION ROADWAY.
12. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
13. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

SOURCE: NCDOT STANDARD DRAWINGS

ENGINEERING DEPARTMENT STANDARD DETAILS

| TITLE: | REVISIONS | | DET.NO. |
|---|---|---|---|
| ACCESSIBLE RAMP | 09/03 | JH | ST - 5.4 |

**4/SUP-8.3**
**ACCESSIBLE RAMP NOTES**
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NORTH CAROLINA LANDSCAPE ARCHITECT 1302 WENDI L. RAMSDEN
8-11-2020

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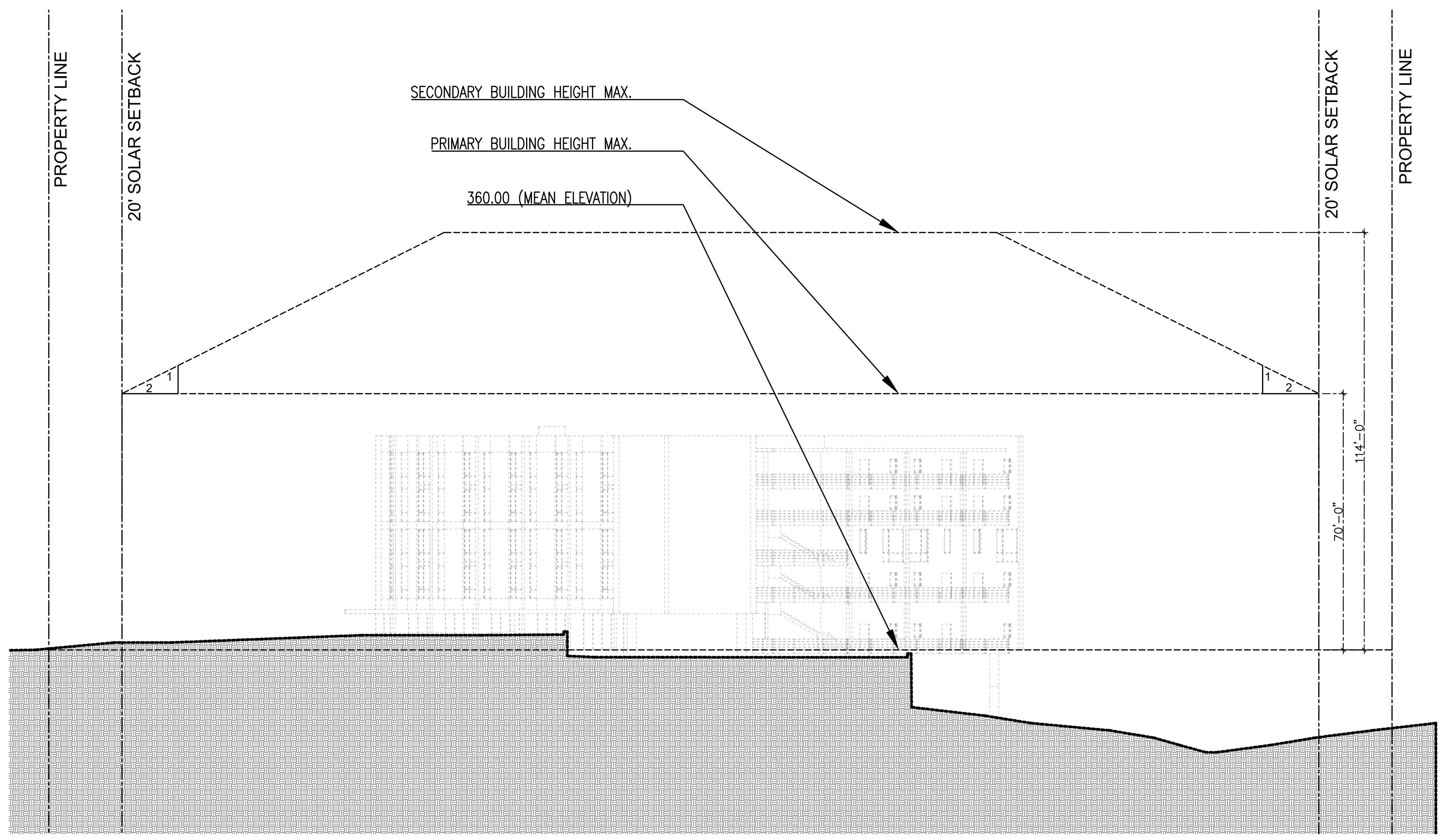
Drawn By: WLR, MTC    Date: 26 April 18

