THE BANKS PUBLIC INFRASTRUCTURE DEVELOPMENT

LOT 28 B.P. #2 - PARK & GARAGE (ITB #006-22) **DECEMBER 17, 2021**

PROJECT TEAM:

Hamilton County

County Administration Building, RM. 603 138 East Court Street Cincinnati, Ohio 45202 Phone: 513-946-4400

Messer Construction/MBJ

CONSTRUCTION MANAGER 643 West Court Street Cincinnati, Ohio 45203 Phone: 513-242-1541

The Kleingers Group

LANDSCAPE ARCHITECT 6219 Centre Park Drive West Chester, OH 45069 Phone: 513-779-7851

McGill Smith Punshon, Inc.

SURVEYOR 3700 Park 42 Drive, Suite 190B Cincinnati, OH 45241 Phone: 513-759-0004

Terracon Consultants, Inc.

GEOTECHNICAL ENGINEER 611 Lunken Park Drive Cincinnati, OH 45226 Phone: 513-321-5816

THP Limited, Inc.

ARCHITECT/STRUCTURAL ENGINEER 100 East Eighth Street Cincinnati, Ohio 45202 Phone: 513-241-3222

Michael Mcinturf Architects

DESIGN ARCHITECT 1116 Race Street Cincinnati, OH 45202 Phone: 513-639-2351

DNK Architects

ARCHITECT/CODE CONSULTANT 2616 Central Parkway Cincinnati, OH 45214 Phone: 513-948-4146

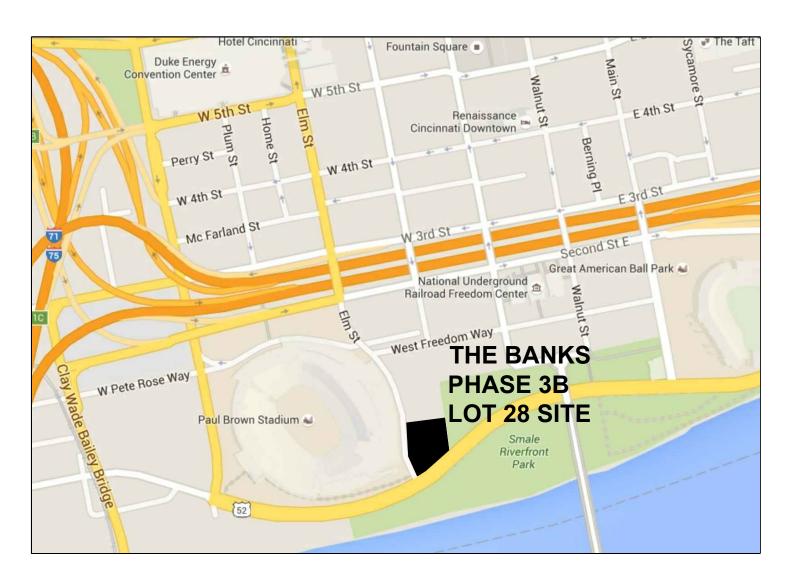
Heapy Engineering LLC

MEP & FP ENGINEER 1400 West Dorothy Lane Dayton, OH 45409 Phone: 937-224-0861

Burgess and Niple

CIVIL ENGINEER 525 Vine Street Cincinnati, OH 45202 Phone: 513-579-0042







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SCALE IN FEET

S U R V E Y N O T E S:

PROPERTY LINES ARE BASED ON DEEDS AND PLATS OF RECORD.

BEARINGS AND ELEVATIONS ARE BASED ON THE BANKS SUBDIVISION RECORD PLATS, WHICH ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) AND THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD1929). REFERENCE MONUMENTS ORIGINALLY USED = CITY OF CINCINNATI BENCHMARK No. 6919 & No. 6920.

