



VICINITY MAP
NTS

CAROLINA LEGACY VOLLEYBALL

DEVELOPMENT PLAN REVIEW

641 & 671 GRANITE VISTA DR. ROLESVILLE, NORTH CAROLINA

MAY 7, 2020

REVISED: AUGUST 26, 2020

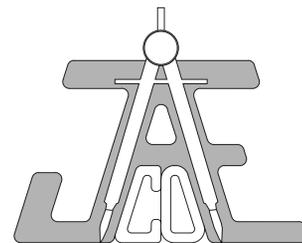
REVISED: OCTOBER 7, 2020

DEVELOPER:

All Purpose Driven, LLC
6027 Clapton Drive
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Phone: (917) 692-9942
Email: bigmenace69@aol.com

CIVIL ENGINEER:

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333 Wade Ave., Raleigh, N.C. 27605
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ARCHITECT:

Summit Design and Engineering
1110 Navaho Drive - Suite 600
Raleigh, NC 27609
Phone: (919) 322-0115
E-mail: ssf@ashevillearchitect.com

SITE SUMMARY

SITE ADDRESS:	640, 641 & 671 GRANITE VISTA DR.
WAKE CO. PIN:	1769-03-0171, 1769-03-3076, 1769-02-2785
EXISTING ZONING:	OP-SUD
PROPOSED BLDG. AREA:	20,820 S.F.
SITE ACREAGE	
LOT 13:	2.07 AC. (90,069 S.F.)
LOT 15, 16:	2.88 AC. (125,542 S.F.)
TOTAL ACREAGE:	4.95 AC. (215,611 S.F.)
PROPOSED IMPERVIOUS AREA	
LOT 13:	0.95 AC. (41,290 SF.)
LOT 15, 16:	1.08 AC. (47,066 S.F.)
TOTAL IMPERVIOUS:	2.03 AC. (88,356 S.F.)

PARKING SUMMARY (UDO 10.1.10)

REQUIRED PARKING:	178 SPACES (1/100 SQ. FT. OF ASSEMBLY AREA)
PROPOSED PARKING:	178 SPACES (124 - LOT 13, 54 - LOT 15, 16)
ADA SPACES REQUIRED:	8 SPACES (INCLUDING 2 VAN SPACES)
ADA SPACES PROVIDED:	8 SPACES (5 - LOT 13, 3 - LOT 15, 15)

NOTE: THE ASSEMBLY AREA CONSISTS OF THE 90' X 198' GYMNASIUM ONLY FOR A TOTAL OF 17,820 SQ. FT.

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VICINITY MAP
NOT TO SCALE

NOTES:

1. ALL DISTANCES ARE HORIZONTAL GROUND.
2. ALL DIMENSIONS ARE IN FEET.
3. AREA COMPUTED USING COORDINATE METHOD FROM MEASURED FIELD DATA.
4. BASIS OF BEARINGS IS NORTH CAROLINA GRID NORTH, NAD83(2011). THE SITE WAS LOCALIZED UTILIZING REAL-TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) SOLUTIONS REFERENCING THE CONTINUOUSLY OPERATING REFERENCE STATION (CORS) NETWORK BASE STATION NCRD, RALEIGH, NC.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO ANY MATTERS THAT A FULL TITLE SEARCH WOULD DISCLOSE.
6. ALL REFERENCE ARE MADE TO THE WAKE COUNTY REGISTRY.
7. HORIZONTAL DATUM IS NAD 83(2011) AND VERTICAL DATUM IS NAVD 88.

SITE DATA

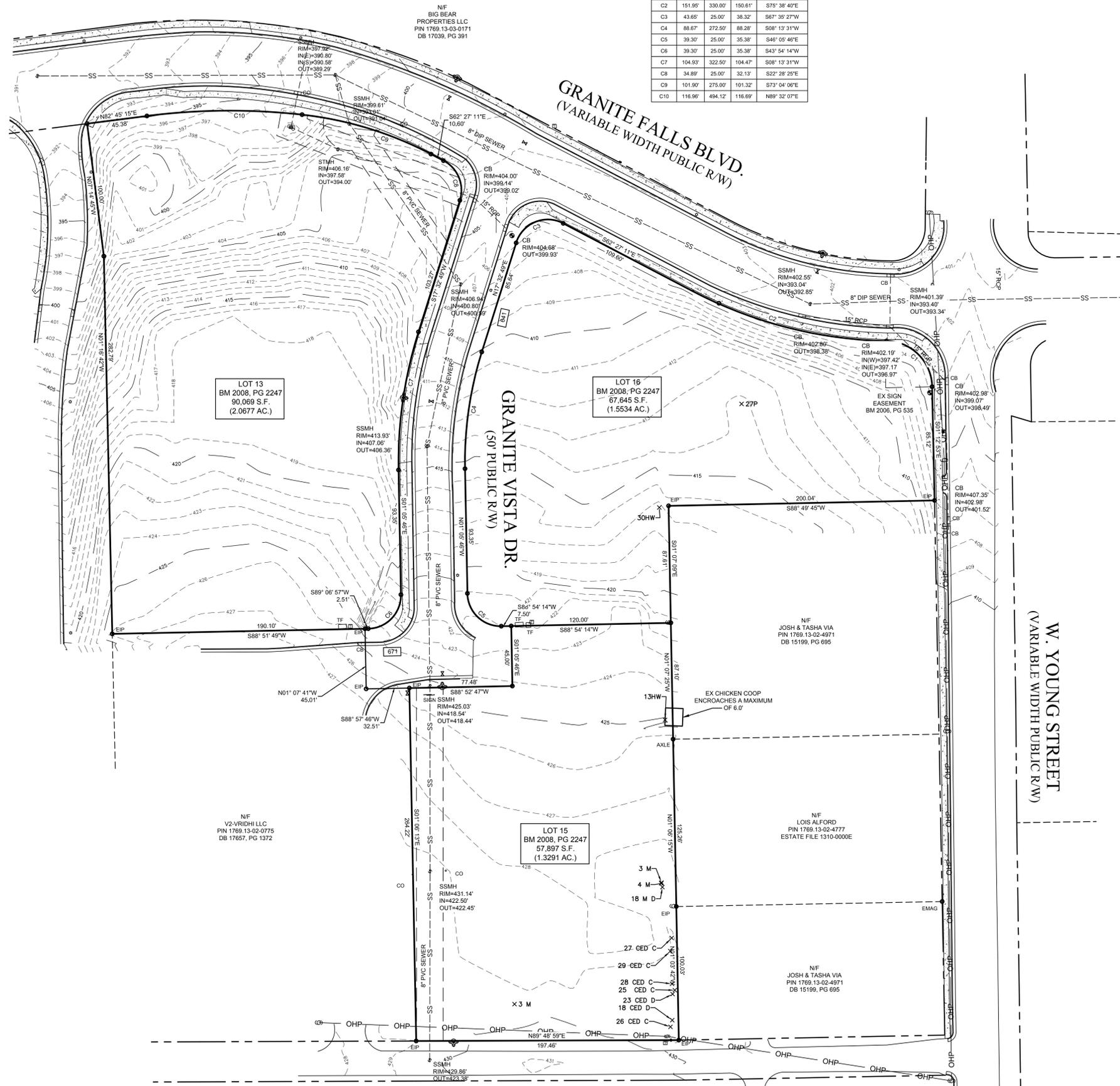
LOT 13
 OWNER: BIG BEAR PROPERTIES LLC
 PIN: 0769.13-03-0171
 REFERENCES: DB 17039, PG 391
 BM 2008, PG 2247
 ZONING: OP-SUD
 AREA: 90,069 S.F. (2.0677 AC.)

LOT 15
 OWNER: BIG BEAR PROPERTIES LLC
 PIN: 0769.13-02-2785
 REFERENCES: DB 17039, PG 391
 BM 2008, PG 2247
 ZONING: OP-SUD
 AREA: 57,897 S.F. (1.3291 AC.)

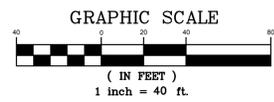
LOT 16
 OWNER: BIG BEAR PROPERTIES LLC
 PIN: 0769.13-03-3076
 REFERENCES: DB 17039, PG 391
 BM 2008, PG 2247
 ZONING: OP-SUD
 AREA: 67,845 S.F. (1.5534 AC.)

CED CEDAR
 P PINE
 HW UNKNOWN HARDWOOD
 M MAPLE
 ALL TREE POINTS INCLUDE A SIZE IN INCHES AND A DESCRIPTION THAT CORRESPONDS WITH THE LEGEND ABOVE. IF D IS INCLUDED IN THE DESCRIPTION IT DENOTES THE TREE HAS TWO TRUNKS. IF C IS INCLUDED IT DENOTES THREE OR MORE TRUNKS

CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	53.53'	35.00'	48.46'	N45° 01' 27"W
C2	151.26'	330.00'	150.61'	S75° 38' 40"E
C3	43.66'	25.00'	38.32'	S67° 39' 27"W
C4	88.67'	272.50'	88.28'	S08° 13' 31"W
C5	39.30'	25.00'	35.38'	S43° 54' 14"W
C6	39.30'	25.00'	35.38'	S43° 54' 14"W
C7	104.93'	322.50'	104.47'	S08° 13' 31"W
C8	34.89'	25.00'	32.13'	S22° 28' 29"E
C9	101.80'	275.00'	101.32'	S73° 04' 09"E
C10	116.96'	494.12'	116.69'	N89° 32' 07"E



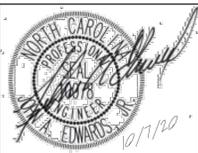
GRANITE VISTA DR.
(50' PUBLIC R/W)



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640, 641 & 671 GRANITE VISTA DRIVE
 ROLESVILLE, NC 27571

CAROLINA LEGACY VOLLEYBALL

LEGEND

- BM BOOK OF MAPS
 - DB DEED BOOK
 - PG PAGE
 - N/F NOW OR FORMERLY
 - R/W RIGHT OF WAY
 - EIP EXISTING IRON PIPE
 - EMAG EXISTING MAG NAIL
 - I/P IRON PIPE SET
 - MAGS MAG NAIL SET
 - CP COMPUTED POINT
 - SS SANITARY SEWER
 - CO SANITARY SEWER CLEAN OUT
 - HB HOT BOX
 - ST STORM
 - EBOX ELECTRIC BOX
 - CB STORM CATCH BASIN
 - WV WATER VALVE
 - DI DROP INLET
 - CONC CONCRETE
 - SSMH SANITARY SEWER
 - WM WATER METER
 - LP LIGHT POLE
 - FM FIBER MARKER
 - TP TELEPHONE PEDESTAL
 - FH FIRE HYDRANT
 - PP POWER POLE
 - EMH ELECTRIC MANHOLE
 - HB HOT BOX
- [Symbol] DENOTES CONCRETE
 [Symbol] DENOTES ADDRESS
- [Symbol] PROPERTY LINE
 [Symbol] RIGHT OF WAY LINE
 [Symbol] PROP. LINE NOT SURVEYED
 [Symbol] EASEMENT LINE
 [Symbol] OHP OVERHEAD POWERLINE

