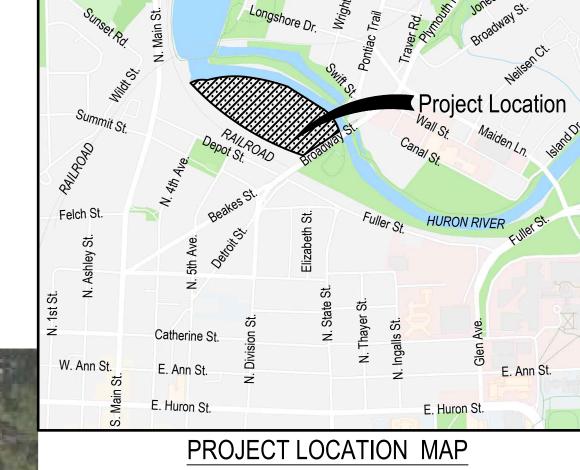
OUEET INDEV									
SHEET INDEX									
SHEET NUMBER	SHEET TITLE								
C000	SITE AERIAL AND LOCATION MAP								
C001	EXISTING CONDITIONS								
C002	OVERALL LAYOUT PLAN								
C100	OVERALL EGLE JOINT PERMIT APPLICATION PLAN								
C101	SITE DISCHARGE, RIPRAP, RIVER MAT, AND ICE RINK DETAILS								
C102	STONE STEPS AND KAYAK LAUNCH ENLARGEMENTS AND SECTIONS								
C103	PEDESTRIAN BRIDGE AND BOARDWALK DETAILS								
CG101	GRADING PLAN - AREA A								
CG102	GRADING PLAN - AREA B								
CG103	GRADING PLAN - AREA C - OFFSITE								
CG200	FLOOD PLAIN GRADING PLAN								
CG201	FLOOD PLAIN PROPOSED GRADE DIGITAL MODEL								
CG202	FLOOD PLAIN STORAGE ANALYSIS EXISTING CONDITIONS								
CG203	FLOOD PLAIN STORAGE ANALYSIS PROPOSED CONDITIONS								
CG203A	PROPOSED CUT AND FILL WITHIN FLOODWAY								
CG204	GRADING SECTIONS								
CG205	GRADING SECTIONS								
CG206	GRADING SECTIONS								
CG207	BUILDING FLOOD CODE INFORMATION								



BROADWAY PARK WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

THE ROXBURY GROUP
ON BEHALF OF:
LOWER TOWN
PARTNERS, LLC

SMITHGROUP

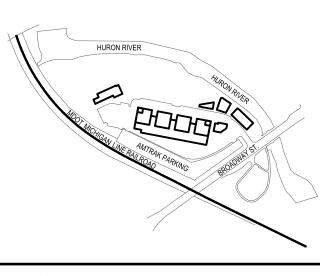
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

> HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226

	<u> </u>	
	<u> </u>	
SEALS AND SIGNATURES		
NOT FOR CONS		
	TRU	C7101

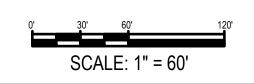
KEY PLAN

ISSUED FOR



SITE AERIAL AND LOCATION

MAP



SCALE
PROJECT NUMBER

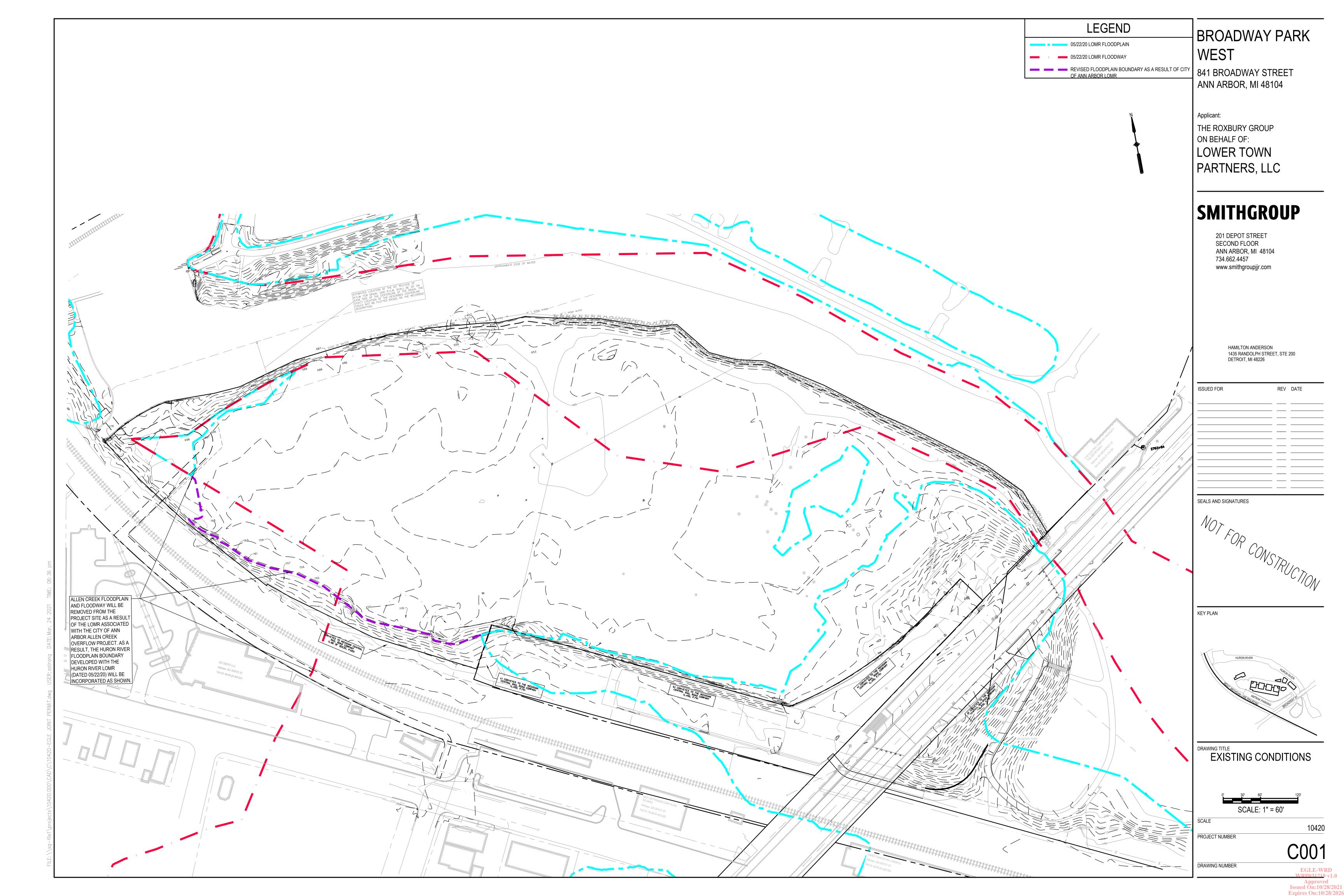
C000

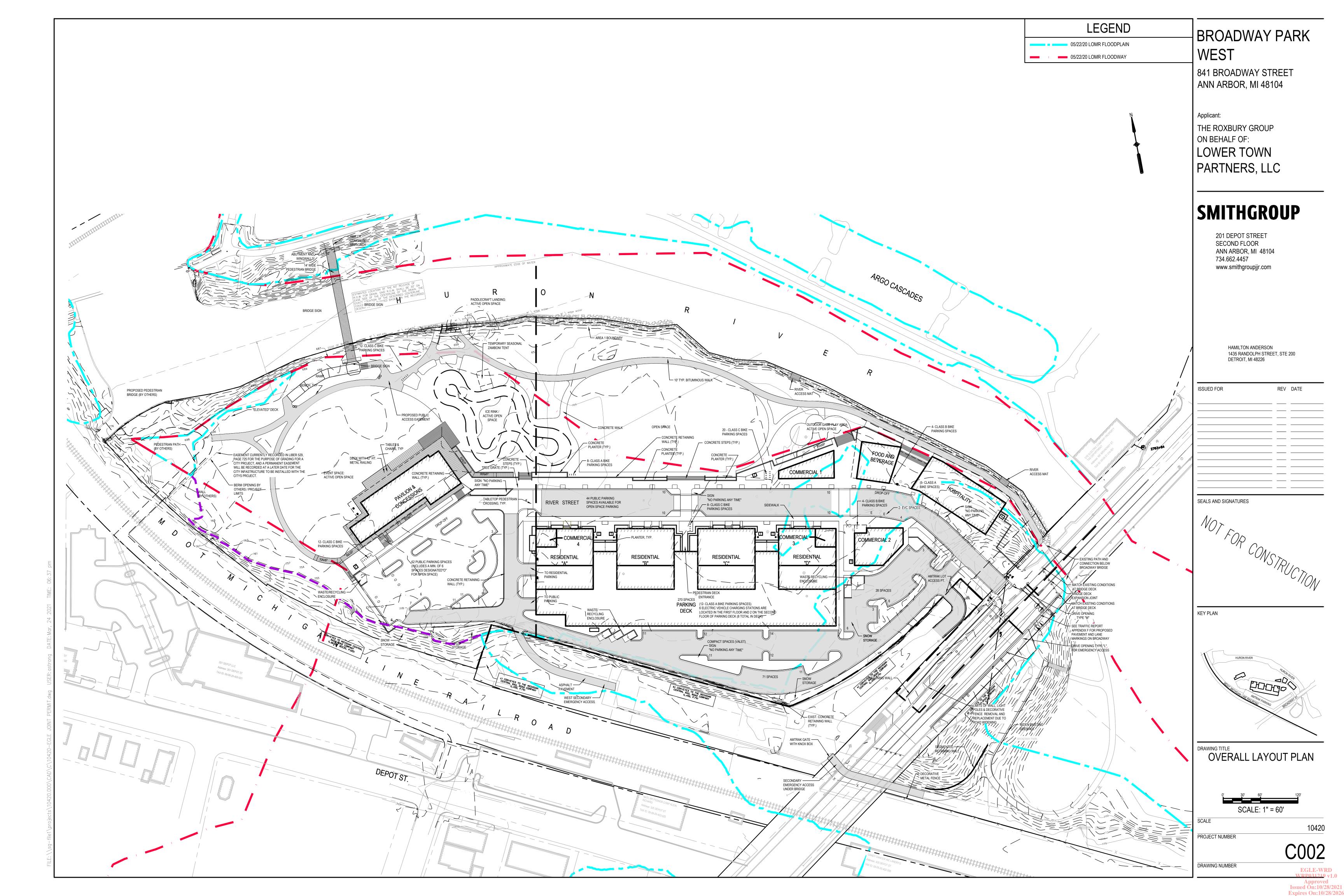
DRAWING NUMBER

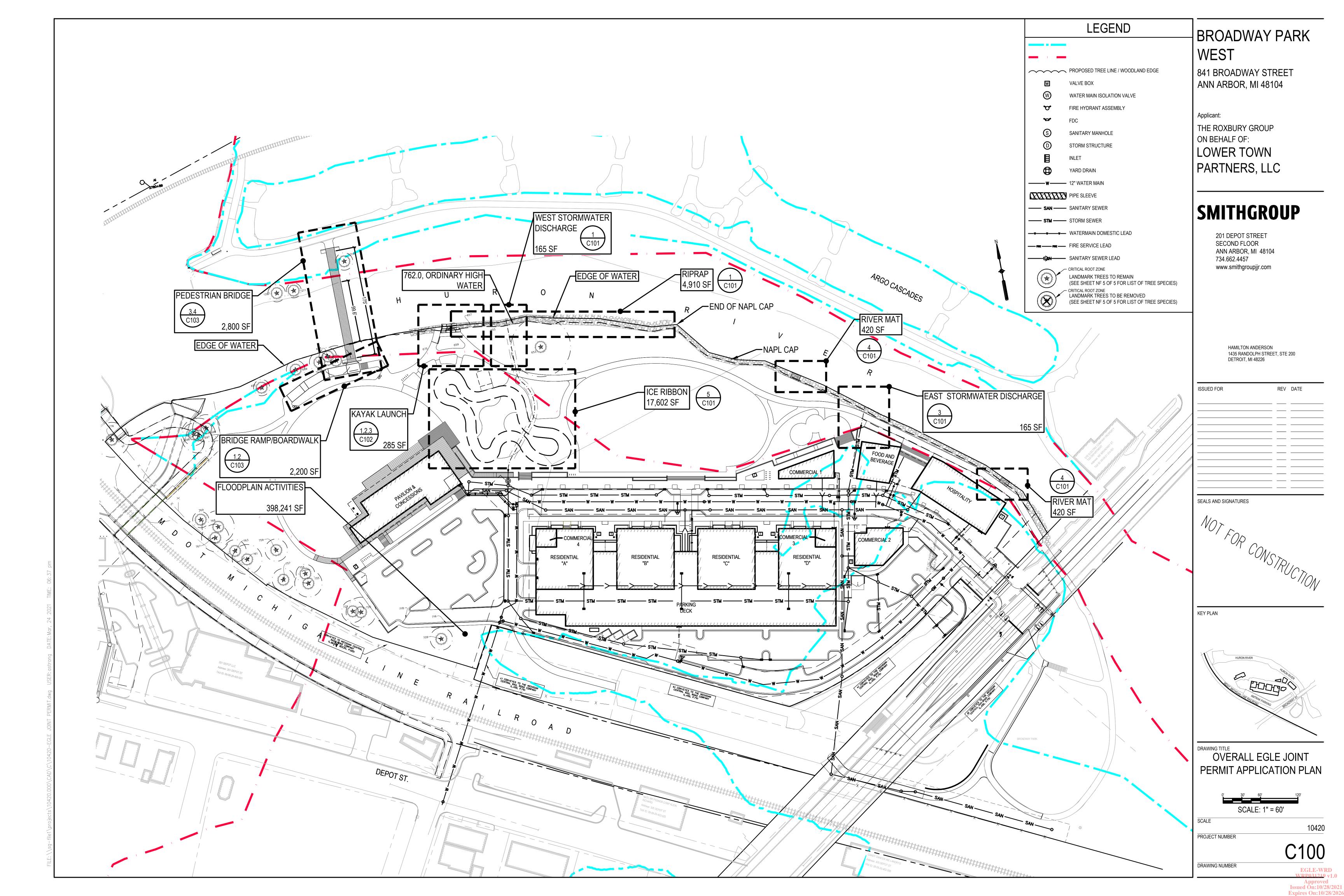
EG.