SURFACE UTILITIES ARE SHOWN PER FIELD SURVEY, UNLESS NOTED AS "PER PLAN" OR "PER RECORD". UNDERGROUND UTILITY LINES SHOWN ARE BASED ON A COMBINATION OF SURFACE EVIDENCE AND AVAILABLE PLANS & RECORDS; THEY HAVE NOT BEEN PHYSICALLY LOCATED. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES ON THE PREMISES, EITHER IN SERVICE OR ABANDONED. NOR IS IT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION INDICATED, ONLY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

TOPOGRAPHIC SURVEY

LOT 28 The BANKS Phase X PLAT BOOK 482, PAGES 81-82

SECTION 17, TOWN 4, FRACTIONAL RANGE 1 CINCINNATI TOWNSHIP, CITY OF CINCINNATI HAMILTON COUNTY, OHIO



Date		NOVEMBER	R 8, 202
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X-Ref(s)			N/
Project Nun	nber	9	9327.1
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DESIGN

McGill Smith Punshon

Architecture 3700 Park 42 Drive
Engineering Suite 190B
Landscape Architecture Planning Phone 513.759.0004
Surveying www.mspdesign.com

BUILDING CODE NOTES - LOT 28 PARKING GARAGE & PARK

• Central Riverfront, Northeast corner of Intersection of Elm Street & Mehring Way (Lot 28), Cincinnati, Ohio 45202.

PROJECT DESCRIPTION

- This project includes a 1-story extension of the Central Riverfront Garage (on the north half of the
- site) and a park on top of the garage, as well as on grade (fill) on the south half of the site. The Garage shall be built of Type IA construction and separated from the park built above by a
- three-hour rated podium.
- Bid Package #1 includes site preparation, garage foundations, and under-slab MEP. Bid Package #2 includes the garage superstructure, garage MEP and finishes, and the park
- (including fill, landscaping, and finishes).

PROJECT SITE ZONING

• Planned Development District No. 43 (PD-43).

BUILDING DEPARTMENT

City of Cincinnati and Department Division of Buildings and Inspections.

APPLICABLE CODES

• Cincinnati Building Code - 2017 Edition with 2018 Amendments.

- Cincinnati Fire Prevention Code.
- Ohio Mechanical Code 2017 Edition with 2018 Amendments.
- Ohio Plumbing Code 2017 Edition with 2018 Amendments.
- Ohio Elevator Code and Cincinnati Building Code Chapter 1107, 2017 Edition with 2018
- Amendments. Ohio Electrical Code (NFPA 70-17).
- Accessibility Code: ADA Accessibility Guidelines updated 2010, and ICC/ANSI A117.1 2010.

FLOOD DESIGN REQUIREMENTS

- The 100-year Base Flood Elevation has been established at elevation 498.2' (FEMA Map
- #39061C0307D, effective date of 5/17/2004).
- The flood hazard area, as designated from the map, is "AE". Design and construction is based on ASCE 24-05 "Flood Resistant Design and Construction".
- Design Flood Elevation is 499.2' (Base Flood Elevation 498.2' plus 1'-0") for occupied spaces (i.e. Electrical Rooms, Water Meter Rooms, etc.).

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

• Use Group S-2 Enclosed Parking Garage - low-hazard storage occupancy. In the interim (prior to development of the adjacent Lot 25 (to the north), Level 489 in Lot 28 qualifies as an Open Parking

• Use Group A-5 Public Park - (Black Musicians Walk of Fame).

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

- Complies with Enclosed Parking Garage requirements per 406.4. In the interim (prior to
- development of Lot 25), Level 489 in Lot 28 qualifies as an Open Parking Garage.
- Heights and areas comply with 406.6.1. Refer to notes under Chapter 5 below. • Mechanical ventilation provided per 406.6.2. Exhaust fan system constructed in Phase 2 (Lot 2) was
- sized to accommodate the Phase 3A and 3B garage build-out to the south (including Lot 28), all the way to Mehring Way.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

- Construction Type IA Protected Noncombustible per Table 601.
- Allowable Height: Unlimited per Table 504.3.
- Actual Height: 1 level below grade (podium level grade 503').
- Allowable Area: Unlimited per Table 506.2. Actual Area:
- Level 489:

Lot 28 @ 8,750 s.f.