NOT FOR CONSTRUCTION
DRAWINGS FOR SPECIAL USE PERMIT SUBMITTAL

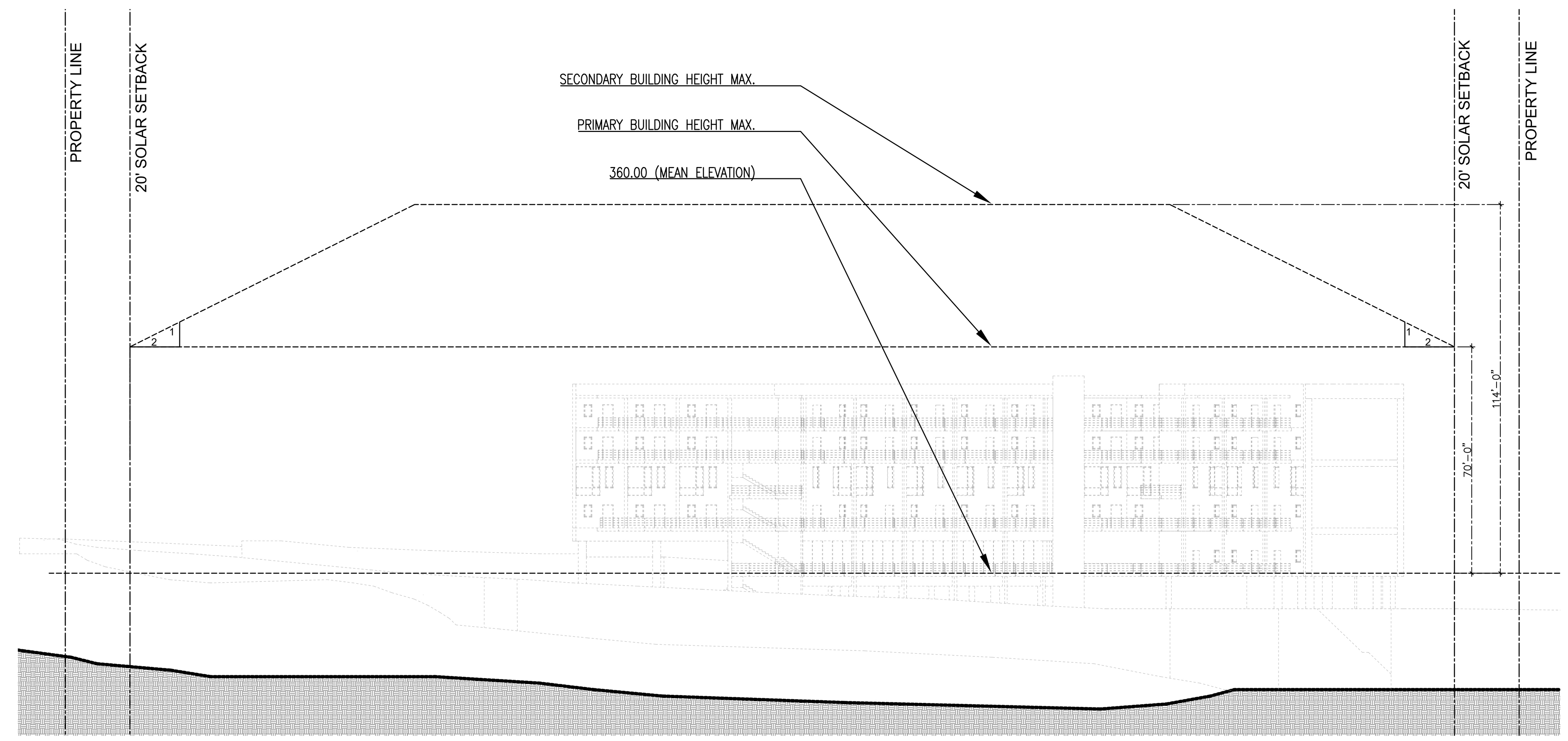