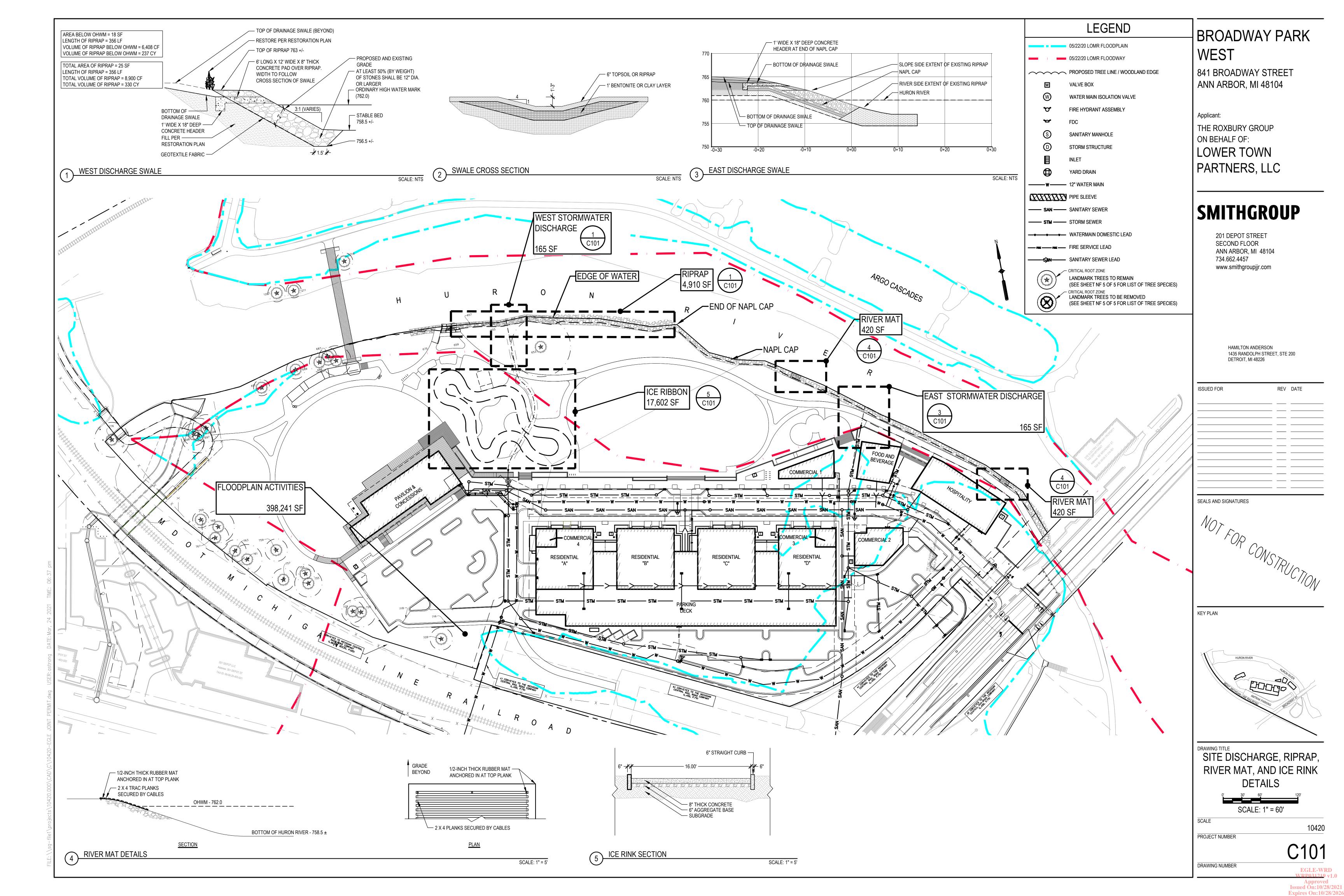
WRP

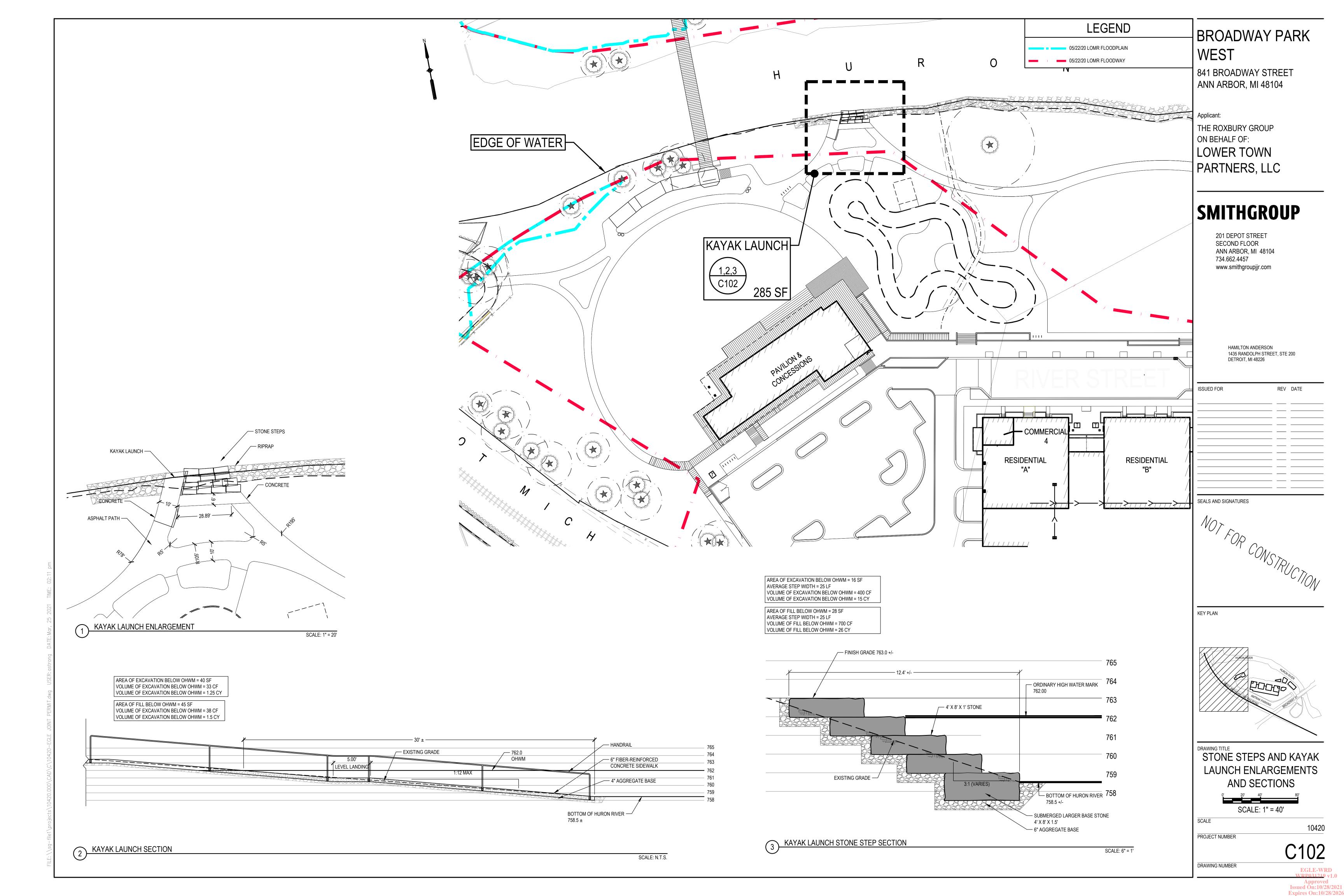


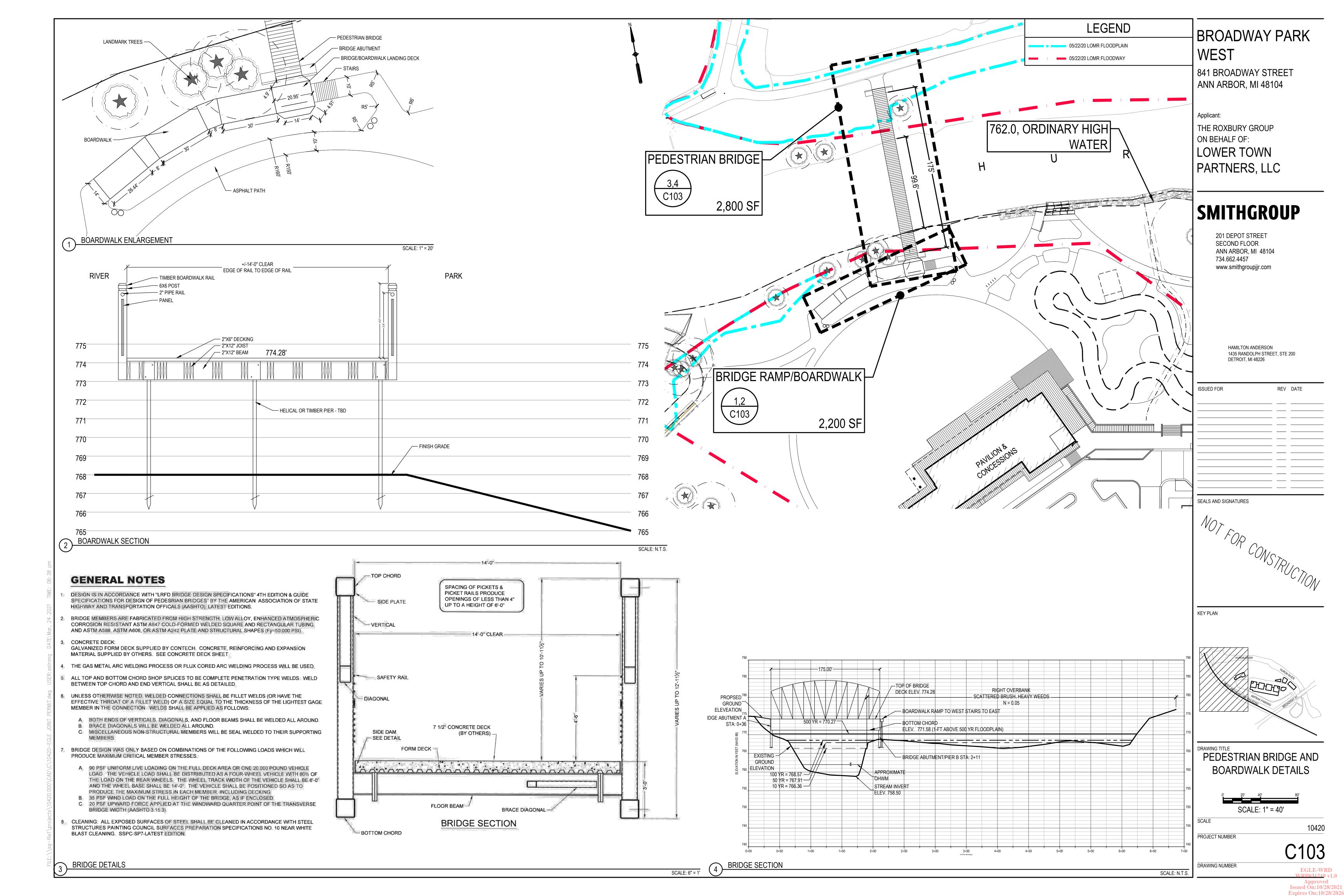


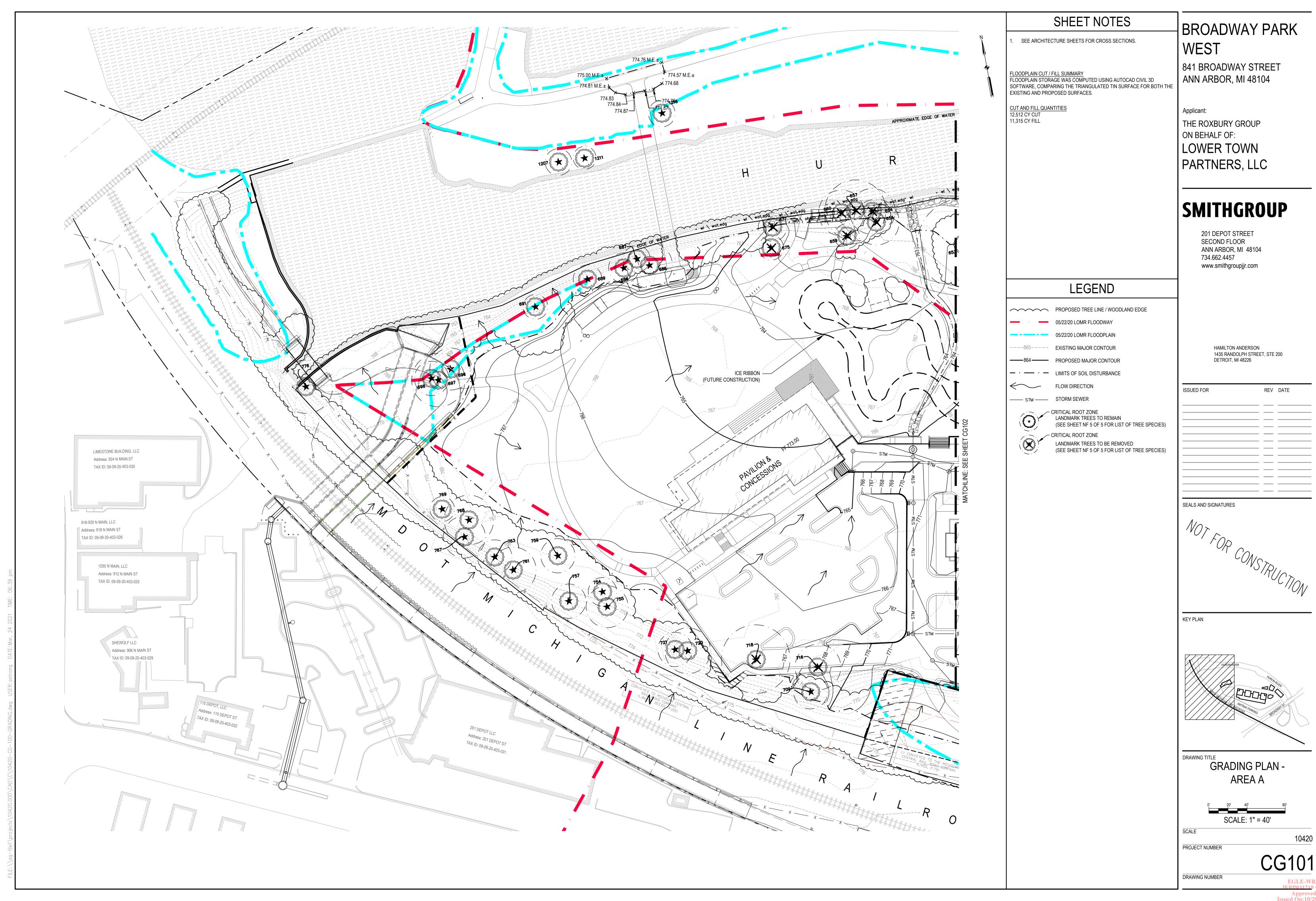




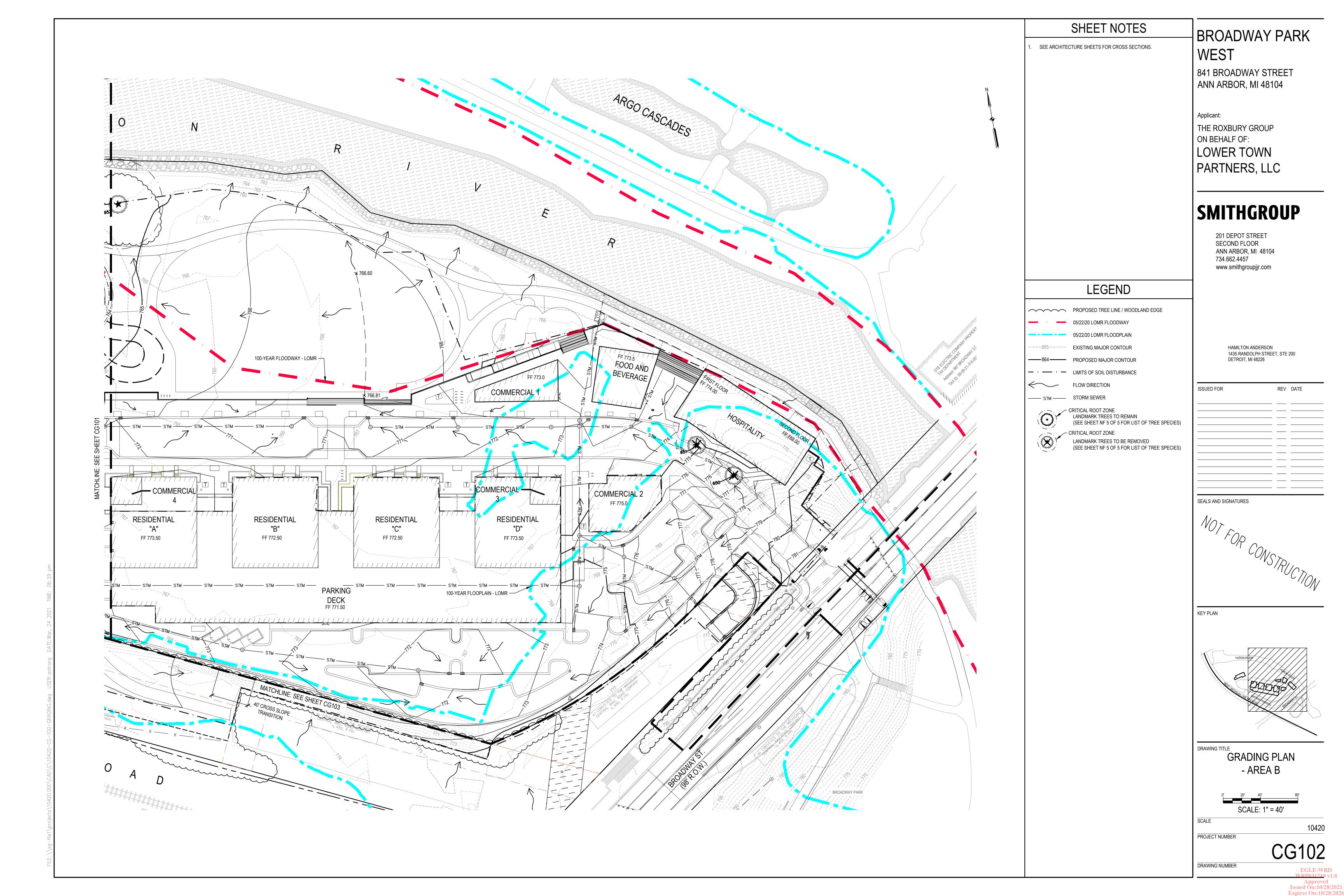


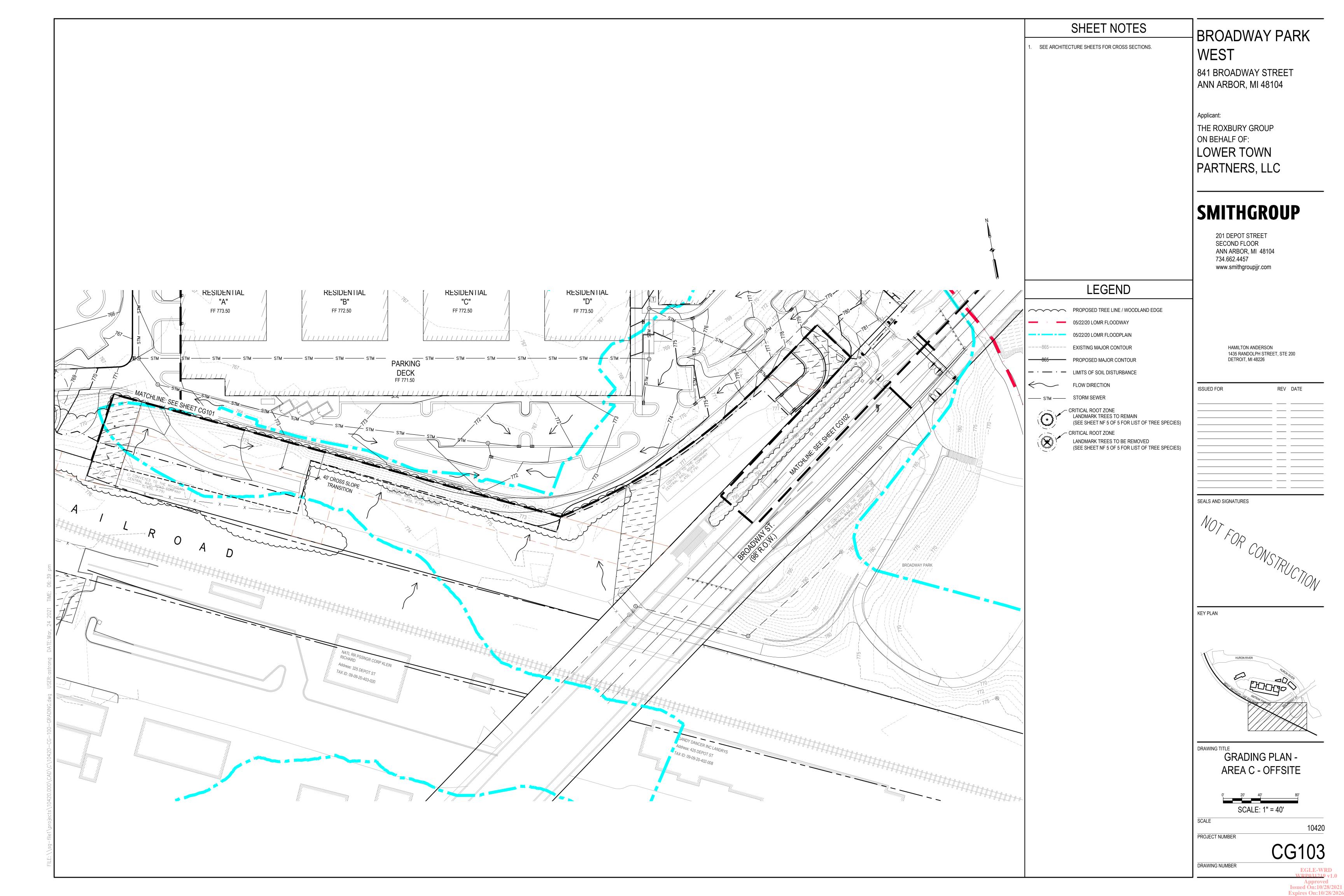


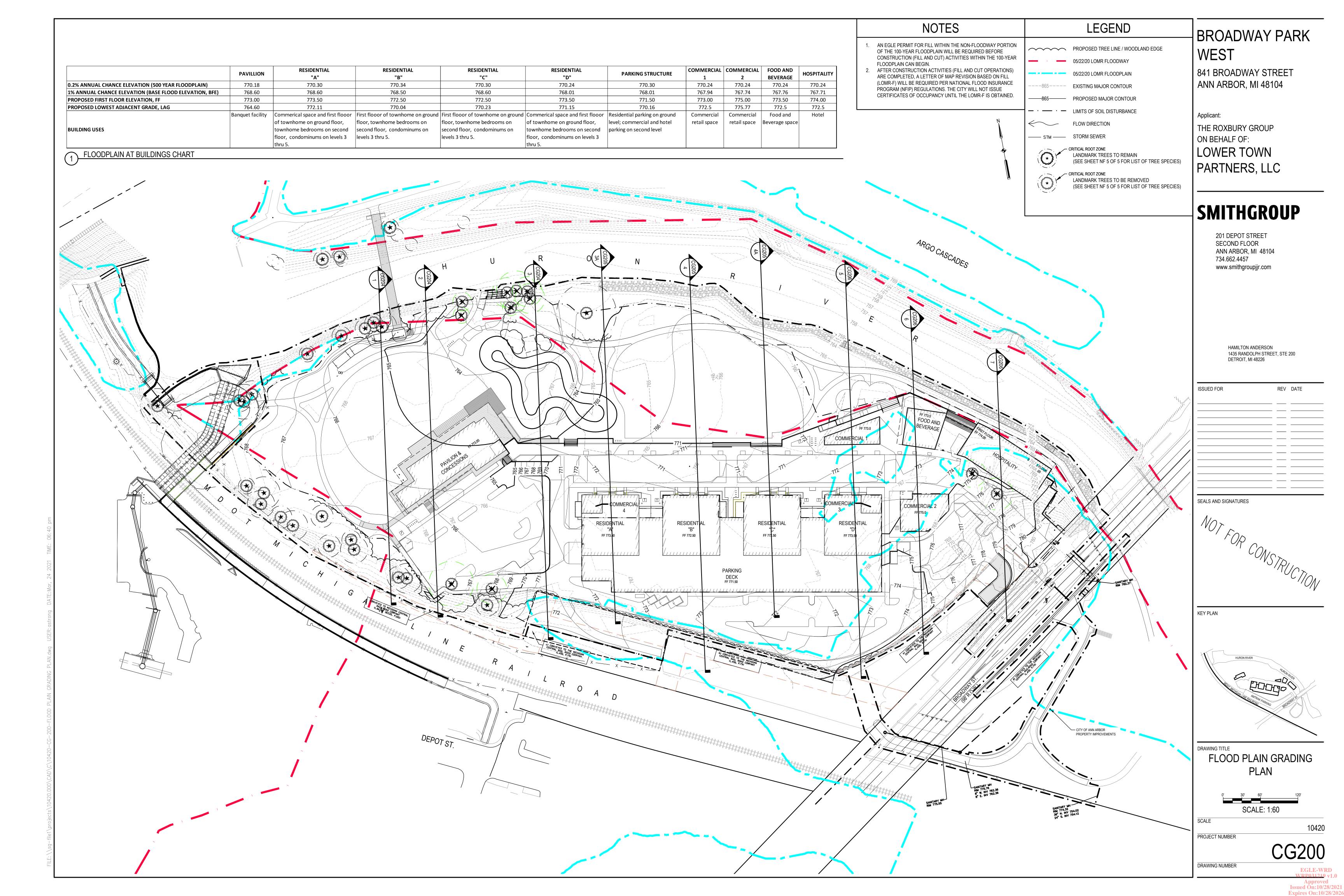


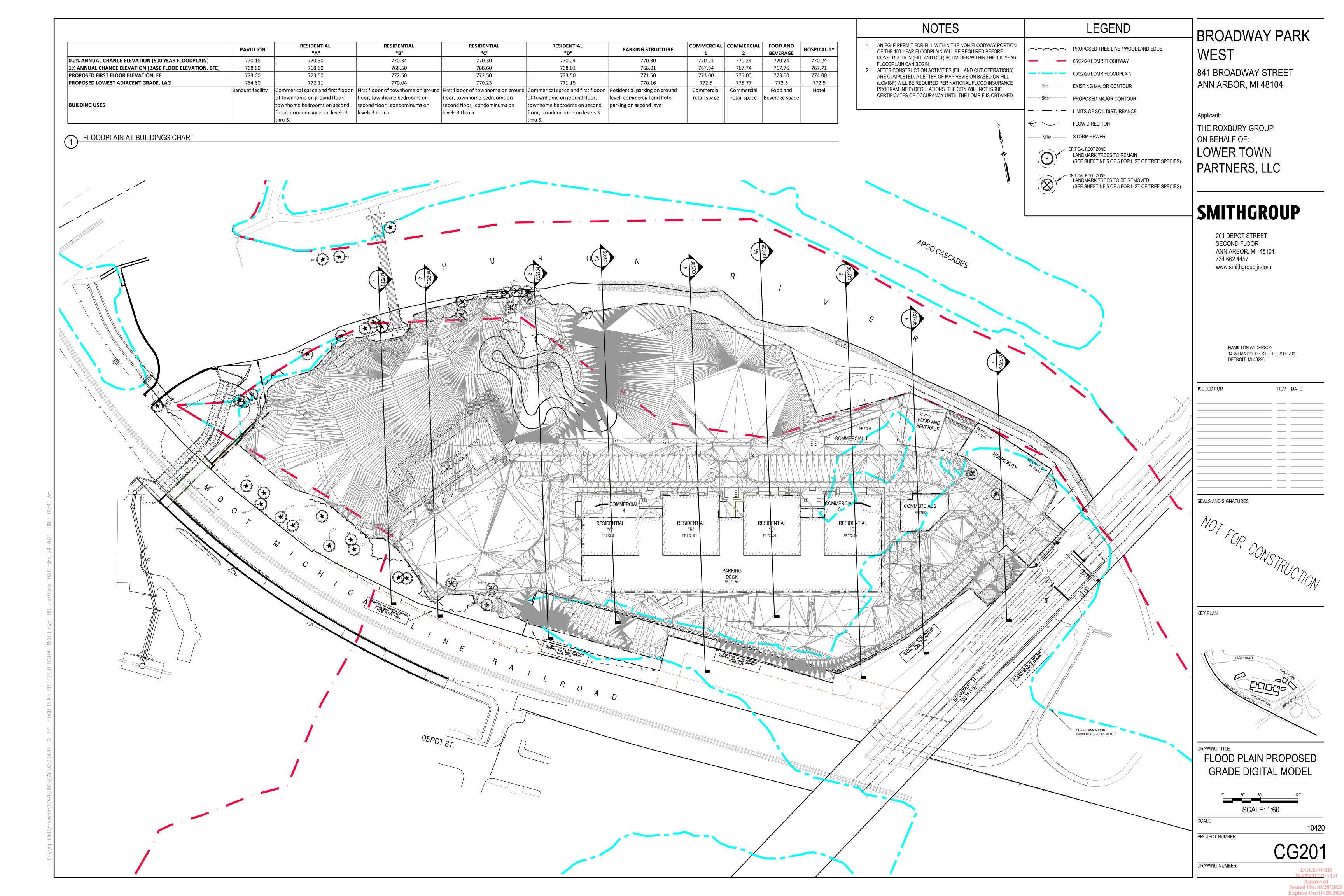


Approved Issued On:10/28/202 Expires On:10/28/202









0.2% ANNUAL CHANCE ELEVATION (500 YEAR FLOODPLAIN) 770.18 770.30 770.34 770.30 770.24 77	PROPOSED TREE LINE / WOODLAND EDGE 05/22/20 LOMR FLOODWAY 05/22/20 LOMR FLOODPLAIN 865 EXISTING MAJOR CONTOUR PROPOSED MAJOR CONTOUR IMITS OF SOIL DISTURBANCE FLOW DIRECTION STM STORM SEWER CRITICAL ROOT ZONE LANDMARK TREES TO REMAIN (SEE SHEET NE 5 OF 5 FOR LIST OF TREE SPECIES)	BROADWAY PARK WEST 841 BROADWAY STREET ANN ARBOR, MI 48104 Applicant: THE ROXBURY GROUP ON BEHALF OF: LOWER TOWN PARTNERS, LLC
2 EL WARIES, R63 ITO 763.7 EL WARIES, R63 ITO 764.7 D. 765.7 P. 2009 3 EL WARIES, R63 ITO 764.7 EL WARIES, R63 ITO 764.7 D. 765.7 ID 106977 3962 4 EL WARIES, R73 ITO 765.7 EL WARIES, R73 ITO 765.7 ID 230943 8553 5 EL WARIES, R73 ITO 766.7 EL WARIES, R78 ITO 766.7 D. 2009 D.	