- Development above Lot 28 podium is public park.
- Complies with separation requirements per 510.2, between S-2 Enclosed Parking Garage and future
- o Podium level is 3-hour-rated horizontal separation per 510.2 and 710.3.
- o All structural frame elements (columns, girders, framing) supporting the future 3-hour-rated podium: 3 hours.

CHAPTER 6 - TYPES OF CONSTRUCTION

- Type IA Protected Noncombustible per 602.2 and Table 721.1
- Table 601 Fire-Resistance Rating Requirements For Building Elements:
- o Structural frame: 3 hours.
- o Exterior bearing walls: Refer to Table 602 notes below.
- o Interior bearing walls: 3 hours.
- o Exterior nonbearing walls and partitions: Refer to Table 602 notes below. o Interior nonbearing walls and partitions: 0 hour.
- o Floor construction including beams: 2 hours, except the podium slab is 3 hours.
- o Roof construction including girders and framing supporting roof only:
- 1½ hours (the podium remains 3-hour-rated). • Table 602 Fire-Resistance Rating Requirements For Exterior Walls Based on Fire Separation:
- o Type IA, Use Group S-2, (Less than 30 feet): 1 hour (*). o Type IA, Use Group S -2 (Equal to or greater than 30 feet): 0 hour.
- (*) The exterior walls have no required fire rating since public streets surround the site and provide greater than 30 foot distance to adjacent building structure or street centerline.

CHAPTER 7 - FIRE-RESISTANCE-RATED CONSTRUCTION

- Exterior walls: 0-hour rating per 704.10 and Table 602 notes. • Shafts (other than exits): 2 hours per 713.4 where noted; unrated where permissible.
- Exit access corridors: Ó hour with sprinklers, per Table 1020.1.
- Penetrations comply with 714.3.
- Protection of rated structural members complies with 704.

CHAPTER 8 - INTERIOR FINISHES

- Interior wall finishes per Table 803.11, for sprinklered Use Group S:
- o Vertical Exits & Passageways: Class C.
- o Exit Access Corridors: Class C. o Room & Enclosed Spaces: Class C.
- Interior floor finishes per 804.4: Vertical Exits, Exit Passageways, and Exit Access Corridors comply with the DOC FF-1 "pill test".

CHAPTER 9 - FIRE PROTECTION SYSTEMS

- Dry-type automatic sprinkler system provided per 903.2.10 and 406.6.3.
- Electrical supervision and central station connection of the sprinkler system provided per 903.4 and
- Class I dry-type standpipe system provided per 905.3.1, 905.3.5, 905.8, and NFPA 14.
- o Standpipe hose connections typically located in stairways, and where additional hose connections are required, they are located outside of stairways.
- o All areas within 200' of a hose connection.
- o 100 pounds of pressure (within a period of 60 seconds) provided at the hose connections with the help of fire pump.
- o Hose threads and fire department connection locations and types to be
- reviewed and approved by the Cincinnati Fire Department per 903.3.6 and 912.1. • Portable fire extinguishers provided per 906.1, International Fire Code, and NFPA 10.

CHAPTER 10 - MEANS OF EGRESS (GARAGE)

- Design occupant load per Table 1004.1.2: o Level 489:
 - Lot 28: 8,750 SF total public parking / 200 SF per occupant = 44 occupants.
- Guards comply with 1015. • Remoteness of exits complies with the 1/3 diagonal rule.
- Egress lighting provided per 1008.
- Exit signs provided per 1013.
- Exit travel distances are within the allowable 400' maximum for sprinklered S-2 occupancy, per Table 1017.2.