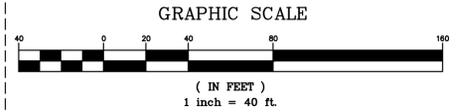
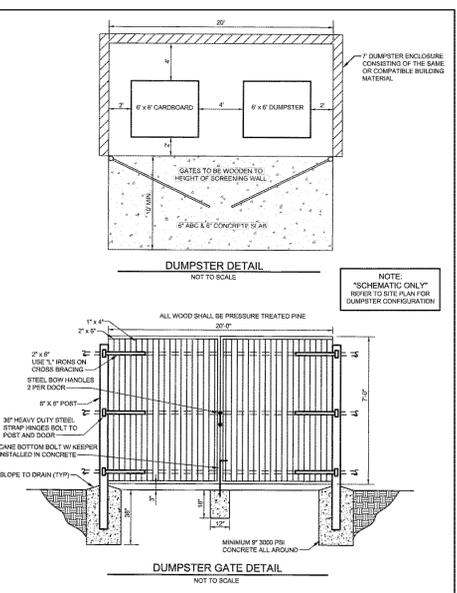
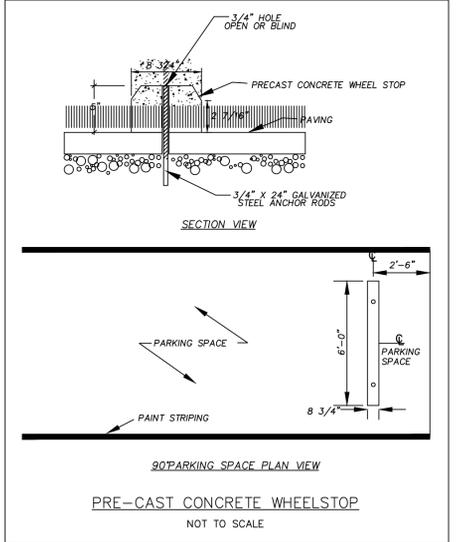
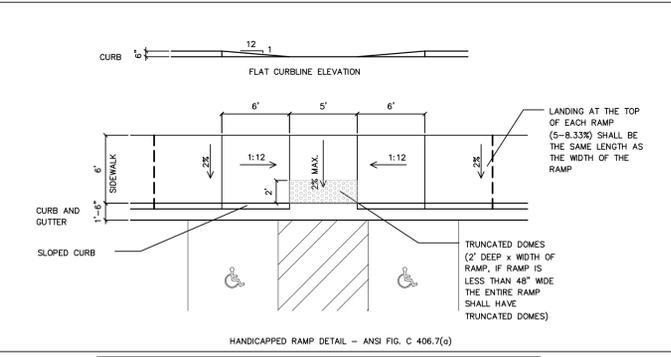
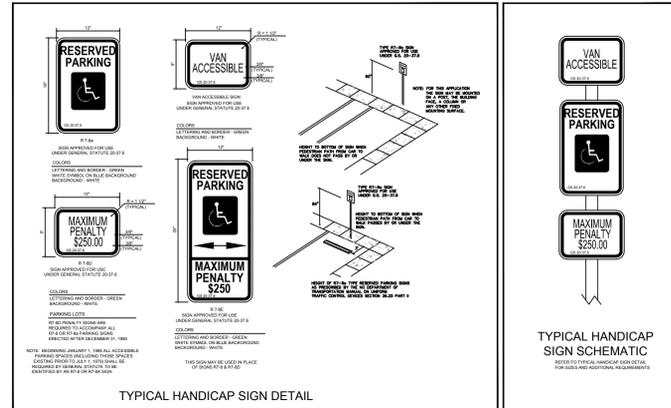
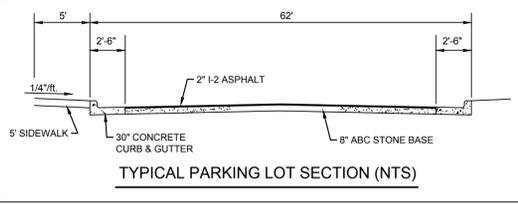
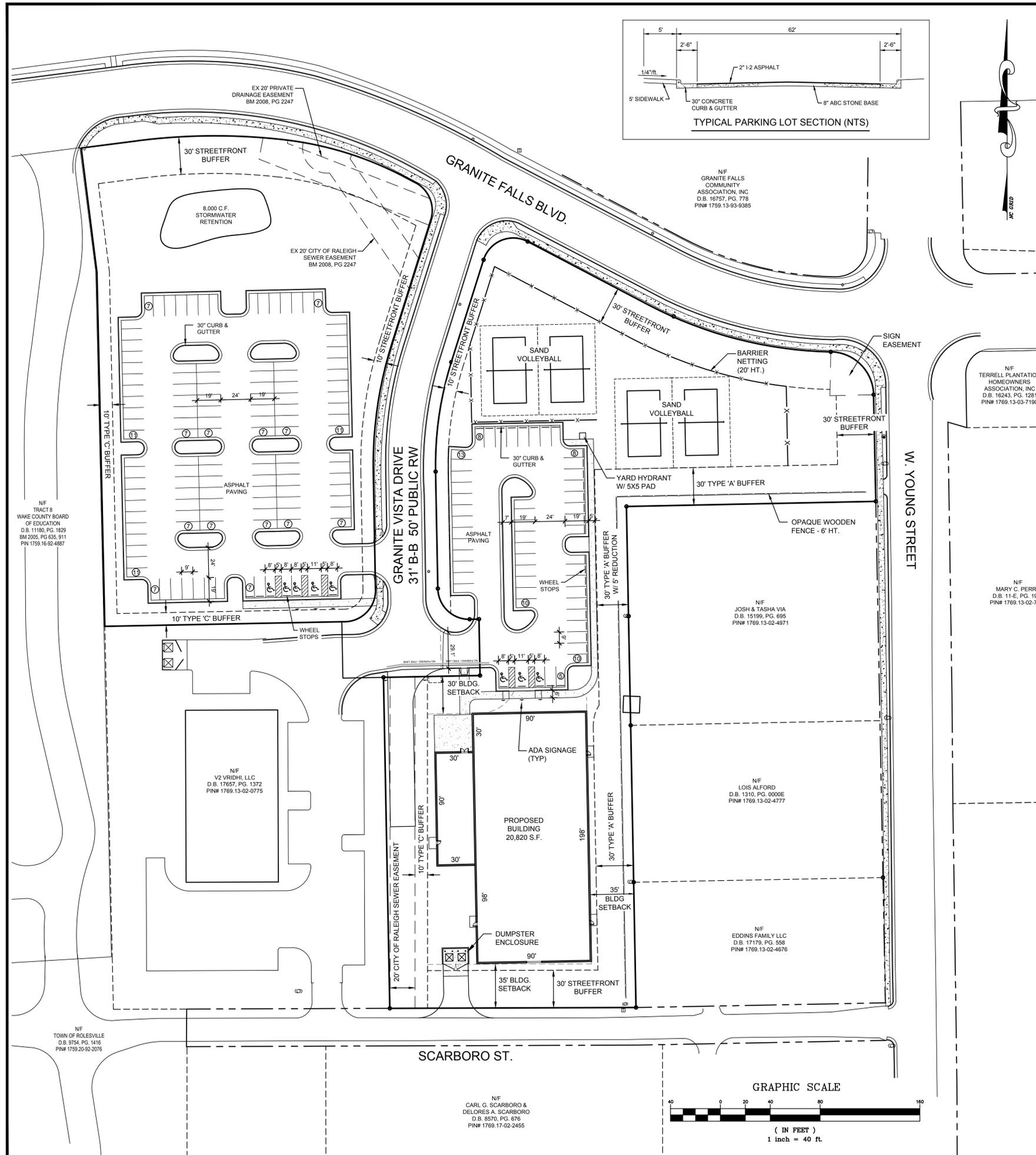
EXISTING CONDITIONS SURVEY

Revisions

Number	Description	Date

Drawing Scale: 1"=40'
 Drawn By: ZCS
 Checked By: CLP
 Date Issued: 10-02-2020

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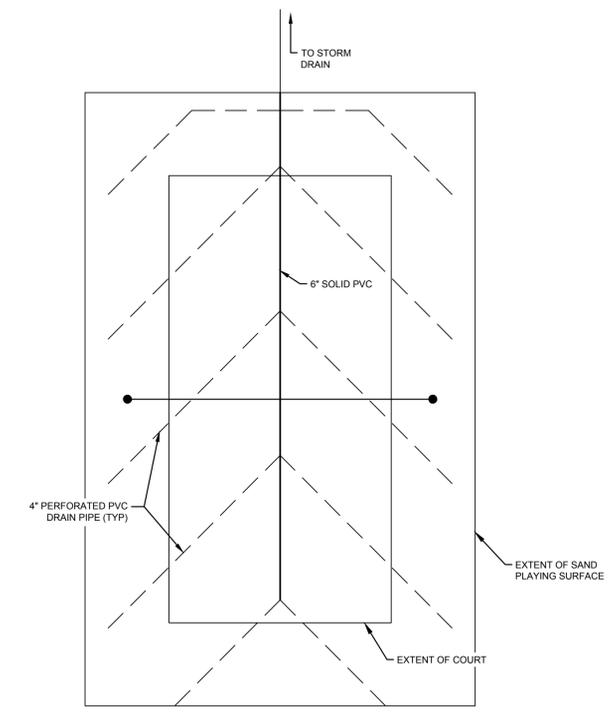
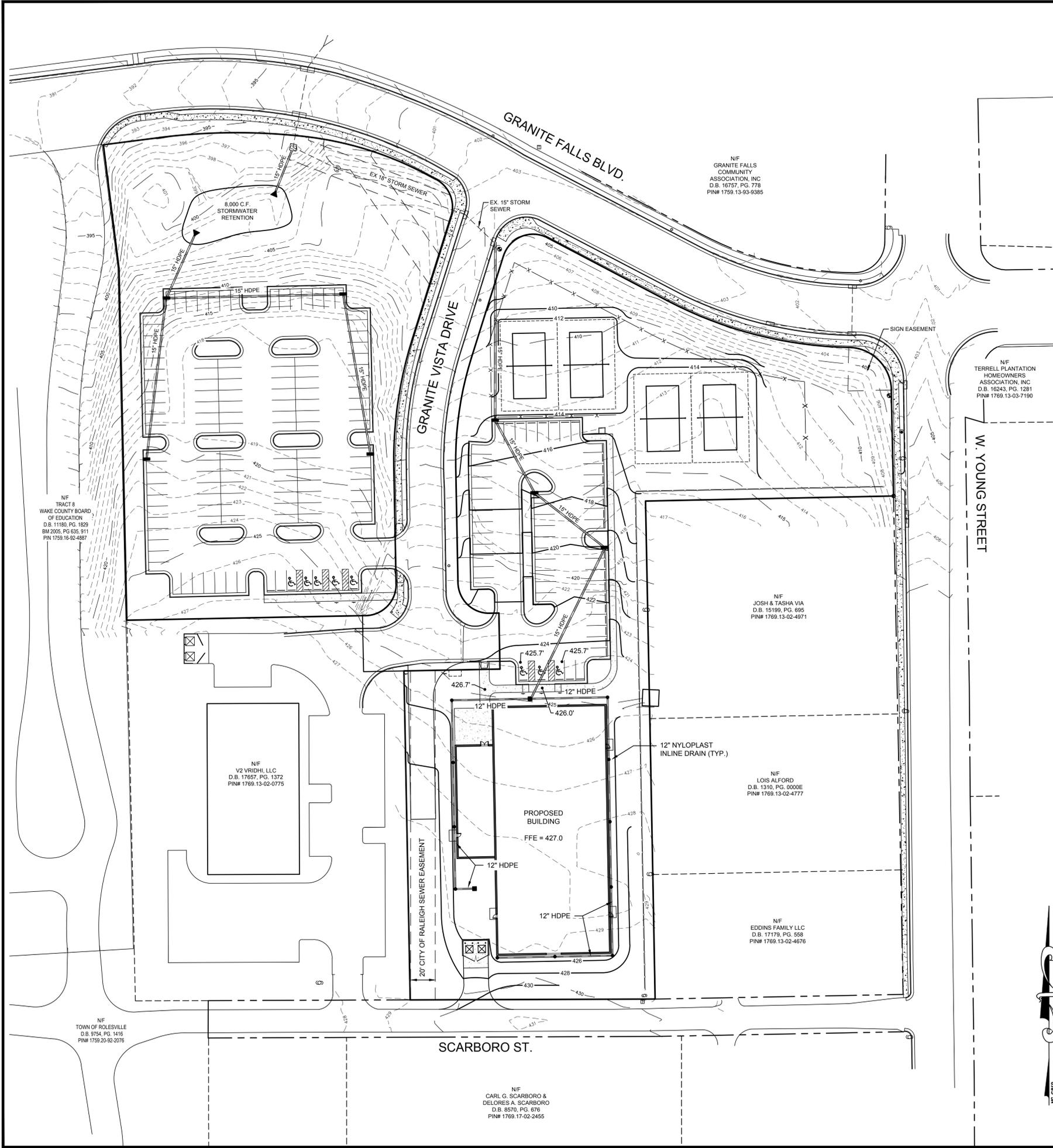
SITE PLAN

Revisions		
Number	Description	Date
1	PER REVIEW COMMENTS	8/28/20
2	PER REVIEW COMMENTS	10/7/20

