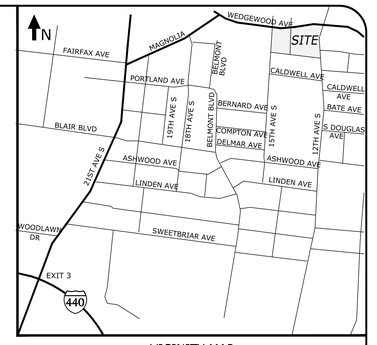
FINAL IO SITE PLAN

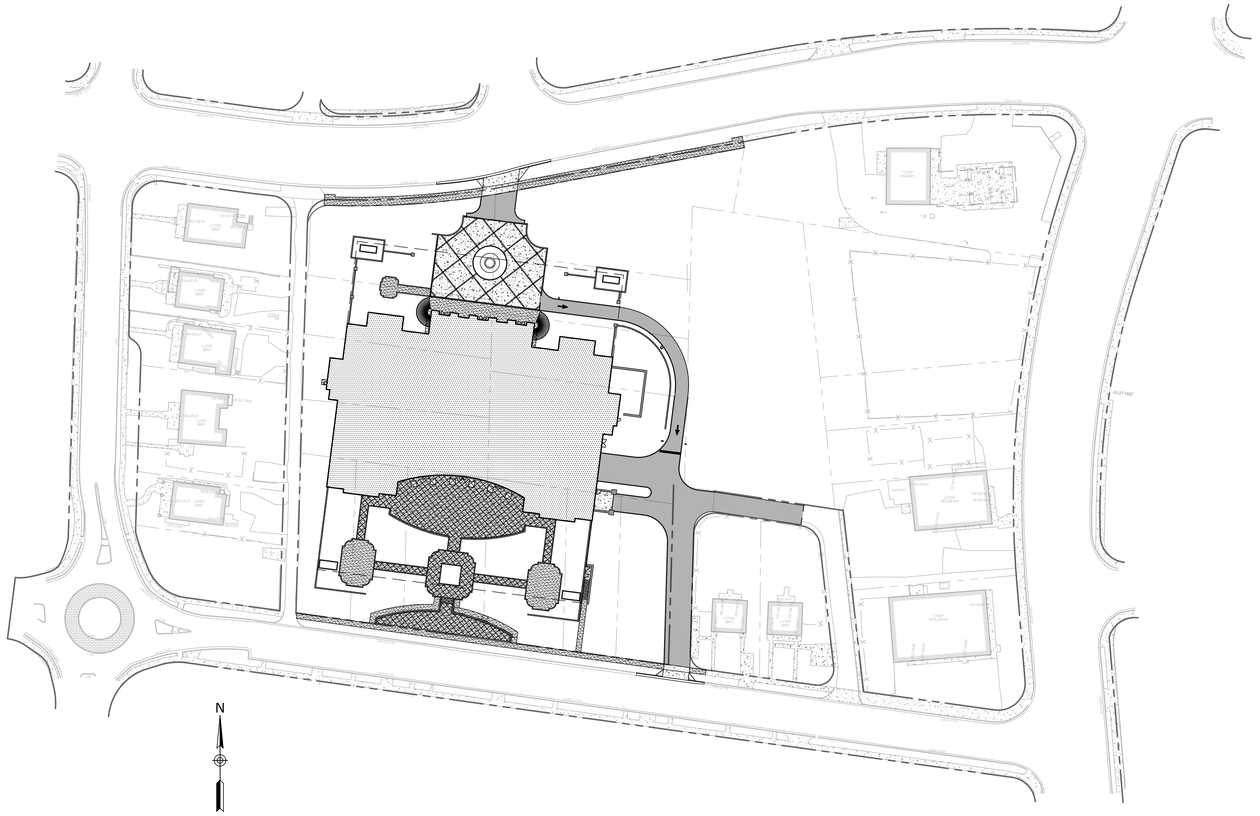
BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

NASHVILLE, DAVIDSON COUNTY, TENNESSEE

PLANNING CASE NO. 2018IN-001-007
GRADING PERMIT NO.: SWGR2021048669
PUBLIC UTILITY PROJECT: 21SL0182
CATALYST PROJECT NO. 20210121
SEPTEMBER 16, 2021



VICINITY MAP
NOT TO SCALE



SITE DATA

COUNCIL DISTRICT:	18
COUNCIL MEMBER:	TOM CASH
TAX MAP:	105-09
PARCEL ID.:	23-29, 36-42
SITE ADDRESS:	1800 14TH AVE S NASHVILLE, TN 37212
SITE ACREAGE:	3.52 AC. (153,214.92 FT²)
EXISTING ZONING:	INSTITUTIONAL OVERLAY (IO) RM20 (BASE)
PROPOSED USE:	ACADEMIC BUILDING
GROSS SQUARE FOOTAGE:	189,000 S.F.
PROPOSED MAX. BUILDING HEIGHT:	6 STORIES
ALLOWED MAX. BUILDING HEIGHT:	8 STORIES (PER IO ZONING)
PARKING SUMMARY	
GARAGE TOTAL:	642 SPACES PROVIDED
GARAGE:	BELMONT UNIVERSITY
ADDRESS:	1900 BELMONT BLVD. NASHVILLE, TN, 37212
PHONE NO.:	615-460-6000
CONTACT NAME:	STEVE LASLEY
CONTACT E-MAIL ADDRESS:	steve.lasley@belmont.edu
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	5100 TENNESSEE AVENUE NASHVILLE, TN 37209
PHONE NO.:	615-622-7200
CONTACT NAME:	CALEB PAUL
CONTACT E-MAIL ADDRESS:	cpaul@catalyst-dg.com

FEMA PANEL:
THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 47037C0243 H, APRIL 5TH, 2017, COMMUNITY NAME: METRO GOVERNMENT OF NASHVILLE - DAVIDSON COUNTY.

Sheet List Table

BELMONT INSTITUTIONAL OVERLAY AREA TABLE

	GRAND ENTRY	ACADEMIC CORE	BELMONT BLVD. A & E	SOUTH CAMPUS MIXED USE	RESIDENTIAL CAMPUS	TOTAL
EXIST. BLDG AREA TOTAL	502,298	864,117	477,974	126,650	829,029	2,800,068
EXIST. BLDG AREA DEM.	18,000	0	0	0	0	18,000
OTHER BLDG. AREA	189,000	0	0	0	0	189,000
BLDG. AREA NET TOTAL	673,298	864,117	477,974	126,650	829,029	2,971,068
EXIST. BLDG. COVER TOTAL	146,537	232,569	250,698	132,445	130,999	890,708
EXIST. BLDG. COVER DEM.	18,000	0	0	0	0	18,000
OTHER BLDG. COVER	38,000	0	0	0	0	38,000
BLDG. COVER NET TOTAL	166,537	232,569	250,698	132,445	130,999	910,708
LAND AREA TOTAL	241,300	923,225	386,875	332,600	800,850	2,684,850
PERVIOUS AREA TOTAL	57,549	417,073	37,416	124,497	453,706	1,090,241
IMPERVIOUS AREA TOTAL	183,751	506,152	349,459	208,103	374,144	1,621,609
IMPERVIOUS/LAND RATIO	0.76	0.55	0.90	0.63	0.43	0.60

DEVELOPMENT NOTES

1. THE PURPOSED OF THIS PLAN IS TO PERMIT THE CONSTRUCTION OF A ~220,000 S.F., 6-STORY ACADEMIC BUILDING WITH UNDERGROUND PARKING WITHIN THE BELMONT UNIVERSITY INSTITUTIONAL OVERLAY DISTRICT.
2. THE FINAL SITE PLAN/ BUILDING PERMIT SITE PLAN SHALL DEPICT THE REQUIRED PUBLIC SIDEWALKS, ANY REQUIRED GRASS STRIP OR FRONTAGE ZONE AND THE LOCATION OF ALL EXISTING AND PROPOSED VERTICAL OBSTRUCTIONS WITHIN THE REQUIRED SIDEWALK AND GRASS STRIP OR FRONTAGE ZONE. PRIOR TO THE ISSUANCE OF USE AND OCCUPANCY PERMITS, EXISTING VERTICAL OBSTRUCTIONS SHALL BE RELOCATED OUTSIDE OF THE REQUIRED SIDEWALK. VERTICAL OBSTRUCTIONS ARE ONLY PERMITTED WITHIN THE REQUIRED GRASS STRIP OR

ARCHITECT
EARL SWENSSON ASSOCIATES, INC.
1033 DEMONBREUN ST. #800
NASHVILLE, TN, 37212
615-329-9445

PREPARED FOR
BELMONT UNIVERSITY
1900 BELMONT BLVD.
NASHVILLE, TN, 37212
615-460-6000

CIVIL ENGINEER
Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE
NASHVILLE, TN 37209
(615) 622-7200

CALEB L PAUL
REGISTERED ENGINEER
SIGNATURE
No. 124810
STATE OF TENNESSEE
9/16/21

COVER SHEET

C0.0

NOTES

1. SURVEYOR'S LIABILITY FOR THE DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITIES WITHOUT AN EXPRESSED RE-CERTIFICATION BY WHOSE SIGNATURE APPEARS UPON THE SURVEY.

2. PARCEL NUMBERS SHOWN AS THUS (00) REFER TO TAX MAP 105-09, DAVIDSON COUNTY, TENNESSEE.

3. ALL DISTANCES WERE MEASURED WITH E.D.M. EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.

4. THE TENNESSEE STATE PLANE COORDINATE SYSTEM IS THE BASIS FOR THIS SURVEY, AND WAS ESTABLISHED USING RTK-GPS POSITIONAL DATA THAT WAS ACQUIRED ON THE DATE OF DECEMBER 9, 2021 UTILIZING TRIMBLE R8S OR R10 DUAL FREQUENCY RECEIVERS. THE GRID COORDINATES OF THE SURVEY CONTROL POINT SHOWN HEREON WERE DERIVED USING A VRS NETWORK OF MULTIPLE TDOT CORS STATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, NAD 83 (2011) (EPOCH 2010) GEOID 12B. THE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED: H=0.2'/V=0.2'. THE COMBINED GRID FACTOR OF 0.99993823 WAS CALCULATED AT SURVEY CONTROL POINT #2 AS SHOWN HEREON.

5. THE PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD AREA AS INDICATED ON FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM INDEX MAP NUMBER 47037CINDOB, DATED APRIL 5, 2017. THE PROPERTY IS WITHIN THE NOT PRINTED FIRM PANEL NUMBER 47037C0243H.

6. THIS SURVEYOR WAS NOT PROVIDED WITH A TITLE COMMITMENT, THEREFORE THE PROPERTY IS SUBJECT TO THE FINDINGS OF A DETAILED TITLE SEARCH.

7. PRIOR TO ANY CONSTRUCTION, EXCAVATION OR ANY DISTURBANCE OF THE EXISTING GROUND ELEVATION, THE OWNER AND / OR CONTRACTOR SHOULD ASSUME RESPONSIBILITY OF CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATION OF UNDERGROUND GAS LINES, TELEPHONE LINES, ELECTRIC CABLES, WATER LINES, ETC. TO AVOID ANY HAZARD OR CONFLICT. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR EXCAVATION TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. DIAL 811 FOR A ONE CALL CENTER.

8. UTILITIES SHOWN WERE TAKEN FROM FIELD LOCATIONS THAT WERE APPARENT AND COPIED FROM APPROPRIATE GOVERNING AGENCIES MAPS AND ARE APPROXIMATE AT BEST. THERE MAY BE UTILITIES, THE EXISTENCE OF WHICH IS UNKNOWN TO THE SURVEYOR.

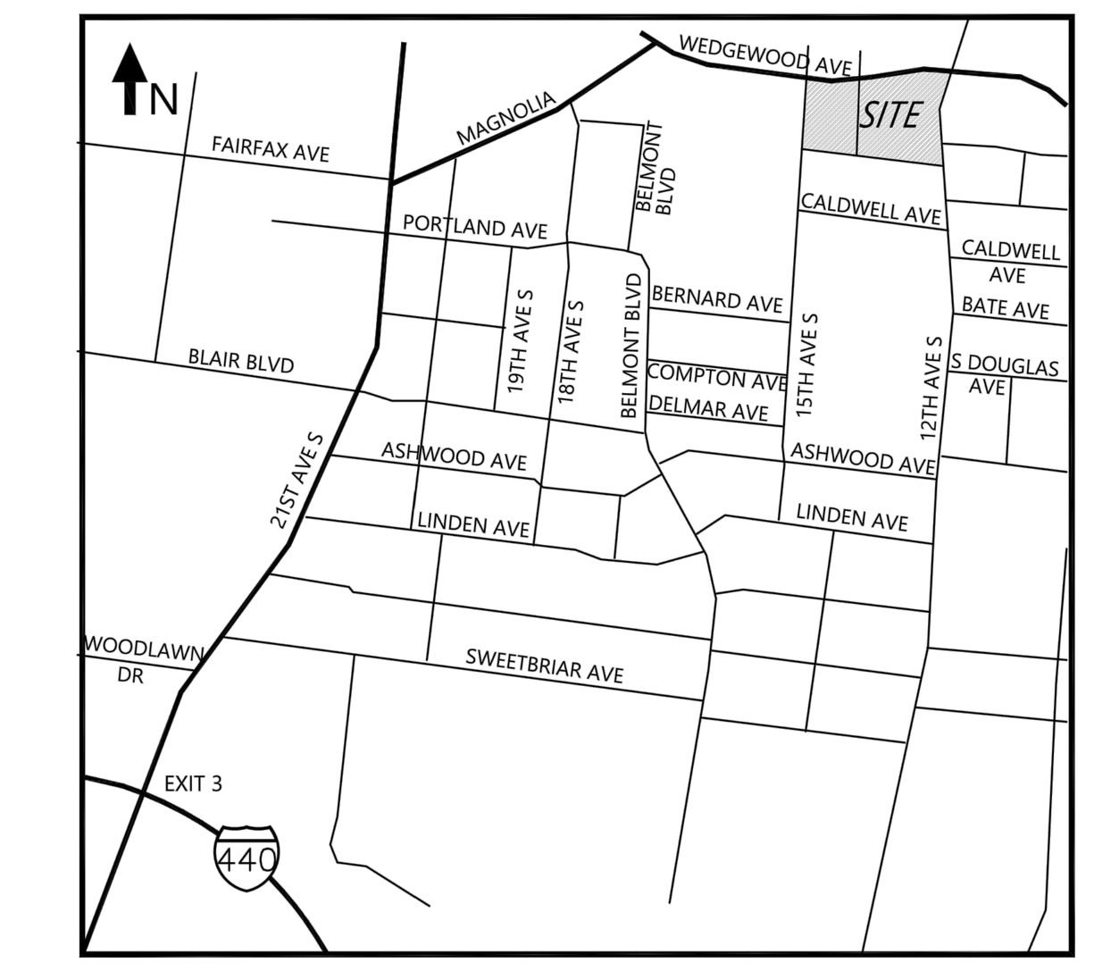
9. TOPOGRAPHIC INFORMATION WAS DERIVED BY RANDOM SHOTS PER FIELD SURVEY; CONTOUR INTERVAL IS 1'. DATUM BASED ON NAVD 88.

10. ALL DEED & PLAT REFERENCES ARE MADE TO THE REGISTER'S OFFICE OF DAVIDSON COUNTY, TENNESSEE (RODC).

11. SURVEY FIELD DATA COLLECTED ON FEBRUARY 8, 2021.

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD LENGTH
C1	46.24'	25.00'	105°58'01"	33.16'	S34°56'38"E	39.92'
C2	374.73'	940.00'	22°50'26"	189.88'	S06°37'09"W	372.25'
C3	44.81'	25.00'	102°42'10"	31.26'	S46°33'01"W	39.05'
C4	28.99'	20.00'	83°03'00"	17.71'	N39°53'24"W	26.52'
C5	24.44'	18.00'	77°47'06"	14.52'	N40°27'07"E	22.60'
C6	257.69'	1160.00'	12°43'41"	129.38'	N85°42'31"E	257.16'
C7	21.92'	15.00'	83°44'00"	13.44'	N40°13'54"W	20.02'
C8	33.84'	20.00'	96°57'00"	22.59'	N50°06'36"E	29.95'
C9	26.19'	20.00'	75°02'00"	15.36'	S43°53'54"E	24.36'
C10	27.30'	15.00'	104°17'00"	19.30'	S45°45'36"W	23.69'
C11	41.91'	25.00'	96°02'51"	27.79'	N49°47'26"E	37.17'
C12	27.76'	780.00'	2°02'21"	13.88'	S83°12'19"E	27.76'
C13	29.99'	20.00'	85°55'00"	18.62'	S41°15'59"E	27.26'
C14	43.74'	43.16'	58°03'41"	23.95'	N53°04'03"W	41.89'
C15	35.76'	239.00'	8°34'20"	17.91'	N19°45'03"W	35.72'
C16	4.51'	15.00'	17°13'54"	2.27'	N06°50'56"W	4.49'
C17	17.47'	16.00'	62°34'02"	9.72'	N29°31'01"W	16.62'
C18	6.55'	6.00'	62°34'02"	3.65'	N29°31'01"W	6.23'
C19	42.40'	25.00'	97°09'59"	28.34'	S47°01'26"E	37.50'
C20	31.47'	20.00'	90°08'26"	20.05'	N46°45'45"E	28.32'
C21	101.28'	780.00'	7°26'23"	50.71'	N88°06'46"E	101.21'



VICINITY MAP
NOT TO SCALE

LEGEND

PARCEL NO.	(XX)
LOT NO.	XX (circled)
IRON ROD (OLD)	IR(O)
IRON ROD (SET)	
IRON PIPE (OLD)	IP(O)
P K NAIL (OLD)	PK(O)
CONCRETE MON (OLD)	MON(O)
PROPERTY LINE	
FENCE LINE	X
CONTOUR LINE	-500-
OVERHEAD POWER LINE	OH
SANITARY SEWER LINE	8" SAN
STORM SEWER LINE	15" ST
WATER LINE	8" W
GAS LINE	2" G
TELEPHONE MANHOLE	T
TELEPHONE RISER	TR
TELEPHONE PEDESTAL	TP
ELECTRIC RISER	ER
ELECTRIC METER	E
TRAFFIC SIGNAL POST	
UTILITY POLE	
GUY WIRE	
UTILITY POLE W/ LIGHT	
SANITARY SEWER MANHOLE	S
STORM SEWER MANHOLE	D
CURB INLET	
CATCH BASIN	
CLEANOUT	CO
FIRE HYDRANT	
WATER METER	W
WATER VALVE	WV
IRRIGATION CONTROL VALVE	ICV
GAS METER	G
GAS VALVE	GV
SIGN POST	
BOLLARD	
FUEL VALVE	FV
MONITORING WELL	MW
UTILITY BOX	UB
TRAFFIC SIGNAL BOX	TSB
CONCRETE	

SITE DATA

PROPERTY LOCATED ON DAVIDSON COUNTY TAX MAP
MAP 105-09, PARCELS 9 - 14, 23 - 29, 36 - 43 & 45 - 52

CITY: NASHVILLE
COUNTY: DAVIDSON
STATE: TENNESSEE
COUNCIL DISTRICT: 18TH

LOT 1
SECTION THIRTY-FOUR REVISED, EDGEHILL ESTATES
P.B. 4715, PG. 86

LOTS 1 & 2
SECTION ONE HUNDRED TWENTY FOUR, EDGEHILL ESTATES
P.B. 5190, PG. 84

LOTS 2 - 5
BELMONT ARTS & SCIENCES BUILDING
I.N. 201210300099356

SITE ADDRESS:
PARCEL 9 - 1812 15TH AVE S
PARCEL 10 - 1810 15TH AVE S
PARCEL 11 - 1806 15TH AVE S
PARCEL 12 - 1804 15TH AVE S
PARCEL 13 - 1802 15TH AVE S
PARCEL 14 - 1800 15TH AVE S
PARCEL 23 - 1801 14TH AVE S
PARCEL 24 - 1803 14TH AVE S
PARCEL 25 - 1805 14TH AVE S
PARCEL 26 - 1807 14TH AVE S
PARCEL 27 - 1404 ACKLEN AVE
PARCEL 28 - 1402 ACKLEN AVE
PARCEL 29 - 1400 ACKLEN AVE
PARCEL 36 - 1800 14TH AVE S
PARCEL 37 - 1802 14TH AVE S
PARCEL 38 - 1804 14TH AVE S
PARCEL 39 - 1806 14TH AVE S
PARCEL 40 - 1318 ACKLEN AVE
PARCEL 41 - 1316 ACKLEN AVE
PARCEL 42 - 1314 ACKLEN AVE
PARCEL 43 - 1310 ACKLEN AVE
PARCEL 45 - 1306 ACKLEN AVE
PARCEL 46 - 1831 12TH AVE S
PARCEL 47 - 1827 12TH AVE S
PARCEL 48 - 1823 12TH AVE S
PARCEL 49 - 1813 12TH AVE S
PARCEL 50 - 1817 12TH AVE S
PARCEL 51 - ACKLEN AVE
PARCEL 52 - 1801 12TH AVE S
NASHVILLE, TN 37212

OWNERS:
LIVING TRUST OF RONALD O. &
MAXINE W. MILLER
905 VILLE PLACE
NASHVILLE, TN 37212
PARCEL 13 - I.N. 201708150083683

BELMONT UNIVERSITY
1900 BELMONT BLVD
NASHVILLE, TN 37212
PARCEL 23 - I.N. 200810010099650
PARCEL 24 - I.N. 200809290098464
PARCEL 28 - I.N. 200901020000345
PARCEL 39 - I.N. 200806190063081
PARCEL 46 - I.N. 200610300134145
PARCEL 48 - I.N. 201406240054810
PARCEL 49 - I.N. 200406160071412
PARCEL 50 - I.N. 200406160071412

BELMONT REAL ESTATE HOLDINGS I, LLC
1900 BELMONT BLVD
NASHVILLE, TN 37212
PARCEL 40 - I.N. 200906050052303
PARCEL 42 - I.N. 200906050052299

BELMONT REAL ESTATE HOLDINGS II, LLC
1900 BELMONT BLVD
NASHVILLE, TN 37212
PARCEL 9 - I.N. 200907070063631
PARCEL 10 - I.N. 201511170116692
PARCEL 11 - I.N. 201008310068930
PARCEL 12 - I.N. 200907070063632
PARCEL 14 - I.N. 200907070063630
PARCEL 25 - I.N. 200908110075647
PARCEL 26 - I.N. 200907300071209
PARCEL 27 - I.N. 201204190033695
PARCEL 29 - I.N. 201110250082914
PARCEL 36 - I.N. 200908110075648
PARCEL 37 - I.N. 202008030085418
PARCEL 38 - I.N. 200908110075646
PARCEL 41 - I.N. 201502050010764
PARCEL 47 - I.N. 200907140065873
PARCEL 51 - I.N. 201302200016623

HELEN M. YOUNG, TRUSTEES
929 KIRKWOOD AVE
NASHVILLE,TN 37204
PARCEL 43 - I.N. 200803060022766
PARCEL 45 - I.N. 200803060022765

1801 12TH AVENUE SOUTH, LLC
1900 BELMONT BLVD
NASHVILLE,TN 37212
PARCEL 52 - I.N. 201005070034999

SURVEYOR'S CERTIFICATE

I hereby certify that to the best of my knowledge and belief the hereon shown Boundary & Topographic Survey represents a Category "I" survey having an unadjusted ratio of precision greater than 1:10,000 and is true and correct.