CHAPTER 10 - MEANS OF EGRESS (PARK)

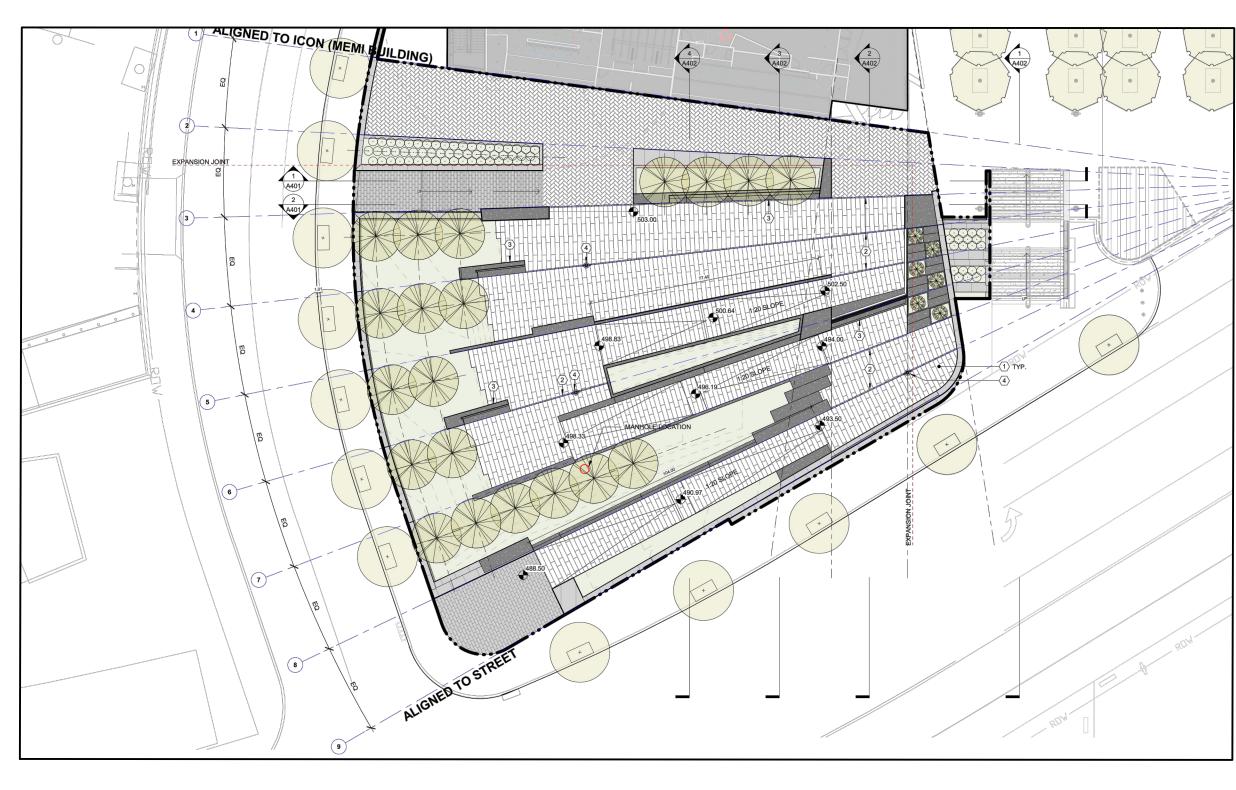
- Design occupant load per Table 1004.1.2 o Level 489:
 - $\overline{\text{Lot }28:23,100}$ SF total public parking / 5 NET SF per occupant = 4,620 occupants.
- Number of exits complies with Table 1006.3.1: Three sides of park open to public way. Three exits
- Sloped walkway: complies with accessible means of egress per 1009.
- Stairways:
- o Guards comply with 1015
- o Remoteness of exits complies with the 1/3 diagonal rule o Egress lighting per 1008