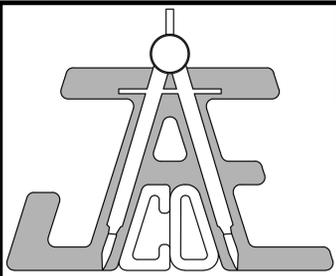
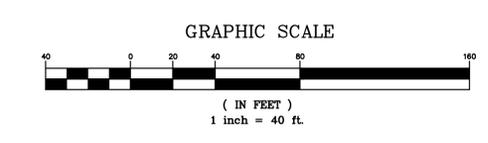
JAECO #: 087-01
 DRAWING SCALE: 1" = 40'
 DRAWN BY: RT
 CHECKED BY: JAE, JR.
 DATE ISSUED: 5/7/20

C-2

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TYPICAL COURT UNDERDRAIN LAYOUT



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 VOLLEYBALL**
 ROLESVILLE, NC

**ALL PURPOSE
 DRIVEN, LLC**
 6027 Clapton Dr
 Wake Forest, NC 27587

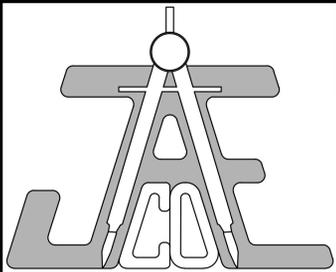
**GRADING &
DRAINAGE PLAN**

Number	Description	Date
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2	PER REVIEW COMMENTS	10/7/20

JAECO #: 087-01
 DRAWING SCALE: 1" = 40'
 DRAWN BY: RT
 CHECKED BY: JAE, JR.
 DATE ISSUED: 5/7/20

C-3

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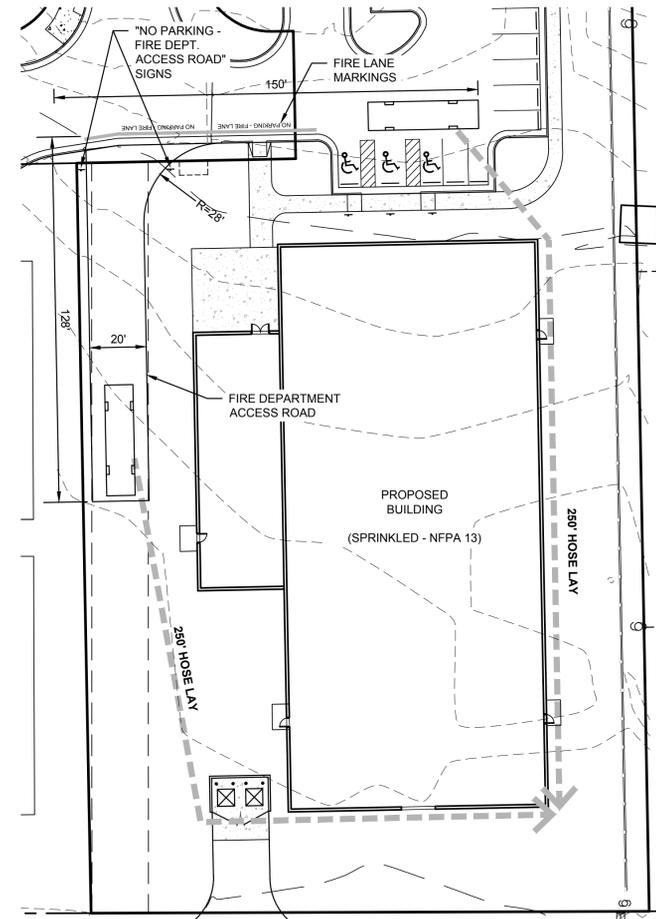
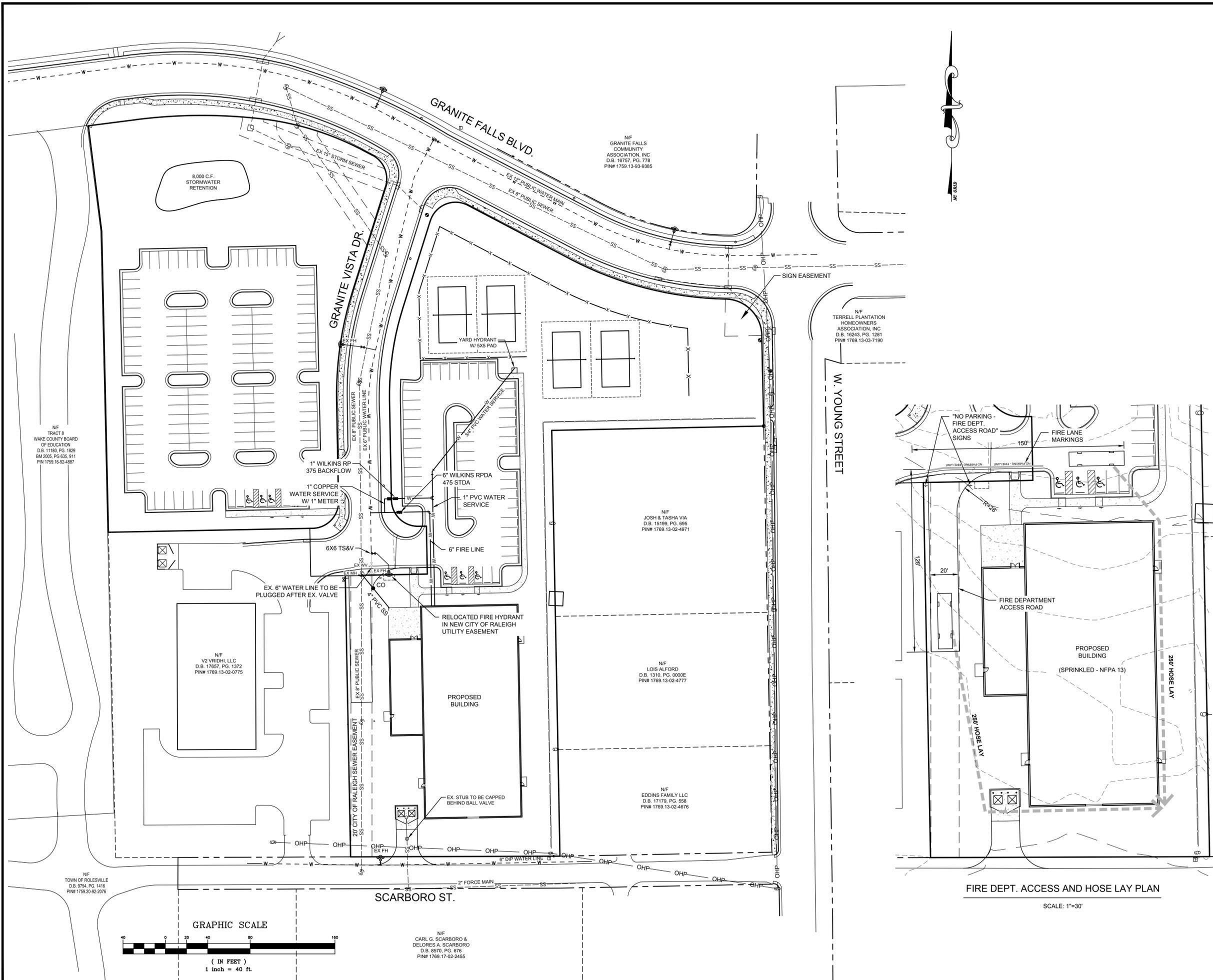
**ALL PURPOSE
DRIVEN, LLC**
6027 Clapton Dr
Wake Forest, NC 27587

**UTILITY & FIRE DEPT.
ACCESS PLAN**

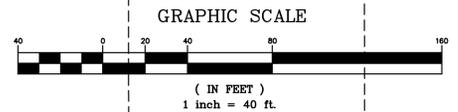
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Number	Description	Date
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2	PER REVIEW COMMENTS	10/7/20

JAECO #: 087-01
DRAWING SCALE: 1" = 40'
DRAWN BY: RT
CHECKED BY: JAE, JR.
DATE ISSUED: 5/7/20

C-4



FIRE DEPT. ACCESS AND HOSE LAY PLAN
SCALE: 1"=30'