By: L. Brandon Lambert Date: 2/22/21
L. Brandon Lambert TN Registered Surveyor No. 2828

658 GRASSMERE PARK DR
SUITE 100
NASHVILLE, TN 37211
(615) 385-4144
ENGINEERING FIRM
LICENSE NUMBER: F-0176

CATALYST
DESIGN GROUP
5100 TENNESSEE AVE
NASHVILLE, TN 37209

L. BRANDON LAMBERT REGISTERED LAND SURVEYOR AGRICULTURE COMMERCE TENNESSEE NO. 2828 2/22/21

NO.	DATE	BY DESCRIPTION	BY	CHK	APV

BOUNDARY & TOPOGRAPHIC SURVEY

BELMONT WEDGEWOOD
TAX MAP 105-09, PARCELS 9-14, 23-29, 36-43 & 45-52
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

PROJECT NUMBER
554920031
DATE
2/22/21
SHEET 1 OF 2

BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY S&ME, INC., DATED FEBRUARY 22, 2021. CATALYST DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 622-7200 | WWW.CATALYST-DG.COM

Seals

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description FINAL IO SITE PLAN
Original Issue Date SEPTEMBER 16, 2021
Project No 20210121
Drawn By
Checked By
Drawing Title

SITE BOUNDARY SURVEY

Sheet Number
C1.0

DRAWING PATH: L:\Survey\Projects\2020\5549-20-031_Catalyst Design Group_Belmont Wedgewood_Nashville\CAD\Survey\554920031_2020-Dec_B&T.dwg

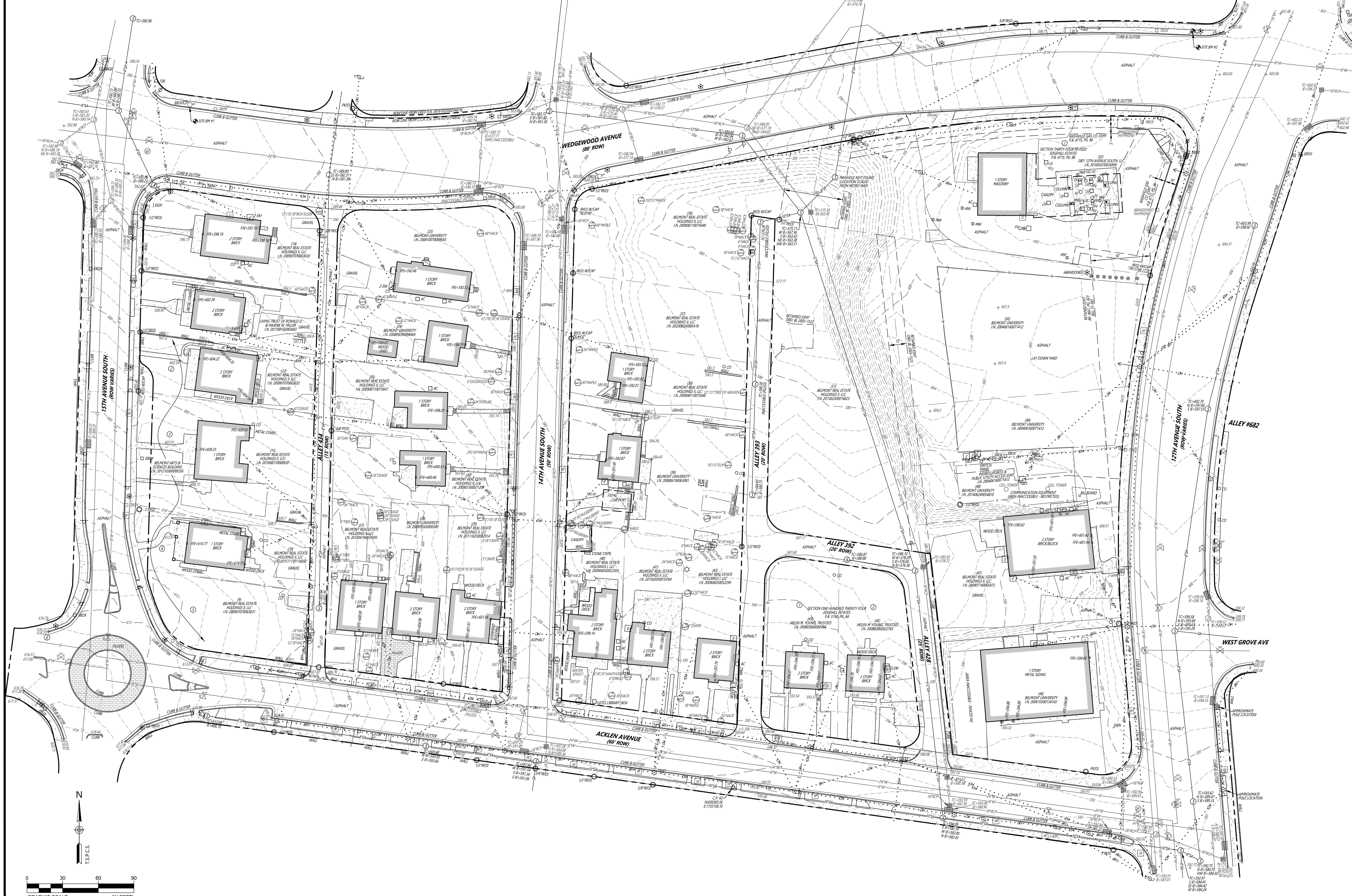
P:\2020\20200121\dwg\Construction\20200121_C1.0_EX1.dwg-C1.0 SITE BOUNDARY SURVEY Sep 15, 2021 cpaul

SEE SHEET 1 FOR NOTES, SITE DATA, VICINITY MAP AND LEGEND.

SITE BM #1: TAG BOLT #01207 ON FIRE HYDRANT LOCATED NEAR NORTHEAST ROW INTERSECTION OF WEDGEWOOD AVE AND 15TH AVE S.
ELEV: 594.65

SITE BM #2: TAG BOLT #06707 ON FIRE HYDRANT LOCATED NEAR NORTHWEST ROW INTERSECTION OF WEDGEWOOD AVE AND 12TH AVE S.
ELEV: 605.17

PROJECT BM:
NAVD 88 (GPS DERIVED)



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P:\2020\20200121\dwg\Construction\20200121_C1.0_EXI.dwg-C1.1 SITE TOPOGRAPHIC SURVEY Sep 15, 2021 cpaul

S&ME
658 GRASSMERE PARK DR
SUITE 100
NASHVILLE, TN 37211
(615) 385-4144

ENGINEERING FIRM
LICENSE NUMBER: F-0176

CATALYST
DESIGN GROUP
5100 TENNESSEE AVE
NASHVILLE, TN 37209

L. BRANDON LAMBERT — REGISTERED LAND SURVEYOR — TENNESSEE NO. 2828 — AGRICULTURE COMMERCE — 2/22/21

NO.	DATE	BY DESCRIPTION	BY	CHK	APV

BOUNDARY & TOPOGRAPHIC SURVEY

BELMONT WEDGEWOOD
TAX MAP 105-09, PARCELS 9-14, 23-29, 36-43 & 45-52
NASHVILLE, DAVIDSON COUNTY, TENNESSEE

PROJECT NUMBER
554920031

DATE
2/22/21

SHEET 2 OF 2

BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY S&ME, INC., DATED FEBRUARY 22, 2021. CATALYST DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 622-7200 | WWW.CATALYST-DG.COM

Seals

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By

Drawing Title

SITE TOPOGRAPHIC SURVEY

Sheet Number

C1.1

EROSION CONTROL NOTES

1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INSTALLED PER LOCAL AND STATE REQUIREMENTS PRIOR TO ANY EARTH MOVING ACTIVITIES.
2. PROVIDE CONSTRUCTION ENTRANCE/EXIT AS DETAILED ON THE PLANS AND PER LOCAL REQUIREMENTS. MAINTAIN ENTRANCE/EXIT THROUGHOUT CONSTRUCTION AND MAINTAIN THE PUBLIC ROADWAY FREE OF TRACKED MUD AND DIRT.
3. EPSC MEASURES SHALL BE INSTALLED AND INSPECTED BY LOCAL OFFICIALS (IF REQUIRED) PRIOR TO BEGINNING EARTH MOVING OPERATIONS. EPSC MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
4. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THE SITE, AS WELL AS LOCAL AND STATE REQUIREMENTS. THE CONTRACTOR SHALL ALSO PROVIDE THE CERTIFIED EROSION CONTROL INSPECTOR AND CONTINUAL MAINTENANCE OF THE EPSC MEASURES.
5. AS THE WORK PROGRESSES THE LOCATION AND TYPE OF MEASURES MAY REQUIRE ADJUSTMENTS. TEMPORARY MEASURES MAY BE REQUIRED IN CERTAIN AREAS THAT CAN BE REMOVED DURING THE WORK DAY AND RE-ESTABLISHED WHEN WORK CEASES FOR THE DAY OR PRIOR TO A DAYTIME RAIN EVENT.
6. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL MEASURES WHEN THE DESIGN CAPACITIES HAVE BEEN REDUCED BY 50% OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY. PROPERLY DISPOSE OF ACCUMULATED SEDIMENT.
7. THE CONTRACTOR SHALL PROVIDE A RAIN GAUGE AT THE SITE AND DOCUMENT RAINFALL EVENTS DURING THE CONSTRUCTION PERIOD.
8. THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING RECORDS AT THE SITE: DATE WHEN MAJOR GRADING ACTIVITIES OCCUR, THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE, THE DATES WHEN STABILIZATION MEASURES ARE INITIATED, INSPECTION RECORDS, AND RAINFALL EVENTS.
9. EXISTING SITE VEGETATION SHALL REMAIN IN PLACE AS LONG AS POSSIBLE AND SHALL NOT BE REMOVED MORE THAN 10 DAYS PRIOR TO THE DATE AT WHICH EARTH MOVING OPERATIONS ARE TO BEGIN UNLESS TEMPORARY COVER IS INSTALLED. DO NOT REMOVE VEGETATION OR TREES UNLESS NECESSARY FOR GRADING OR OTHER PROJECT PURPOSES.
10. THE CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME THE SITE SOILS ARE EXPOSED TO EROSION. PROVIDE TEMPORARY COVER AS NECESSARY.
11. EPSC MEASURES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED AND WHEN DEEMED NO LONGER NEEDED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL REQUEST UTILITY LOCATION (811) AND VERIFY LOCATION OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
2. THE CONTRACTOR SHALL PROTECT PROPERTY BOUNDARY PINS AND SURVEY CONTROL POINTS FROM DAMAGE.
3. THE CONTRACTOR SHALL COMPLY WITH EROSION CONTROL REQUIREMENTS AND INSTALL NECESSARY EPSC MEASURES AND CONSTRUCTION ENTRANCE/ EXIT PRIOR TO DISTURBING EXISTING VEGETATION. THE CONTRACTOR SHALL ALSO USE WATER SPRINKLING OR OTHER MEASURES TO CONTROL DUST AND OTHER AIRBORNE DEBRIS RESULTING FROM DEMOLITION.
4. TREE PROTECTION MEASURES SPECIFIED IN THESE PLANS SHALL BE INSTALLED PRIOR TO BEGINNING DEMOLITION OPERATIONS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR DEMOLITION AND TREE REMOVAL.
6. THE CONTRACTOR MAY BE REQUIRED TO PHASE THE DEMOLITION TO MAINTAIN EXISTING UTILITY SERVICES, PROPER DRAINAGE OR ACCESS TO THE SITE OR ADJOINING SITES. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTION OF EXISTING ACTIVE UTILITIES AND TRAFFIC PATTERNS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND PROVIDE A DEMOLITION PHASING SCHEDULE WHERE REQUESTED.
7. UTILITY AND STORM SEWER LINES SHOULD NOT BE DEMOLISHED UNTIL NEW OR RELOCATED LINES HAVE BEEN INSTALLED AND ARE OPERATIONAL.
8. THE CONTRACTOR SHALL INCLUDE IN THEIR COST ANY ISOLATION VALVES OR TEMPORARY MEASURES REQUIRED TO ACCOMPLISH RELOCATIONS AND DEMOLITION OF UTILITIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH THE PROPOSED WORK.
10. PAVEMENTS, SIDEWALKS, CURBS AND OTHER HARD SURFACES SHALL BE EVENLY SAW CUT AT THE LIMITS OF REMOVAL TO PROVIDE A CLEAN EDGE. COORDINATE LIMITS OF REMOVAL WITH PROPOSED CONSTRUCTION INCLUDING GRADING, UTILITY INSTALLATION, PROPOSED LAYOUT, ETC.
11. EXISTING SITE FEATURES NOTED AS BEING ABANDONED MAY BE ABANDONED IF THE ITEMS ARE LOCATED MORE THAN 24" BELOW FINAL SUBGRADES (TO TOP OF PIPE OR OTHER FEATURE) AND NOT LOCATED WITHIN THE PROPOSED FUTURE BUILDING FOOTPRINTS. ENDS OF PIPES SHALL BE SEALED WITH CONCRETE.
12. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S COST UNLESS NOTED TO BE PROVIDED TO THE OWNER.
13. CAVITIES LEFT BY DEMOLITION SHALL BE PROPERLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
14. WHERE EXISTING IRRIGATION LINES ARE LOCATED WITHIN THE AREA OF CONSTRUCTION, THEY SHALL BE PROTECTED OR RE-ROUTED AND CONNECTED TO MAINTAIN OPERATION OF LANDSCAPE AREAS WHICH REMAIN DURING CONSTRUCTION. COORDINATE TEMPORARY MEASURES WITH DESIGN OF NEW SYSTEM AND REMOVE TEMPORARY MEASURES WHEN NO LONGER NEEDED.

TREE PROTECTION NOTES

1. INSTALL TREE PROTECTION PRIOR TO DEMOLITION OR EARTH MOVING OPERATIONS ON SITE IN ACCORDANCE WITH THE DETAIL AND NOTES PROVIDED IN THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION TO ENSURE THE TREE PROTECTION MEASURES ARE INSTALLED IN THE PROPER LOCATIONS.
3. THE TREE PROTECTION MEASURES SHALL CONSIST OF 48" TALL CHAIN LINK FENCE WITH STEEL TEE POSTS OR ORANGE CONSTRUCTION BARRICADE FENCE. PRIOR TO CONSTRUCTION OPERATIONS, TREE PROTECTION FENCE INSTALLATION SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AND GOVERNING AUTHORITY IF REQUIRED.
4. ANY GRADING OR EXCAVATION WITHIN THE PROTECTED ROOT ZONE SHALL BE ACCOMPLISHED BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE DAMAGE.
5. ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS SHALL BE PRUNED FLUSH WITH THE GROUND AND COVERED WITH BACKFILL AS SOON AS POSSIBLE. IF CONSTRUCTION OPERATIONS WILL DELAY THE PLACEMENT OF BACKFILL THE ROOTS SHALL BE TEMPORARILY COVERED WITH MULCH AND WATERED UNTIL BACKFILL OPERATIONS CAN BE ACCOMPLISHED.
6. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF TREES TO BE PRESERVED.
7. WHEN GRADING OR TRENCHING OPERATIONS ARE DIRECTED WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, THE ROOTS SHALL FIRST BE CUT USING A "DITCH WITCH" OR SIMILAR EQUIPMENT TO PROVIDE A CLEAN CUT OF THE ROOTS AT THE LIMIT OF DISTURBANCE, PRIOR TO USE OF OTHER GRADING MACHINERY. ONCE THE ROOTS HAVE BEEN CUT AS NOTED ALL EQUIPMENT SHALL BE RESTRICTED FROM ENTERING THE AREA BETWEEN THE CUT LINE AND TREE TRUNK. TRENCHES SHALL BE BACKFILLED AND TAMPED TO MINIMIZE SETTLEMENT.
8. BARRICADES SHALL BE INSTALLED WITHIN THE LIMITS OF PROPOSED PAVEMENTS WHEN EXTENDING UNDER THE DRIP LINE OF TREES TO BE PRESERVED UNTIL OPERATIONS TO CONSTRUCT THE PAVED AREAS ARE INITIATED. THEN THE BARRICADES CAN BE RELOCATED TO PROVIDE THE MINIMUM AREA NECESSARY FOR CONSTRUCTION OF THE PROPOSED WORK AND SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
9. PROVIDE WATERING OF SPECIMEN TREES DURING CONSTRUCTION DURING PERIODS OF DROUGHT EXCEEDING SEVEN DAYS. EVENLY DISTRIBUTE WATER OVER THE ENTIRE ROOT ZONE.
10. ROOT ZONE AREAS OF TREES THAT HAVE BEEN COMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE AERATED AT THE DIRECTION OF A QUALIFIED ARBORIST.
11. HOSE DOWN FOLIAGE OF SPECIMEN TREES SUBJECT TO HEAVY ACCUMULATION OF DUST FROM CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FROM MAINTAINING THE GRASS TO LESS THAN 12" IN HEIGHT WITHIN THE AREAS OF TREE PROTECTION DURING THE CONSTRUCTION PERIOD. DO NOT USE HERBICIDES TO CONTROL VEGETATION WITH IN THE TREE PROTECTION AREA.
13. REMOVAL OF TREE PROTECTION FENCING SHALL NOT OCCUR UNTIL APPROVED BY THE GOVERNING AUTHORITY WHERE REQUIRED, OR THE OWNER'S REPRESENTATIVE. ALL REMNANTS OF THE FENCING SHALL BE REMOVED AND RESTORATION OF THE AREAS SHALL BE COMPLETED.

GENERAL NOTES

1. SUBJECT PROPERTY SHOWN ON TAX MAP 105-09, PARCEL 23-29, 36-42 OF THE DAVIDSON COUNTY TAX MAPS.
2. SITE EXISTING CONDITIONS TAKEN FROM SURVEY BY SAME, INC. DATED FEBRUARY 22, 2021. CATALYST DESIGN GROUP SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF OR OMISSIONS FROM THE EXISTING CONDITIONS OR ERRORS RESULTING FROM THESE ITEMS.
3. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO CONSTRUCTION AND MAKE THE ENGINEER AWARE OF ANY INCONSISTENCIES BETWEEN THE SITE CONDITIONS AND EXISTING CONDITION PLAN.
4. DIMENSIONS PROVIDED ON THE PLAN ARE TAKEN TO THE FACE OF CURBS, EDGE OF CONCRETE OR EDGE OF BUILDING.
5. SITE CONTROL SHALL BE BASED OFF THE REFERENCE POINTS PROVIDED. SEE THE ARCHITECTURAL PLANS FOR LAYOUT CONTROL OF BUILDING ADDITIONS.
6. CATALYST DESIGN GROUP RECOMMENDS THAT CONSTRUCTION STAKING BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.
7. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR UTILITY LOCATION (CALL 811) AND HAVE THE UTILITIES MARKED BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH THE UTILITY LOCATIONS, PROTECT UTILITIES WHICH REMAIN IN SERVICE, AND REPAIR ANY DAMAGE TO UTILITY SYSTEMS PER THE UTILITY PROVIDER REQUIREMENTS.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO PERMIT REQUIREMENTS AS WORK PROCEEDS.
9. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PUBLIC ROADWAYS, CURBS AND SIDEWALKS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AT CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCIES AT CONTRACTOR'S EXPENSE.
11. ACCESSIBLE PATHS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5%, CROSS SLOPE OF 2% AND MAXIMUM 2% SLOPE IN ANY DIRECTION WITHIN TURNING MOVEMENTS AND THE ACCESSIBLE PARKING SPACES / ACCESS AISLES. RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12 AND CROSS SLOPES AT 2% MAXIMUM. CURB RAMPS SHALL HAVE A LANDING AT THE TOP MATCHING THE WIDTH OF THE RAMP AND A MINIMUM DEPTH OF 36". RAMPS SHALL HAVE A 5' X 5' LANDING AT THE TOP AND BOTTOM OF THE RAMP.
12. WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL AND STATE REQUIREMENTS.
13. ON SITE ASPHALT PAVEMENT MATERIALS SHALL BE PER LOCAL AND STATE SPECIFICATIONS.
14. THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS AND PRECAUTIONS.

SITE GRADING & EROSION CONTROL NOTES

1. THE DISTURBED AREA FOR THIS PROJECT IS ESTIMATED TO BE ±3.89 ACRES.
2. THE SUBJECT PROPERTY DOES NOT LIE LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 47037C0243 H OF THE FEMA FLOOD INSURANCE MAPS FOR DAVIDSON COUNTY, TENNESSEE, DATED APRIL 5TH, 2017.
3. FOLLOW THE DIRECTIVES OF THE EROSION CONTROL AND TREE PROTECTION NOTES INCLUDED ELSEWHERE IN THESE DOCUMENTS.
4. THE CONTRACTOR SHALL REQUEST UTILITY LOCATION (811) AND VERIFY LOCATION OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
5. THE CONTRACTOR SHALL CHECK EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
6. THE CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO INITIATING GRADING OPERATIONS.
7. POSITIVE DRAINAGE SHALL BE ESTABLISHED INITIALLY AND MAINTAINED THROUGHOUT CONSTRUCTION.
8. LOCATION OF DIVERSION DITCHES SHALL BE ADJUSTED IN THE FIELD TO AVOID TREES AND OTHER EXISTING FEATURES.
9. STRIP TOPSOIL FROM PROPOSED GRADING AREAS AND STOCKPILE FOR REUSE. PROVIDE TEMPORARY SEEDING FOR STOCKPILE AREAS DURING CONSTRUCTION. REDISTRIBUTE TOPSOIL AT A MINIMUM DEPTH OF 6" IN LAWN AREAS AND 18" IN LANDSCAPE BEDS. PROVIDE ADDITIONAL TOPSOIL WHEN ONSITE QUANTITIES ARE INSUFFICIENT.
10. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL REPRESENTATIVE PRIOR TO BEING HAULED TO THE SITE. MATERIAL SHALL BE PLACED AND COMPACTED IN LIFT DEPTHS AS NOTED IN THE SPECIFICATIONS AND INSPECTED BY THE GEOTECHNICAL REPRESENTATIVE. SUBGRADES SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND GEOTECHNICAL REPRESENTATIVE'S DIRECTIONS. SOFT AREAS SHALL BE REMOVED AND RECOMPACTED AS DIRECTED.
11. THE CONTRACTOR SHALL, AT THEIR COST, PROVIDE OFFSITE MATERIAL MEETING THE GEOTECHNICAL REQUIREMENTS WHERE ONSITE SOIL QUANTITIES ARE NOT SUFFICIENT, AND REMOVE ONSITE MATERIALS WHEN EXCESSIVE QUANTITIES EXIST. SITES USED TO OBTAIN OR WASTE THIS MATERIAL SHALL BE PROPERLY PERMITTED AS REQUIRED BY THE GOVERNING AUTHORITY.
12. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III WALL B. HDPE PIPE SHALL BE TYPE N-12, SMOOTH INTERIOR, CORRUGATED EXTERIOR. ALL PIPES SHALL BE PROVIDED WITH SOIL TIGHT JOINTS.
13. PIPES UNDER EXISTING PAVEMENT AREAS SHALL BE COMPLETELY BACKFILLED WITH CRUSHED STONE.
14. TOP OF GRATE ELEVATIONS AND COORDINATE LOCATIONS FOR DRAINAGE STRUCTURES SHALL BE PROVIDED PER THE DETAILS AND DRAINAGE TABLES.
15. COORDINATE THE LOCATION OF SITE DRAINAGE SYSTEMS WITH THE BUILDING ARCHITECTURE AND PLUMBING PLANS FOR COLLECTION OF ROOF DRAINS AND DOWNSPOUTS.
16. ADJUST THE CASTINGS OF ALL EXISTING AND NEW STRUCTURES TO MATCH PROPOSED FINISH GRADE.
17. THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND SPOT ELEVATIONS AND REQUEST INFORMATION FROM THE ENGINEER FOR SPOTS OR CONTOURS THAT DO NOT APPEAR TO CORRESPOND WITH OTHER SURROUNDING GRADING. PROPOSED GRADES REFLECT AN INTENT FOR THE SLOPES AND DIRECTION OF DRAINAGE. THE CONTRACTOR SHALL REQUEST DIRECTION FOR AREAS WHERE THE INTENT IS NOT CLEAR.
18. MAXIMUM CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL UNLESS DIRECTLY NOTED OTHERWISE ON THE PLAN. FILL SLOPES SHALL BE CONSTRUCTED BY FILLING BEYOND THE DESIRED GRADES TO OBTAIN COMPACTION AND THEN CUT BACK TO THE DESIRED GRADES.
19. MINIMUM GRADES ON PAVEMENT AREAS SHALL BE 1%, AND MINIMUM 2% IN LAWN AREAS UNLESS DIRECTLY SPECIFIED.
20. MAXIMUM GRADES WITHIN ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE 2% IN ANY DIRECTION. WITHIN ACCESSIBLE PATHS MAXIMUM SLOPES FOR SIDEWALKS SHALL BE 5%, FOR RAMPS SHALL BE 1:12, AND CROSS SLOPES SHALL BE 2%. TURNING MOVEMENTS SHALL BE 5'X5' MAXIMUM 2% IN ANY DIRECTION.
21. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
22. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS AFTER FINAL GRADING IS ACHIEVED.
23. THE CONTRACTOR SHALL PROVIDE AS-BUILT SURVEYS OF THE EXCAVATED BIO-RETENTION AREAS PRIOR TO THE SPECIALTY SOIL AND GRAVEL BEING INSTALLED. AS-BUILTS OF COMPLETED BIO-RETENTION AREAS, OTHER WATER QUALITY MEASURES, DETENTION/RETENTION AREAS AND PUBLIC STORM SYSTEMS SHALL ALSO BE PROVIDED. SURVEYS SHALL BE STAMPED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.