O.0 TO 1.0-FT STORAGE DEPTH 1.0 TO 2.0-FT STORAGE DEPTH 2.0 TO 3.0-FT STORAGE DEPTH 3.0 TO 4.0-FT STORAGE DEPTH 4.0 TO 5.0-FT STORAGE DEPTH GREATER THAN 5.0-FT STORAGE DEPTH	SMITHGROUP 201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com
ARGO CASCADES	1. AN EGLE PERMIT FOR FILL WITHIN THE NON-FLOODWAY PORTION OF THE 100-YEAR FLOODPLAIN WILL BE REQUIRED BEFORE CONSTRUCTION (FILL AND CUT) ACTIVITIES WITHIN THE 100-YEAR FLOODPLAIN CAN BEGIN. 2. AFTER CONSTRUCTION ACTIVITIES (FILL AND CUT OPERATIONS) ARE COMPLETED, A LETTER OF MAP REVISION BASED ON FILL (LOMR-F) WILL BE REQUIRED PER NATIONAL FLOOD INSURANCE PROGRAM (NFIP) REGULATIONS. THE CITY WILL NOT ISSUE CERTIFICATES OF OCCUPANCY UNTIL THE LOMR-F IS OBTAINED.	HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226 ISSUED FOR REV DATE
		SEALS AND SIGNATURES MOT FOR CONSTRUCTION
PARKING DECKT TO A COLOR FOR THE A COLOR FOR T	SANITARY MATERIAL TRUE AND TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE	HURON RIVER AURON RIVER BOOK RIVER
		FLOOD PLAIN STORAGE ANALYSIS EXISTING CONDITIONS O