CHAPTER 11 - ACCESSIBILITY

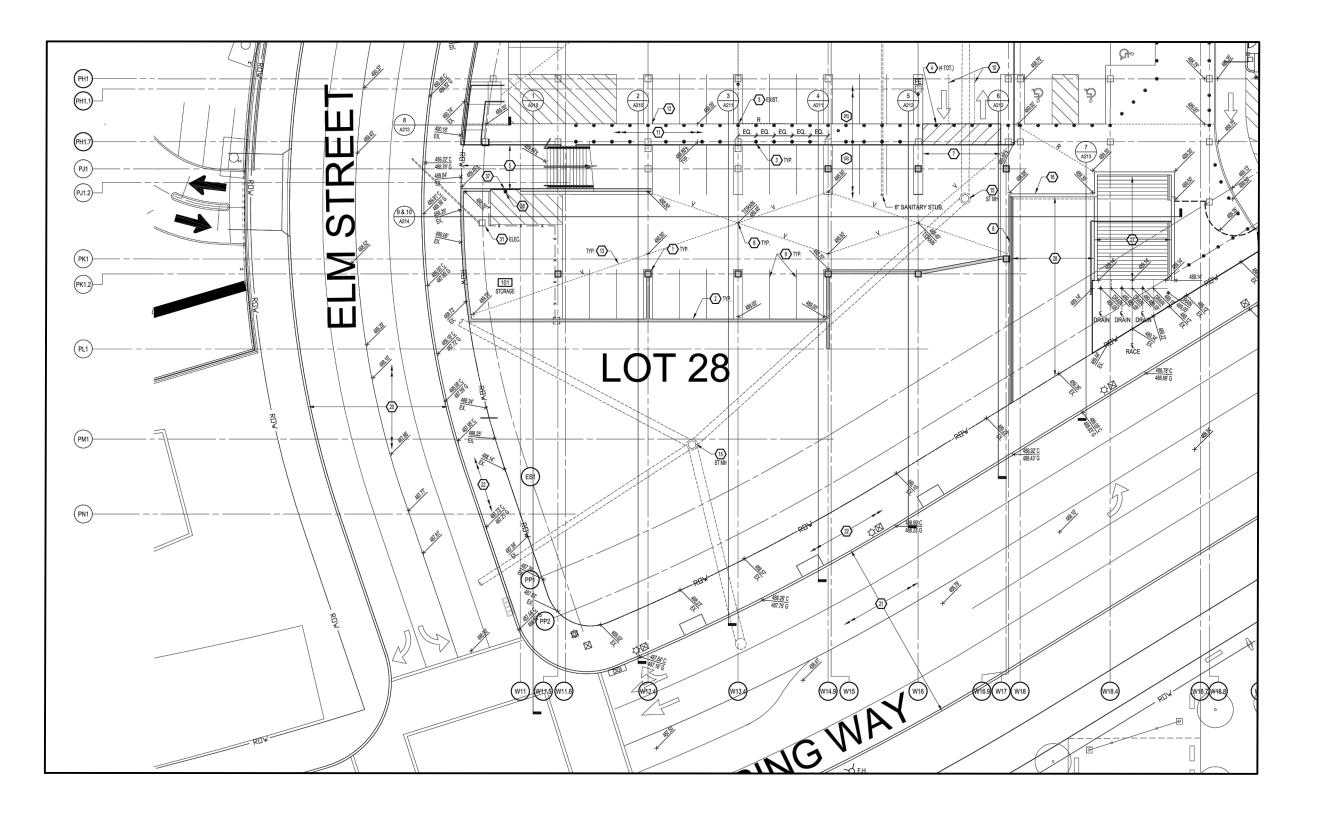
- All entrances, exits, egress ramps, elevators, route through building, and signage shall be accessible.
- Also refer to additional notes under Chapter 10 above. • Numbers of accessible car and van spaces comply with Table 1106.1:
- o Parking Spaces: Lot 28: <u>18</u>
- Required Accessible Spaces (per Table 1106.1):
- 1 van space will be provided per 1106.5
- o Minimum vertical clearance at van spaces and along accessible route = 8'-2".
- o Park walkway slopes are 5% or less, and do not constitute a ramp by definition.