SITE UTILITY NOTES

1. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE TO THE GOVERNING AUTHORITY'S REQUIREMENTS AND SPECIFICATIONS.
2. SANITARY SEWER LINES SHALL BE AS SPECIFIED ON THE PLANS. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 52, POLYVINYLCHLORIDE PIPE (PVC) SHALL BE SDR 35.
3. THE CONTRACTOR SHALL REQUEST UTILITY LOCATION (811) AND VERIFY LOCATION OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF EACH UTILITY AND VERIFY THE SCOPE OF INSTALLATIONS OR RELOCATIONS THAT WILL BE REQUIRED AND IMPACT EACH COULD HAVE ON THE SCHEDULE OF THE PROJECT.
5. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES WHERE POSSIBLE. IN AREAS WHERE THESE CRITERIA CANNOT BE MET, PROVIDE 18" OF VERTICAL SEPARATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCING OF INSTALLATION OF THE UTILITIES TO AVOID CONFLICTING HORIZONTAL AND VERTICAL LOCATIONS.
7. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF THE PROPOSED SEWER CONNECTION POINT PRIOR TO INSTALLATION OF NEW LINES. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE UTILIZING THE CORING AND RESILIENT SEAL METHOD.
9. THE CONTRACTOR SHALL VERIFY ANY PIPE LENGTHS, MATERIALS AND SIZES PROVIDED ON THE PLANS WITH FIELD CONDITIONS.
10. MINIMUM SLOPE OF 6" SANITARY SEWER SERVICES SHALL BE 1%. INSTALL PER INVERTS PROVIDED ON THE PLAN AND WITH A MINIMUM 48" OF COVER WITHIN ROADWAYS AND 30" OF COVER WITHIN LANDSCAPE AREAS.
11. MARK THE LOCATION OF PVC LINES WITH A #8 WIRE.
12. TRENCHES WITHIN EXISTING PAVEMENTS SHALL BE EVENLY SAW CUT FOR REMOVAL AND COMPLETELY BACKFILLED WITH CRUSHED STONE. REPAIR ROADWAYS PER GOVERNING AGENCY STANDARDS.
13. PROVIDE A MINIMUM OF 36" OF COVER OVER ALL WATER AND FIRE LINES.
14. ALL FIRE LINES SHALL BE INSTALLED FROM THE POINT OF CONNECTION TO THE BUILDING BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE PROJECT.
15. COORDINATE THE EXACT LOCATION OF THE BUILDING SERVICES WITH THE PLUMBING PLANS.
16. PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL BENDS AND BLOCKING/RODDING ON WATER/FIRE LINES TO ACHIEVE THE PROPOSED ALIGNMENT SHOWN ON THE PLANS.
17. BEFORE CONNECTIONS ARE MADE TO EXISTING LINES, INSTALLED LINES SHALL BE FLUSHED, TESTED, AND APPROVED BY THE GOVERNING AUTHORITY IN ACCORDANCE WITH THEIR REQUIREMENTS.
18. REPAIR DAMAGE TO EXISTING FEATURES TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS IN A TIMELY MANNER.
19. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
20. EXISTING AND NEW CASTINGS SHALL BE ADJUSTED TO MATCH FINISH GRADE.
21. COORDINATE GAS SERVICE, ELECTRICAL SERVICE, AND COMMUNICATION SERVICES WITH THE APPROPRIATE PROVIDER AND PAY NECESSARY FEES FOR INSTALLATION.

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STATE OF TENNESSEE

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007
WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description FINAL IO SITE PLAN
Original Issue Date SEPTEMBER 16, 2021
Project No 20210121
Drawn By | Checked By
Drawing Title

GENERAL NOTES

Sheet Number

C2.0

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DEMOLITION KEYNOTES	
CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D2	REMOVE EXISTING CONCRETE PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
D4	REMOVE EXISTING CONCRETE CURB
D5	EVENLY SAWCUT
D6	REMOVE EXISTING GRAVEL
D7	REMOVE EXISTING DRAINAGE STRUCTURE
D8	REMOVE EXISTING STORM LINE
D9	REMOVE EXISTING WATERLINE & APPURTENANCES
D10	REMOVE EXISTING SANITARY SEWER LINE
D11	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D12	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE
D13	EXISTING HYDRANT TO BE RELOCATED
D14	REMOVE EXISTING TREE

LEGEND	
BUILDING TO BE REMOVED	
CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	
TREES TO BE REMOVED	

0 10 20 40 60
GRAPHIC SCALE

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10/15/21

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

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Drawn By	Checked By

Drawing Title

DEMOLITION PLAN

Sheet Number

C4.0

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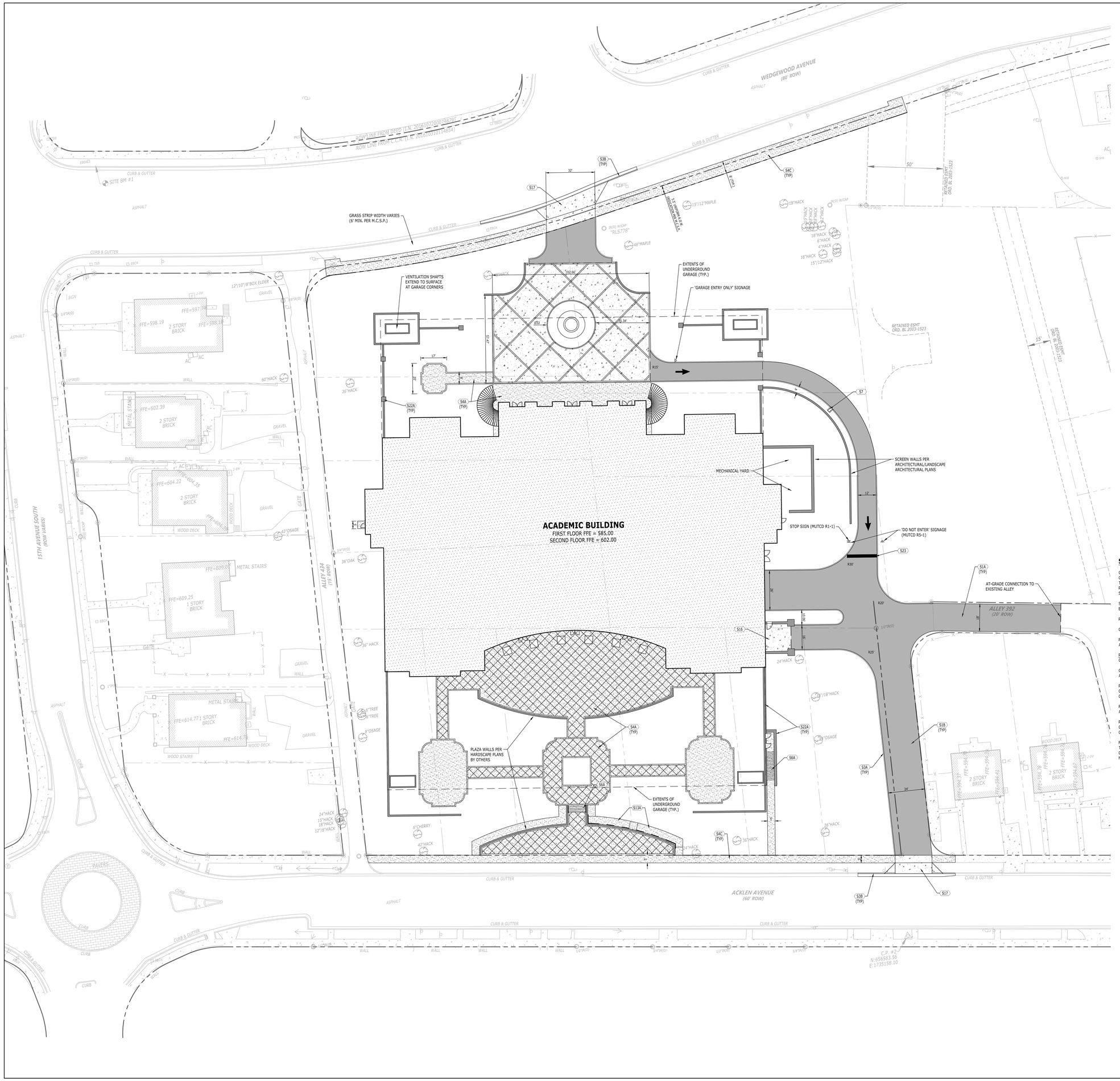

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET # / SHT #
S1A	ALLEY PAVEMENT (METRO ST-263)	10 / C8.2
S1B	ASPHALT PAVEMENT - HEAVY DUTY	11 / C8.0
S1C	ASPHALT PAVEMENT - OVERLAY	
S2	CONCRETE PAVEMENT	8 / C8.0
S3A	CONCRETE POST CURB	12 / C8.0
S3B	CONCRETE CURB & GUTTER (METRO ST-200)	1 / C8.0
S4A	CONCRETE SIDEWALK (PRIVATE)	9 / C8.0
S4B	CONCRETE SIDEWALK WITH TURN DOWN CURB	
S4C	CONCRETE SIDEWALK (METRO ST-210)	2 / C8.0
S5	SIDEWALK JOINTS (METRO ST-209)	3 / C8.0
S6A	CONCRETE STAIRS WITH HANDRAIL	14 / C8.0
S6B	CONCRETE STAIRS WITH HANDRAIL/GUARDRAIL	
S7	DRAINAGE CURB CUT	15 / C8.0
S10A	ACCESSIBLE RAMP	7 / C8.0
S10B	ACCESSIBLE WINGED RAMP	
S13A	RAMP WITH HANDRAIL	13 / C8.0
S14	BOLLARD	17 / C8.0
S15	UTILITY PAD	
S16	CONCRETE DUMPSTER PAD	18 / C8.0
S17	DRIVEWAY RAMP (METRO ST-324)	5 / C8.0
S18	DIRECTIONAL ARROWS	19 / C8.0
S19	PEDESTRIAN CROSSWALK	20 / C8.0
S21A	GUARDRAIL	16 / C8.0
S22A	CONCRETE RETAINING WALL (SEE STRUCTURAL PLANS)	
S22B	SEGMENTAL RETAINING WALL	
S23	PAINTED STOP BAR (24")	21 / C8.0

LEGEND

BUILDING	
CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
HEAVY DUTY PAVEMENT	
LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	
TACTILE WARNING	

SITE DATA

COUNCIL DISTRICT:	18
COUNCIL MEMBER:	TOM CASH
TAX MAP:	105-09
PARCEL ID.:	23-29, 36-42
SITE ADDRESS:	1800 14TH AVE S NASHVILLE, TN 37212
SITE ACREAGE:	3.52 AC. (153,214.92 FT²)
EXISTING ZONING:	INSTITUTIONAL OVERLAY (IO) RM20 (BASE)
PROPOSED USE:	ACADEMIC BUILDING
GROSS SQUARE FOOTAGE:	189,000 S.F.
PROPOSED MAX. BUILDING HEIGHT:	6 STORIES
ALLOWED MAX. BUILDING HEIGHT:	8 STORIES (PER IO ZONING)
PARKING SUMMARY	
GARAGE TOTAL:	642 SPACES PROVIDED
GARAGE:	BELMONT UNIVERSITY
ADDRESS:	1900 BELMONT BLVD. NASHVILLE, TN, 37212
PHONE NO.:	615-460-6000
CONTACT NAME:	STEVE LASLEY
CONTACT E-MAIL ADDRESS:	steve.lasley@belmont.edu
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	5100 TENNESSEE AVENUE NASHVILLE, TN 37209
PHONE NO.:	615-622-7200
CONTACT NAME:	CALEB PAUL
CONTACT E-MAIL ADDRESS:	cpaul@catalyst-dg.com

FEMA PANEL:
THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 47037C0243 H, APRIL 5TH, 2017, COMMUNITY NAME: METRO GOVERNMENT OF NASHVILLE - DAVIDSON COUNTY.

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LAYOUT PLAN

Sheet Number

C5.0

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GRADING & DRAINAGE KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
G1A	CURB INLET	3 / C8.1
G2	CATCH BASIN	1 / C8.1
G3	JUNCTION MANHOLE	11 / C8.1
G4	NYLOPLAST INLET/JUNCTION (PER STRUCT. TABLES)	5 / C8.1
G5	CLEANOUT	
G6	20 - 8'Wx16'Lx4'H STORMCAPTURE DETENTION VAULTS	9 / C8.1
G8	CONCRETE HEADWALL	6 / C8.1
G9	RIPRAP AT HEADWALL	4 / C3.2
G10A	BIORETENTION AREA (LEVEL 2; MWS GIP-01)	7 / C8.1
G10B	STONE FILTER BERM	8 / C8.1
G11	ROOF LEADER	-
G12	TRENCH DRAIN	10 / C8.1
G14	CURB CUT	15 / C8.0

LEGEND

STORM PIPE & INLET	
SPOT ELEVATION	0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	C1

STRUCTURE TABLE

CODE	DESCRIPTION	TOP GRATE
A1	JUNCTION MANHOLE	585.02
A2a	DETENTION VAULTS	N/A
A2b	DETENTION VAULTS	N/A
A2c	CATCH BASIN ABOVE DETENTION	583.50
A2d	CATCH BASIN ABOVE DETENTION	583.50
A3	JUNCTION MANHOLE	583.23
A4	CATCH BASIN	582.25
A6	SINGLE CURB INLET	584.50
A7	TRENCH DRAIN	N/A
B1	CATCH BASIN	589.49
C1	48" SLAB TOP MANHOLE	586.18
C2	CATCH BASIN	589.12
D1	PLUMBING CONNECTION	N/A
D2	15" NYLOPLAST DRAIN	601.00
D3	15" NYLOPLAST DRAIN	601.00
D4	15" NYLOPLAST DRAIN	601.00
D5	15" NYLOPLAST DRAIN	601.00
D6	15" NYLOPLAST DRAIN	601.00
D7	15" NYLOPLAST DRAIN	601.00
EX MH1	EX. MANHOLE	584.68
EX MH2	EX. MANHOLE	585.23

PIPE TABLE

FROM CODE	FROM INV	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
A1	574.75	EX MH1	574.35	1.00%	24"	40	RCP
A2a	575.00	A1	574.75	1.79%	18"	14	HDPE
A3	575.75	A2b	575.00	0.89%	15"	85	HDPE
A4	576.75	A3	575.75	1.27%	15"	78	HDPE
B1	586.63	A1	579.00	4.24%	15"	180	HDPE
C1	579.90	EX MH2	579.61	1.00%	18"	30	RCP
C2	585.00	C1	581.40	5.89%	18"	61	RCP
D2	598.61	D1	598.58	0.50%	8"	7	HDPE
D3	598.74	D2	598.61	0.50%	8"	25	HDPE
D4	599.11	D3	598.74	0.50%	8"	75	HDPE
D5	599.24	D4	599.11	0.50%	6"	25	HDPE
D6	599.50	D5	599.24	0.50%	6"	53	HDPE
D7	599.50	D2	599.23	0.50%	6"	53	HDPE

PUBLIC STORMWATER AS-BUILT NOTE:

THE CONTRACTOR SHALL VIDEO-INSPECT ANY PUBLIC STORMWATER INFRASTRUCTURE (TO BECOME THE RESPONSIBILITY OF METRO TO MAINTAIN) TO VERIFY PROPER INSTALLATION, PER VOLUME 1, SECTION 3.9 OF THE METRO STORMWATER MANAGEMENT MANUAL. VIDEO INSPECTION AND ASSOCIATED REPORT(S) MUST BE COMPLETED BY NASSCO PACP CERTIFIED PROFESSIONALS AND PROVIDED TO THE ENGINEER FOR SUBMITTAL AS PART OF THE AS-BUILT RECORD. ADDITIONAL TESTING MAY BE REQUIRED IF WARRANTED BY VIDEO INSPECTION. SEE https://www.nashville.gov/Water-Services/Developers.aspx FOR MORE INFORMATION.

BIORETENTION AS-BUILT NOTE:

THE CONTRACTOR RESPONSIBLE FOR INSTALLATION AND FINAL STABILIZATION OF ANY BIORETENTION OR URBAN BIORETENTION AREAS SHOWN ON THESE PLANS SHALL PROVIDE THE ENGINEER OF RECORD WITH:

- A TOPOGRAPHIC SURVEY OF THE COMPLETED BASIN(S) AND ANY PRETREATMENT MEASURES, INCLUDING CONTOURS AT A MINIMUM 1' INTERVAL AND SPOT ELEVATIONS SHOWING THE BOTTOM ELEVATION OF THE BASIN(S). SURVEY SHALL BE PERFORMED BY A TENNESSEE REGISTERED LAND SURVEYOR.
- TOP-OF-CASTING AND INVERT ELEVATIONS OF ALL BIORETENTION OUTLET STRUCTURES AND ALL PIPES/STRUCTURES BETWEEN OUTLETS AND THE PUBLIC RIGHT-OF-WAY.
- PHOTOGRAPHS OF THE INSTALLATION OF GRAVEL AND MEDIA LAYERS, WITH A TAPE MEASURE OR OTHER OBJECT FOR REFERENCE TO ENSURE PROPER DEPTHS.
- THE RESULTS OF A SOIL COMPOSITION TEST PERFORMED ON THE MEDIA INSTALLED IN THE BASIN(S), INCLUDING A PERCENTAGE BREAKDOWN OF THE QUANTITY OF SILTS, CLAYS, SAND, AND ORGANIC MATERIALS. RECEIPTS ONLY WILL NOT BE ACCEPTABLE.

FAILURE TO PROVIDE ONE OR MORE OF THESE ITEMS COULD DELAY OR PREVENT THE ISSUANCE OF A FINAL USE & OCCUPANCY PERMIT.

IN ACCORDANCE WITH THE METRO STORMWATER MANAGEMENT MANUAL, VOLUME 1, SECTION 3.9, AS-BUILT CERTIFICATIONS, MWS STORMWATER DIVISION MUST APPROVE THE FOLLOWING AS-BUILTS PRIOR TO ISSUANCE OF THE USE AND OCCUPANCY PERMIT:

- UNDERGROUND DETENTION AND WATER QUALITY INFRASTRUCTURE
- ABOVE GROUND DETENTION AND WATER QUALITY INFRASTRUCTURE
- PUBLIC STORM SEWER INFRASTRUCTURE
- CUT AND FILL IN THE FLOODPLAIN
- SINK HOLE ALTERATIONS

SITE BM:
TAG BOLT #01207 ON FIRE HYDRANT NEAR NE R.O.W. INTERSECTION OF WEDGEWOOD AVE & 15TH AVE
ELEV: 594.65

PROJECT BM:
NAVD 88 (GPS DERIVED)

Know what's below. Call before you dig.

GRAPHIC SCALE 0 10 20 40 60

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 522-7500 | WWW.CATALYSTDG.COM

Seals

CALEB L. HALL
REGISTERED ENGINEER
STATE OF TENNESSEE
10/29/21

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By

Drawing Title

GRADING & DRAINAGE PLAN

Sheet Number

C6.0

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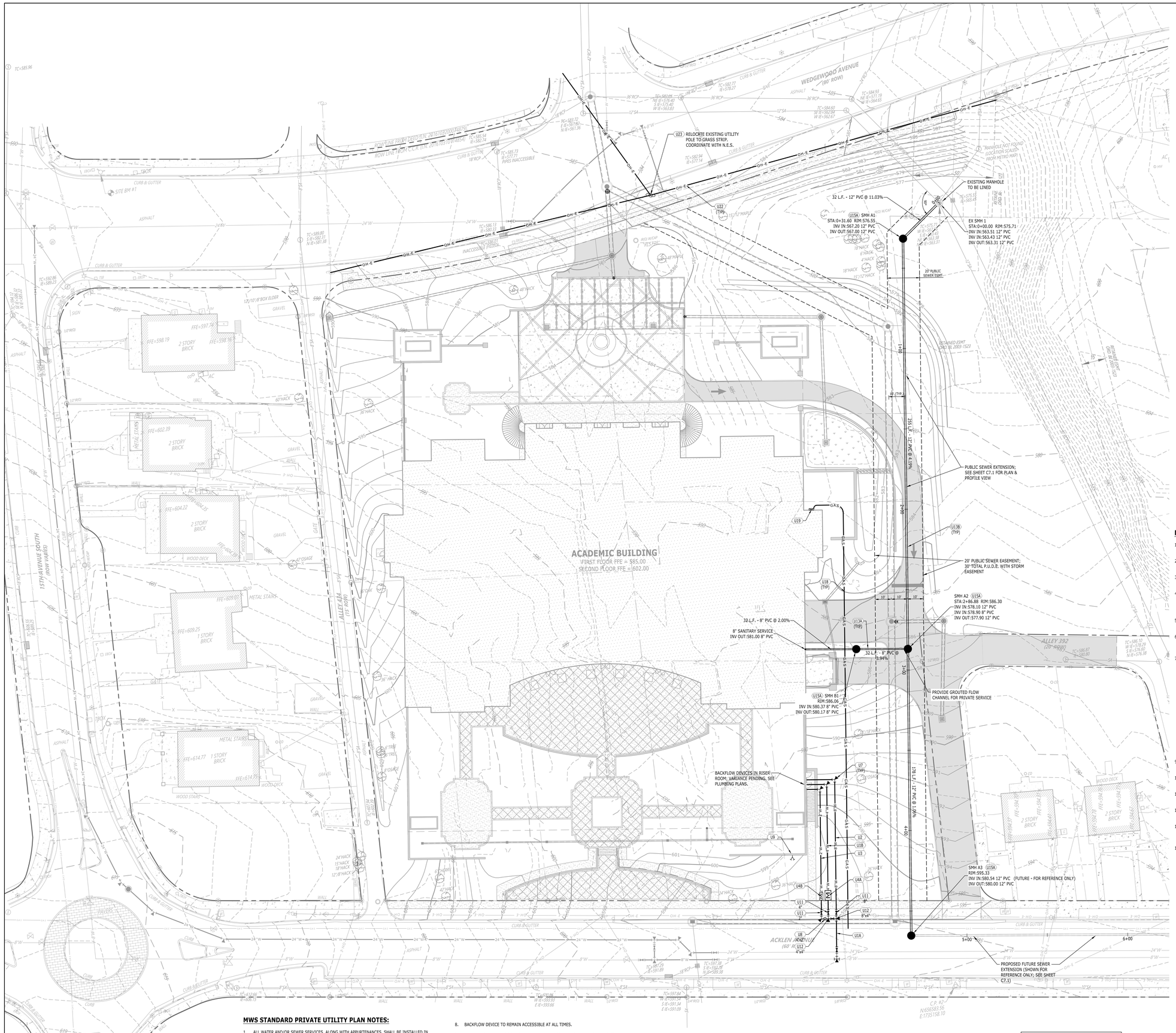

UTILITY KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
U1A	WATER LINE (8" D.I.P.)	-
U1B	WATER LINE (4" D.I.P.)	-
U2	FIRE LINE (8" D.I.P.)	-
U3	IRRIGATION LINE (2" TYPE 'K' COPPER)	-
U4A	WATER METER (4" DOMESTIC)	1 / C8.2
U4B	WATER METER (2" IRRIGATION)	7 / C8.2
U7	WATER BLOCKING/KICKERS	3 / C8.2
U8	REDUCER (SIZE INDICATED)	-
U9	FIRE DEPARTMENT CONNECTION	-
U10	FIRE HYDRANT ASSEMBLY	9 / C8.2
U11	WATER VALVE (SIZE SPECIFIED)	4 / C8.2
U12	TEE (SIZE SPECIFIED	-
U13A	SANITARY SEWER LINE (8" PVC)	-
U13B	SANITARY SEWER LINE (12" PVC)	-
U15A	SANITARY SEWER MANHOLE	2 / C8.2
U16	SANITARY SEWER CLEANOUT	5 / C8.2
U18	NATURAL GAS LINE (PER PLUMBING PLANS)	-
U19	NATURAL GAS METER (PER PLUMBING PLANS)	-
U20	ELECTRIC TRANSFORMER	-
U21	UNDERGROUND ELECTRIC LINE	-
U22	OVERHEAD ELECTRIC LINE	-
U23	ELECTRICAL UTILITY POLE	-
U25	SITE LIGHTING	-

LEGEND	
DOMESTIC WATER SERVICE	W
FIRE SERVICE	F F
GAS LINE	GAS
THRUST BLOCK	
CLEANOUT ON SANITARY SEWER LINE	
PROPOSED FIRE HYDRANT	
UNDERGROUND ELECTRIC	UGE UGE

MWS STANDARD PUBLIC UTILITY PLAN NOTES:

1. ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND STANDARD DETAILS OF THE METRO WATER SERVICES.
2. THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE METRO WATER SERVICES THE COST OF INSPECTION.
3. THE CONTRACTOR IS TO PROVIDE AND MAINTAIN THE CONSTRUCTION IDENTIFICATION SIGN FOR PRIVATE DEVELOPMENT APPROVED.
4. AFTER COMPLETION OF THE SANITARY SEWER, THE DEVELOPER IS RESPONSIBLE FOR THE TELEVISING OF THE LINES PRIOR TO FINAL ACCEPTANCE. THE VIDEOTAPING MUST BE COORDINATED WITH THE METRO WATER SERVICES INSPECTION SECTION. ALL COSTS WILL BE BORNE BY THE DEVELOPER.
5. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY CORING AND RESILIENT CONNECTOR METHOD.
6. REDUCED PRESSURE BACKFLOW PREVENTION DEVICES (RPBP) OR DUAL CHECK VALVE WILL BE REQUIRED ON ALL TEST AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY THE METRO WATER SERVICES.
7. ALL WATER METERS SHALL BE A MINIMUM OF 24" NOT TO EXCEED A MAXIMUM OF 28" BELOW FINISHED GRADE. UPON COMPLETION OF CONSTRUCTION OF WATER AND/OR SEWER, THE ENGINEER SHALL PROVIDE THE DEPARTMENT WITH A COMPLETE SET OF AS-BUILT PLANS IN DIGITAL (DWG AND PDF) FORMAT. ALL DRAWINGS MUST BE COMPLETED AND SUBMITTED PRIOR TO ACCEPTANCE OF THE SEWERS OR WATER MAINS INTO THE PUBLIC SYSTEM AND ANY CONNECTIONS BEING MADE.
   A. SEWER PLANS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER AND/OR A REGISTERED LAND SURVEYOR AND SHALL INCLUDE ACTUAL FIELD ANGLES BETWEEN LINES, ALL ACTUAL SERVICE LINES AND TEE LOCATIONS, THE DISTANCE OF THE END OF THE SERVICE LINE TO PROPERTY COMERS AND LINES AND/OR STATION AND OFFSET FROM SEWER CENTERLINE TO END OF SERVICE LINE, THE DEPTH TO THE TOP OF THE END OF THE SERVICE LINE, AND SHALL REFLECT ALL ALIGNMENT AND GRADE CHANGES.
   B. WATER LINE PLANS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER AND/OR A REGISTERED LAND SURVEYOR AND SHALL INCLUDE OFFSET DISTANCE FROM THE ROADWAY CENTERLINE, OR PROPERTY LINE RIGHT OF WAY, LINE DEPTH, LOCATIONS OF HYDRANTS, VALVES, REDUCERS, TEES AND PRESSURE REDUCING DEVICES WHERE APPLICABLE.
9. PRESSURE REGULATING DEVICES WILL BE REQUIRED ON THE CUSTOMER SIDE OF THE METER WHEN PRESSURES EXCEED 100 PSI.
10. PRESSURE REGULATING DEVICES WILL BE REQUIRED ON THE STREET SIDE OF THE METER WHEN PRESSURES EXCEED 150 PSI.
11. ALL WATER MAINS MUST BE LOCATED WITHIN THE PAVED AREA INCLUDING ALL BLOW-OFF ASSEMBLIES.
12. ALL LEAD OR GALVANIZED WATER SERVICE LINES ENCOUNTERED WITH THIS PROJECT SHALL BE REINSTATED WITH COPPER OF LIKE SIZE FROM THE WATER MAIN TO THE METER BOX.
13. DOMESTIC AND IRRIGATION WATER METERS AND ASSOCIATED APPURTENANCES SHALL NOT BE PLACED IN OR UNDER A PAVED OR IMPROVED SURFACE OTHER THAN THE PORTION OF THE SERVICE LOCATED WITHIN THE RIGHT OF WAY.
14. SANITARY SEWER TAPS SHALL BE PLACED AT THE LOWEST ADJACENT SEWER MAIN ELEVATION FOR EACH PREMISES AND SHALL NOT BE LOCATED IN OR UNDER A PAVED OR IMPROVED SURFACE OTHER THAN THE PORTION WITHIN THE RIGHT OF WAY.