EGLE-WRD WRP031219 v1.0 Approved Issued On:10/28/2021 Expires On:10/28/2026

	243/01104	RESIDENTIAL	RESIDENTIAL	RESIDENTIAL	RESIDEI	NTIAL		COMMERCIAL C	OMMERCIAL	FOOD AND	
	PAVILLION	"A"	"B"	"C"	"D)"	PARKING STRUCTURE	1	2	BEVERAGE	HOSPITALITY
0.2% ANNUAL CHANCE ELEVATION (500 YEAR FLOODPLAIN)	770.18	770.30	770.34	770.30	770.	.24	770.30	770.24	770.24	770.24	770.24
% ANNUAL CHANCE ELEVATION (BASE FLOOD ELEVATION, BFE)	768.60	768.60	768.50	768.60	768.	.01	768.01	767.94	767.74	767.76	767.71
PROPOSED FIRST FLOOR ELEVATION, FF	773.00	773.50	772.50	772.50	773.	.50	771.50	773.00	775.00	773.50	774.00
PROPOSED LOWEST ADJACENT GRADE, LAG	764.60	772.11	770.04	770.23	771.		770.16	772.5	775.77	772.5	772.5
	Banquet facility	Commerical space and first flood		nd First flooor of townhome on ground	· ·		Residential parking on ground	Commercial	Commercial	Food and	Hotel
		of townhome on ground floor,	floor, townhome bedrooms on	floor, townhome bedrooms on	of townhome on g		level; commercial and hotel	retail space	retail space	Beverage space	
BUILDING USES		townhome bedrooms on second	second floor, condominums on	second floor, condominums on	townhome bedroo		parking on second level				
		floor, condominums on levels 3	levels 3 thru 5.	levels 3 thru 5.	floor, condominur	ms on levels 3					
		thru 5.			thru 5.						
FLOODPLAIN AT BUILDINGS CHART											
							ELEVATIO	NITARIE			
							LLLVATIC	IN IADLL			
									1.554.76	_\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
					NUMBER	MIN. ELE'	VATION MAX. ELEVAT	TON COLOR	AREA (S	SF) VOL	JME (CY)
						-5.39	95 -4.000				
					1	EL. VARIES, 76		763 7	33285*	637	
						-4.00	· · · · · · · · · · · · · · · · · · ·	700.1			
					2		5.1 TO 763.7 EL. VARIES, 766.1 TO	764.7	90849	3365	
						-3.00	,				
					3		6.1 TO 764.7 EL. VARIES, 767.1 TO	765.7	149645	5542	
						-2.00	00 -1.000		470000	0500	
					4		7.1 TO 765.7 EL. VARIES, 768.1 TO	766.7	176383	6533	
					F	-1.00	0.000 (100-YR FLOOI	D EL.)	400446**	4540	
					5	EL. VARIES, 76	8.1 TO 766.7 EL. VARIES, 769.1 TC	767.7	190116**	4510	
						•	<u>'</u>	<u> </u>	•	· ·	
					* DUE T	TO THE FLUC	TUATION IN GROUND ELEVA	TION, THE STOR	AGE DEPTH	IN THIS INTE	RVAL
					VARIE	ES FROM 0 TO) 1 FOOT.				
							TION IN GROUND ELEVATION	AT TIF-IN TO FX	USTING. THE	STORAGE [FPTH IN
							RIES FROM 0 TO 1 FOOT.		,		
					(3) PROPO	JSED STOR	<u> AGE VOLUMES - 1' DEPTI</u>	HINTERVALS,	100-YEAR S	IORIVI	

HE PROPOSED GRADE ELEVATION TO BASE FLOOD THE CUT/FILL VOLUME BETWEEN THE TWO E PROPOSED FLOOD ELEVATION.

OWN GRAPHICALLY ON THIS SHEET REPRESENTS THE N FOR THE 100-YEAR FLOOD ELEVATION (1% ANNUAL

AVAILABLE FOR EACH FLOOD SCENARIO IS LISTED

FROM SURFACE MODELING)

CULATIONS FOR FUTURE ICE RINK FOR FUTURE ICE RINK = 304 CY ROPOSED 100-YR FLOOD EVENT CONDITIONS =

AGE = 20,020 CY AGE = 196 CY ADDITIONAL STORAGE IN PROPOSED

E VOLUME CALCULATIONS

T CG203A) = 1,277 CY T CG203A) = 470 CY : 807 CY OF CUT +/-

EVATION = 10,416 CY LEVATION = 9,105 CY FLOOD ELEVATION = 1,311 CY OF CUT +/-

OPOSED CONDITION + CUT/FILL DIFFERENCE IN 20,520 - 20,020) = 1,307 CY +/-

CEPTABLE THRESHOLD TO CONFIRM CHECK ON THE H 100-YR FLOOD ELEVATION OF 1,311 CY +/-

ATH 100-YR FLOOD ELEVATION

BROADWAY PARK WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

LEGEND

PROPOSED TREE LINE / WOODLAND EDGE

05/22/20 LOMR FLOODPLAIN

05/22/20 LOMR FLOODWAY

---865---- EXISTING MAJOR CONTOUR

——865—— PROPOSED MAJOR CONTOUR

— · — · — LIMITS OF SOIL DISTURBANCE

— STM — STORM SEWER

FLOW DIRECTION

~ CRITICAL ROOT ZONE

- CRITICAL ROOT ZONE

LANDMARK TREES TO REMAIN

LANDMARK TREES TO BE REMOVED

STORAGE DEPTH KEY

(SEE SHEET NF 5 OF 5 FOR LIST OF TREE SPECIES)

(SEE SHEET NF 5 OF 5 FOR LIST OF TREE SPECIES)