N/F
CARL G. SCARBORO &
DELORES A. SCARBORO
D.B. 8570, PG. 676
PIN# 1769.17-02-2455

N/F
GRANITE FALLS
COMMUNITY
ASSOCIATION, INC
D.B. 16757, PG. 778
PIN# 1759.13-93-9385

N/F
TERRELL PLANTATION
HOMEOWNERS
ASSOCIATION, INC
D.B. 16243, PG. 1281
PIN# 1769.13-03-7190

N/F
JOSH & TASHA VIA
D.B. 15189, PG. 695
PIN# 1769.13-02-4971

N/F
LOIS ALFORD
D.B. 1310, PG. 0000E
PIN# 1769.13-02-4777

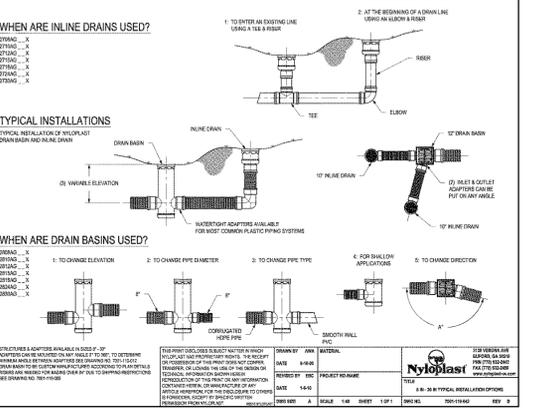
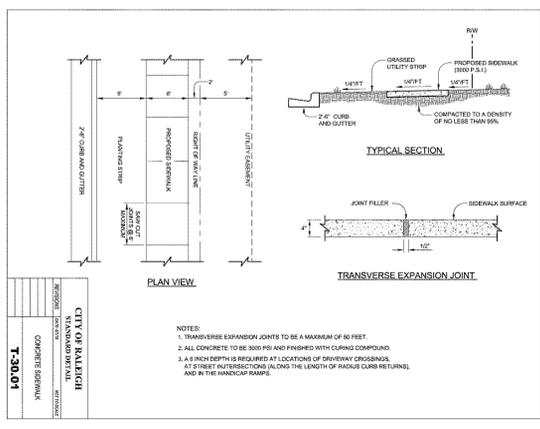
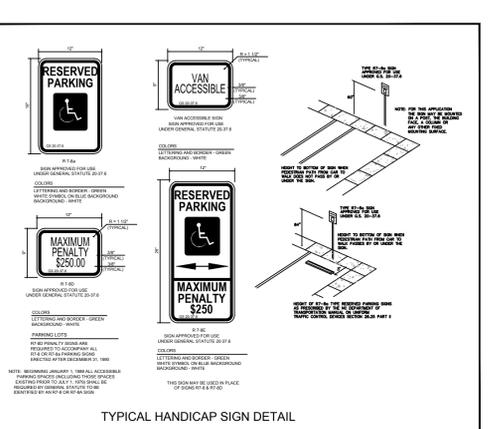
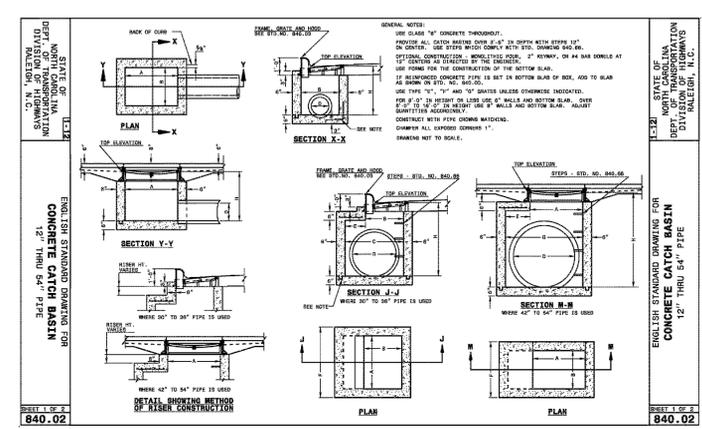
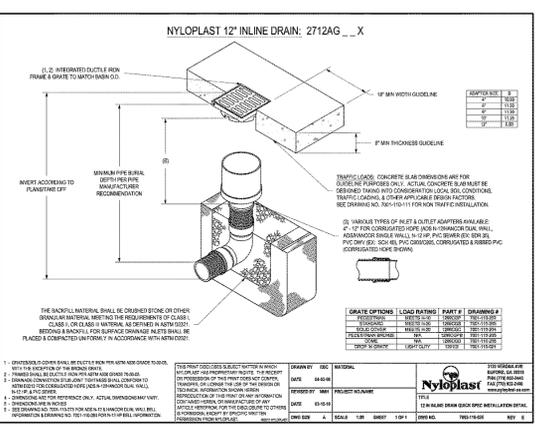
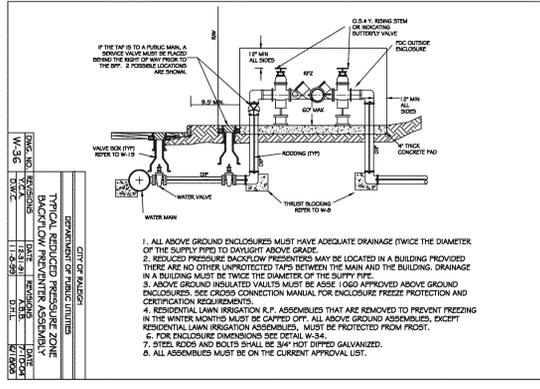
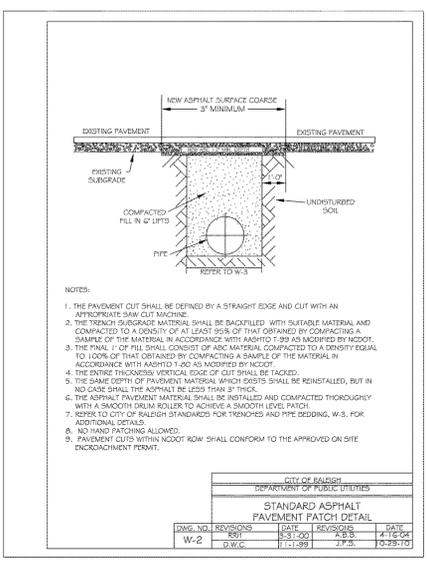
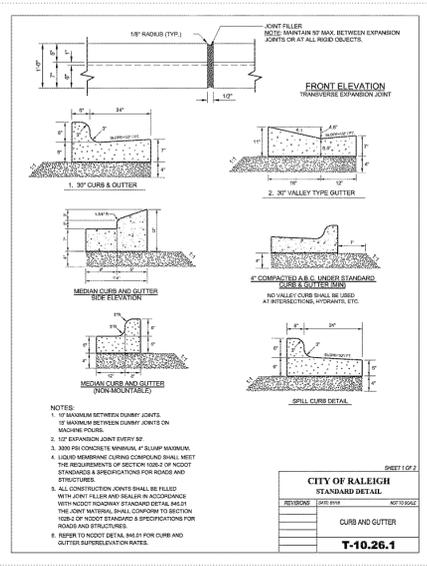
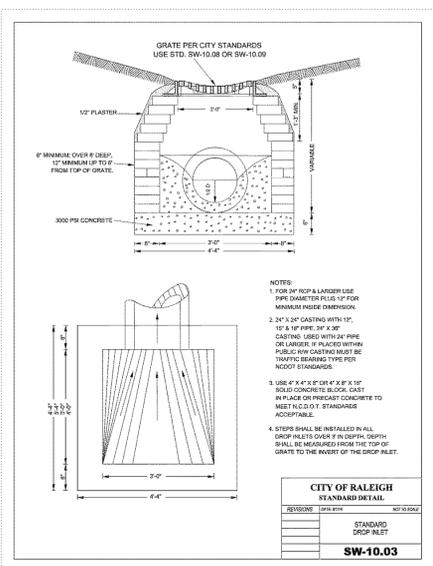
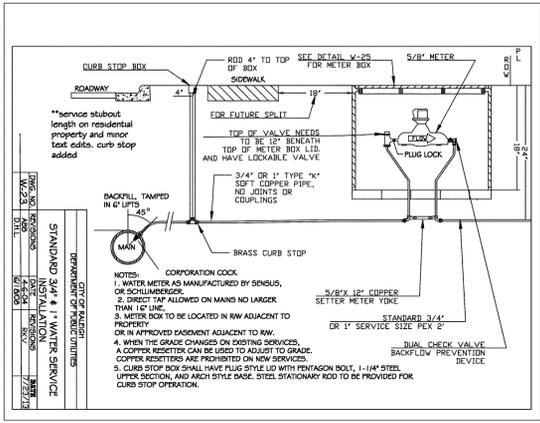
N/F
EDDINS FAMILY LLC
D.B. 17179, PG. 558
PIN# 1769.13-02-4676

N/F
TRACT 8
WAKE COUNTY BOARD
OF EDUCATION
D.B. 11180, PG. 1829
BM 2005, PG. 635. 911
PIN 1759.16-92-4887

N/F
V2 VRIEHL, LLC
D.B. 17657, PG. 1372
PIN# 1769.13-02-0775

N/F
TOWN OF ROLESVILLE
D.B. 9754, PG. 1416
PIN# 1759.20-92-2076

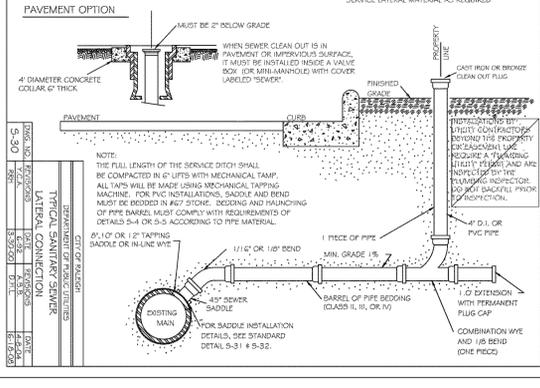
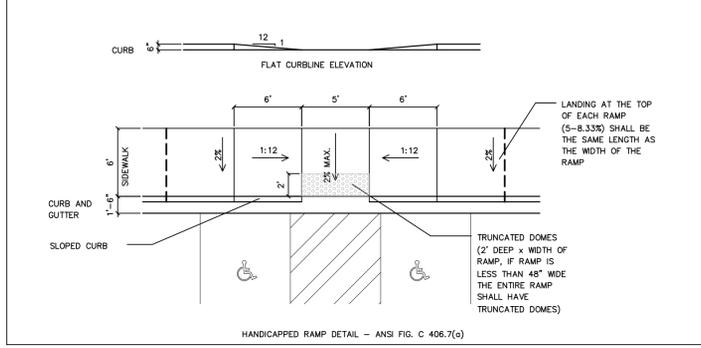
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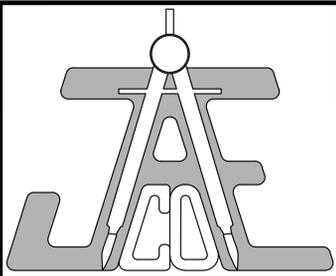
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AMERICAN MADE SINCE 1946

Barrier Netting System

AMERICAN MADE SINCE 1946



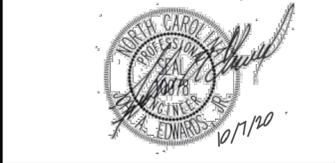
NOTE:
ALL PAVEMENT STRIPING TO BE THERMOPLASTIC.



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DETAILS

Number	Description	Date
1	PER REVIEW COMMENTS	8/28/20
2	PER REVIEW COMMENTS	10/7/20

JAECO # 087-01
DRAWING SCALE: 1" = 40'
DRAWN BY: RT
CHECKED BY: JAE, JR
DATE ISSUED: 5/7/20

C-5

LANDSCAPE NOTES:

1. B&B AS LISTED UNDER "ROOT" IN THE PLANT LIST INDICATES BALLED AND BURLAPPED.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE PLANTING CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS REQUIRED ON THE PLANTING PLAN.
3. ALL TREES, SHRUBS, AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
5. PRUNING - THIN BRANCHES AND FOLIAGE (NOT ALL END TIPS) RETAINING NORMAL PLANT SHAPE. NEVER CUT EVERGREEN LEADER.
6. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO GRADE IN NURSERY.
7. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
8. VERIFICATION OF LOCATIONS OF UNDERGROUND UTILITIES IS RECOMMENDED PRIOR TO PLANTING.
9. MULCH TO BE 4" HARDWOOD BARK MULCH.

PLANT LIST

Key	Botanical Name	Common Name	Qty	Cal	Height	Spread	Root	Remarks
SHADE TREES								
ArO	Acer rubrum 'October Glory'	October Glory Red Maple	7	2.5"	8' min.		BB	
ArR	Acer rubrum 'Redpointe'	Redpointe Red Maple	10	2.5"	8' min.		BB	
As	Acer saccharum 'Legacy'	Legacy Sugar Maple	8	2.5"	8' min.		BB	
Lt	Liriodendron tulipifera	Tulip Poplar	7	2.5"	8' min.		BB	
Pc	Platanus chinensis	Chinese Platanus	8	2.5"	8' min.		BB	
Qc	Quercus coccinea	Scarlet Oak	3	2.5"	8' min.		BB	
Tc	Tilia cordata 'Greenspire'	Greenspire Linden	15	2.5"	8' min.		BB	
EVERGREEN TREES								
Cj	Cryptomeria japonica 'Yoshino'	Yoshino Cryptomeria	8		8' min.		BB	
Cl	Callitris leylandii	Leyland Cypress	15		8' min.		BB	
Io	Ilex opaca 'Tingo'	Tingo American Holly	2		8' min.		BB	
MgBB	Magnolia grandiflora 'Brackens Brown Beauty'	Brackens Brown Beauty Magnolia	10		8' min.		BB	
MgCC	Magnolia grandiflora 'Carolina Compacta'	Carolina Compacta Magnolia	1		8' min.		BB	
MgKP	Magnolia grandiflora 'Kay Paris'	Kay Paris Magnolia	3		8' min.		BB	
ORNAMENTAL TREES								
Ag	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5	1.5"	8' min.		BB	
Cc	Cercis canadensis	Eastern Red Bud	8	1.5"	8' min.		BB	
Cf	Cornus florida 'Cherokee Chief'	Cherokee Chief Dogwood	2	1.5"	8' min.		BB	Pink
Ly	Lagerstroemia 'Whit II Dynamite'	Dynamite Crape Myrtle	7	1.5"	8' min.		BB	Multi-stem, Red
Py	Prunus yedoensis 'Yoshino'	Yoshino Cherry	2	1.5"	8' min.		BB	
SHRUBS								
Az	Azalea x Indica 'Formosa'	Formosa Azalea	40		24"		Cont.	Lavender
Ca	Calliandra americana 'Atropurpurea'	Purple Beautyberry			24"		Cont.	
Caf	Calyanthus floridus	Sweet Shrub	2		24"		Cont.	
Cs	Cornus sericea 'Bailey'	Bailey Red Twig Dogwood	10		24"		Cont.	
CsAR	Camelia sasanqua 'Autumn Rocket'	Autumn Rocket Camellia	7		24"		Cont.	
Fi	Forsythia x Intermedia 'Lynwood Gold'	Lynwood Gold Forsythia	18		24"		Cont.	
Hp	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	4		24"		Cont.	
IcB	Ilex cornuta 'Burfordii Nana'	Dwf. Burford Holly	56		24"		Cont.	
IcH	Ilex crenata 'Helleri'	Helleri Holly	32		18"		Cont.	
Ig	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	117		24"		Cont.	3.5' oc
Jc	Juniperus chinensis 'Sea Green'	Sea Green Juniper	56		24"		Cont.	
Lcl	Laropetalum chinense 'Ruby'	Ruby Loropetalum	25		24"		Cont.	
Lc2	Laropetalum chinense 'Emerald Snow'	Emerald Snow Loropetalum	31		24"		Cont.	
Mc	Myrica carterii	Wax Myrtle	37		24"		Cont.	
POL	Prunus laurocerasus 'Oita Luiken'	Oita Luiken Cherry Laurel	65		24"		Cont.	
ToE	Thuja occidentalis 'Emerald'	Emerald Arborvitae	3		4"		Cont.	
Tp	Thuja plicata 'Green Splendor'	Green Splendor Arborvitae	5		6"		BB	
Vd	Viburnum davidii	David Viburnum	31		24"		Cont.	
GROUND COVER								
JcBP	Juniperus conferta 'Blue Pacific'	Blue Pacific Juniper	20		1 gal. min.		Cont.	
Lm	Litopha muscari 'Big Blue'	Big Blue Lilyturf	479		1 gal. min.		Cont.	15' oc