MWS STANDARD PRIVATE UTILITY PLAN NOTES:

1. ALL WATER AND/OR SEWER SERVICES, ALONG WITH APPURTENANCES, SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARD DETAILS OF THE METRO WATER SERVICES.
2. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY CORING AND RESILIENT CONNECTOR METHOD.
3. VERTICAL DOUBLE CHECK VALVE ASSEMBLIES, THAT ARE LOCATED IN INTERIOR ROOMS, CAN ONLY BE USED FOR FIRE SERVICES.
4. ALL WATER METERS SHALL BE A MINIMUM OF 24" NOT TO EXCEED A MAXIMUM OF 28" BELOW FINISHED GRADE.
5. IRRIGATION LINE SHALL BE COPPER FROM THE METER TO THE BACKFLOW PREVENTER.
6. THE MINIMUM FEES OUTLINED IN THE CAPACITY LETTER MUST BE PAID BEFORE COMMERCIAL CONSTRUCTION PLANS CAN BE REVIEWED.
7. ALL SEWER SERVICES SHALL BE MINIMUM 6 INCHES IN DIAMETER, FROM CONNECTION AT THE MAIN UNTIL THE FIRST CLEAN OUT ASSEMBLY
8. BACKFLOW DEVICE TO REMAIN ACCESSIBLE AT ALL TIMES.
9. PLAN SIZE SHALL BE 24" X 36", AND SHALL SHOW CONTOURS AROUND METER BOXES.
10. ANY UNUSED EXISTING WATER METERS MUST BE CUT AND CAPPED AT THE PUBLIC MAIN.
11. ALL LEAD OR GALVANIZED WATER SERVICE LINES ENCOUNTERED WITH THIS PROJECT SHALL BE REINSTATED WITH COPPER OF LIKE SIZE FROM THE WATER MAIN TO THE METER BOX.
12. DOMESTIC AND IRRIGATION WATER METERS AND ASSOCIATED APPURTENANCES SHALL NOT BE PLACED IN OR UNDER A PAVED OR IMPROVED SURFACE OTHER THAN THE PORTION OF THE SERVICE LOCATED WITHIN THE RIGHT OF WAY.
13. SANITARY SEWER TAPS SHALL BE PLACED AT THE LOWEST ADJACENT SEWER MAIN ELEVATION FOR EACH PREMISES AND SHALL NOT BE LOCATED IN OR UNDER A PAVED OR IMPROVED SURFACE OTHER THAN THE PORTION WITHIN THE RIGHT OF WAY.

NOTE:
REDUCED PRESSURE BACKFLOW PREVENTORS SHALL BE LOCATED INSIDE THE BUILDINGS. SEE PLUMBING PLANS.

NOTE:
CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE DUCT SYSTEM AND PAD MOUNTED EQUIPMENT LOCATIONS PER NES REQUIREMENTS PRIOR TO ENERGIZING THE SITE.

MWS DEVELOPMENT SERVICES
800 SECOND AVENUE SOUTH
P.O. BOX 196300
NASHVILLE, TENNESSEE 37219
(615) 877-7292

SITE ELECTRICAL COORDINATION
THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST/FIRE WALLS, GENERATORS AND PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UNDERGROUND ELECTRICAL CONDUITS ARE TO BE CONSTRUCTED PER PLANS DEVELOPED BY NASHVILLE ELECTRIC SERVICE (OR INSERT "LOCAL ELECTRICAL SERVICE PROVIDER") AND THE PROJECT ELECTRICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION THAT ALL NECESSARY SITE ELECTRICAL COMPONENTS CAN BE INSTALLED IN RELATION TO ALL OTHER REQUIRED SITE FEATURES DEPICTED ON THE PLANS, AND SHALL NOTIFY THE CIVIL AND ELECTRICAL ENGINEER SHOULD A CONFLICT ARISE.

DAVIDSON COUNTY TAX MAP 105-09
PARCEL 23-29, 36-42
COUNCIL DISTRICT No. 18
MEMBER: TOM CASH
MWS PROJECT No: 21SL0182

N

0 10 20 40 60
GRAPHIC SCALE

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CALEB L. HALL
REGISTERED ENGINEER
No. 124855
STATE OF TENNESSEE
9/15/2021

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007
WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By

Drawing Title

UTILITY PLAN

Sheet Number

C7.0

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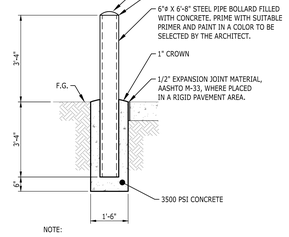


NOTE:

THE PRIMER AND FIRST COAT OF PAINT SHALL BE APPLIED BEFORE INSTALLATION. A SECOND COAT OF PAINT SHALL BE APPLIED AFTER INSTALLATION.

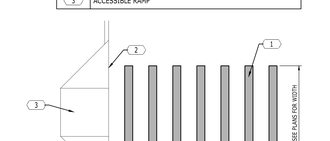
17 **STEEL BOLLARD**

NO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE DUMPSTER PAD WITH TURN-DOWN FOOTER ALL AROUND
2	1/2" EXP. JOINT
3	6X6 W2.9 X W2.9 W.W.F. WITH TWO No. 4 BARS IN THE TURN-DOWN (TYP)
4	CONCRETE TRUCK PAD WITH TURN-DOWN FOOTER ALL AROUND
5	1/2" EXP. JOINT

6	EXIST. PAVEMENT
7	SUBGRADE; COMPACT TO 95% STD. PROCTOR
8	12" DEPTH MINERAL AGGREGATE BASE
9	NO. 4 BAR, CONTINUOUS; (4 BARS, 8' O.C.)

NOTES:
1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE.
2. BROOM-FINISH SURFACES OF BOTH PADS.



18 **DUMPSTER PAD**

NOT TO SCALE

19 **PAINTED DIRECTIONAL ARROWS**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	PEDESTRIAN CROSSWALK; MARKINGS SHALL BE SOLID WHITE PAINTED ON ASPHALT; PAINT 12" WIDE STRIPES AS INDICATED WITH PORTER "TRAFFIC WHITE" PAINT OR APPROVED EQUAL; CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 403.3.
2	FACE OF CURB
3	ACCESSIBLE RAMP

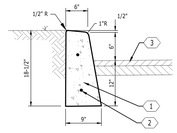
20 **PEDESTRIAN CROSSWALK**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	STOP BAR PLACED 4 FEET BEFORE EDGE OF SIDEWALK/CROSSWALK
2	4" DOUBLE SOLID YELLOW LINE
3	WHITE REFLECTIVE PAINTED LINE; EXTEND TO EDGE OF GUTTER OR FACE OF CURBE

21 **PAINTED STOP BAR**

NOT TO SCALE

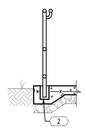


KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	NO. 4 BAR, CONTINUOUS; (2 TYP.)
3	FINISHED PAVEMENT GRADE

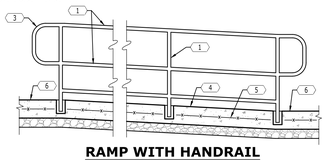
12 **CONCRETE POST CURB**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	1.5" O.D. STEEL PIPE
2	2" DIA. PIPE SLEEVE; 4" DEEP CAST IN PLACE
3	3" RADIUS; MAX.
4	CONCRETE RAMP (CROSS SLOPE MAX. 2%, MIN. 1%)
5	CONCRETE REINFORCEMENT; 6"x6"xW2.9xW2.9 W.W.F.
6	5'x' LANDING; MAX. 2% SLOPE



NOTES:
1. PROVIDE 36" HEIGHT, 1.5" O.D. HANDRAIL ON BOTH SIDES OF THE RAMP; 12" HANDRAIL EXTENSIONS PAST TOP AND BOTTOM OF RAMP.
2. VARIATIONS IN HANDRAIL HEIGHT ARE NOT ALLOWED.
3. RAMP SHALL HAVE A MINIMUM WIDTH OF 5'-0".
4. THE HANDRAIL SHALL HAVE A SMOOTH FINISH AT ALL WELDED SURFACES AND PAINTED WITH TWO COATS RUST RESISTANT PRIMER AND 2 COATS ENAMEL; COLOR TO BE SELECTED BY THE ARCHITECT.
5. PROVIDE HANDRAIL/GUARDRAIL WHERE EDGE DROPOFF IS 30" OR GREATER.
6. RAMP CONSTRUCTION SHALL BE SIMILAR TO CONCRETE SIDEWALKS. REFER TO CONCRETE SIDEWALK DETAIL.

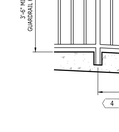


13 **RAMP WITH HANDRAIL**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	1-1/2" O.D. STEEL PIPE RAIL (TYP), GRIND WELDS SMOOTH, PRIME WITH 2 COATS OF RUST RESISTANT PRIMER AND PAINT WITH TWO COATS OF ENAMEL. COLOR TO BE SELECTED BY THE ARCHITECT.
2	1/2" SQ. 14 GA. TUBULAR STEEL PICKETS 4" O.C.
3	1-1/2" O.D. TUBULAR STEEL POST
4	CONCRETE SIDEWALK; REFER TO DETAIL
5	2" SQ. TUBULAR STEEL SLEEVE FOR POST. GROUT POST IN PLACE WITH NON-SHRINK GROUT. 4" DEEP, CAST IN PLACE.
6	No. 3 BARS 8" APART EACH WAY
7	4" MINERAL AGGREGATE BASE

NOTES:
1. SLOPE STEPS 1/8" TO FRONT FOR DRAINAGE.
2. USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL.



TREADS

14 **CONCRETE STAIRS WITH HANDRAIL**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CURB
2	RIP-RAP PAD

15 **DRAINAGE CURB CUT**

NOT TO SCALE

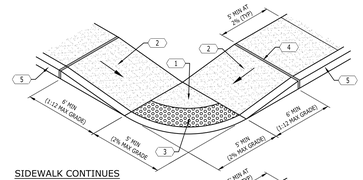
KEYNOTES	
CODE	DESCRIPTION
1	1-1/2" O.D. TUBULAR POST AND RAIL
2	1-1/2" O.D. TUBULAR BOTTOM RAIL
3	MIN. 2.5" I.D. SQUARE TUBE STEEL SLEEVE CAST IN PLACE. GROUT GUARDRAIL POST IN PLACE (TYP).
4	CONCRETE RAMP

NOTES:
1. PROVIDE 42" HIGH 1-1/2" O.D. ROUND OR SQUARE TUBE GUARD RAIL AT ELEVATION DROPS GREATER THAN 30". VERTICAL PICKETS SHALL BE 1/2" SQUARE TUBES SPACED 4" APART ON CENTER, MAX.
2. STAINLESS STEEL OR ALUMINUM ARE THE PREFERRED RAILING MATERIALS. IF THE RAILINGS ARE CONSTRUCTED OF CARBON STEEL THE RAILING SHALL BE PRIMED AND THEN PAINTED WITH TWO COATS OF ENAMEL. ENAMEL COLOR SHALL BE SELECTED BY THE ARCHITECT.
3. VARIATIONS IN GUARDRAIL HEIGHT SHALL NOT BE ALLOWED.
4. THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM RAIL AND THE WALK SURFACE OR CHEEK WALL TOP SHALL BE 2".

16 **GUARD RAIL**

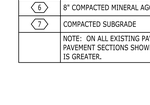
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	LANDING
2	RAMP; 12:1 MAX. SLOPE
3	TACTILE WARNING; REFER TO DETAIL
4	½" EXPANSION JOINT
5	CURB



7 **ACCESSIBLE CURB RAMP**

NOT TO SCALE



KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE PAVEMENT; 4000 PSI
2	6"x6", W2.9xW2.9 W.W.F.; ASTM GRADE 60 STEEL
3	6" COMPACTED MINERAL AGGREGATE BASE
4	COMPACTED SUBGRADE

8 **CONCRETE PAVEMENT**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK; 4" THICK; 3500 PSI CONCRETE; SLOPE 2% MAX., 1% MIN.
2	BROOM FINISH
3	CONTROL JOINTS 5' O.C.; EXPANSION JOINTS 25' O.C. AND WHERE SIDEWALKS ABUT RIGID MATERIALS.
4	CONCRETE REINFORCEMENT; 6"x6"xW2.9x22.9 W.W.F.; GRADE 60 STEEL
5	TOPSOIL; PLACE WITHIN ½" OF WALKWAY SURFACE
6	4" MINERAL AGGREGATE BASE

9 **CONCRETE SIDEWALK**

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK
2	BROOM FINISH
3	½" HAND-GROOVED JOINT
4	TOOLED EDGE; ¼" RADIUS (TYP.)
5	CONCRETE REINFORCEMENT; 6"x6"xW2.9x22.9 W.W.F.; GRADE 60 STEEL
6	POLYURETHANE SELANT
7	½" PREMOLDED EXPANSION JOINT MATERIAL
8	MINERAL AGGREGATE BASE (TYP.)

10 **SIDEWALK JOINTS**

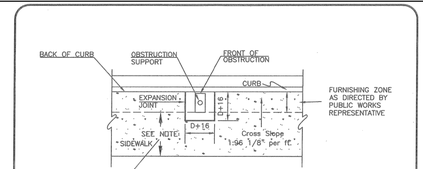
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	1.5" ASPHALTIC SURFACE COURSE
2	TACK COAT AT 0.10 GAL./S.Y.
3	3" ASPHALTIC SURFACE COURSE
4	PRIME COAT AT 0.30 GAL./S.Y.
5	2" ASPHALTIC SURFACE COURSE
6	8" COMPACTED MINERAL AGGREGATE BASE
7	COMPACTED SUBGRADE
	NOTE: ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT, USE THE PAVEMENT SECTIONS SHOWN OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.

HEAVY DUTY PAVEMENT

11 **ASPHALT PAVEMENT**

NOT TO SCALE



NOTE:
36" MINIMUM FOR EXISTING SIDEWALK MAINTENANCE
60" NEW SIDEWALK CONSTRUCTION

GENERAL NOTES:

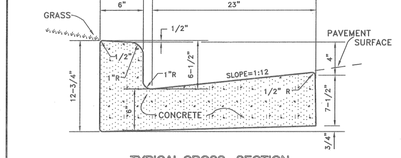
1. SEE STANDARD DRAWINGS ST-209 AND ST-210 FOR EXPANSION JOINT LAYOUT, TRANSVERSE JOINT MARKINGS LAYOUT, FURNISHING ZONE, LAYOUT VARIATIONS FOR SIDEWALKS AND FURNISHING ZONE, AND GENERAL NOTES FOR SIDEWALK CONSTRUCTION.
2. ONE-HALF INCH EXPANSION JOINT MATERIAL TO BE USED.
3. COMPACTED STONE BASE, PUG MILL MIX, 4" THICK SHALL BE APPLIED TO SUBGRADE PRIOR TO INSTALLING SIDEWALK.
4. CROSS-SLOPE OF SIDEWALK SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
5. OBSTRUCTIONS NOT ALLOWED IN NEW RIGHTS-OF-WAY.
6. IN THE EVENT OF ANY CONFLICT, DISCREPENCY, OR INCONSISTENCY AMONG THE PLANS AND THESE STANDARD DETAILS, THE REQUIREMENTS OF THE STANDARD DETAILS SHALL GOVERN.

NOT TO SCALE

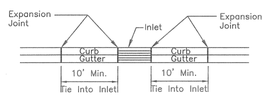
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	OBSTRUCTION IN SIDEWALK	DWG. NO. ST-211
DIR. OF ENG.: Mark Macy DATE: 7/15/04		REVISED: 11/24/03 REVISED: 02/17/04 REVISED: 06/23/04

4 OBSTRUCTION IN SIDEWALK (METRO ST-211)

NOT TO SCALE



TYPICAL CROSS - SECTION



FRONT VIEW

GENERAL NOTES
1. Expansion joints to be spaced a maximum of 100 feet apart or as directed by the Engineer.
2. Expansion joints will also be required at tangent points, ramps, and inlets.
3. Contraction joints are to be cut into curb and gutter every 10 feet to a depth of D/4, where D equals the thickness of the section. The spacing of 10 feet may be reduced at closures but no section of curb and gutter shall be less than 10 feet.
4. There will be a minimum of 10 feet tie in at curb inlets on each side of the inlet. An expansion joint will be used on each side of the tie in.
5. Cost of contraction joints to be included in the unit bid price for concrete curb with gutter.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD CURB WITH GUTTER	DWG. NO. ST-200
DIR. OF ENG.: Mark Macy DATE: 5/12/03		REVISED: 07/21/00 REVISED: 05/02/03 REVISED:

1 CURB & GUTTER (METRO ST-200)

NOT TO SCALE

NOTE: 1. Cross-slope of sidewalk shall not exceed 1:48 (vertical:horizontal).
2. Fiber mesh reinforcement is an approved alternative for the wire mesh. Fiber mesh reinforcement will be added to the concrete at the batch plant at the rate of 1 1/2 pounds per cubic yard.
3. Concrete shall be 8 inches thick.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	NEW CONSTRUCTION COMMERCIAL DRIVEWAY RAMP	DWG. NO. ST-324
DIR. OF ENG.: Mark Macy DATE: 5/12/03		REVISED: 07/27/02 REVISED: 05/08/03 REVISED:

5 DRIVEWAY RAMP (METRO ST-324)

NOT TO SCALE

GENERAL NOTES
1. SIDEWALKS SHALL BE A MINIMUM OF 4 INCHES IN THICKNESS.
2. MAXIMUM CROSS SLOPE FOR SIDEWALKS SHALL NOT EXCEED 1:48 (VERTICAL:HORIZONTAL).
3. IN HISTORIC DISTRICTS THE STANDARD SHALL BE THE PREVAILING CHARACTERISTIC OF THE BLOCK FACE.
4. SIDEWALK SHALL BE CONSTRUCTED OF WHITE CONCRETE, BRICK, OR EXPOSED AGGREGATE PER METRO DEPARTMENT OF PUBLIC WORKS TECHNICAL SPECIFICATIONS, SECTION 025522.
5. IF APPROVED THE FURNISHING ZONE MAY CONTAIN HARDSCAPE MATERIALS SUCH AS CONCRETE, BRICK, OR PAVERS.
6. COMPACTED STONE BASE, PUG MILL MIX, 4" THICK SHALL BE APPLIED TO SUB GRADE PRIOR TO INSTALLING SIDEWALK.
7. FURNISHING ZONE IS AN AREA FOR OBSTRUCTIONS IN THE SIDEWALK. EXAMPLES ARE OUTDOOR CAFES, POWER POLES, FIRE HYDRANTS, SIGNS, ETC.
8. IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY AMONG THE PLANS AND THESE STANDARD DETAILS, THE REQUIREMENTS OF THE STANDARD DETAILS SHALL GOVERN.

NTS

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	SIDEWALK CONSTRUCTION	DWG. NO. ST-210
DIR. OF ENG.: [signature] DATE: 9/12/17		REVISED: 05/02/03 REVISED: 11/24/03 REVISED: 06/23/04 REVISED: 09/11/17

2 CONCRETE SIDEWALK (METRO ST-210)

NOT TO SCALE

21 **PAINTED STOP BAR**

NOT TO SCALE

General Notes
1. Placement of sidewalks shall be in accordance with Planning Commission Regulations of the Metropolitan Nashville-Davidson County Subdivision Regulations.
2. Construction shall conform to the Metropolitan Department of Public Works Technical Specifications, latest revision.

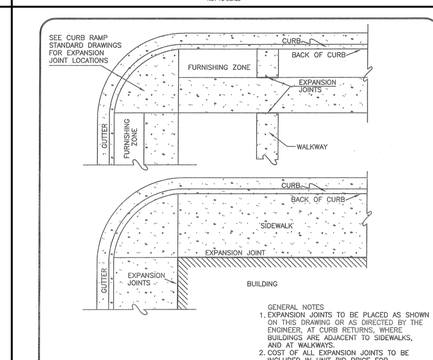
PAVEMENT SCHEDULE
1-1/2" ASPHALTIC CONCRETE SURFACE (411D)
TACK COAT (CSS-1)
2" BITUMINOUS BINDER (B-MS)
PRIME COAT (CRS-2)
8" STONE (GRADING D PUG MILL MIX)

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	RESIDENTIAL--MEDIUM DENSITY MINOR LOCAL STREET (50' R.O.W.)	DWG. NO. ST-252
ASST. DIR. ENG.: Mark Macy DATE: 5/2/01 DIRECTOR: [signature] DATE: 5/8/01		REVISED: 04/09/01

6 ASPHALT PAVEMENT (METRO STD. ST-252)

NOT TO SCALE



TYPICAL EXPANSION JOINT DETAIL

GENERAL NOTES
1. EXPANSION JOINTS TO BE PLACED AS SHOWN ON THIS DRAWING OR AS DIRECTED BY THE ENGINEER, AT CURB RETURNS, WHERE BUILDINGS ARE ADJACENT TO SIDEWALKS, AND AT WALKWAYS.
2. COST OF ALL EXPANSION JOINTS TO BE INCLUDED IN UNIT BID PRICE FOR SIDEWALKS.
3. ONE-HALF INCH EXPANSION JOINTS TO BE USED IN ALL LOCATIONS.
4. THIS METRO STANDARD DRAWING IS FOR THE EXPANSION JOINTS IN SIDEWALKS. SEE OTHER METRO STANDARD DRAWINGS FOR CURB RAMP PLACEMENT, SIDEWALK DETAILS, OBSTRUCTIONS, ETC.
5. THE EXPANSION JOINT MATERIAL SHALL BE RECYCLED MATERIAL 1/2" THICK AS MANUFACTURED BY J.D. RUSSELL COMPANY, 1-800-888-6872, WWW.JDRUSSELL COMPANY.COM, OR APPROVED EQUAL.

NOT TO SCALE

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD EXPANSION JOINT FOR CONCRETE SIDEWALK	DWG. NO. ST-209
DIR. OF ENG.: Mark Macy DATE: 5/12/03		REVISED: 03/01/02 REVISED: 05/02/03 REVISED:

3 EXPANSION JOINT (METRO ST-209)

NOT TO SCALE

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 512-7200 | WWW.CATALYSTDG.COM

Seals

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By
Drawing Title	

SITE DETAILS

Sheet Number

C8.0

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BIORETENTION AREA (LEVEL 2--METRO GIP-01)

NOT TO SCALE

CONSTRUCTION NOTES

1. CONTRACTOR SHALL NOTIFY STORMWATER INSPECTOR AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF THE PLANTING SOIL FILTER BED. PLANTING SOIL SHALL BE TESTED PER NOTES ON GRADING PLAN SHEET(S) AS PART OF THE AS-BUILT RECORD.