0.0 TO 1.0-FT STORAGE DEPTH

1.0 TO 2.0-FT STORAGE DEPTH

2.0 TO 3.0-FT STORAGE DEPTH 3.0 TO 4.0-FT STORAGE DEPTH

4.0 TO 5.0-FT STORAGE DEPTH

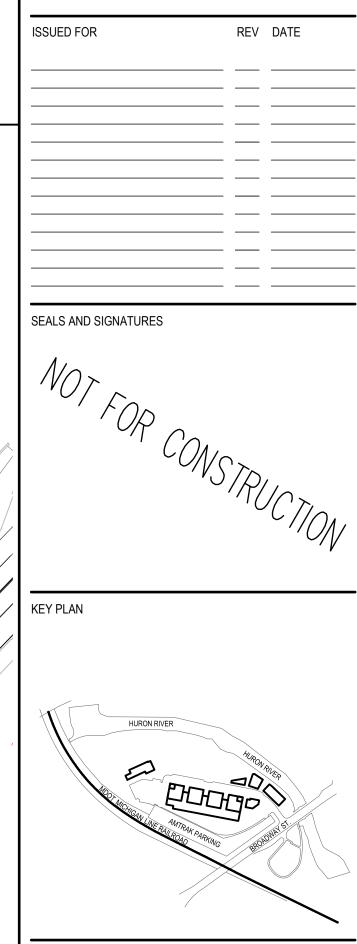
GREATER THAN 5.0-FT STORAGE DEPTH

THE ROXBURY GROUP ON BEHALF OF: LOWER TOWN PARTNERS, LLC

SMITHGROUP

201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

> HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226



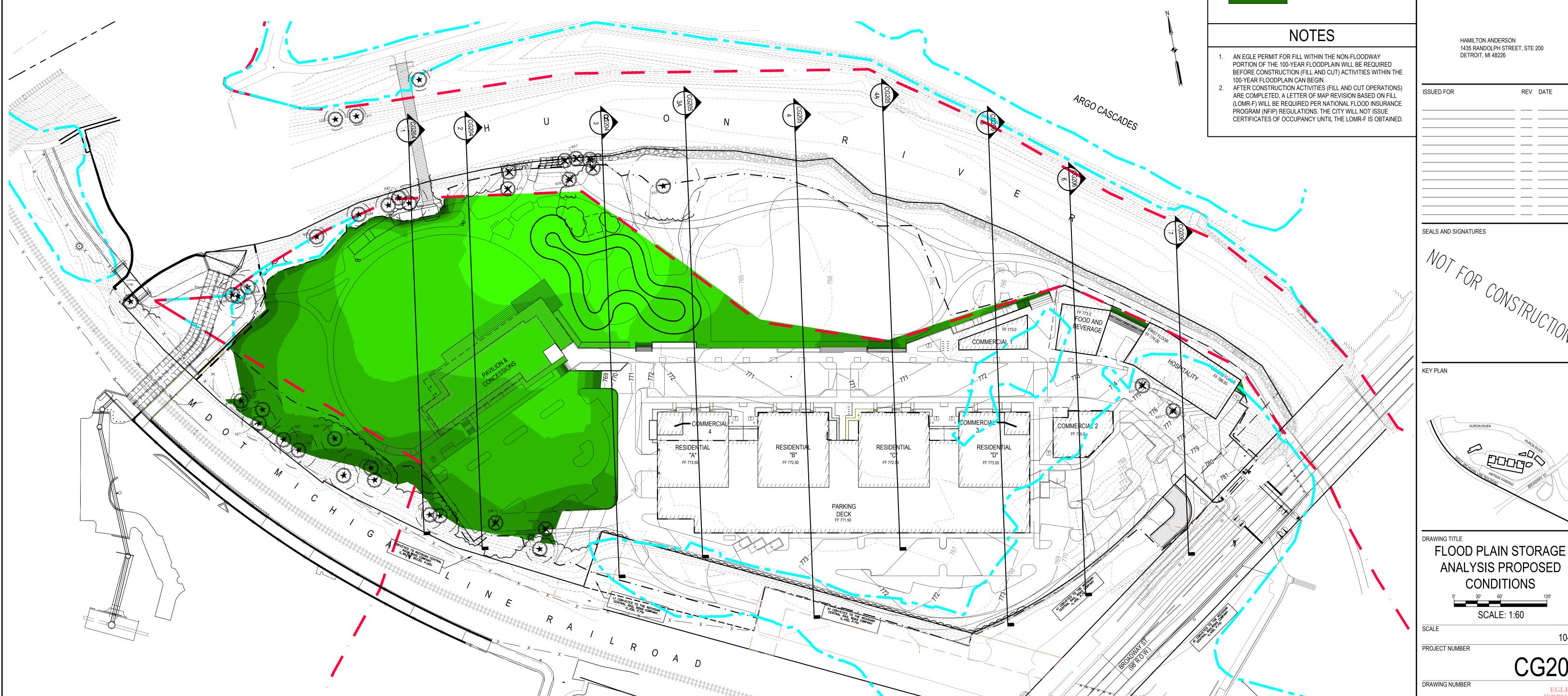
CONDITIONS

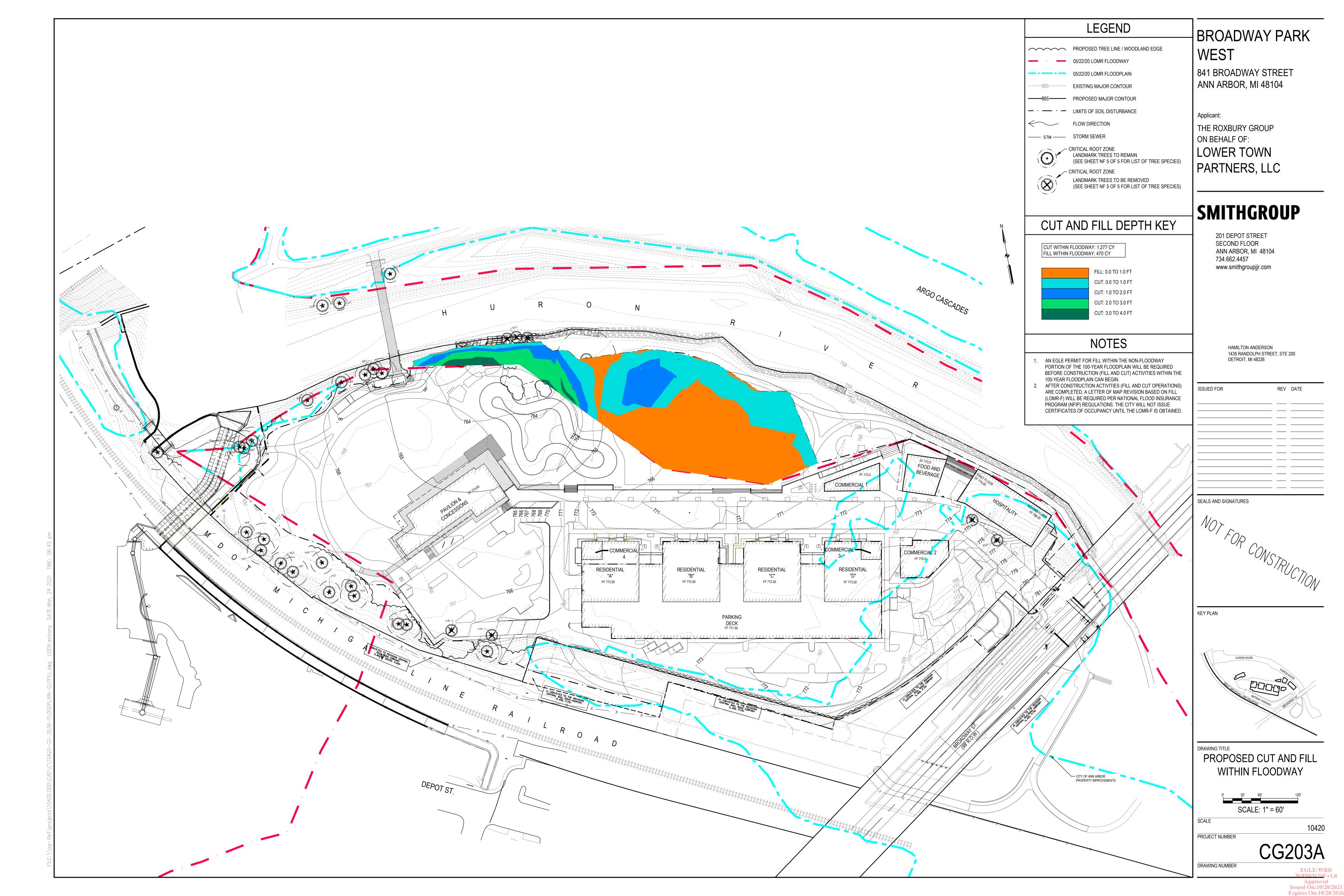
SCALE: 1:60

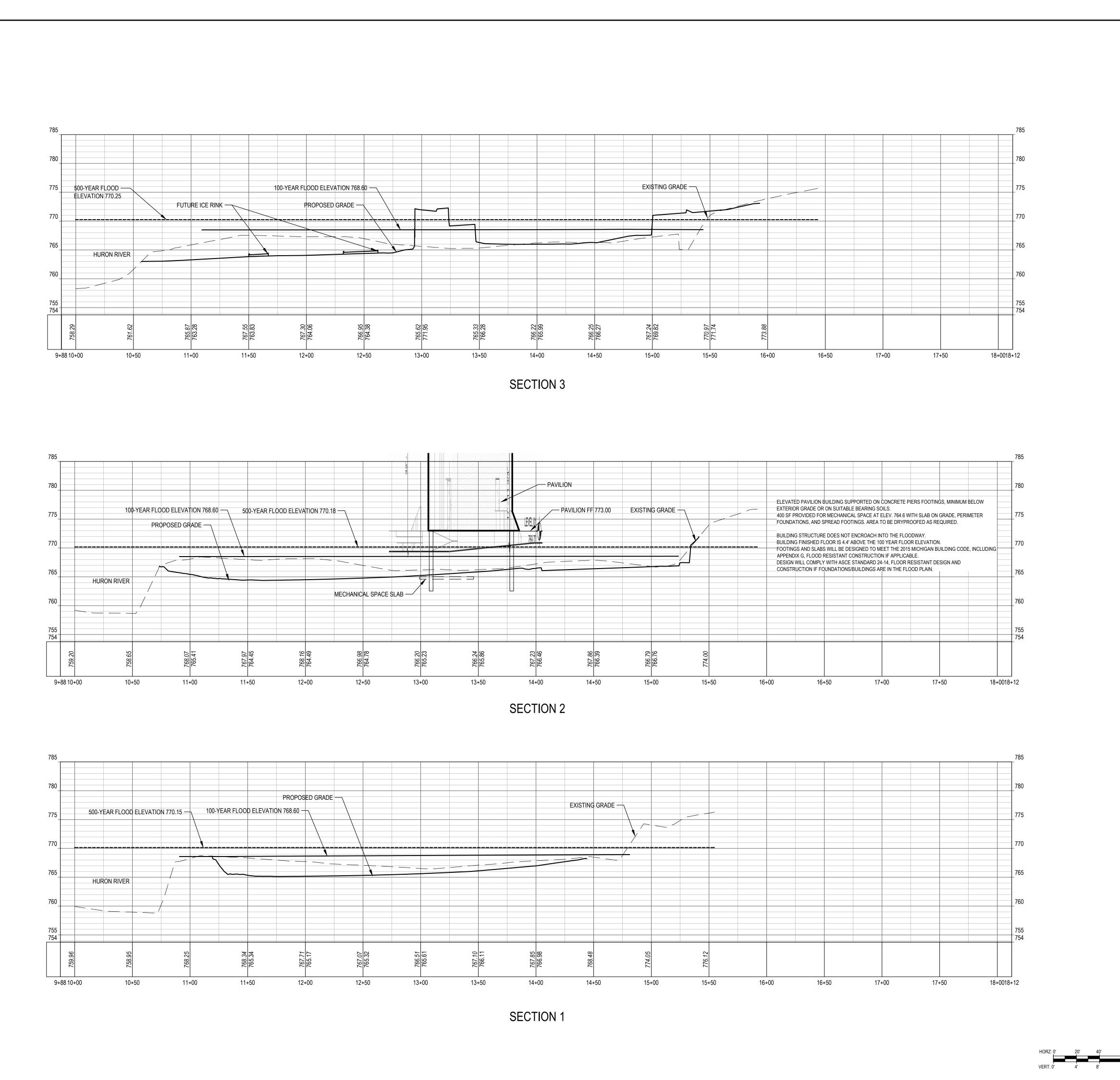
10420

Approved Issued On:10/28/202 Expires On:10/28/20

CG203







SHEET NOTES

BROADWAY PARK
WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

THE ROXBURY GROUP
ON BEHALF OF:
LOWER TOWN
PARTNERS, LLC

SMITHGROUP

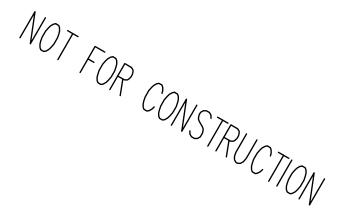
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

LEGEND

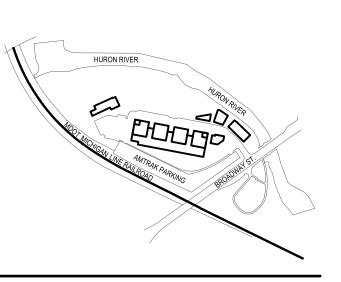
HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226