**SITE DETAILS**

**SUP-8.3**



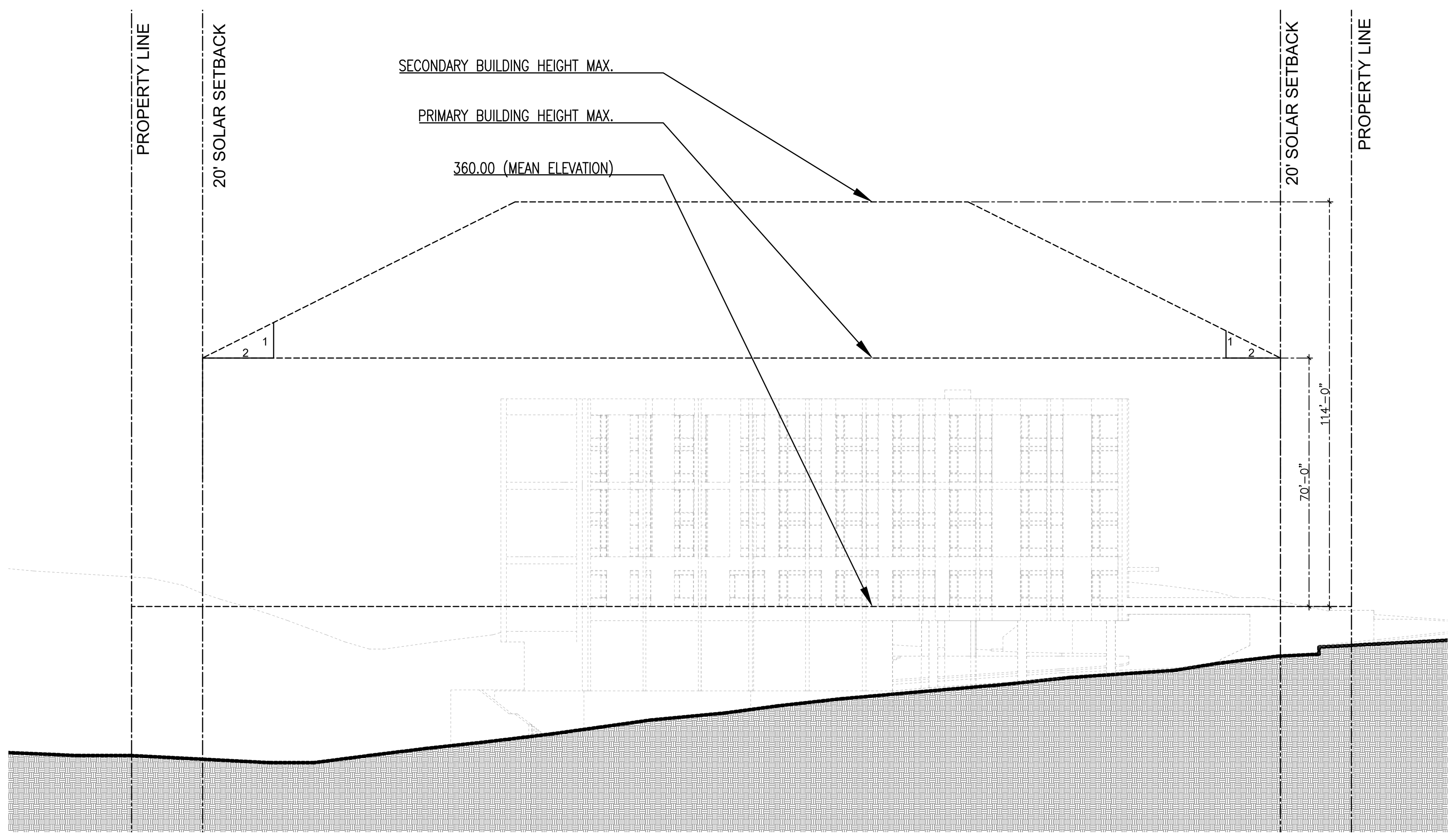

NORTH ELEVATION
Scale: 1/32" =1'-0"