2. UNDERDRAINS SHALL BE 6" CORRUGATED HDPE OR PVC PIPE WITH 3/8-IN PERFORATIONS AT 6" O/C. UNDERDRAINS SHALL BE CONSTRUCTED AT A 1-2% SLOPE AND EACH RUN SHALL BE NO MORE THAN 20 FT FROM THE NEXT PIPE.

3. REFER TO CIVIL PLANS FOR BIORETENTION LOCATION(S), GRADING, WATERSHED SIZE(S), INLET STRUCTURE DATA, AND EROSION CONTROL MEASURES.

4. REFER TO LANDSCAPE PLANS FOR PLANT LIST(S), SPECIFICATIONS, PLANT ESTABLISHMENT, AND MAINTENANCE REQUIREMENTS.

5. MULCH USED IN BIORETENTION AREAS SHALL BE DOUBLE-SHREDDED, HARDWOOD, NON-FLOATING

6. IF COMPETENT OR BEDROCK IS ENCOUNTERED, CONTRACTOR IS TO EXCAVATE A MINIMUM OF 3' BELOW ELEVATION "F" (UNDERDRAIN INVERT), REGARDLESS OF SPECIFIED BOTTOM OF SUMP ELEVATION "H". INSTALL 26" OF CLEAN #57 STONE.

AS-BUILT NOTES:

THE CONTRACTOR RESPONSIBLE FOR INSTALLATION AND FINAL STABILIZATION OF ANY BIORETENTION OR URBAN BIORETENTION AREAS SHOWN ON THESE PLANS SHALL PROVIDE THE ENGINEER OF RECORD WITH:

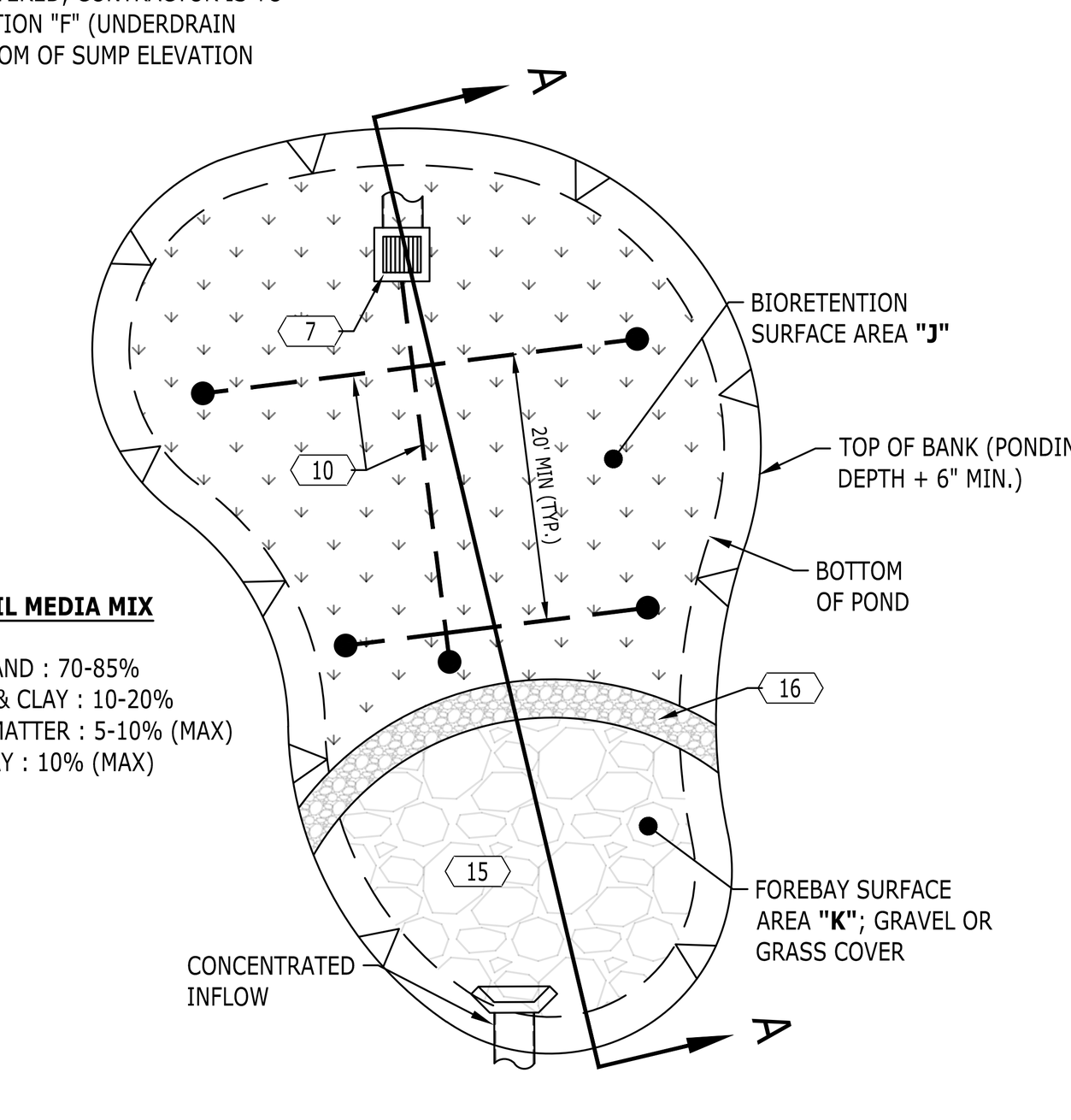
- A TOPOGRAPHIC SURVEY OF THE COMPLETED BASIN(S) AND ANY PRETREATMENT MEASURES, INCLUDING CONTOURS AT A MINIMUM 1' INTERVAL AND SPOT ELEVATIONS SHOWING THE BOTTOM ELEVATION OF THE BASIN(S). SURVEY SHALL BE PERFORMED BY A TENNESSEE REGISTERED LAND SURVEYOR.
- TOP-OF-CASTING AND INVERT ELEVATIONS OF ALL BIORETENTION OUTLET STRUCTURES AND ALL PIPES/STRUCTURES BETWEEN OUTLETS AND THE PUBLIC RIGHT-OF-WAY.
- PHOTOGRAPHS OF THE INSTALLATION OF GRAVEL AND MEDIA LAYERS, WITH A TAPE MEASURE OR OTHER OBJECT FOR REFERENCE TO ENSURE PROPER DEPTHS.
- THE RESULTS OF A SOIL COMPOSITION TEST PERFORMED ON THE MEDIA INSTALLED IN THE BASIN(S), INCLUDING A PERCENTAGE BREAKDOWN OF THE QUANTITY OF SILTS, CLAYS, SAND, AND ORGANIC MATERIALS. RECEIPTS ONLY WILL NOT BE ACCEPTABLE.

FAILURE TO PROVIDE ONE OR MORE OF THESE ITEMS COULD DELAY OR PREVENT THE ISSUANCE OF A FINAL USE & OCCUPANCY PERMIT.

KEYNOTES	
CODE	DESCRIPTION
1	ENGINEERED SOIL; SEE MIX NOTE THIS DETAIL
2	CHOKER STONE LAYER; CLEAN WASHED #8 OR #89 STONE (40% POROSITY)
3	CLEAN WASHED #57 STONE (40% POROSITY)
4	INFILTRATION SUMP BELOW UNDERDRAIN; CLEAN WASHED #57 STONE (DEPTH VARIES, SEE TABLE)
5	UNCOMPACTED SUBGRADE
6	ALLOWABLE PONDING DEPTH "**B**" (INCHES)
7	STANDARD CATCH BASIN. CASTING ELEVATION PER DRAINAGE TABLES. 6" OR 12" MAXIMUM ABOVE SURFACE, PER DRAINAGE TABLES
8	3" WOOD MULCH OR STONE LAYER ABOVE PLANTING BED
9	INSTALL GEOTEXTILE FABRIC (GEOTEX 351 OR EQUAL) TO ALL SIDES OF BIORETENTION AREA(S)
10	6" PERFORATED HDPE UNDERDRAIN; CLEANOUTS TO BE LOCATED AT END OF EACH RUN. SEE PLANS FOR LOCATION
11	6" UNDERDRAIN CONNECTION TO JUNCTION; CAN BE CORED DIRECTLY TO STRUCTURE
12	3' NON-WOVEN GEOTEXTILE FABRIC STRIP CENTERED ABOVE UNDERDRAINS
13	INVERT OF UNDERDRAIN; TOP OF INFILTRATION SUMP
14	INVERT OF TRUNK LINE (VARIES--SEE PLANS)
15	FOREBAY-- **"K"** SURF. AREA REQ'D; SEE PLANS FOR LOCATION
16	FILTER BERM PER DETAIL ELSEWHERE; SEE PLANS FOR LOCATION

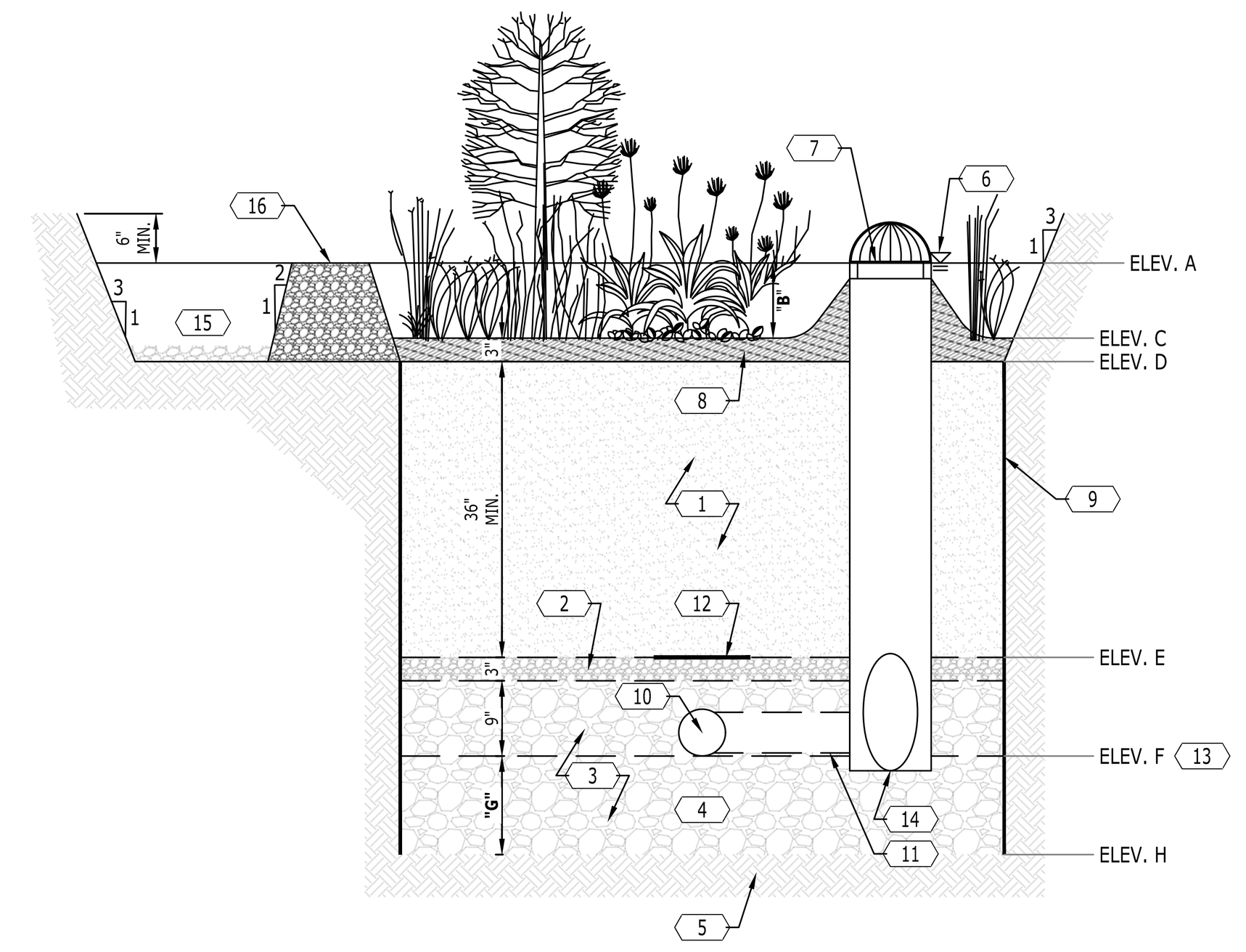
SOIL MEDIA MIX

SAND : 70-85%
SILT & CLAY : 10-20%
ORGANIC MATTER : 5-10% (MAX)
CLAY : 10% (MAX)



GENERIC PLAN VIEW
NOT TO SCALE; REFER TO GRADING PLANS FOR LAYOUT AND SIZES

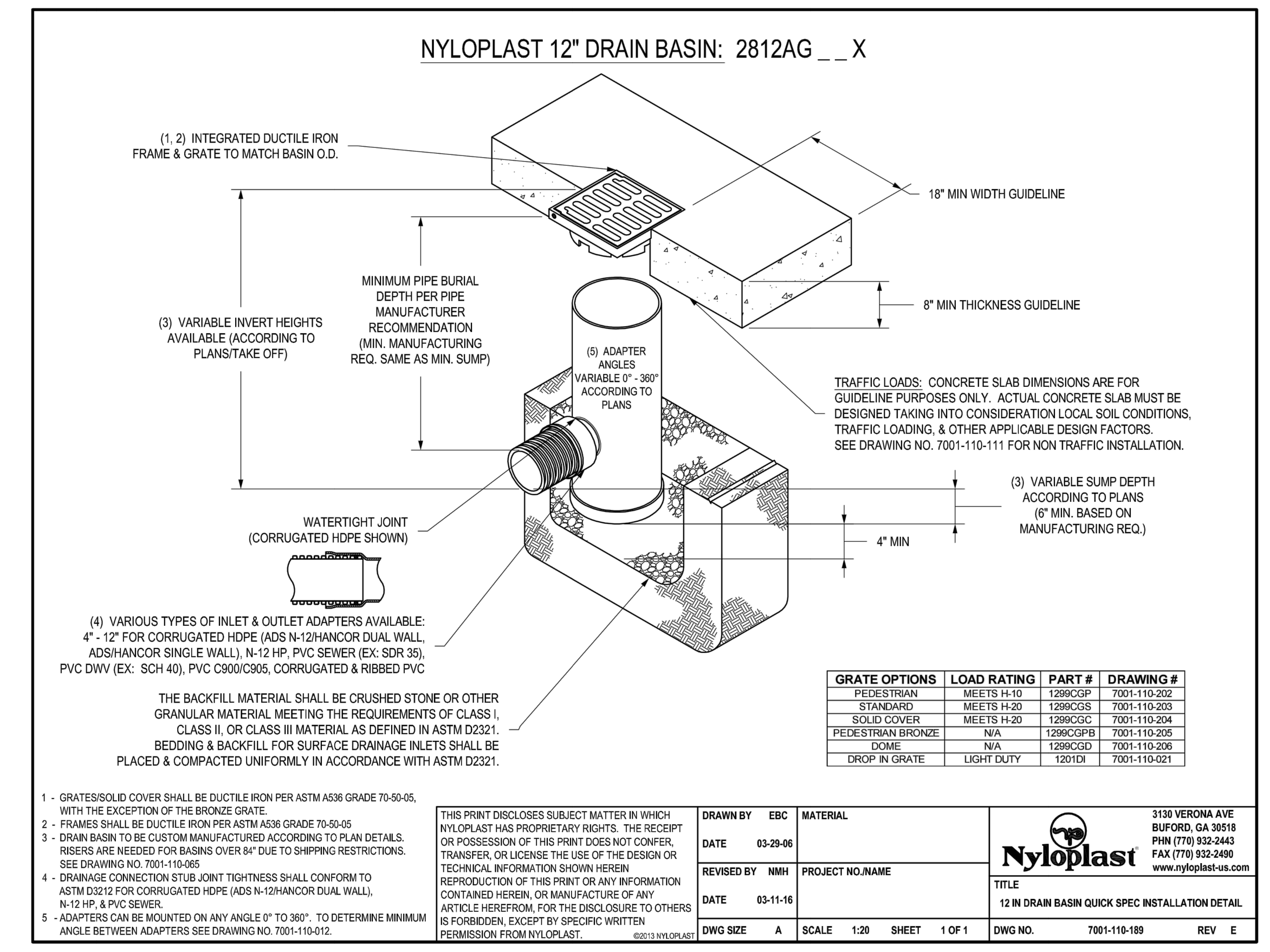
ELEVATION/AREA TABLE		
	DESCRIPTION	BIO 1
A	MAX. PONDING ELEV.	582.25
B	PONDING DEPTH (IN.)	12
C	TOP OF MULCH	581.25
D	TOP OF MEDIA	581.00
E	TOP CHOKER STONE	578.00
F	BOT. OF UNDERDRAIN	577.00
G	DEPTH OF SUMP (IN.)	12
H	BOT. OF SUMP	576.00
J	MIN. BIO AREA (SF)	949
K	MIN. FOREBAY AREA (SF)	350



SECTION A-A

7

NYLOPLAST DRAIN



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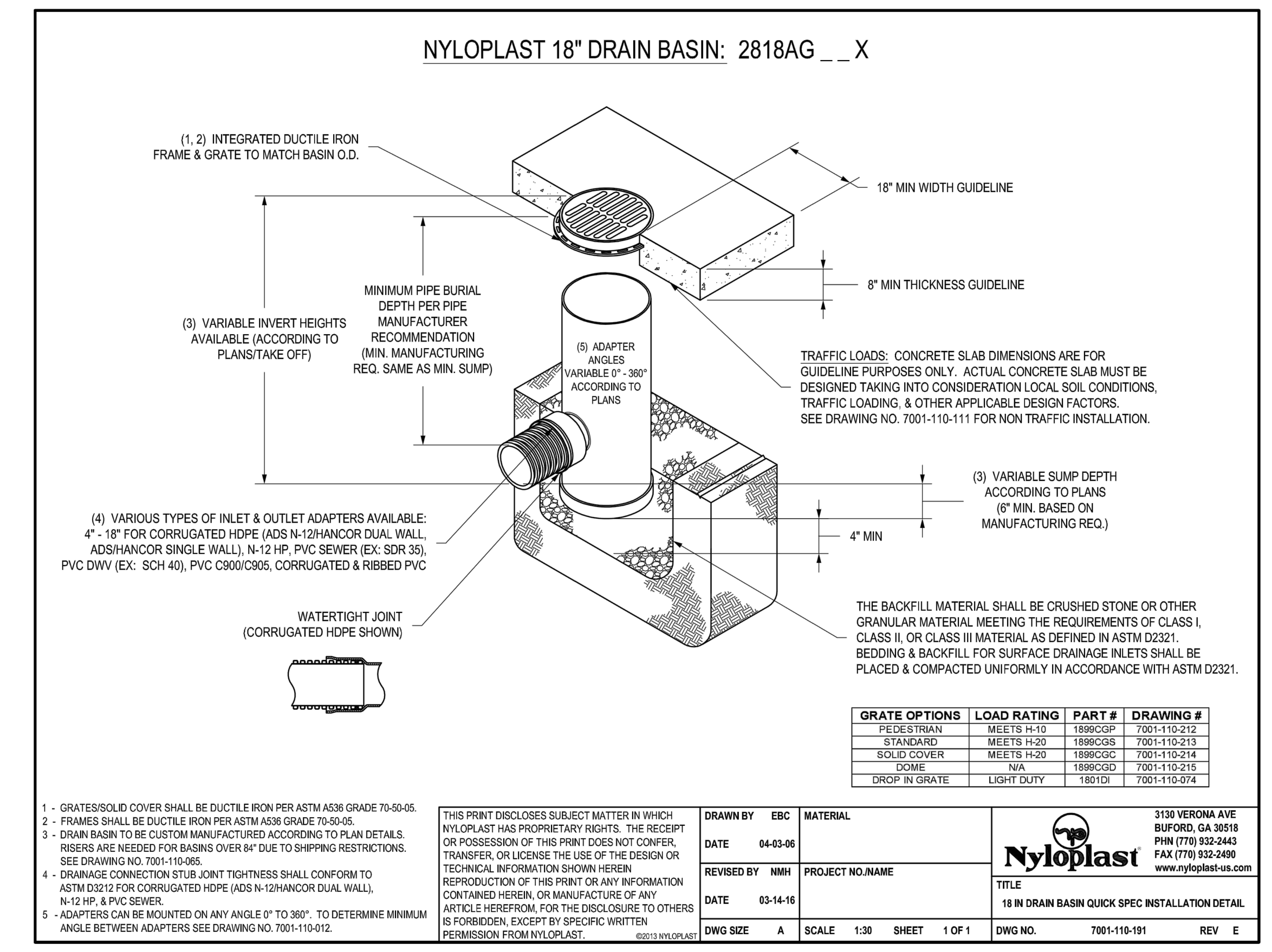
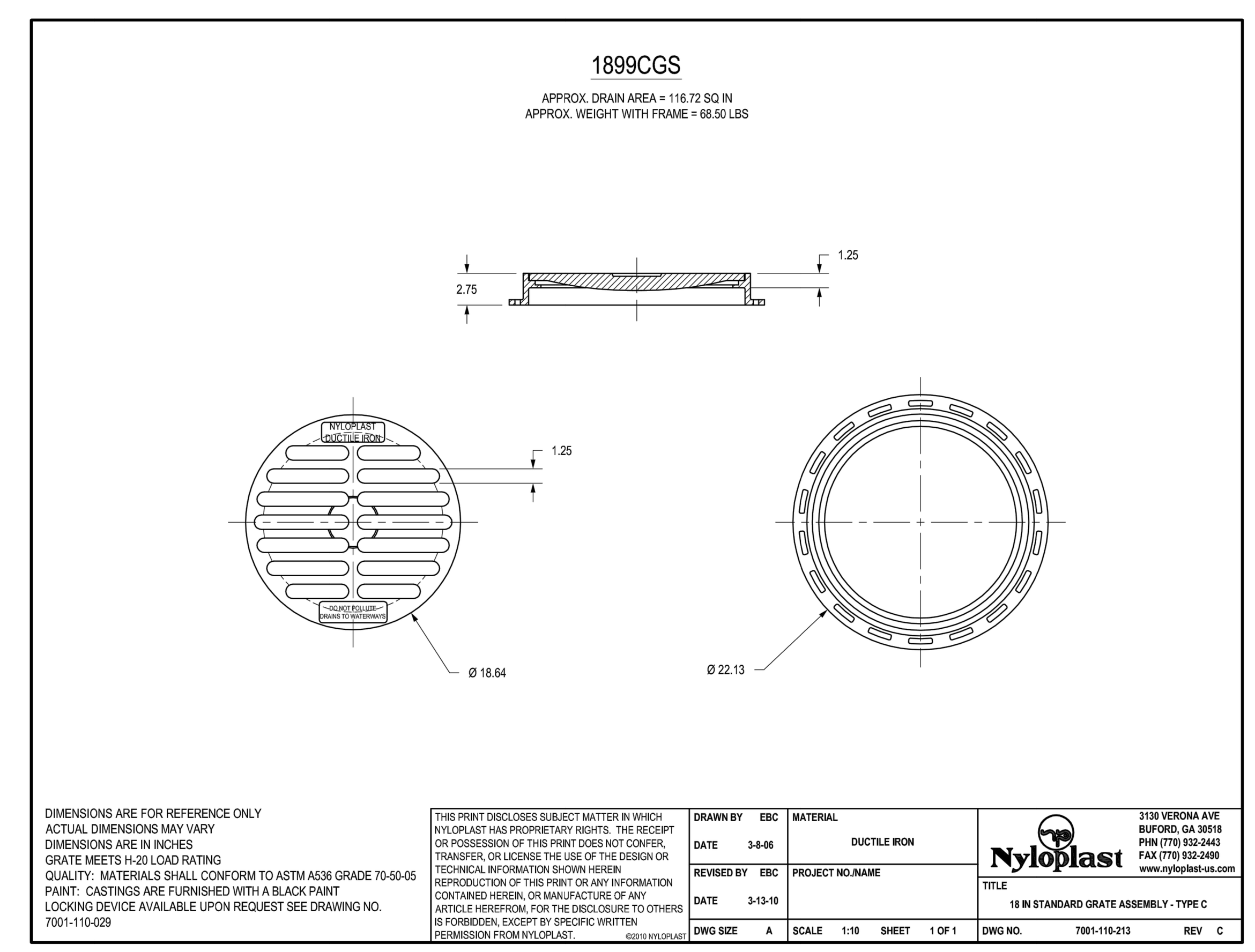
NYLOPLAST DRAIN
NOT TO SCALE