ISSUED FOR REV DATE

SEALS AND SIGNATURES



KEY PLAN



FLOOD PLAIN CUT AND FILL
SECTIONS 1 THRU 3

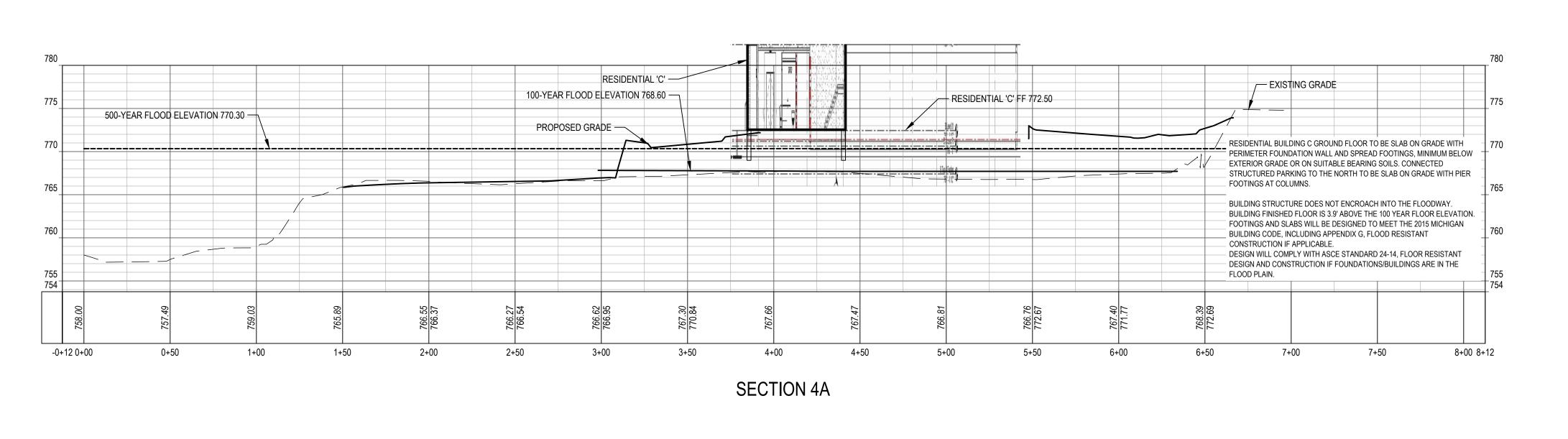
SCALE
PROJECT NUMBER

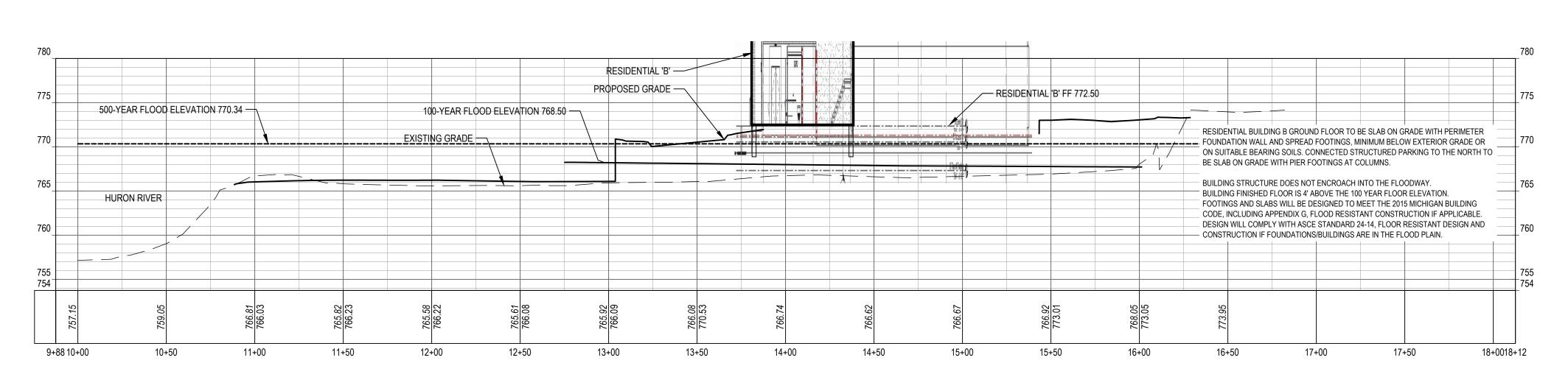
10420

CG204

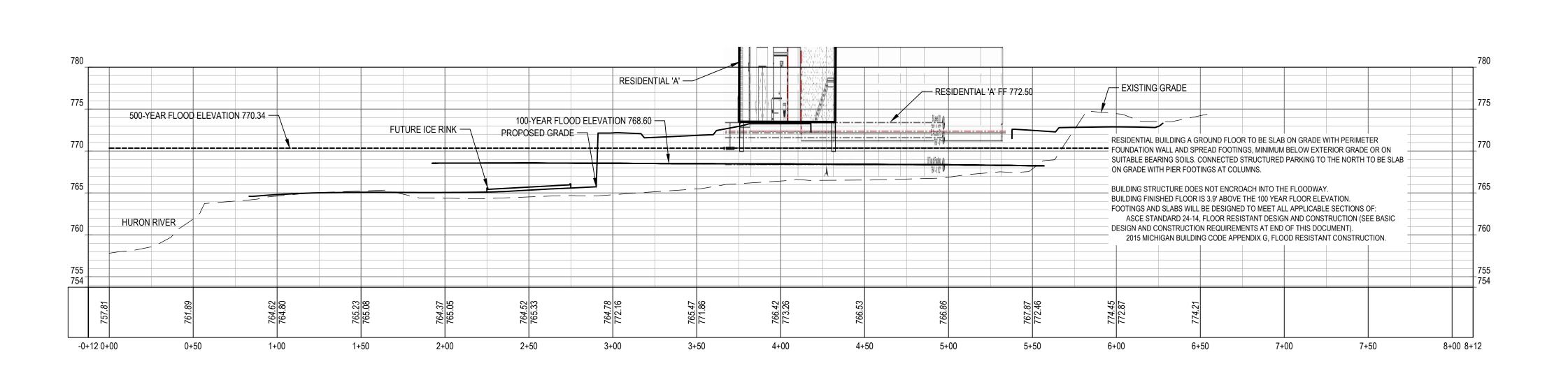
DRAWING NUMBER

EGLE-WRD WRP031219 v1.0 Approved Issued On:10/28/202 Expires On:10/28/202





SECTION 4



SECTION 3A

PROFILE SCALE

SHEET NOTES

BROADWAY PARK
WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

THE ROXBURY GROUP
ON BEHALF OF:
LOWER TOWN
PARTNERS, LLC

SMITHGROUP

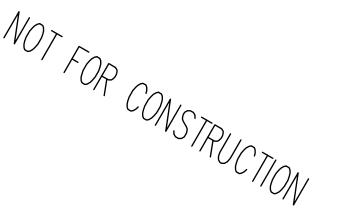
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

LEGEND

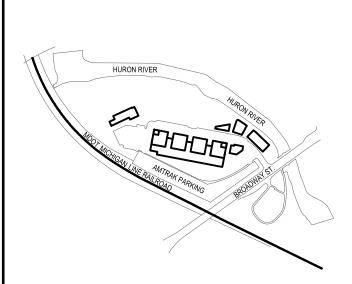
HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226

ISSUED FOR REV DATE

SEALS AND SIGNATURES



KEY PLAN



FLOOD PLAIN CUT AND FILL
SECTIONS 3A THRU 4A

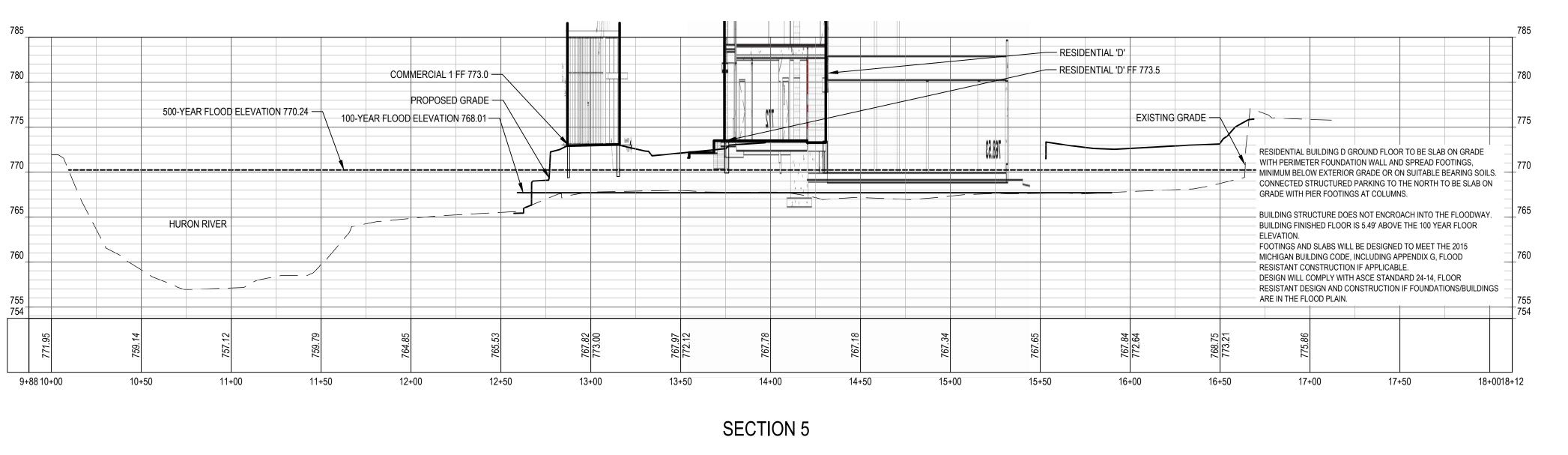
SCALE

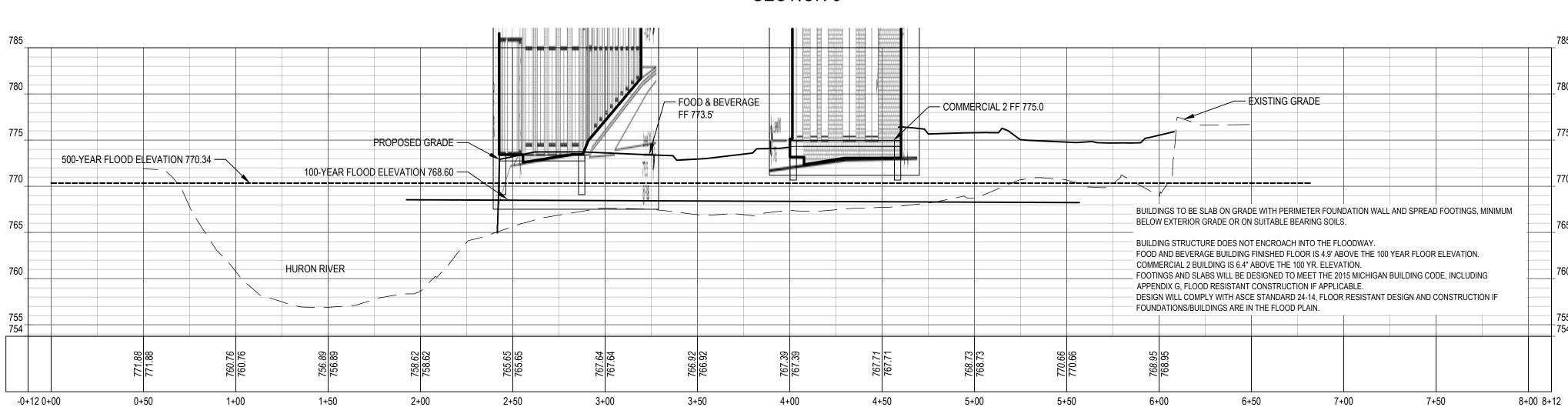
PROJECT NUMBER

DRAWING NUMBER

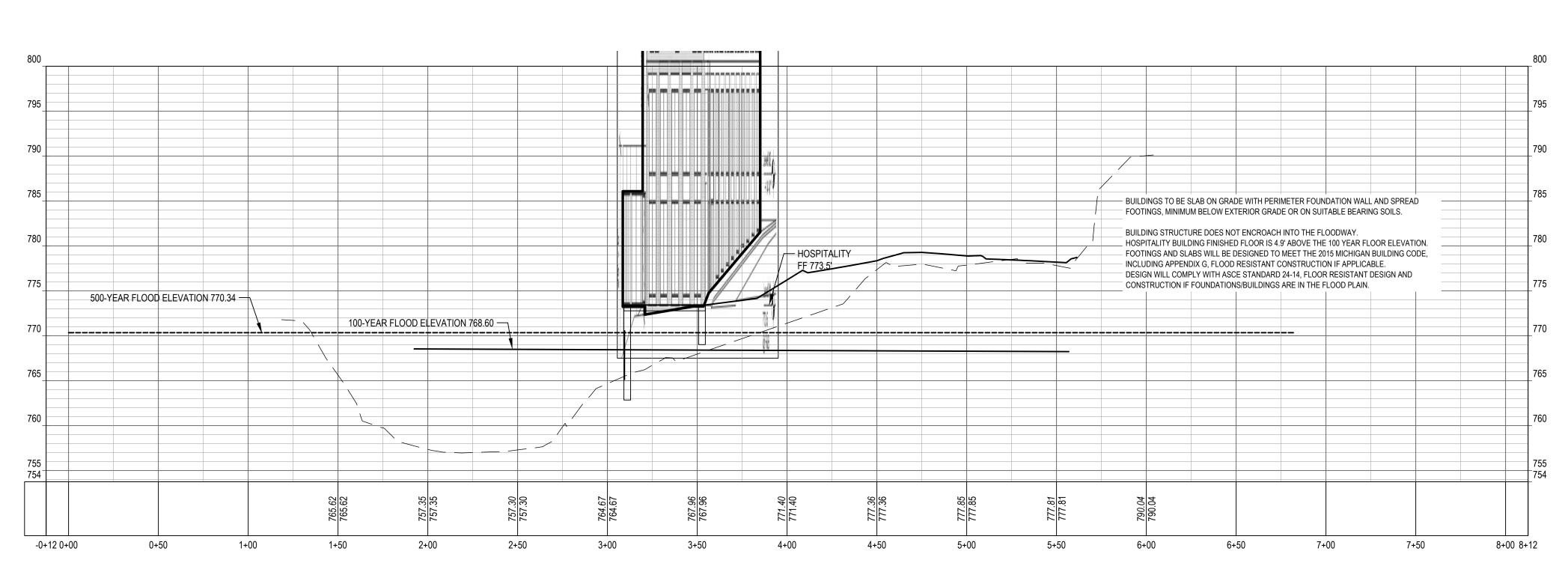
EGLE-WRD WRP031219 v1.0 Approved Issued On:10/28/2021 Expires On:10/28/2020

10420

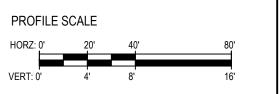




SECTION 6



SECTION 7



SHEET NOTES

BROADWAY PARK WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

THE ROXBURY GROUP
ON BEHALF OF:
LOWER TOWN
PARTNERS, LLC

SMITHGROUP

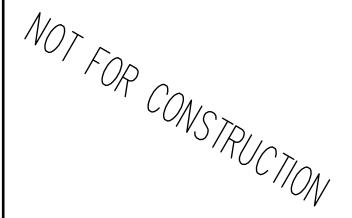
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

LEGEND

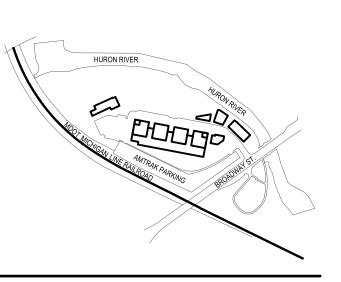
HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226

ISSUED FOR REV DATE

SEALS AND SIGNATURES



KEY PLAN



FLOOD PLAIN CUT AND FILL SECTION 5

SCALE
PROJECT NUMBER

10420

DRAWING NUMBER

EGLE-WRD WRP031219 v1.0 Approved Issued On:10/28/202 Expires On:10/28/202 1.4.3 Assignment of Flood Design Class to Buildings and Structures For the purpose of applying this standard, each building and structure shall be assigned a Flood Design Class based on the risk to human life, health, and welfare associated with damage or failure due to flooding, and by nature of their occupancy or use, according to Table 1-1. Each building or other structure shall be assigned to the highest applicable Flood Design Class or Classes.