3



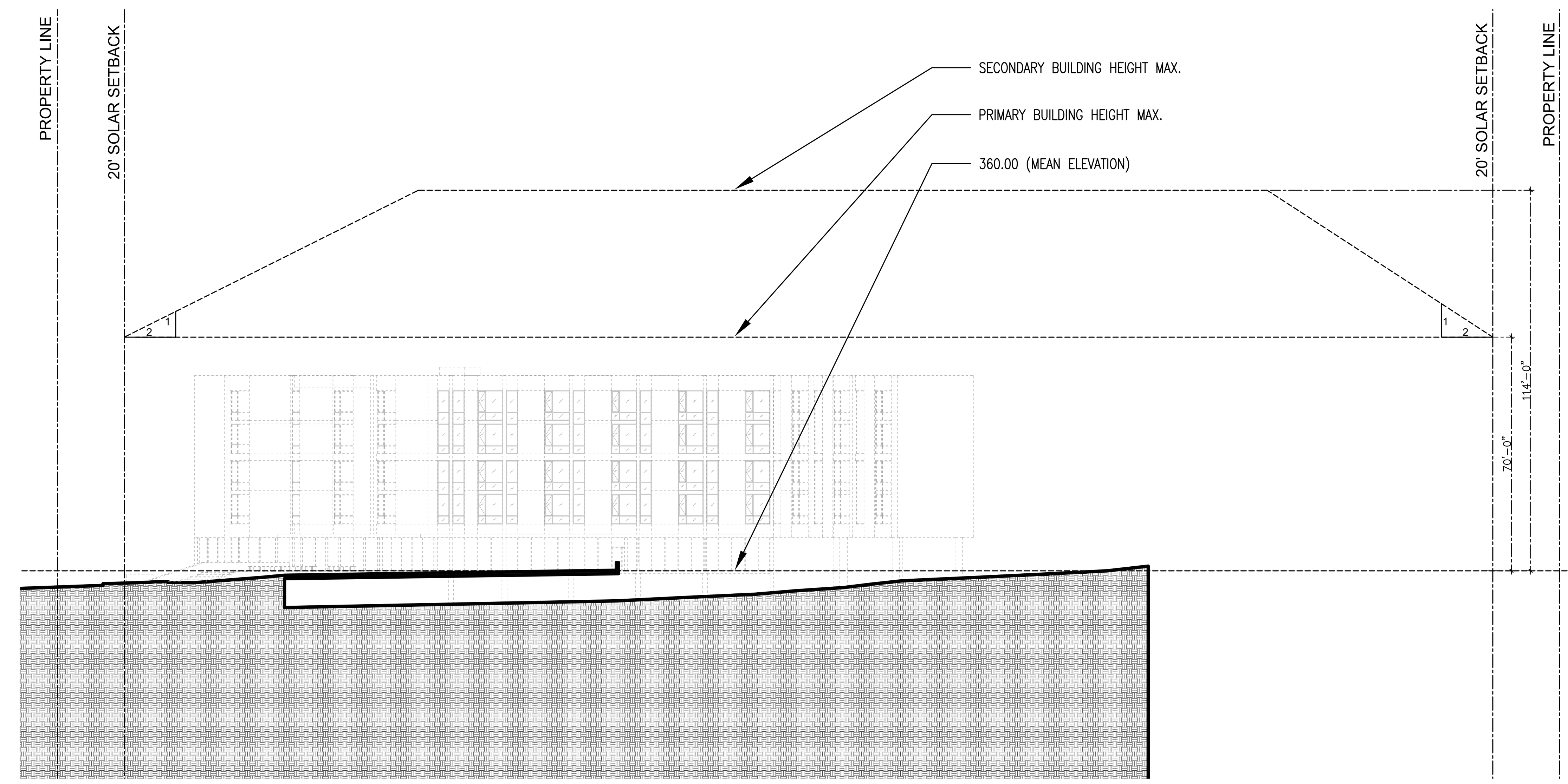

WEST ELEVATION
Scale: 1/32" =1'-0"

2




SOUTH ELEVATION
Scale: 1/32" =1'-0"

4




EAST ELEVATION
Scale: 1/32" =1'-0"

1

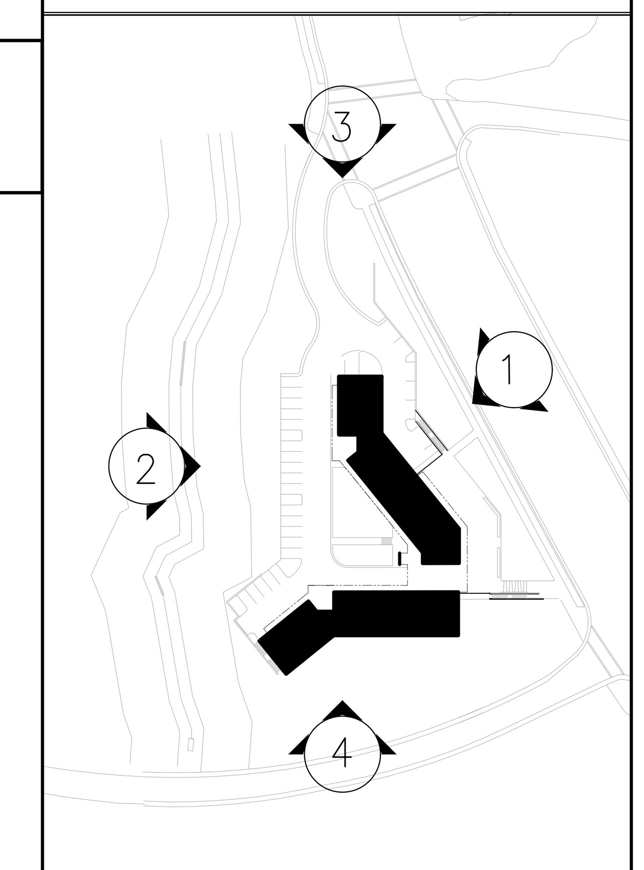
# SZOSTAK DESIGN

## Columbia Annex

SOUTH COLUMBIA STREET

Chapel Hill, NC

NOTE: IF THIS DRAWING IS NOT 24"x36", IT IS A REDUCED PRINT. REFER TO GRAPHIC SCALE.




| NO. | DATE | DESCRIPTION |
|---|---|---|
| 1 | JULY 24, 2017 | CONCEPT PLAN APPLICATION |
| 2 | MAY 05, 2019 | SUP SUBMITTAL |
| 3 | FEB 14, 2020 | SUP SUBMITTAL – REVISIONS |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

# A–5.3

EXHIBIT: BUILDING HEIGHT ZONING ENVELOPE DIAGRAM

SUP SUBMITTAL