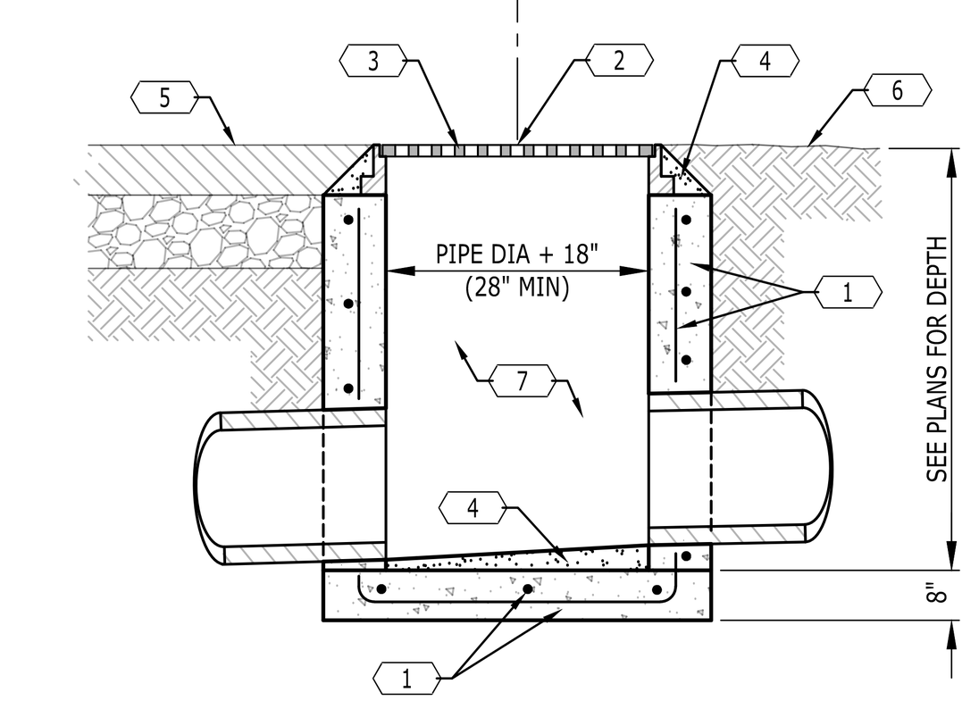


5

NYLOPLAST INLET / JUNCTION
NOT TO SCALE

CATCH BASIN

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE INLET; CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE; REINFORCE WITH NO. 4 BARS, GRADE 60 STEEL, SPACED 8" O.C. EACH WAY (TYP. FOR WALLS AND FLOOR); A CAST-IN-PLACE BOX OF EQUAL DIMENSIONS IS ACCEPTABLE; ADJUST STRUCTURE DIMENSIONS AS REQUIRED TO RECEIVE STORM PIPE AT OBLIQUE ANGLES
2	TOP OF CASTIG LOCATION FOR ELEVATIONS AND COORDINATES
3	CAST IRON FRAME AND GRATE; NEENAH MODEL NO. R-3561 OR APPROVED EQUAL; PROVIDE REDUCER RING TO ACCOMMODAE THE PROPOSED CASTING AS NECESSARY
4	GROUT
5	PAVEMENT
6	FINISH GRADE
7	NO HUB

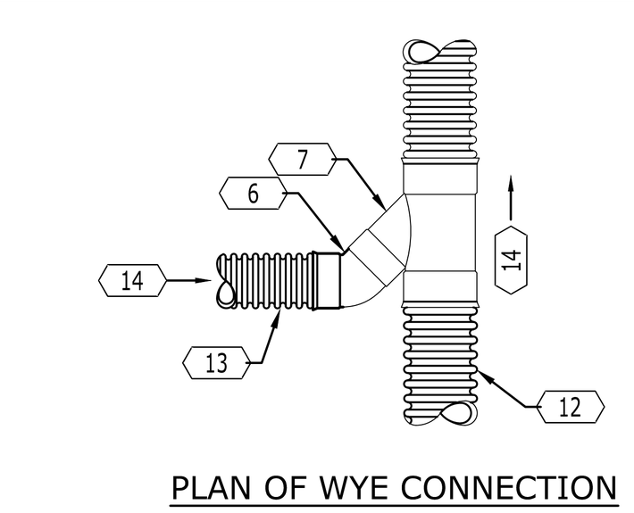


1

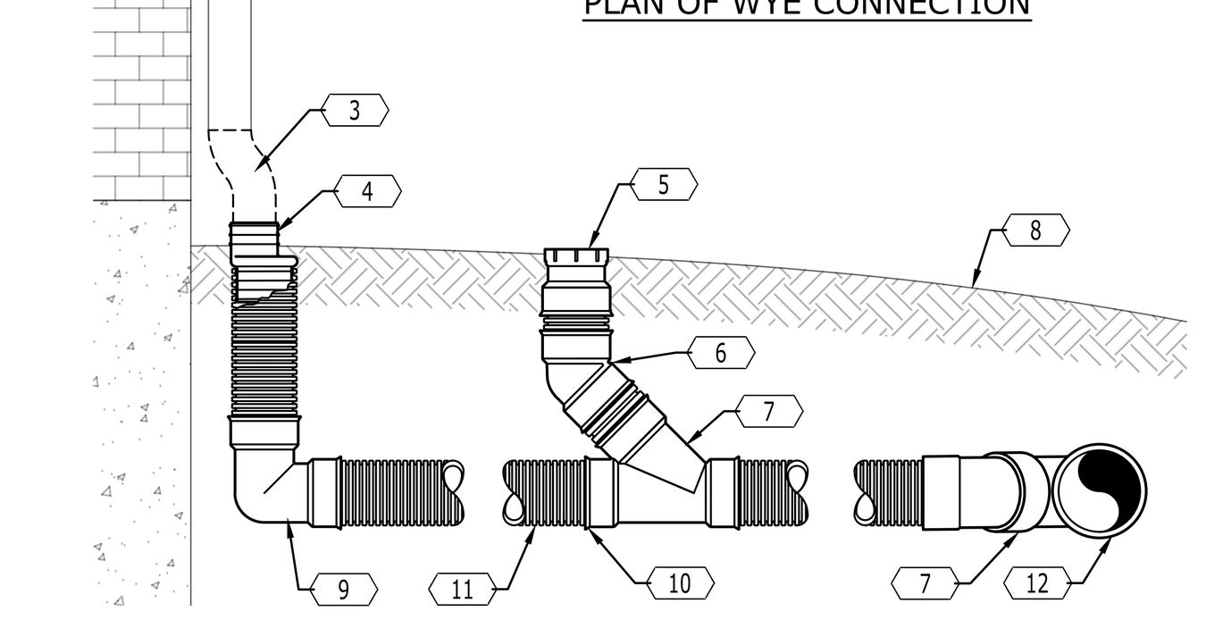
CATCH BASIN
NOT TO SCALE

BUILDING DOWNSPOUT CONNECTION

KEYNOTES	
CODE	DESCRIPTION
1	FACE OF BUILDING
2	DOWNSPOUT; BY OTHERS
3	OPTIONAL OFFSET IF REQUIRED
4	DOWNSPOUT ADAPTER PER PIPE MANUFACTURER'S RECOMMENDATIONS; INSERT IN RISER PIPE; DOWNSPOUT TYPE, SHAPE AND SIZE MAY VARY.
5	CLEANOUT WITH THREADED HEAVY-DUTY BRONZE COUNTERSUNK PLUG; INSTALL FLUSH WITH FINISH GRADE.
6	INJECTION-MOLDED WT 45° BEND
7	INJECTION-MOLDED WT 45° WYE
8	FINISHED GRADE
9	INJECTION-MOLDED WT 90° BEND
10	GASKETED CONNECTION (TYP.)
11	HDPE TYPE S PIPE (TYP.)
12	STORM SEWER; SEE PLANS FOR SIZE, LOCATION AND INVERT ELEVATION.
13	DOWNSPOUT LEADER
14	FLOW
	NOTES: 1. INJECTION-MOLDED FITTINGS ARE AVAILABLE AS TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLINGS; INSTALL WATER TIGHT JOINTS IN ALL CASES. 2. BLIND STORM SEWER CONNECTIONS SHALL BE MADE WITH 45° WYES AND STANDARD FITTINGS.



PLAN OF WYE CONNECTION



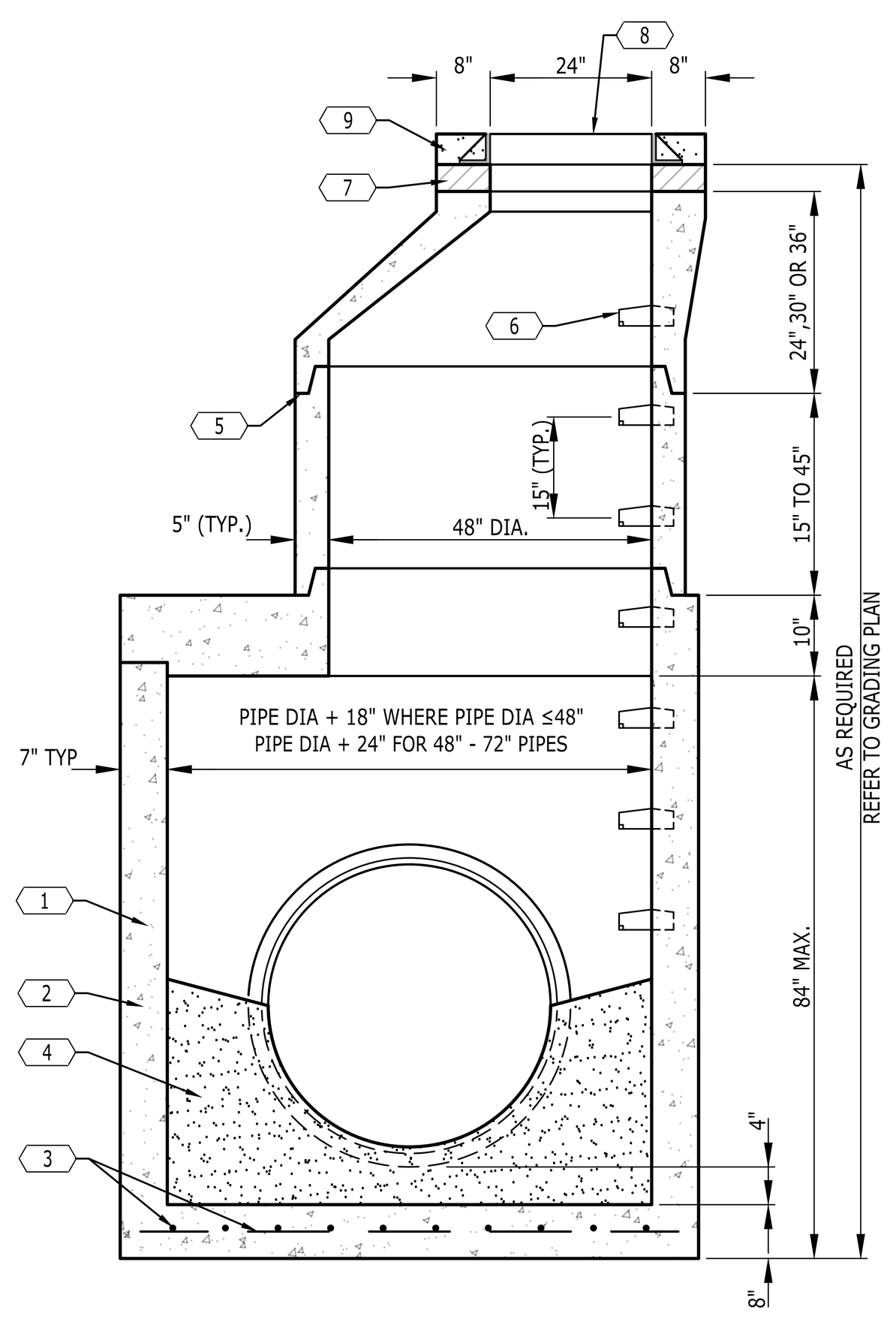
SECTION

2

BUILDING DOWNSPOUT CONNECTION
NOT TO SCALE

STORM JUNCTION MANHOLE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE MANHOLE; CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS CURE
2	REINFORCING STEEL; SHALL CONFORM TO THE SPECIFICATIONS CONTAINED IN ASTM C478
3	REINFORCING STEEL; NO. 4 BARS, 8" O.C. EACH WAY
4	GROUT INVERT TO PIPE MID-LINE
5	SEALANT; PROVIDE IN ALL JOINTS
6	STEPS; 12" WIDE; CAST IRON OR POLYPROPYLENE (TYP.)
7	GRADE RINGS; AS REQUIRED
8	MANHOLE FRAME AND COVER; JBS 1020 (OR APPROVED EQUAL)
9	GROUT FRAME IN PLACE



11

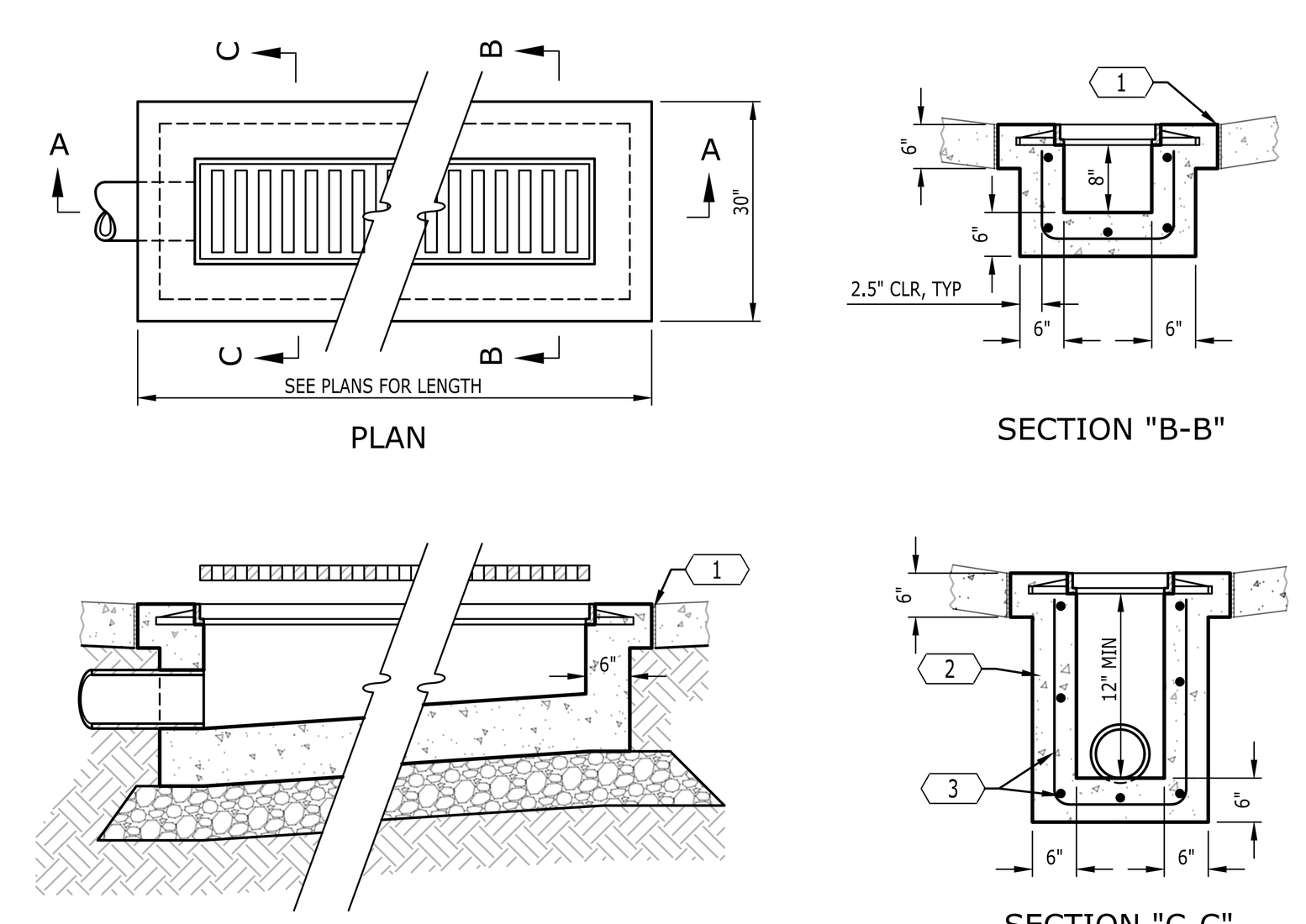
STORM JUNCTION MANHOLE
NOT TO SCALE

TRENCH DRAIN

KEYNOTES	
CODE	DESCRIPTION
1	1/2" EXPANSION JOINT WHERE ADJACENT TO CONCRETE SURFACE (TYP)
2	4000 PSI CONCRETE
3	NO. 4 BARS 12" APART EACH WAY

NOTES:

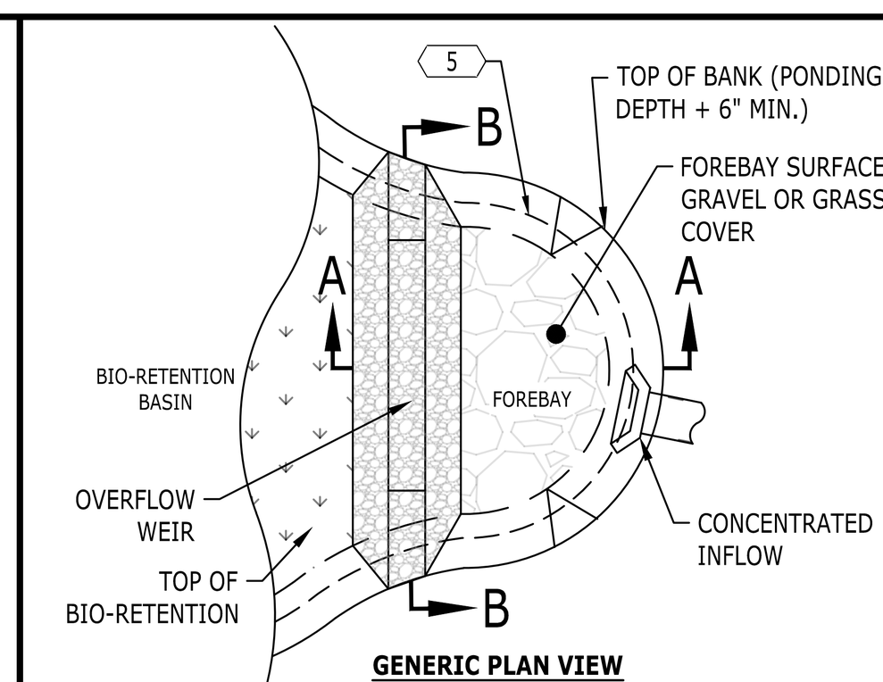
1. SEE PLANS FOR CASTING AND INVERT ELEVATIONS.
2. COVER AND RAILS SHALL BE JOHN BOUCHARD No. 5849, TYPE "A" WITH No. 2 RAILS, OR APPROVED EQUAL.



10

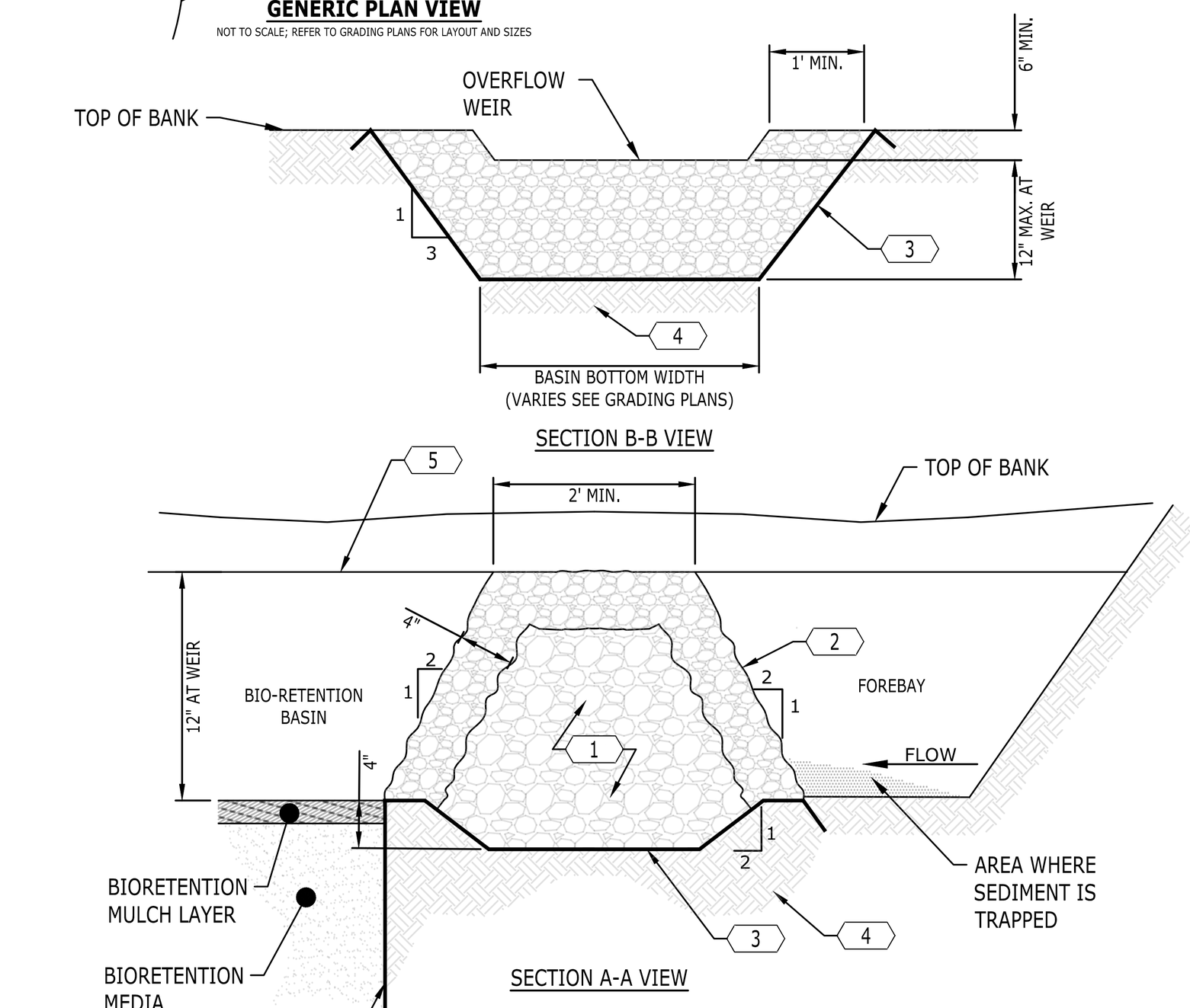
TRENCH DRAIN
NOT TO SCALE

STONE FILTER BERM



GENERIC PLAN VIEW

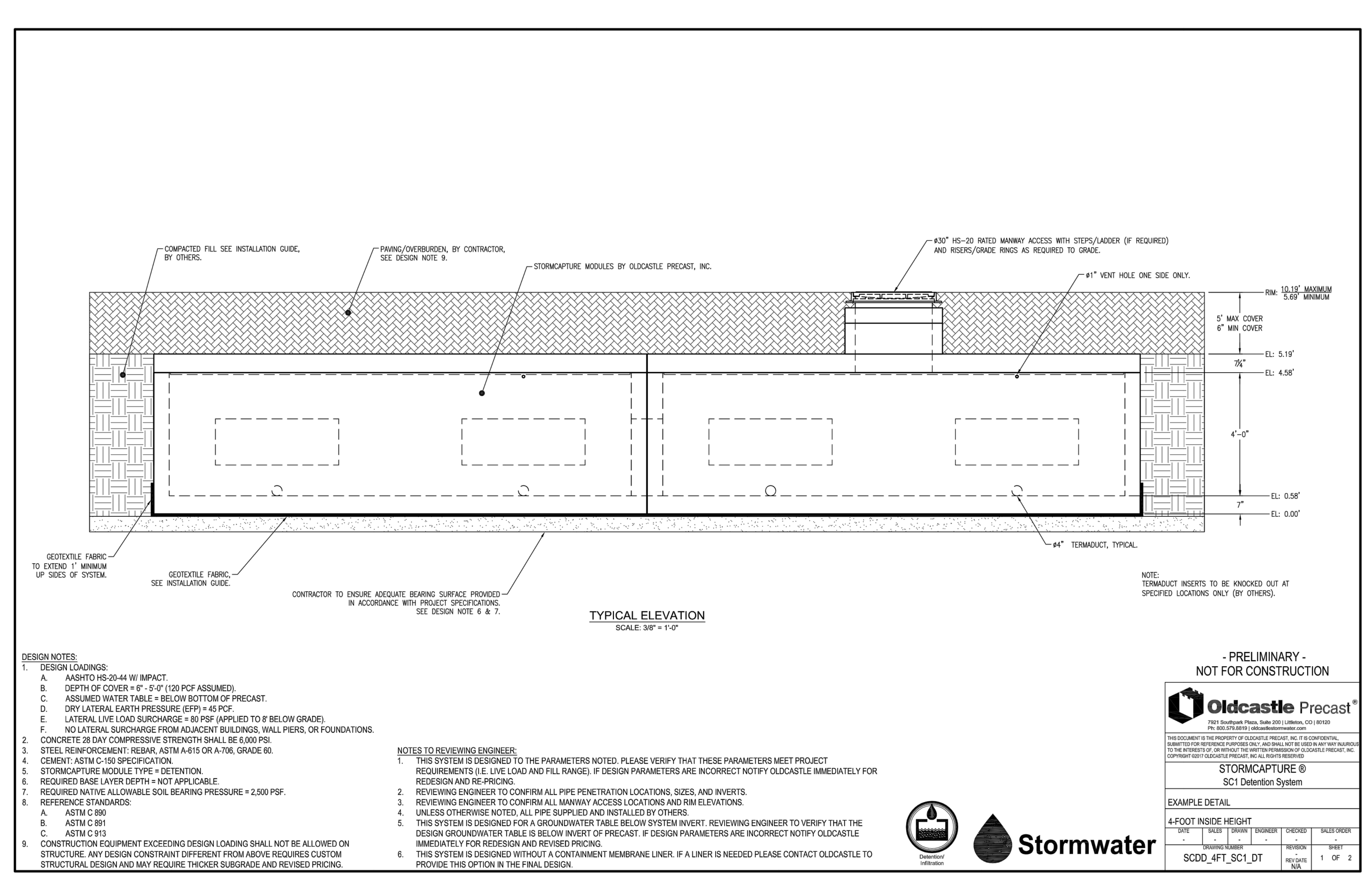
KEYNOTES	
CODE	DESCRIPTION
1	2-4" #2 STONE (HAND PLACED)
2	1-3" RIVER ROCK OR APPROVED EQUAL (HAND PLACED)
3	INSTALL GEOTEXTILE FABRIC (GEOTEX 351 OR EQUAL) BENEATH FILTER BERM
4	SUBGRADE
5	ALLOWABLE PONDING DEPTH