LANDSCAPE REQUIREMENTS

30' STREET FRONT TYPE 'D' BUFFER (1 TREE PER 40')

GRANITE FALLS BLVD (EAST) - 300' REQUIRED TREES - 7.5 PROPOSED TREES - 8

GRANITE FALLS BLVD (WEST) - 290' REQUIRED TREES - 7.25 PROPOSED TREES - 7

W. YOUNG STREET - 55' REQUIRED TREES - 1.4 PROPOSED TREES - 2

SCARBORO STREET - 147' REQUIRED TREES - 3.6 PROPOSED TREES - 4

10' STREET FRONT TYPE 'D' BUFFER (1 TREE PER 40', SEMI-OPAQUE TO 3' HT. ALONG PARKING AREA)

GRANITE VISTA DRIVE (EAST) - 282' REQUIRED TREES - 7.05 PROPOSED TREES - 7 PROPOSED SHRUBS - 44

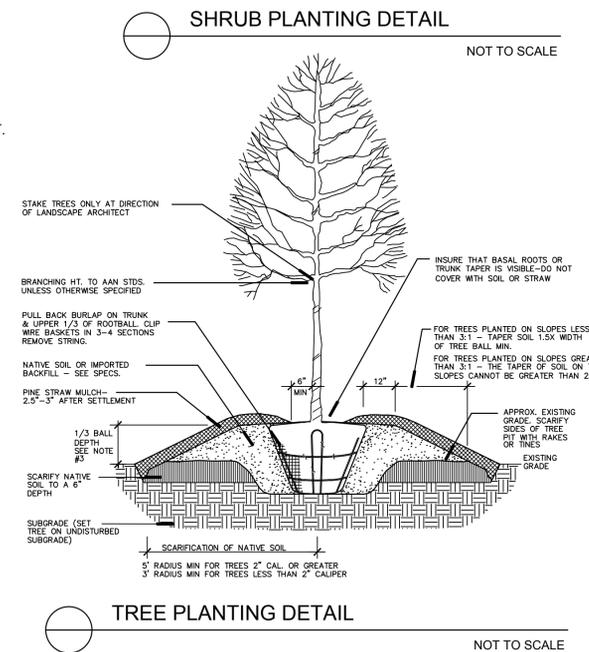
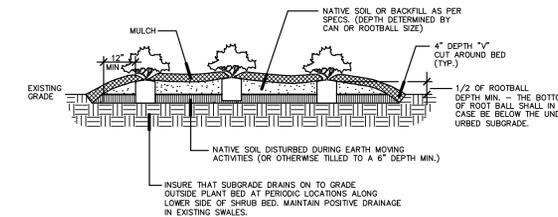
GRANITE VISTA DRIVE (WEST) - 335' REQUIRED TREES - 8.4 PROPOSED TREES - 8 PROPOSED SHRUBS - 58

30' TYPE 'A' BUFFER OPAQUE TO 6' HT.

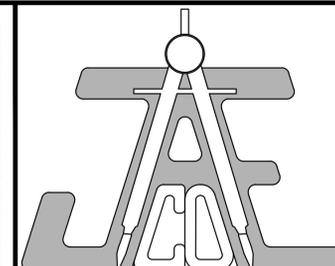
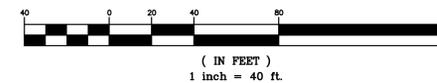
PLANTS PROPOSED:
14 SHADE TREES
29 EVERGREEN TREES
12 ORNAMENTAL TREES
167 EVERGREEN SHRUBS
18 DECIDUOUS SHRUBS

10' TYPE 'C' BUFFER (SPATIAL DEFINITION)

REFER TO PLAN TO VERIFY COMPLIANCE WITH BUFFER REQUIREMENTS



GRAPHIC SCALE



JAECO
Consulting Engineers and Land Surveyors

NC License F-0289
333 Wade Ave., Raleigh, N.C. 27605
Phone: (919) 828-4428
Fax: (919) 828-4711
E-mail: info@jaeco.com

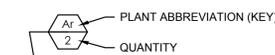
www.jaeco.com



CAROLINA LEGACY VOLLEYBALL
ROLESVILLE, NC

ALL PURPOSE DRIVEN, LLC
6027 Clapton Dr
Wake Forest, NC 27587

PLANT TAG (SEE PLANT LIST)



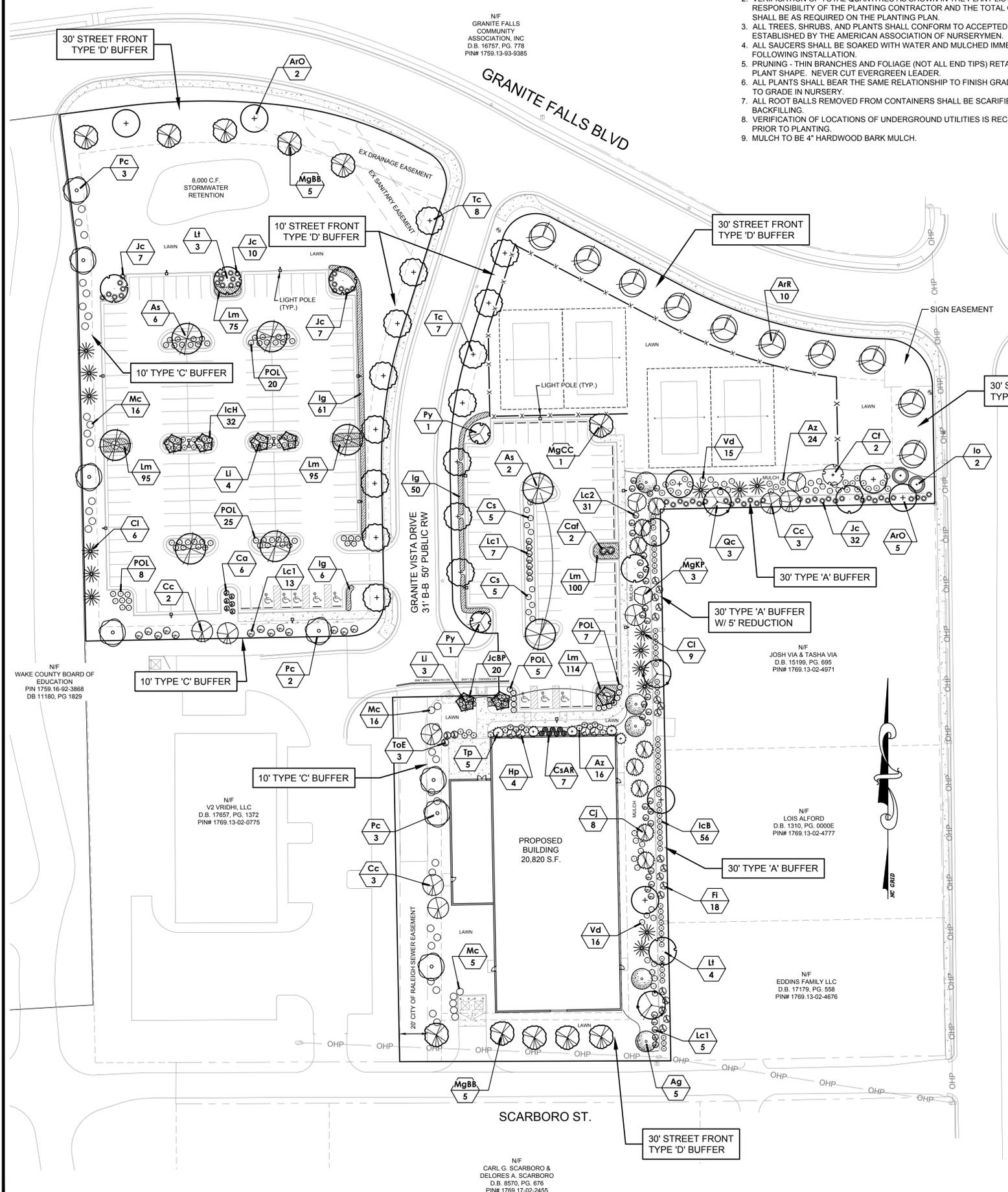
LANDSCAPE PLAN

Number	Description	Date
1	PER REVIEW COMMENTS	8/28/20
2	PER REVIEW COMMENTS	10/7/20

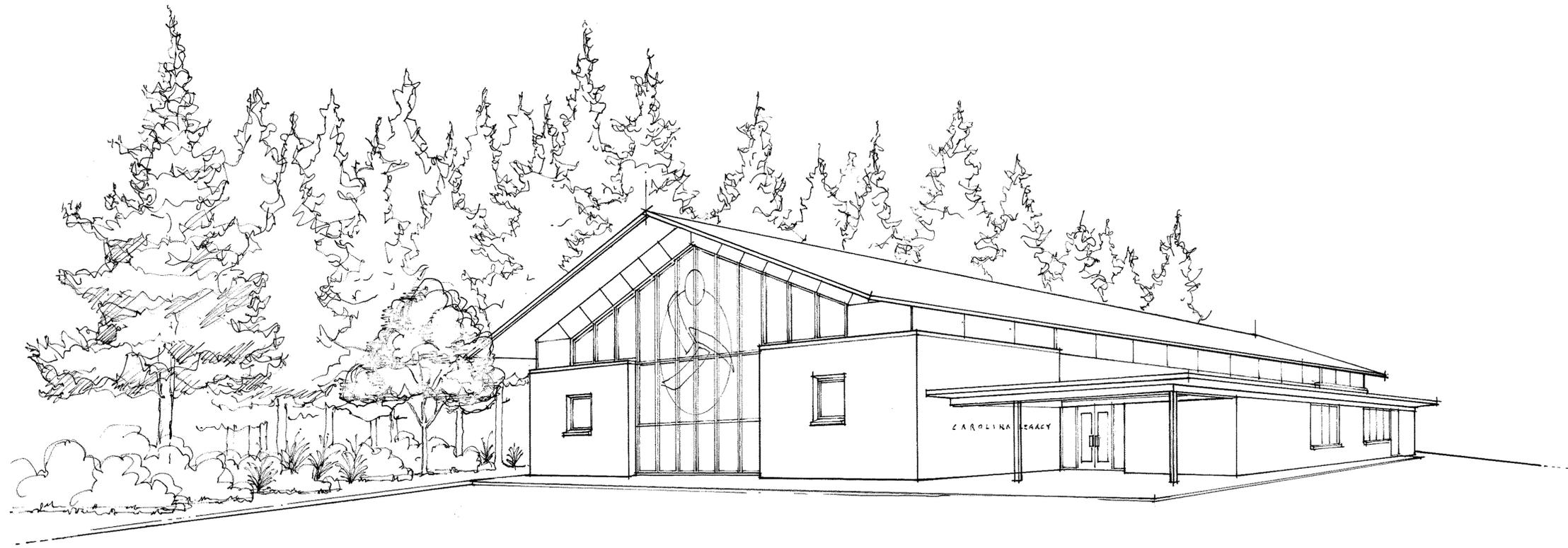
Revisions

JAECO #: 087-01
DRAWING SCALE: 1" = 40'
DRAWN BY: RT
CHECKED BY: JAE, JR.
DATE ISSUED: 5/7/20

L-1



X:\Projects\Carolina Legacy Volleyball\087-0101 - PRELIMINARY\087-01 CL Volleyball Civil Base.dwg, 10/7/2020 1:41:24 PM



V I E W U P O N A P P R O A C H

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**PRELIMINARY
NOT FOR
CONSTRUCTION**