1.4.3.1 Multiple Flood Design Classes Where buildings or other structures are divided into portions with independent structural systems, the Flood Design Class assignment for each portion shall be permitted to be determined independently.

Where building systems, such as required egress, HVAC, or electrical power, for a portion with a higher Flood Design Class pass through or depend on other portions of the building or other structure having a lower Flood Design Class, those portions shall be assigned to the higher Flood Design Class.

1.5 BASIC DESIGN AND CONSTRUCTION REQUIREMENTS

1.5.1 General New construction and substantial improvements shall be designed, constructed, connected, and anchored to resist flotation, collapse, or permanent lateral movement resulting from the action of hydrostatic, hydrodynamic, wind, and other loads during design flood, or lesser, conditions in accordance with requirements of this standard if specified, or if not specified in this standard then in accordance with requirements approved by the authority having jurisdiction. Design shall include the loads and load combinations described in Section 1.6.

Design and construction in flood hazard areas shall account for each of the following in accordance with this standard:

- 1. Elevation of the structure,
- 2. Foundation types and site-specific geotechnical factors,
- Resistance of structures to damage up to and during the design flood,
- 4. Obstructions or enclosures below elevated structures,
- 5. Structural members and connections required to resist design loads,
- 6. Use of flood damage-resistant materials,
- 7. Floodproofing,
- 8. Utilities,
- 9. Means of egress, and
- 10. Adverse impacts to other structures and property.
- 1.5.2 Elevation Requirements New construction and substantial improvements shall have the lowest floors (including basements) elevated to or above the DFE in conformance with the requirements of the chapter applicable to the specific flood hazard area.

Enclosed areas that are used solely for parking of vehicles, building access, or storage are not the lowest floor and shall be allowed below the DFE, provided the enclosed areas meet the requirements for enclosed areas applicable to the specific Flood Hazard Area. Structures that are used solely for parking of vehicles, building access, or storage shall be allowed below the DFE, provided the structures meet the requirements of Section 9.4.

Nonresidential structures and nonresidential portions of mixed-use structures shall be allowed to have the lowest floor (including basements) below the DFE, provided the structures meet the dry floodproofing requirements in Chapter 6.

1.5.3 Foundation Requirements Foundations of structures shall be designed and constructed to support the structures during design flood conditions and shall provide the required support to prevent flotation, collapse, or permanent lateral movement under the load combinations specified in Section 1.6.2. Any part of the foundation that is below the minimum elevations specified by Table 2-1 or Table 4-1, as applicable, and that provides structural support to the structure shall meet applicable foundation requirements in this standard.

1.5.3.1 Geotechnical Considerations Foundation design shall be based on the geotechnical characteristics of the soils and strata below the structure and on interactions between the soils and strata and the foundation. Foundation design shall account for instability and decreased structural capacity associated with soil consolidation, expansion, or movement; erosion and local scour; liquefaction; and subsidence, as applicable.

Geotechnical information necessary to complete the foundation design shall be obtained through geotechnical investigations of the site or from existing available data, such as investigations conducted at nearby project sites, regional studies conducted by government agencies, or other reliable sources.

1.5.3.2 Foundation Depth The foundation shall extend to a depth based on geotechnical considerations to provide the support described in Sections 1.5.3 and 1.5.3.1, taking into account the erosion and local scour of the supporting soil based on an erosion analysis.

1.5.3.3 Foundation Walls and Wall Footings Foundation walls extending below the minimum elevations specified by Table 2-1 or Table 4-1, as applicable, and foundation wall footings shall be designed and constructed to account for (1) hydrostatic, hydrodynamic, flood-borne debris impact, soil, wind, and other lateral loads acting during design flood conditions, and (2) buoyancy, dead load, live load, and other vertical loads acting during design flood conditions.

Foundation walls, foundation wall footings, and connections between the elevated building and the foundation walls, and between the foundation walls and the foundation wall footings, shall have the strength and stability to resist applied loads and to transfer applied loads to the underlying soils.

1.5.3.4 Piers, Posts, Columns, or Piles Piers, posts, columns, or piles used to elevate a structure above the DFE in flood hazard areas shall comply with all applicable foundation requirements of this standard. In Coastal High Hazard Areas and Coastal A Zones, piers, posts, columns, or piles used to elevate a structure shall be designed and constructed in accordance with Chapter 4. Connections between footings, mat, or raft foundations and piers, posts, and columns shall meet all applicable requirements of this standard.

1.5.4 Use of Fill Fill shall be designed to be stable under conditions of flooding, including rapid rise and rapid drawdown of floodwaters, prolonged inundation, and flood-related erosion and scour. Use of fill in flood hazard areas other than High Risk Flood Hazard Areas shall be in accordance with Section 2.4. Use of fill in Coastal High Hazard Areas and Coastal A Zones shall be in accordance with Section 4.5.4.

1.5.5 Anchorage and Connections The structure, including anchorage and connections, shall be designed to resist effects of

Table 1-1 Flood Design Class of Buildings and Structures

Use or Occupancy of Buildings and Structures	Flood Design Class
Buildings and structures that normally are unoccupied and pose minimal risk to the public or minimal disruption to the community should they be damaged or fail due to flooding. Flood Design Class 1 includes (1) temporary structures that are in place for less than 180 days, (2) accessory storage buildings and minor storage facilities (does not include commercial storage facilities), (3) small structures used for parking of vehicles, and (4) certain agricultural structures. ^a	1
Buildings and structures that pose a moderate risk to the public or moderate disruption to the community should they be damaged or fail due to flooding, except those listed as Flood Design Classes 1, 3, and 4. Flood Design Class 2 includes the vast majority of buildings and structures that are not specifically assigned another Flood Design Class, including most residential, commercial, and industrial buildings.	2
Buildings and structures that pose a high risk to the public or significant disruption to the community should they be damaged, be unable to perform their intended functions after flooding, or fail due to flooding. Flood Design Class 3 includes (1) buildings and structures in which a large number of persons may assemble in one place, such as theaters, lecture halls, concert halls, and religious institutions with large areas used for worship; (2) museums; (3) community centers and other recreational facilities; (4) athletic facilities with seating for spectators; (5) elementary schools, secondary schools, and buildings with college or adult education classrooms; (6) jails, correctional facilities, and detention facilities; (7) healthcare facilities not having surgery or emergency treatment capabilities; (8) care facilities where residents have limited mobility or ability, including nursing homes but not including care facilities for five or fewer persons; (9) preschool and child care facilities not located in one- and two-family dwellings; (10) buildings and structures associated with power generating stations, water and sewage treatment plants, telecommunication facilities, and other utilities which, if their operations were interrupted by a flood, would cause significant disruption in day-to-day life or significant economic losses in a community; and (11) buildings and other structures not included in Flood Design Class 4 (including but not limited to facilities that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, hazardous waste, or explosives) containing toxic or explosive substances where the quantity of the material exceeds a threshold quantity established by the authority having jurisdiction and is sufficient to pose a threat to the public if released. ^b	3

Buildings and structures that contain essential facilities and services necessary for emergency response and recovery, or that pose a substantial risk to the community at large in the event of failure, disruption of function, or damage by flooding. Flood Design Class 4 includes (1) hospitals and health care facilities having surgery or emergency treatment facilities; (2) fire, rescue, ambulance, and police stations and emergency vehicle garages; (3) designated emergency shelters; (4) designated emergency preparedness, communication, and operation centers and other facilities required for emergency response; (5) power generating stations and other public utility facilities required in emergencies; (6) critical aviation facilities such as control towers, air traffic control centers, and hangars for aircraft used in emergency response; (7) ancillary structures such as communication towers, electrical substations, fuel or water storage tanks, or other structures necessary to allow continued functioning of a Flood Design Class 4 facility during and after an emergency; and (8) buildings and other structures (including, but not limited to, facilities that manufacture, process, handle, store, use, or dispose of such substances as hazardous fuels, hazardous chemicals, or hazardous waste) containing sufficient quantities of highly toxic substances where the quantity of the material exceeds a threshold quantity established by the authority having jurisdiction and is sufficient to pose a threat to the public if released.^b

^a Certain agricultural structures may be exempt from some of the provisions of this standard; see Section C1.4.3.

b Buildings and other structures containing toxic, highly toxic, or explosive substances shall be eligible for assignment to a lower Flood Design Class if it can be demonstrated to the satisfaction of the authority having jurisdiction by a hazard assessment as described in Section 1.5.3 of *Minimum Design Loads for Buildings and Other Structures* that a release of the substances is commensurate with the risk associated with that Flood Design Class.

vertical loads, including uplift and lateral loads in accordance with the load combinations specified in Section 1.6.2.

Stringers or beams shall be attached to the substructure or directly to piles, columns, piers, and walls with bolted or welded connections such that a continuous load path is maintained.

Washers shall be used under all nuts and bolt heads bearing directly on wood. All nuts, bolts, and washers shall be corrosion resistant. Notches at the tops of timber posts and piles shall not exceed 50% of the cross section of the post or pile.

Adequate anchorage shall be provided for storage tanks, sealed conduits and pipes, lined pits, sumps, and all other similar structures that are subject to flotation or lateral movement during the design flood.

1.6 LOADS IN FLOOD HAZARD AREAS

1.6.1 General Design of structures within flood hazard areas shall be governed by the loading provisions of ASCE 7 Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 2010).

Design and construction of structures located in flood hazard areas shall consider all flood-related loads and conditions, including the following: hydrostatic loads, hydrodynamic loads, wave action; debris impact; rapid rise and rapid drawdown of floodwaters; prolonged inundation; alluvial fan flooding; wave-induced and flood-related erosion and local scour; deposition of sediments; ice flows and ice jams; and mudslides in accordance with requirements of this standard if specified, or if not specified in this standard then in accordance with requirements approved by the authority having jurisdiction. Design considerations shall be documented and shall take into account the applicable flood-related loads and conditions, and load combinations that will act on the foundation and the structure.

1.6.2 Combination of Loads Flood loads shall be combined with other loads as specified in ASCE 7 Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 2010), either by using the allowable stress design method load combinations or by using the strength design method load combinations.

BROADWAY PARK WEST

841 BROADWAY STREET ANN ARBOR, MI 48104

Applicant:

THE ROXBURY GROUP
ON BEHALF OF:
LOWER TOWN
PARTNERS, LLC

SMITHGROUP

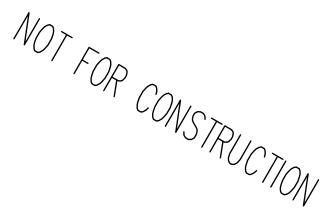
201 DEPOT STREET SECOND FLOOR ANN ARBOR, MI 48104 734.662.4457 www.smithgroupjjr.com

> HAMILTON ANDERSON 1435 RANDOLPH STREET, STE 200 DETROIT, MI 48226

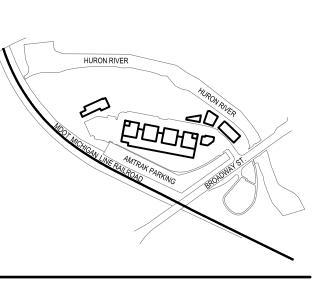
> > REV DATE

SEALS AND SIGNATURES

ISSUED FOR



KEY PL



BUILDING FLOOD CODE INFORMATION

SCALE

PROJECT NUMBER

CG207

DRAWING NUMBER

EGLE-WRD WRP031219 v1. Approved Issued On:10/28/2

Flood Resistant Design and Construction

STANDARD 24-14