8

STONE FILTER BERM
NO SCALE

STORMCAPTURE DETENTION VAULTS



9

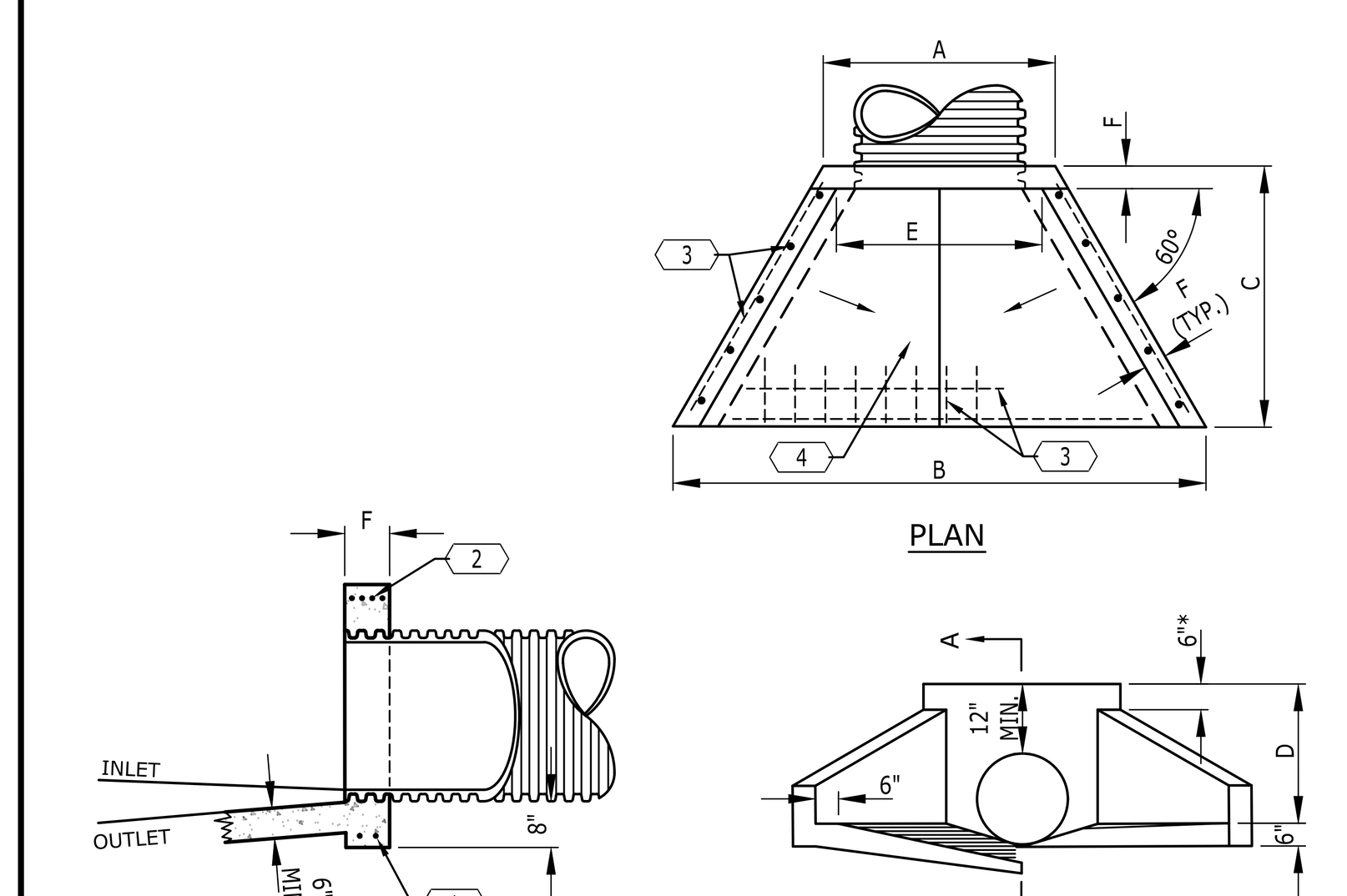
STORMCAPTURE DETENTION VAULTS
NOT TO SCALE

WINGED HEADWALL

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE REINFORCEMENT; TWO, NO. 2 BARS
2	CONCRETE REINFORCEMENT; FOUR, NO. 4 BARS
3	CONCRETE REINFORCEMENT; NO. 4 BARS AT 12" O.C. EACH WAY IN FLOOR AND WALLS
4	SLOPE APRON TO DRAIN
	NOTE: 1" CHAMFER ON ALL EXPOSED EDGES

TABLE OF DIMENSIONS				
SIZE	4'	6'	8'	10'
A	32"	48"	72"	96"
B	48"	72"	96"	120"
C	30"	44"	50"	56"
D	25"	36"	52"	66"
E	24"	36"	59"	83"
F	N/A	8"	8"	8"
MAX. OPG.	18"	26"	40"	
WT. (LB)	1090	3130	5625	8575

* 0" ON 4' WINGED HEADWALL

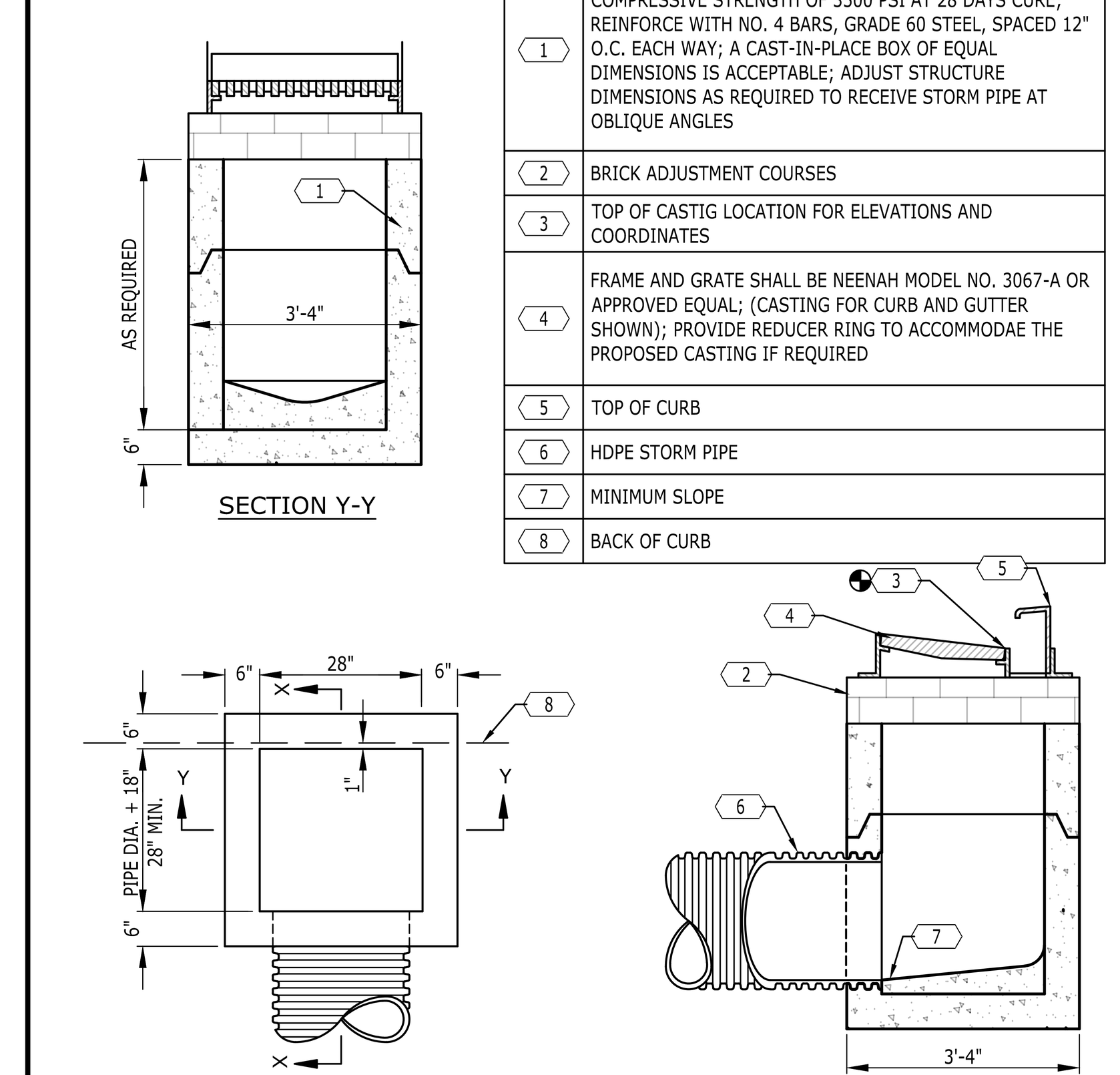


6

WINGED HEADWALL
NOT TO SCALE

SINGLE CURB INLET

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE INLET; CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS CURE; REINFORCE WITH NO. 4 BARS, GRADE 60 STEEL, SPACED 12" O.C. EACH WAY; A CAST-IN-PLACE BOX OF EQUAL DIMENSIONS IS ACCEPTABLE; ADJUST STRUCTURE DIMENSIONS AS REQUIRED TO RECEIVE STORM PIPE AT OBLIQUE ANGLES
2	BRICK ADJUSTMENT COURSES
3	TOP OF CASTIG LOCATION FOR ELEVATIONS AND COORDINATES
4	FRAME AND GRATE SHALL BE NEENAH MODEL NO. 3067-A OR APPROVED EQUAL; (CASTING FOR CURB AND GUTTER SHOWN); PROVIDE REDUCER RING TO ACCOMMODAE THE PROPOSED CASTING IF REQUIRED
5	TOP OF CURB
6	HDPE STORM PIPE
7	MINIMUM SLOPE
8	BACK OF CURB



3

SINGLE CURB INLET
NOT TO SCALE

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 622-7200 | WWW.CATALYST-DG.COM

Seals

CALEB L. PAUL

BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007

WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By

Drawing Title

SITE DETAILS

Sheet Number

C8.1

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8 **RESERVED**
NOT TO SCALE

3

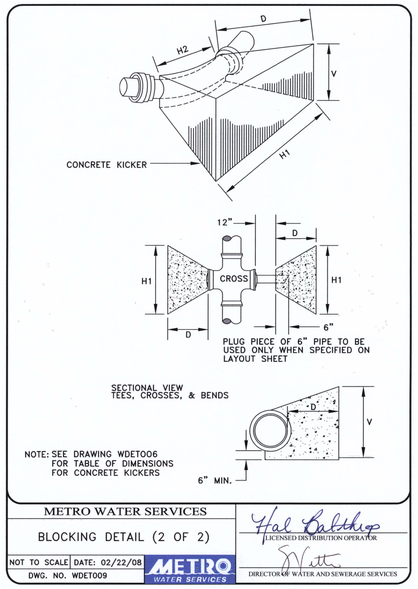
TABLE OF DIMENSIONS FOR CONCRETE KICKERS

SIZE OF PIPE (in.)		2" & 2-1/4	3" & 4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
TAPPING SLEEVES TEES & PLUGS	H1	18"	24"	24"	36"	48"	54"	66"					
	H2	10"	12"	16"	18"	24"	30"	34"	36"	38"	42"	52"	58"
	V	12"	12"	18"	18"	18"	24"	36"					
	D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.90	2.25	3.50	5.05	7.15	13.40	22.50					
90° BENDS	H1	18"	24"	30"	39"	54"	54"	69"					
	H2	10"	12"	16"	18"	32"	32"	48"	48"	48"	60"	72"	96"
	V	12	12"	18"	24"	24"	36"	48"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.90	2.25	4.05	7.30	10.25	18.15	29.00					
45° BENDS	H1	18"	18"	24"	30"	24"	42"	48"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	40"	48"	48"	72"
	V	12"	12"	16"	18"	21"	24"	36"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.50	1.60	3.20	3.95	4.60	9.60	17.00					
22-1/2° BENDS	H1	18"	18"	24"	24"	24"	24"	36"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	36"	42"	48"	72"
	V	12"	12"	16"	18"	21"	24"	27"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.50	1.60	3.20	3.40	4.60	6.80	11.80					
11-1/4° BENDS	H1	18"	18"	24"	24"	24"	24"	27"					
	H2	6"	8"	10"	11"	18"	18"	24"	30"	40"	42"	48"	48"
	V	12"	12"	16"	16"	21"	21"	27"					
	D	18"	18"	18"	18"	18"	24"	24"					
	cu. ft.	1.50	1.60	3.20	3.40	4.60	6.10	9.10					

NOTE:
CONCRETE USED FOR BLOCKING SHALL BE (CLASS "A"-3500# PER SQ. IN.). EARTH PRESSURES ARE FIGURED AT (4000# PER SQ. FT.) BEARING AREA OF KICKERS SHALL BE INCREASED WHEN POURED AGAINST SAND, LOOSE FILL, WET EARTH, CINDERS, ETC.

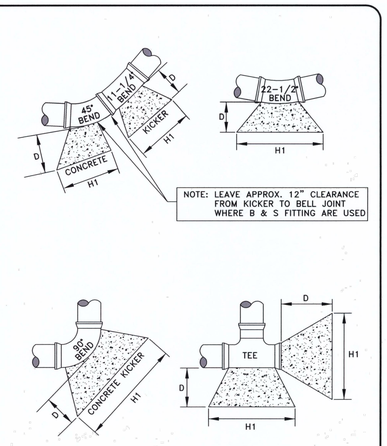
TABLE BASED ON 225 P.S.I. OR 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER

METRO WATER SERVICES
TABLE OF DIMENSIONS
NOT TO SCALE | DATE: 05/05/08 | DWG. NO. WDET006
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES



NOTE: SEE DRAWING WDET006 FOR TABLE OF DIMENSIONS FOR CONCRETE KICKERS

METRO WATER SERVICES
BLOCKING DETAIL (2 OF 2)
NOT TO SCALE | DATE: 02/22/08 | DWG. NO. WDET009
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

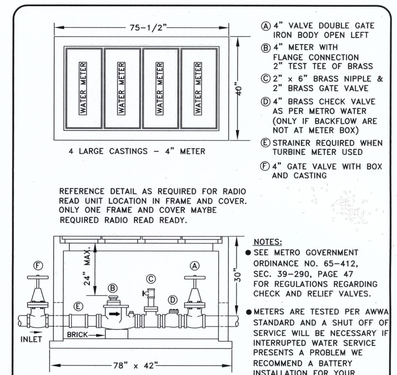


NOTE: SEE DRAWING WDET006 FOR TABLE OF DIMENSIONS FOR CONCRETE KICKERS

METRO WATER SERVICES
BLOCKING DETAIL (1 OF 2)
NOT TO SCALE | DATE: 02/22/08 | DWG. NO. WDET007
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

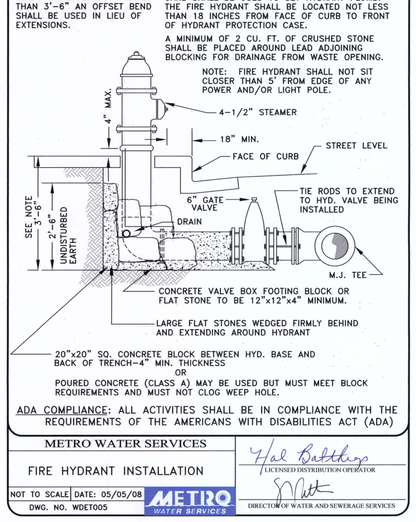
WATER BLOCKING/KICKERS
NOT TO SCALE

1



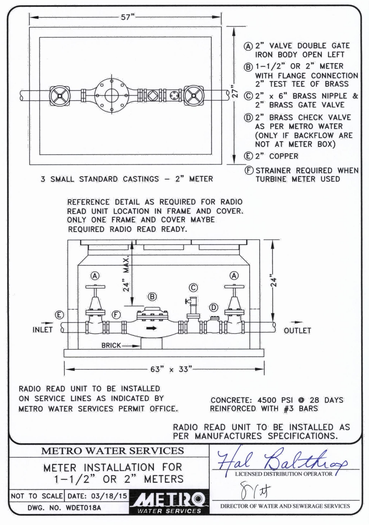
METRO WATER SERVICES
METER BOX FOR 4" METER FOR 4" SERVICE
NOT TO SCALE | DATE: 05/05/08 | DWG. NO. WDET018C
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

4" WATER METER
NOT TO SCALE



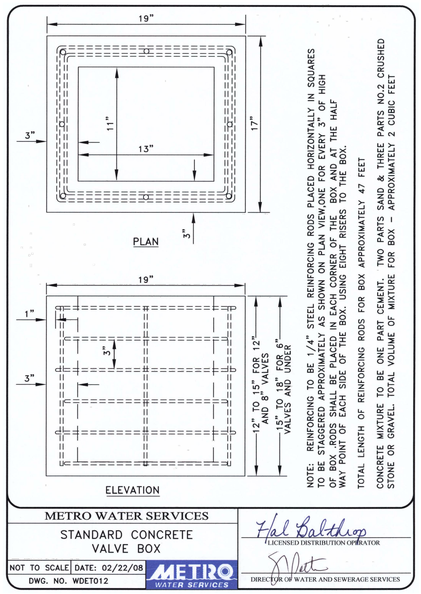
METRO WATER SERVICES
FIRE HYDRANT INSTALLATION
NOT TO SCALE | DATE: 05/05/08 | DWG. NO. WDET005
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

9 **FIRE HYDRANT ASSEMBLY**
NOT TO SCALE

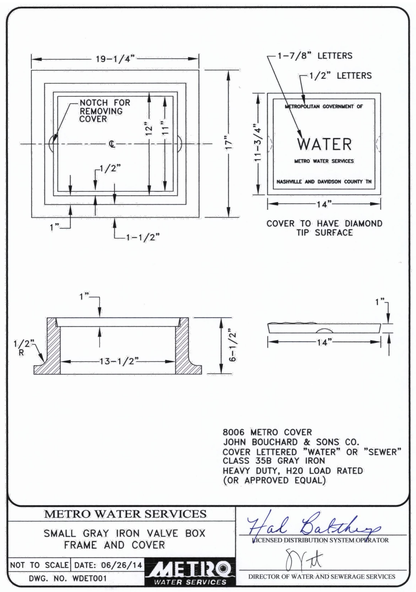


METRO WATER SERVICES
METER INSTALLATION FOR 1-1/2" OR 2" METERS
NOT TO SCALE | DATE: 03/18/15 | DWG. NO. WDET018A
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

7 **2" WATER METER**
NOT TO SCALE

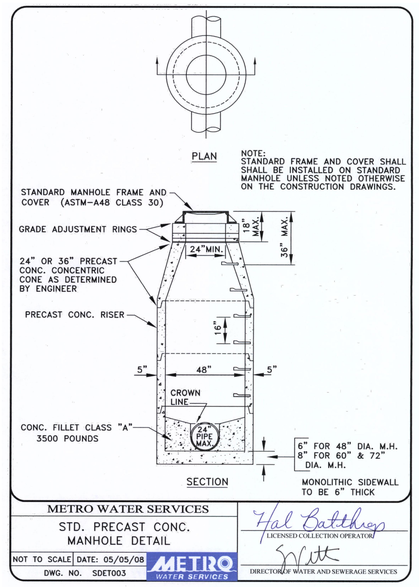


METRO WATER SERVICES
STANDARD CONCRETE VALVE BOX
NOT TO SCALE | DATE: 02/22/08 | DWG. NO. WDET012
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES



METRO WATER SERVICES
SMALL GRAY IRON VALVE BOX FRAME AND COVER
NOT TO SCALE | DATE: 06/26/14 | DWG. NO. WDET001
Hal Balthrop, LICENSED DISTRIBUTION SYSTEM OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

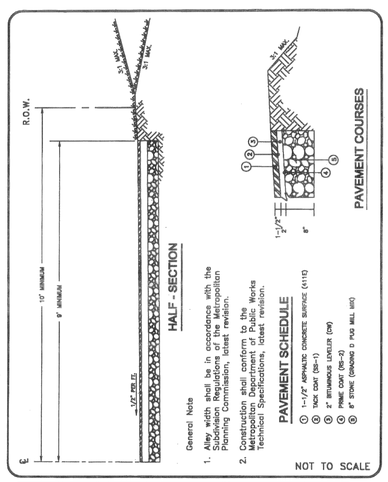
4 **VALVE BOX & COVER**
NOT TO SCALE



METRO WATER SERVICES
STD. PRECAST CONC. MANHOLE DETAIL
NOT TO SCALE | DATE: 05/05/08 | DWG. NO. SDET003
Hal Balthrop, LICENSED COLLECTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

11 **RESERVED**
NOT TO SCALE

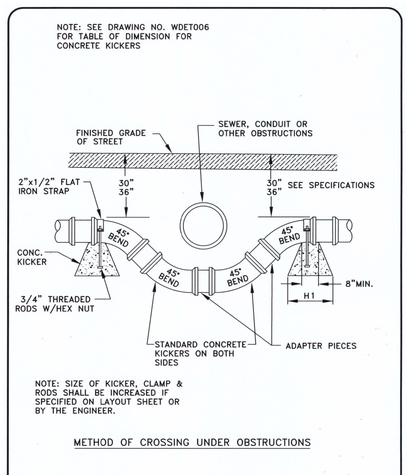
10



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF PUBLIC WORKS	STANDARD ALLEY SECTION	DWG. NO. ST-263
ASST. DIR. ENG.: Mark Macy	DATE: 4/25/00	
DIRECTOR: Ronald Turner	DATE: 8/25/00	REVISED: 08/25/00

ALLEY SECTION (METRO ST-263)
NOT TO SCALE

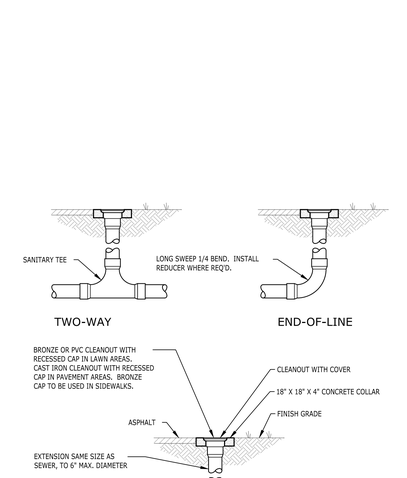
6



METRO WATER SERVICES
CROSSING UNDER OBSTRUCTIONS
NOT TO SCALE | DATE: 02/22/08 | DWG. NO. WDET010
Hal Balthrop, LICENSED DISTRIBUTION OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