NO	REVISIONS	DATE
A		8.25.20

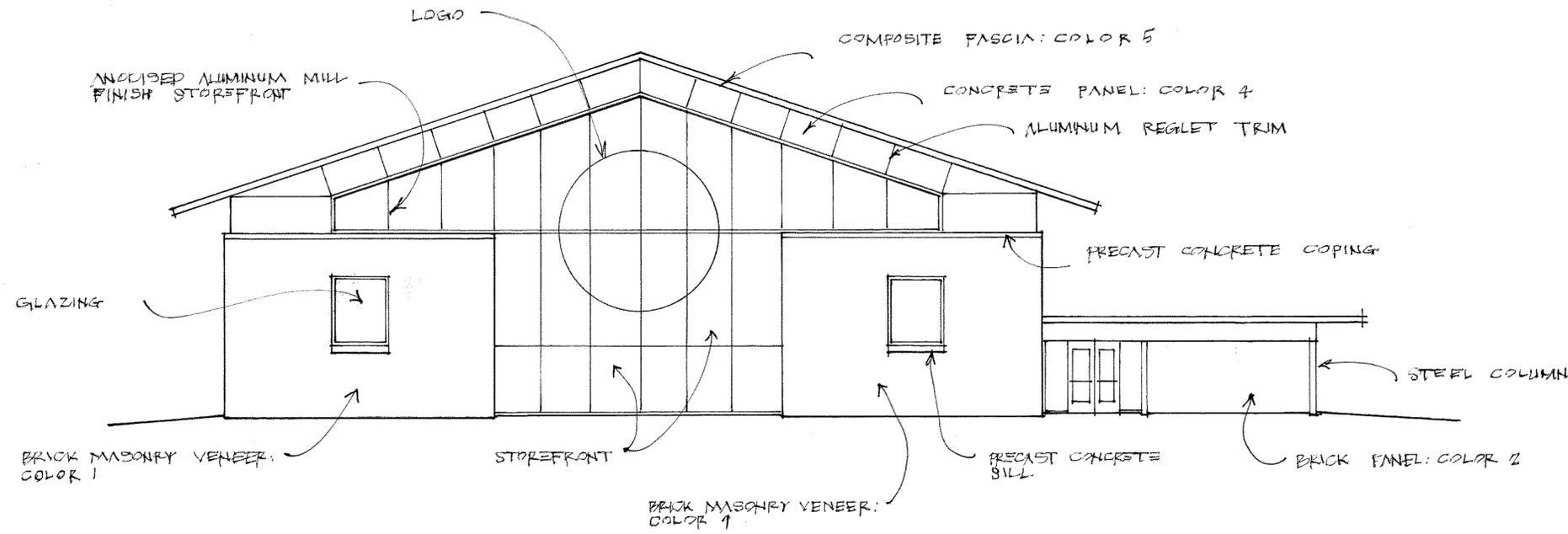
DRAWN BY: BIM
 CHECKED BY: BIM
 FIRST ISSUE DATE: mm/dd/yyyy
 PROJECT NO.
 20-0108.020

WALL SECTIONS

A320

SUMMIT
 DESIGN AND ENGINEERING SERVICES
 State License #: P-0339
 1110 Navaho Drive, Suite 600 Raleigh, NC 27609
 Voice: (919) 322-0115 Fax: (919) 322-0116
 www.SummitDE.net

**CAROLINA
LEGACY**
 VOLLEYBALL CLUB

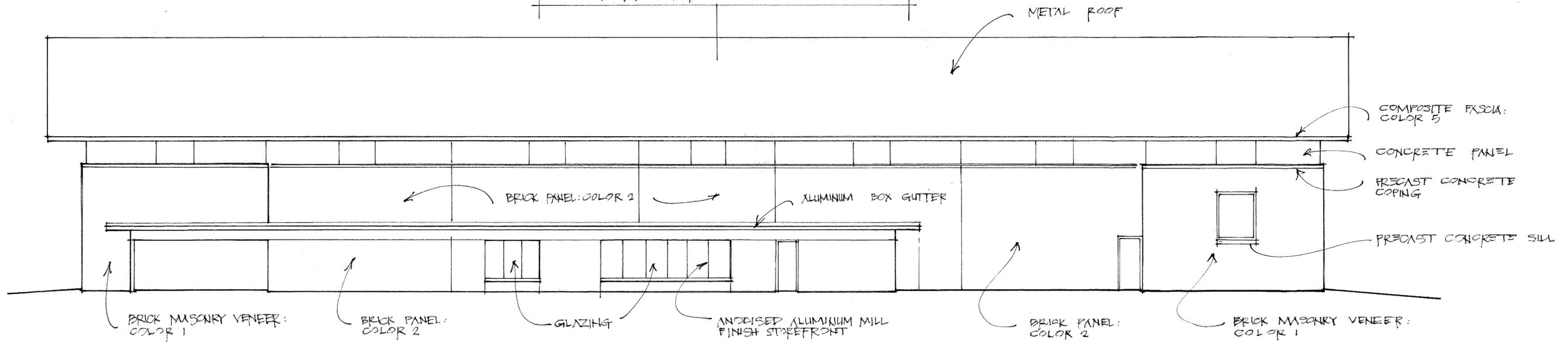


NORTH ELEVATION

0 8 16 24

$$\begin{aligned} &(\text{WALL AREA}) - (\text{GLAZING}) \times 75\% = \text{MINIMUM BRICK (1,292 } \Phi\text{)} \\ &3,130 \text{ SF} - 1,407 \text{ SF} \times 75\% = 1,370 \text{ SF} \\ &1,370 \Phi > 1,292 \Phi \end{aligned}$$

$$\begin{aligned} &(\text{WALL AREA}) - (\text{GLAZING}) \times 75\% = \text{MINIMUM BRICK (3,583 } \Phi\text{)} \\ &5,000 \text{ SF} - 222 \text{ SF} \times 75\% = 3,534 \text{ SF} \\ &3,534 > 3,583 \Phi \end{aligned}$$



WEST ELEVATION

0 8 16 24



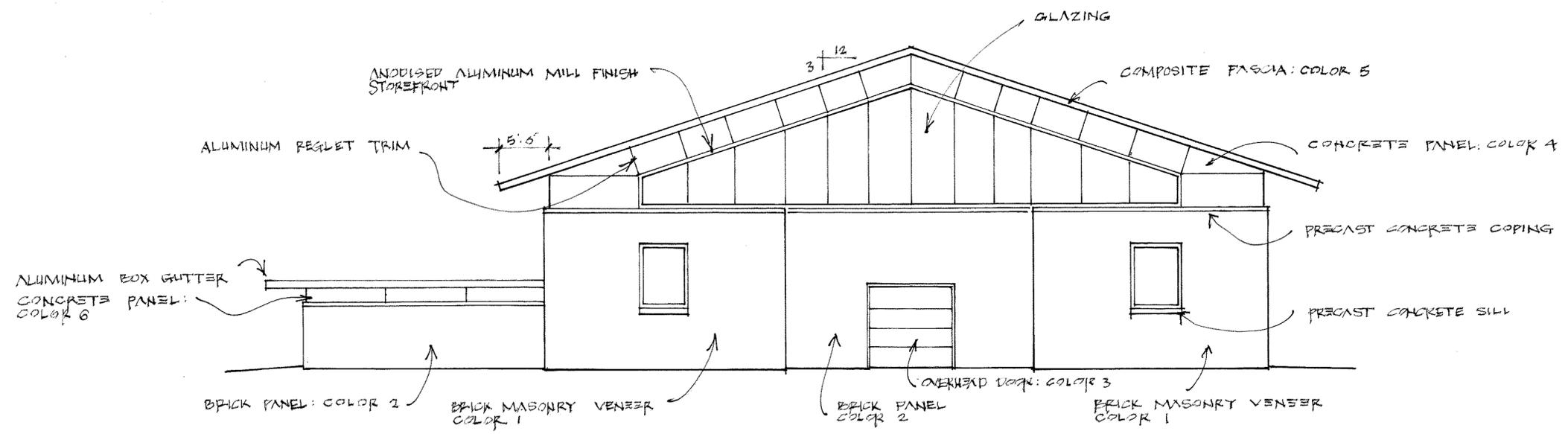
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NOT FOR
CONSTRUCTION**

NO.	REVISIONS	DATE
A		8.25.20

DRAWN BY: BIM
CHECKED BY: BIM
FIRST ISSUE DATE: mm/dd/yyyy
PROJECT NO.
20-0108.020

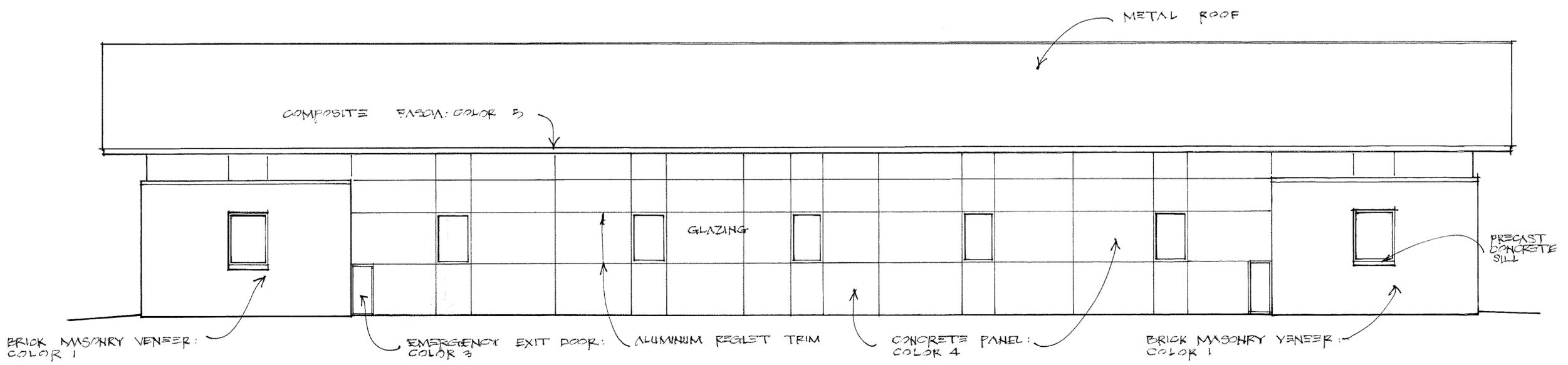
WALL SECTIONS

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SOUTH ELEVATION

$\begin{aligned} (\text{WALL AREA}) - (\text{GLAZING}) \times 75\% &= \text{MINIMUM BRICK} \\ 3,130 \text{ SF} - 734 \text{ SF} \times 75\% &= 1,797 \text{ SF} \\ 2,004 \text{ SF} &> 1,797 \text{ SF} \end{aligned}$
--



EAST ELEVATION



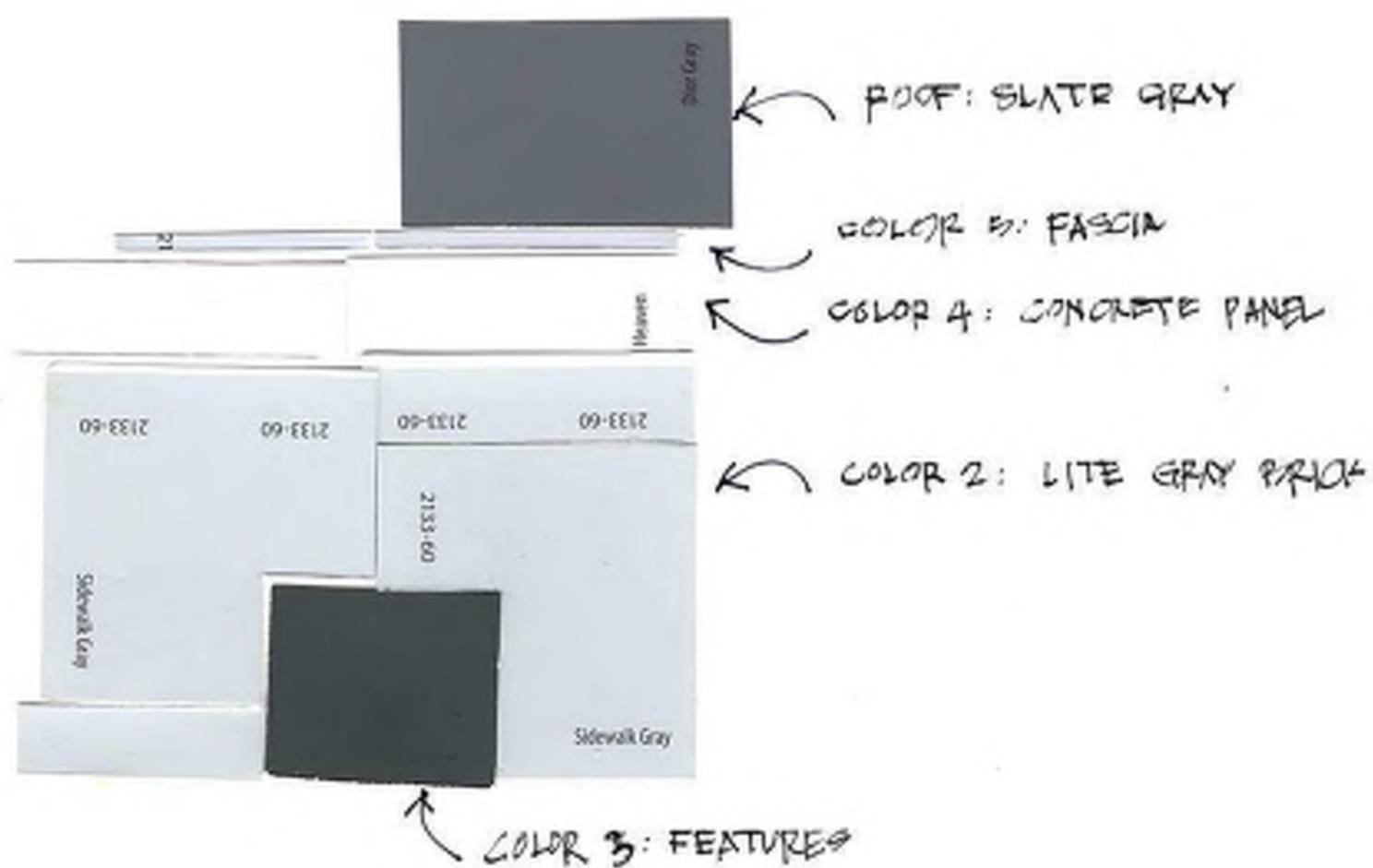
**PRELIMINARY
NOT FOR
CONSTRUCTION**

NO.	REVISIONS	DATE
A		8/25/20

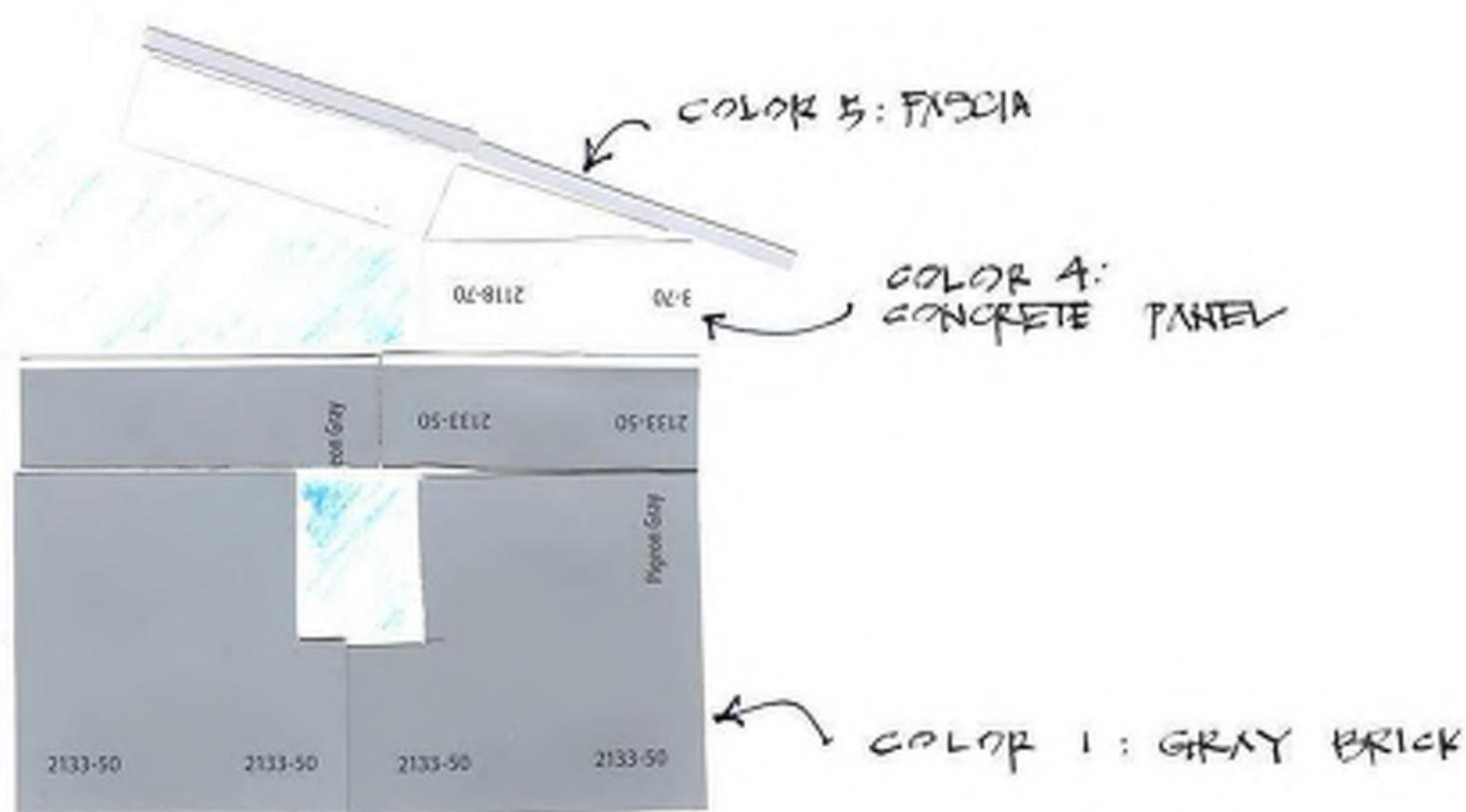
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PROJECT NO.
20-0108.020

WALL SECTIONS

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- 1: BROWN BRICK
- 2: BRICK PANEL
- 3: BM CSP-60
- 4: BM 2113-70
- 5: BM 2113-60



CAROLINA LEGACY VOLLEYBALL CLUB

Rolesville, North Carolina

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	JUNCTION BOX PER N.E.C.
	HOMERUN – PANEL DESIGNATION AND CIRCUIT NUMBER
	SINGLE POLE SWITCH – 20A – 120/277V – MOUNT 46" A.F.F. TO BOTTOM
	DIMMER SWITCH
	THREE-WAY SWITCH – 20A – 120/277V – MOUNT 46" A.F.F. TO BOTTOM
	INDICATES SWITCHES ARE TO PROVIDE MULTIPLE LIGHT LEVELS (INBOARD, OUTBOARD SWITCHING OF LAMPS)
	115 OR 277 VOLT MOTOR AS NOTED ON PLANS
	FUSED OR NON-FUSIBLE HEAVY DUTY DISCONNECT SWITCH – BY DIVISION 16
	2-POLE OR 3-POLE MANUAL MOTOR STARTER. PROVIDE WITH OVERLOAD PROTECTION.
	WALL MOUNTED OCCUPANCY SENSOR, SOUND AND MOTION ACTIVATED – SENSOR SWITCH WSX-PDT (WSX-PDT-2P FOR TOILET ROOMS)
	CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL STAGE ILLUMINATION – NLIGHT RCMS-PS150-PDT-10-AR-G2 – VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURERS CUT SHEETS BEFORE BEGINNING ANY WORK.
	STANDARD 20A OUTLET – NEMA 5-20R DUPLEX. MOUNT 16" A.F.F. "GFI" DENOTES GROUND FAULT TYPE, NON-FEED THRU, "EWC" DENOTES OUTLET FOR ELECTRIC WATER COOLER – COORDINATE LOCATION WITH PLUMBING CONTRACTOR – NEMA 5-20R DUPLEX "WP" DENOTES WEATHERPROOF IN USE NEMA 5-20R DUPLEX, "ACT" DENOTES MOUNTED ABOVE COUNTER TOP OR BACKSPLASH, "BB" DENOTES MOUNTED ON THE BACKSIDE OF THE BAR JUST BENEATH THE BARTOP TYPICAL FOR RESTAURANTS AND BARS, "TR" DENOTES TAMPER RESISTANT. "USB" DENOTES LEGRAND TM826USB.
	TWO STANDARD 20A OUTLETS IN A 2-GANG BOX – NEMA 5-20R DUPLEX – COMMON COVER PLATE – MOUNT 16" A.F.F. TO BOTTOM OF DEVICE.
	STANDARD 20A OUTLET IN FLOOR BOX – NEMA 5-20R DUPLEX – LEGRAND WIREMOLD RFB2 FLOOR BOX.
	TELEPHONE/DATA OUTLET MTD. 16" AFF TO BOTTOM. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
	CABLE TV OUTLET MTD. 16" AFF TO BOTTOM OR AS INDICATED. PROVIDE 1" CONDUIT WITH PULL CORD FROM OUTLET TO COMMUNICATION BACKBOARD. STUB OUT 6" ABOVE BACKBOARD. PROVIDE NYLON BUSHING ON END OF CONDUIT. OUTLET BOX SHALL BE A 4" SQ. BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK COVERPLATE ON OUTLET BOX.
	GROUNDING FOR SERVICE OR SEPARATELY DERIVED SYSTEM, PER N.E.C.
	SPECIAL POWER OUTLET.

WIRING DEVICE NOTES

- Switches shall be Hubbell CS115 or equivalent and receptacles shall be Hubbell CR20 or equivalent. Devices shall be white or as directed by architect.
- Switches shall be as follows:

single pole 20 amp	CSB20AC1-I
3 way 20 amp	CSB20AC3-I
4 way 20 amp	CSB20AC4-I
motor starter switch	Square D type "K" series
- Duplex receptacle shall be as follows:

20 amp duplex	PS5362I
20 amp duplex-GFCI	2095IL
20 amp duplex-Weather GFI	2095TRWRI

Note: Duplex receptacles have nylon face and side wire type. Receptacles shall have brass contacts, brass terminal screws and green ground wire screw. GFCI receptacle shall be included with a trip indicator light.
- Coverplates shall be oversized stainless steel SSJX or as directed by architect.
- Outlet boxes shall not be mounted back-to-back.
- Receptacles shall be 20 amp unless 15 amp is required by equipment served.
- Weatherproof in use covers shall be clear equal to Leviton. For horizontal mount covers use part no. "5997-CL". For vertical mount covers use part no. "5977-CL".
- All outlets (including telephone and data) shall have cover plates.