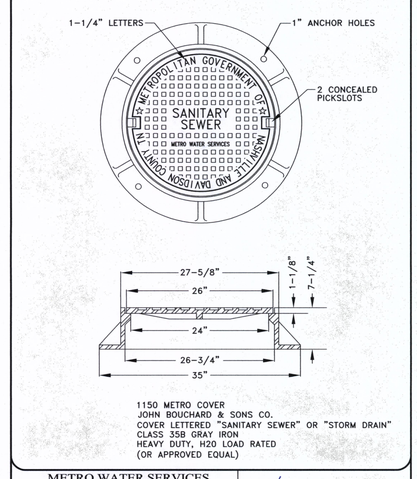
CROSSING UNDER OBSTRUCTIONS (METRO STD. WDET010)
NOT TO SCALE

5



CLEANOUTS
NO SCALE

2



METRO WATER SERVICES
STANDARD MANHOLE FRAME AND COVER
NOT TO SCALE | DATE: 11/08/13 | DWG.NO. SDET001
Hal Balthrop, LICENSED COLLECTION SYSTEM OPERATOR
DIRECTOR OF WATER AND SEWERAGE SERVICES

48" SEWER MANHOLE
NOT TO SCALE

Catalyst DESIGN GROUP
5100 TENNESSEE AVENUE, NASHVILLE, TN 37209
(615) 512-7200 | WWW.CATALYSTDG.COM

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BELMONT UNIVERSITY FRIST COLLEGE OF MEDICINE

PLANNING CASE NO. 2018IN-001-007
WEDGEWOOD AVENUE NASHVILLE TENNESSEE

BELMONT UNIVERSITY

DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	SEPTEMBER 16, 2021
Project No	20210121
Drawn By	Checked By

Drawing Title

SITE DETAILS

Sheet Number

C8.2

P:\2020\20200121\dwg\Construction\20200121_C8.0_DET.dwg-C8.2 SITE DETAILS Sep 15, 2021 cpaul

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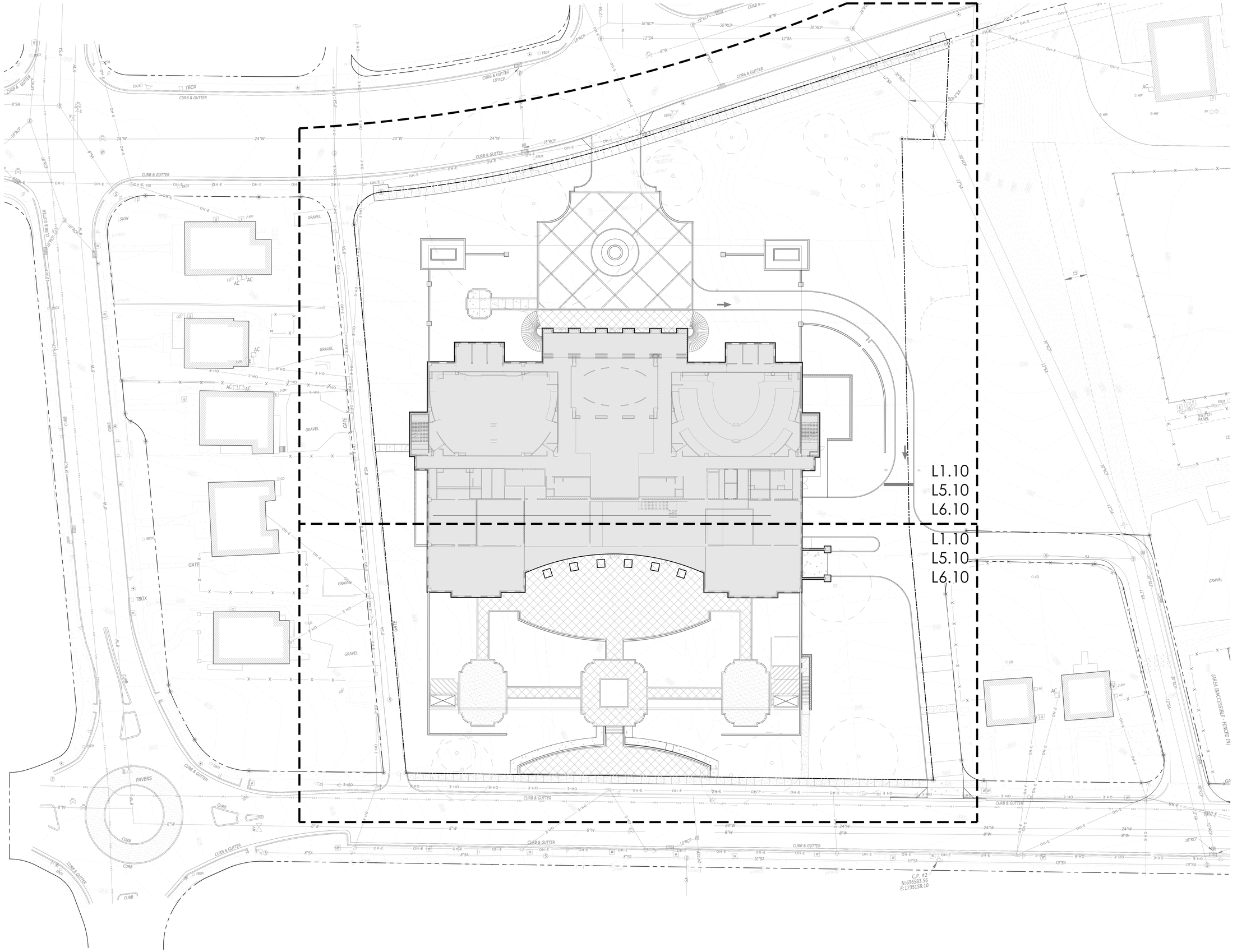

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Georgia Registration No. RA-002312

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DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	
Project No	212120
Drawn By	WO
Checked By	RW

Drawing Title

OVERALL SITE PLAN

Sheet Number

L1.00

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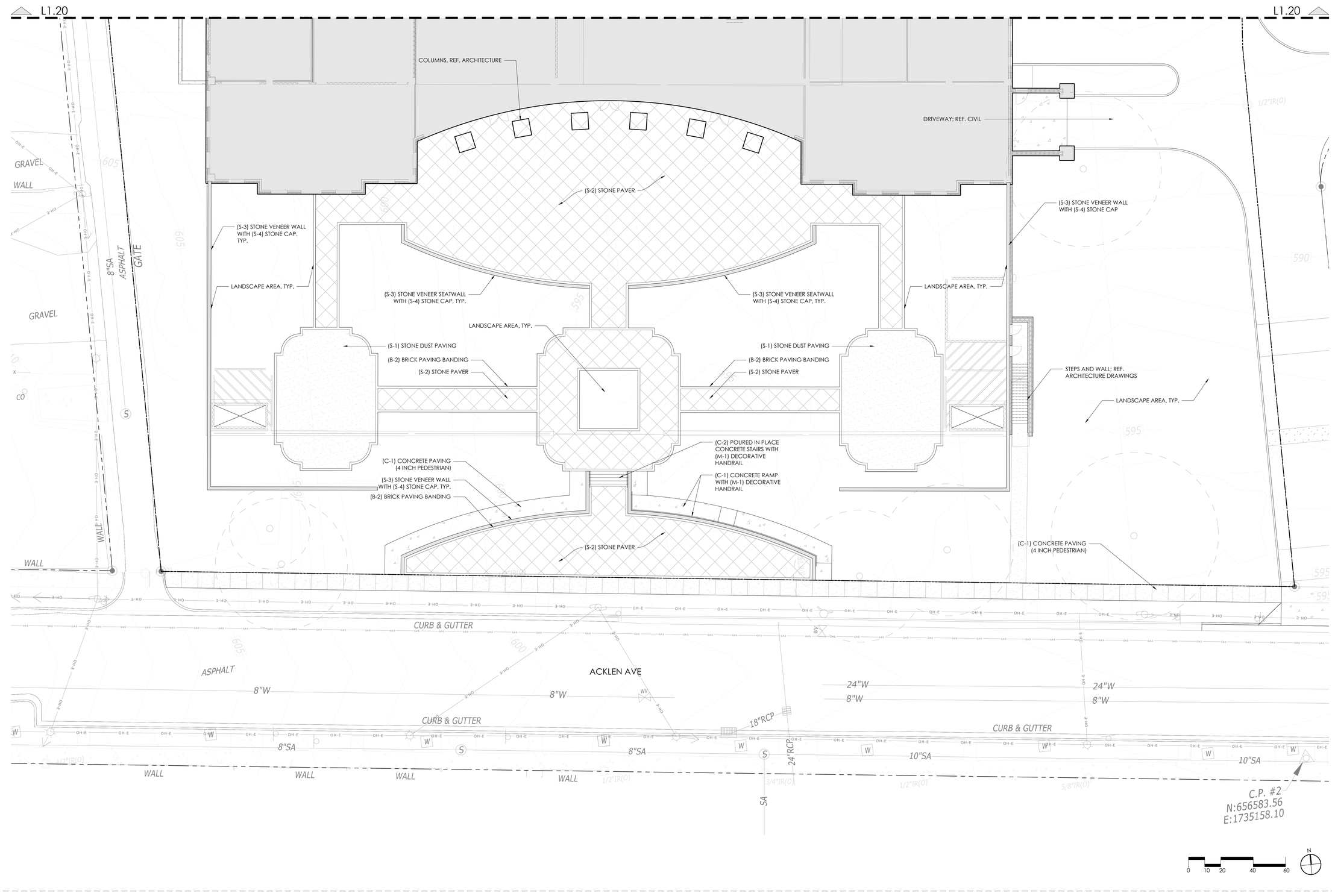

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DOCUMENT CHANGES

Description	Date

Issue Description	FINAL IO SITE PLAN
Original Issue Date	
Project No	212120
Drawn By	WO
Checked By	RW

Drawing Title

SOUTHERN SITE PLAN

Sheet Number

L1.10

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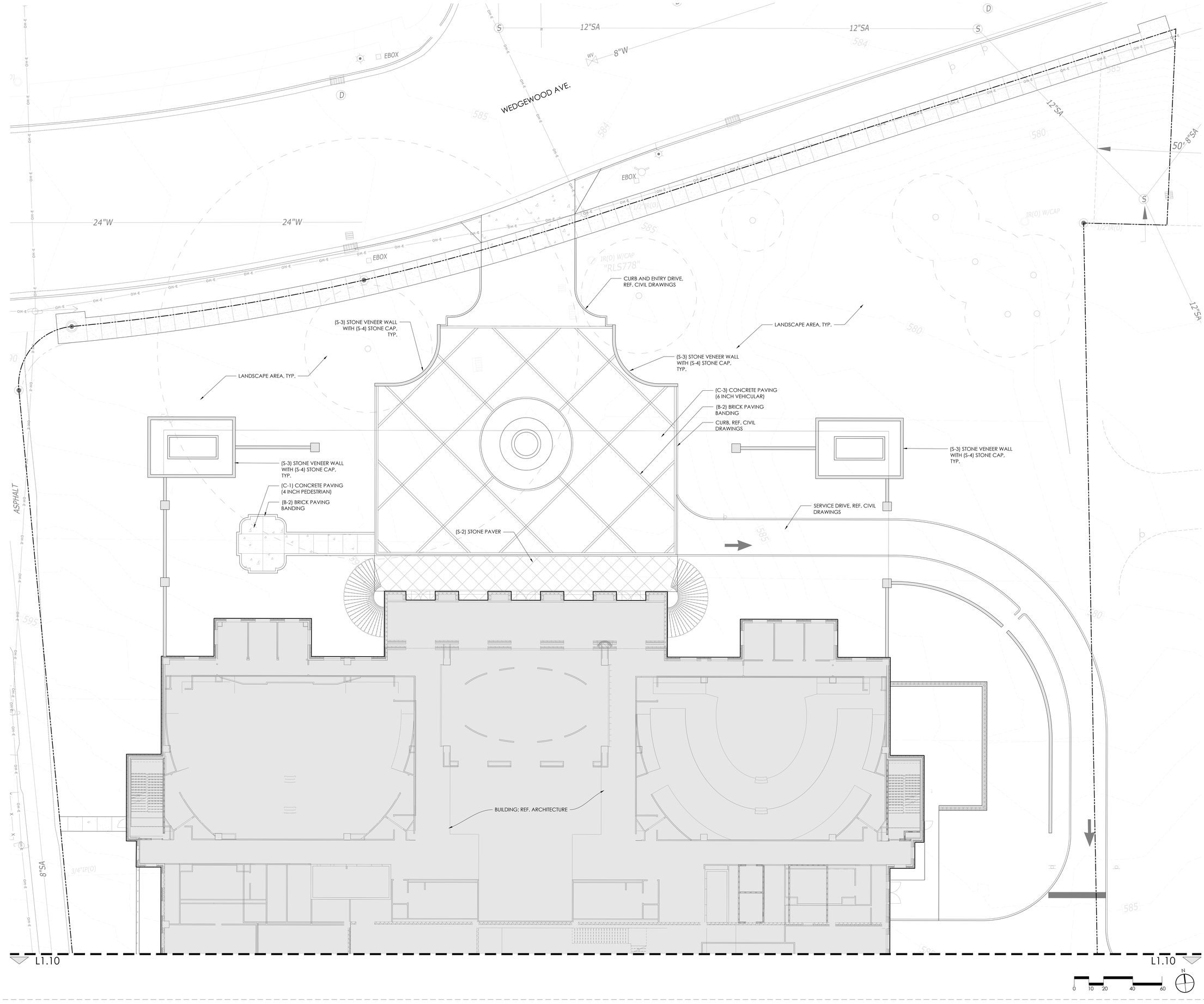

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DOCUMENT CHANGES

Description	Date

Issue Description FINAL IO SITE PLAN
Original Issue Date
Project No 212120
Drawn By WO Checked By RW
Drawing Title

NORTHERN SITE PLAN

Sheet Number
L1.20

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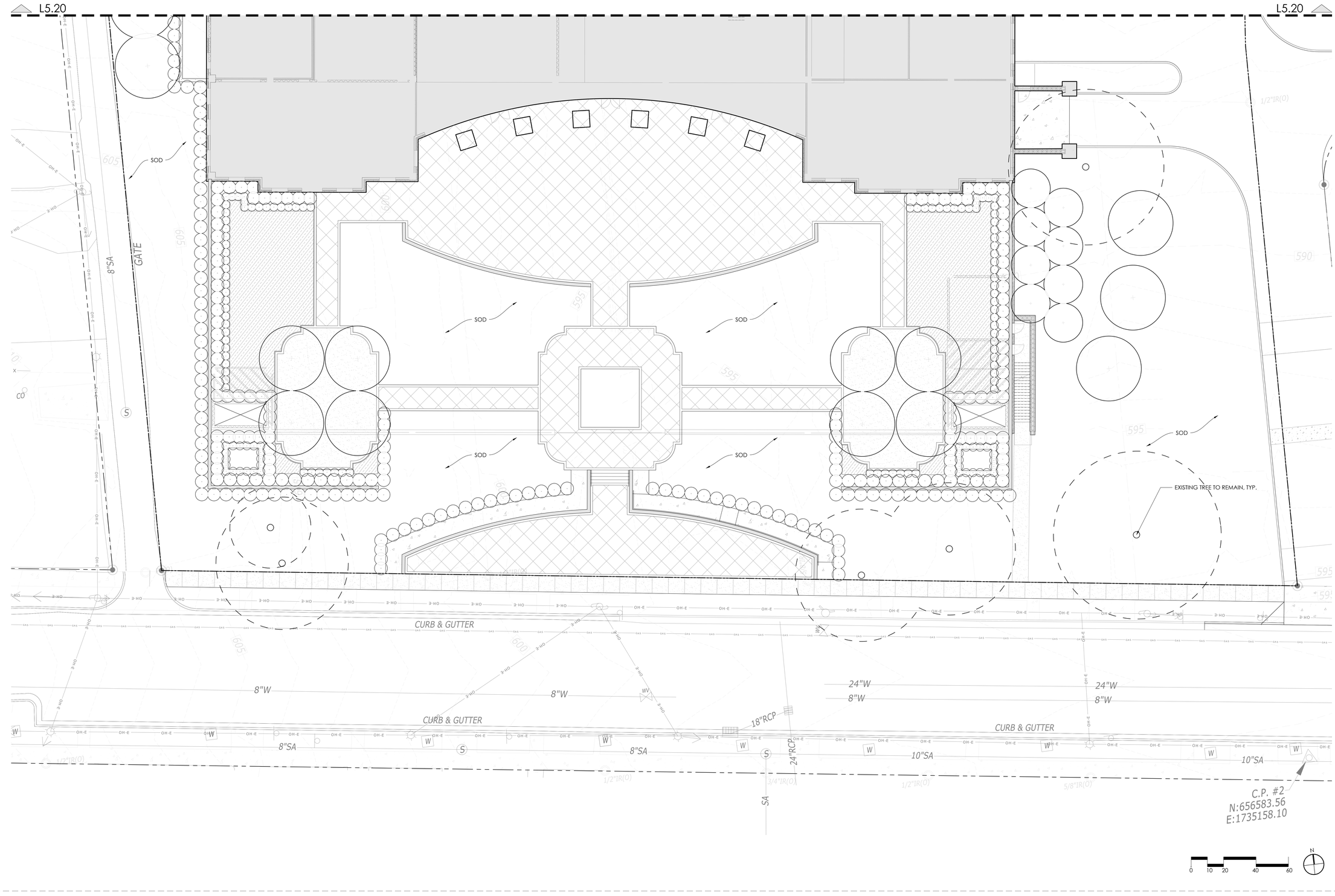

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615-329-9445
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DOCUMENT CHANGES

Description	Date

Issue Description FINAL IO SITE PLAN
Original Issue Date
Project No 212120
Drawn By WO Checked By RW

Drawing Title

SOUTHERN PLANTING PLAN

Sheet Number
L5.10

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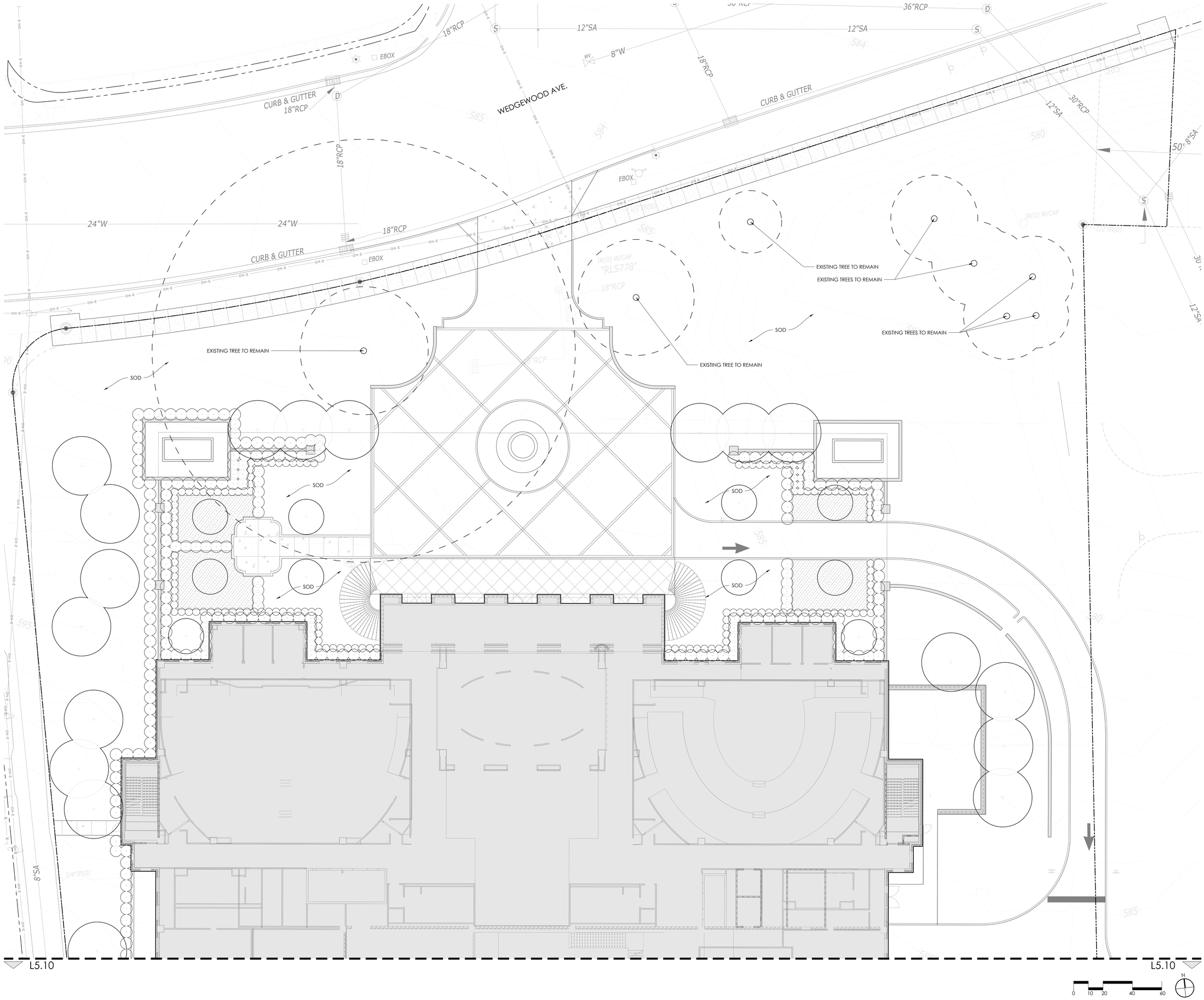

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DOCUMENT CHANGES

Description	Date

Issue Description FINAL IO SITE PLAN
Original Issue Date
Project No 212120
Drawn By WO Checked By RW
Drawing Title

NORTHERN PLANTING PLAN

Sheet Number
L5.20

2 EAST ELEVATION

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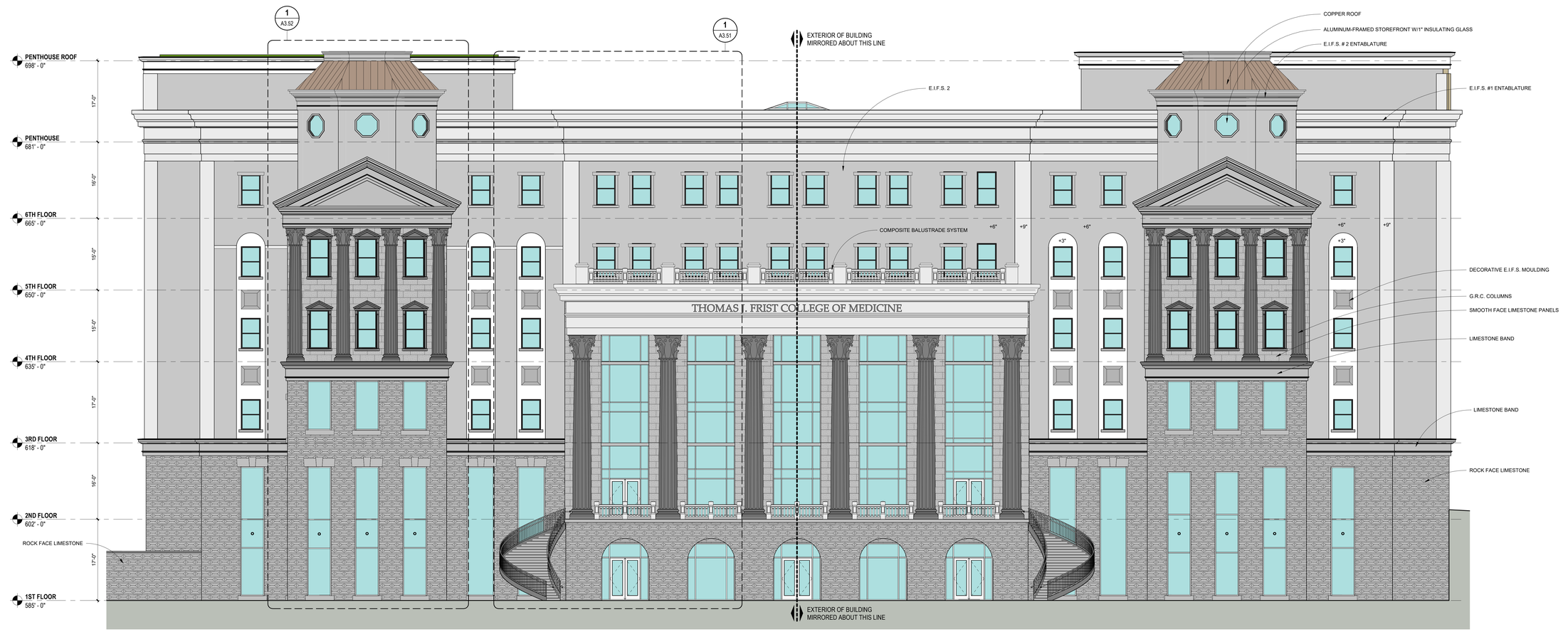

1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"

EIFS FINISH LEGEND

	EIFS #1
	EIFS #2
	EIFS #3

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DOCUMENT CHANGES

Description	Date

Issue Description	SD PACKAGE - CORE & SHELL
Original Issue Date	08/30/2021
Project No	20201.01
Drawn By	BC
Checked By	DL

Drawing Title

EXTERIOR ELEVATIONS

Sheet Number

A2.01

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