2018 APPENDIX B BUILDING CODE SUMMARY: ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:			
Energy Code:	<input checked="" type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
ASHRAE 90.1:	<input checked="" type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
Lighting schedule(each fixture type)			
lamp type required in fixture	(see fixture schedule)		
number of lamps in fixture	(see fixture schedule)		
ballast type used in the fixture	(see fixture schedule)		
number of ballasts in fixture	(see fixture schedule)		
total wattage per fixture	(see fixture schedule)		
total interior wattage (whole space allowable)	NA		
total exterior wattage specified vs. allowed	NA		
Additional Prescriptive Compliance:			
C406.2 :More Efficient Mechanical Equipment	<input checked="" type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
C406.3 :Reduced Lighting Power Density	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
C406.4 :Energy Recovery Ventilation System	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
C406.5 :Higher Efficiency Service Water Heating	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
C406.6 :On-Site Supply of Renewable Energy	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	
C406.7 :Automatic Daylighting Control Systems	<input type="checkbox"/> Prescriptive	<input type="checkbox"/> Performance	

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

For circuits with branch circuit protection rated 20 amps or less, copper conductors shall be sized according to the following:			
voltage	distance (ft)	home run (AWG)	remainder (AWG)
120	0 - 50	12	12
	50 - 90	10	12
	90 - 140	8	10
	140 +	6	10
208	0 - 95	12	12
	95 - 160	10	12
	160 - 250	8	10
	250 +	6	10

ELECTRICAL NOTES

- The intent of these drawings and specifications are to describe the installation of a complete, fully adjusted, and operational system.
- Provide five sets of electrical equipment submittals to the GC for the architect, engineer, GC and owner to review and approve prior to purchasing.
- The contractor shall provide all supervision, labor, material, equipment, machinery, and any and all other items necessary to complete the system. All work shall be performed in a neat and workmanlike manner in accordance with industry standards.
- All work under this section shall be accomplished in strict accordance with state building codes and the National Electric Code. Coordinate with local power company requirements.
- The contractor shall obtain all necessary approval, obtain all permits and pay all fees required for the installation of their work.
- The drawings are diagrammatic only. The contractor may need to make field adjustments to accommodate actual field conditions.
- Devices located in rated walls shall have sufficient separation from other devices to allow proper installation and firestopping.
- The contractor shall refer to the architectural and structural drawings for the general construction of the building, for floors and ceiling heights, for locations of wall, partitions, beams, etc.
- Manufacturer's listed are to establish a standard of quality and not intended to limit the selection to these manufacturers. Any substitutions must be approved by the architect and engineer.
- Contractor shall verify all listed model numbers with manufacturers to insure proper application of equipment.
- Equipment and materials shall be handled, stored and protected in accordance with the manufacturer's recommendations.
- The contractor shall perform any and all trenching, excavation and backfilling required for the installation of this work.
- The contractor shall furnish all necessary scaffolding, staging, rigging and hoisting required for the completion of this work.
- All work shall be coordinated with the general contractor and other trades involved in the construction project. All work shall be carefully laid out in advance to coordinate architectural, structural, mechanical, plumbing and electrical features of construction.
- The electrical contractor shall visit the site before submitting his bid so as to be thoroughly familiar with the job conditions and/or peculiarities. No extra payment will be allowed for anything which could have been anticipated from a visit to the site.
- Equipment shall be installed in accordance with manufacturer's written instructions.
- Provide grounding for all conduits, motor frames, metal casings, receptacles, system neutral, etc. and as required by NEC as minimum. Resistance to ground shall not exceed 25 OHMS.
- A green insulated copper ground wire, sized per NEC, shall be installed in all raceways, electric metallic tubing used for feeders, branch circuits, flexible conduit, and as otherwise noted on the drawings.
- All fixtures shown on the plans shall be furnished and installed, complete with all mounting accessories, lamps and tubes. Fixtures shall be independently supported from structure. Re-use existing fixtures that are in good condition. If additional fixtures need to be supplied, match existing fixtures.
- All wiring shall be run in conduit. Connection to equipment shall be flexible metal conduit except in wet or damp locations use liquid tight flexible metal conduit. Indoor boxes and enclosures shall be NEMA type 1, except in damp or wet locations use NEMA type 4, stainless steel. Where nonmetallic conduit is used below the slab, provide a minimum of Schedule 80 PVC conduit to turn up into the building space or at any exterior walls, inside or outside framed walls, exterior landscape poles, or equipment. Use raceway fittings compatible with raceway and suitable for use and location. Run concealed raceways with a minimum of bends in the shortest practical distance considering the type of building construction and obstructions. Raceways shall run parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical. Provide grounding connections for raceway, boxes, and components as indicated and instructed by manufacturer. Tighten connections and terminals, including screws and bolts, according to equipment manufacturer's published torque-tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals according to tightening torques specified in UL standard 486A.
- All underground raceways shall be identified by "underground line marking tape" located directly above the raceway at 6" below finished grade. Tape shall be permanent, bright-colored, continuous, magnetic strip, printed plastic tape compounded for direct burial not less than 6" wide and 4mils thick. Printed legend shall be indicative of the service it is marking. Conduits exposed to different temperatures shall be sealed as required by NEC Article 300.7A.
- Color for devices shall be coordinated with the general contractor.
- Receptacles shall comply with UL Standard 498, "electrical attachment plugs and receptacles," heavy-duty grade 20 AMP rated except as otherwise indicated.
- Ground-fault circuit interrupter (GFI) receptacles shall comply with UL Standard 943, "Ground fault circuit interrupters," with integral NEMA 5-20R duplex receptacle.
- Single pole and three/four-way toggle type snap switches shall be 20 AMP 120/277 V, AC, rated, quite-type A.C. switches. NRTL listed and labeled as complying with UL Standard 20 "general use snap switches," and with federal specification W-S-896.
- Wall plates: single and combination types shall be 302 stainless steel that mate and match with corresponding wiring devices.
- Conductors shall be color coded in accordance with NEC as follows:

Phase	208/120 Volts	480/277 Volts
A	Black	Brown
B	Red	Orange
C	Blue	Yellow
Neutral	White	Gray
Ground	Green	Green
- Electrical equipment shall be identified with labels of engraved plastic-laminate on each major unit of electrical equipment.
- Panelboards/loadcenters shall be type, rating, and features as indicated on the schedules. Enclosures shall be NEMA type 1, flush or surface mounted as indicated. Cabinet shall be code gauge, galvanized steel. Fronts shall be sheet steel with gray lacquer finish with hinged locking door. Ground and neutral bus shall be 100% rated. Bus shall be copper or aluminum. Main and neutral lugs shall be plug-on type. Equipment ground bus shall be adequate for feeder and branch-circuit equipment ground conductors bonded to box. Directory frame shall be metal, mounted inside each panel door. At the completion of this installation, type circuit designations on the directory card and leave in the card holder provided inside cabinet doors. Tandem circuit breakers shall not be used. Multi-pole breakers shall have common trip. The minimum interrupting rating for circuit breakers rated at 120/240 volts shall be 22,000 AMPS RMS symmetrical. For flush mounted panels provide a minimum of (4)-1" conduits stubbed to the ceiling space for future use.
- All wiring for equipment shall be copper with one of the following types of insulation: THW, THHW, THWN with a rating of at least 75 DEG. C. All wiring located above the ceiling shall be plenum-rated.
- Final locations of all exit and emergency lights shall be verified with the building inspector prior to installation.
- Branch circuits shall not exceed 80% of overcurrent protection. Devices shall be relocated to another circuit if found to be in excess of 80%.
- Electrical contractor shall be responsible to supply a coordinated study as described in the NEC or as required by permitting officials with all gear submitted involving generators, elevators, or any life safety equipment.

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	14	Lithonia Lighting	RSX1 LED P2 30K R3 HS *	RSX Area Fixture Size 1 P2 Lumen Package 3000K CCT Type R3 Distribution with HS Shield; *HEAD INFO ONLY- SEE SPEC SHEET ON BOTH HEAD & POLE FOR FULL ORDER INFORMATION	LED	1	RSX1_LED_P2_30K_R3_HS.ies	6835	0.9	72.9467
	B	2	Lithonia Lighting	RSX1 LED P2 30K R3 HS *DOUBLE HEAD *	RSX Area Fixture Size 1 P2 Lumen Package 3000K CCT Type R3 Distribution with HS Shield; *HEAD INFO ONLY- SEE SPEC SHEET ON BOTH HEAD & POLE FOR FULL ORDER INFORMATION	LED	1	RSX1_LED_P2_30K_R3_HS.ies	6835	0.9	145.8934



10/6/2020

Lighting Design for:

REVISIONS

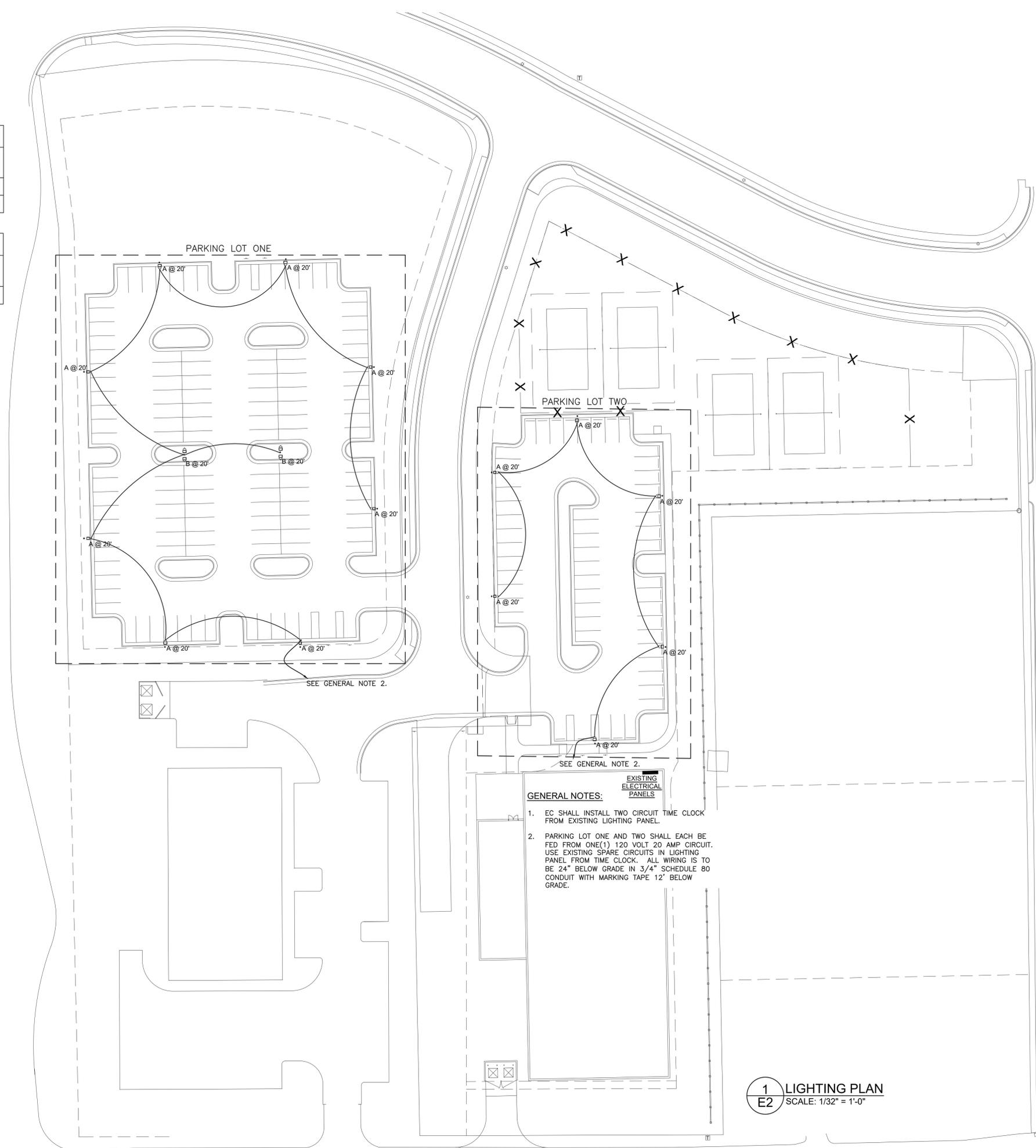
DATE
OCTOBER 5, 2020

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT ONE	✕	1.5 fc	3.8 fc	0.2 fc	19.0:1	7.5:1
PARKING LOT TWO	□	1.4 fc	3.5 fc	0.2 fc	17.5:1	7.0:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
POWER DENSITY	16	1313.0 W	446619.7 ft²	0.0 W/ft²

Note

*ALL CALCS CURRENTLY SET AT GRADE LEVEL (0'-0") ON 10' X 10' POINTS
 *SEE LIGHTING DESIGN FOR MOUNTING HEIGHTS & VERIFY
 *SEE SPEC SHEETS FOR BOTH HEAD & POLE INFORMATION & VERIFY ALL
 OPTIONS PRIOR TO ORDER



EXISTING ELECTRICAL PANELS

GENERAL NOTES:

1. EC SHALL INSTALL TWO CIRCUIT TIME CLOCK FROM EXISTING LIGHTING PANEL.
2. PARKING LOT ONE AND TWO SHALL EACH BE FED FROM ONE(1) 120 VOLT 20 AMP CIRCUIT. USE EXISTING SPARE CIRCUITS IN LIGHTING PANEL FROM TIME CLOCK. ALL WIRING IS TO BE 24" BELOW GRADE IN 3/4" SCHEDULE 80 CONDUIT WITH MARKING TAPE 12' BELOW GRADE.

1 LIGHTING PLAN
E2 SCALE: 1/32" = 1'-0"



10/6/2020

Lighting Design for:

CAROLINA LEGACY VOLLEYBALL
 Rolesville, North Carolina

LIGHTING PLAN

REVISIONS

DATE
 OCTOBER 5, 2020

E2