CHAPTER 12 - INTERIOR ENVIRONMENT

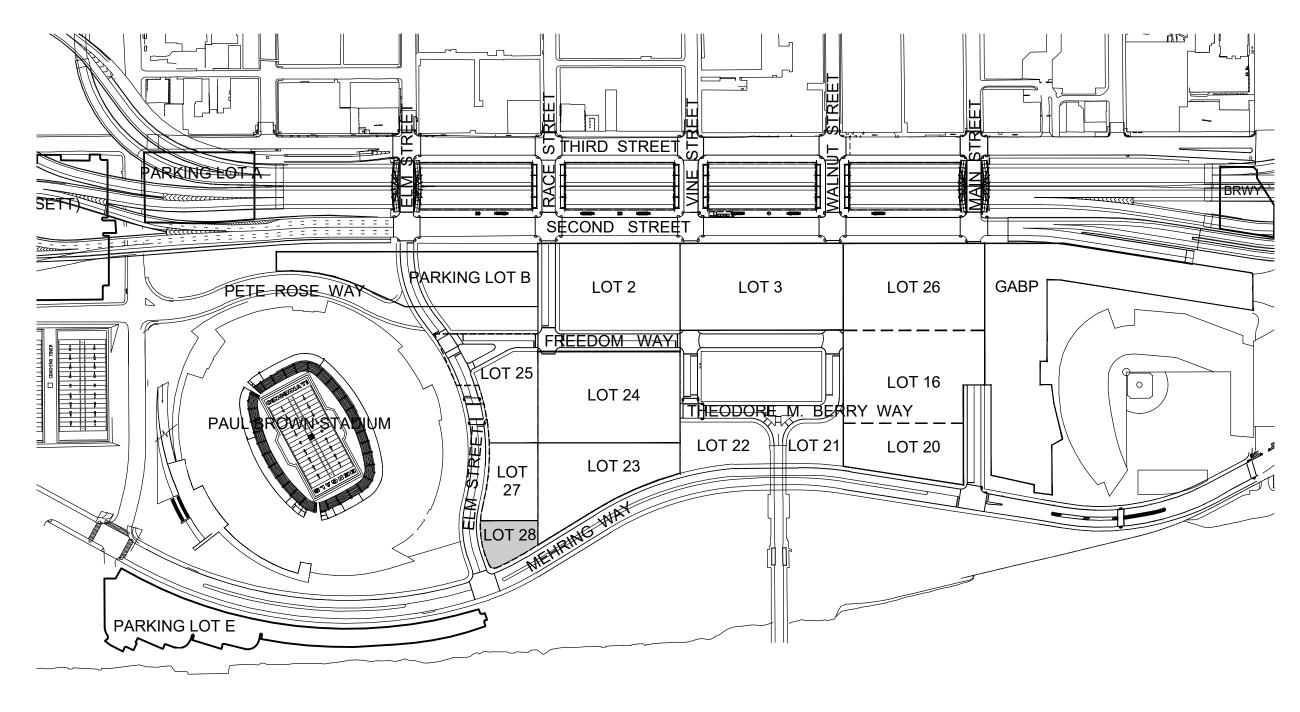
- Natural ventilation provided per 1203.4. Lighting provided per 1205.2 or 1205.3.
- Emergency egress lighting provided per 1205.5 and 1008.3.



LEVEL TWO



LEVEL ONE

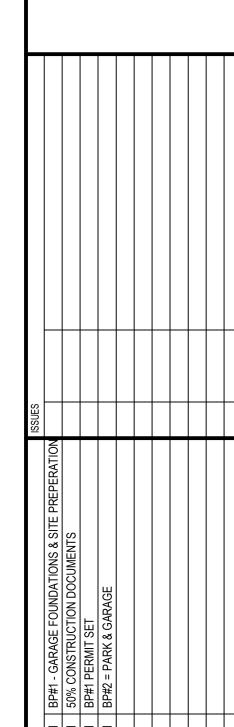


KEY PLAN



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**





P.A.B.

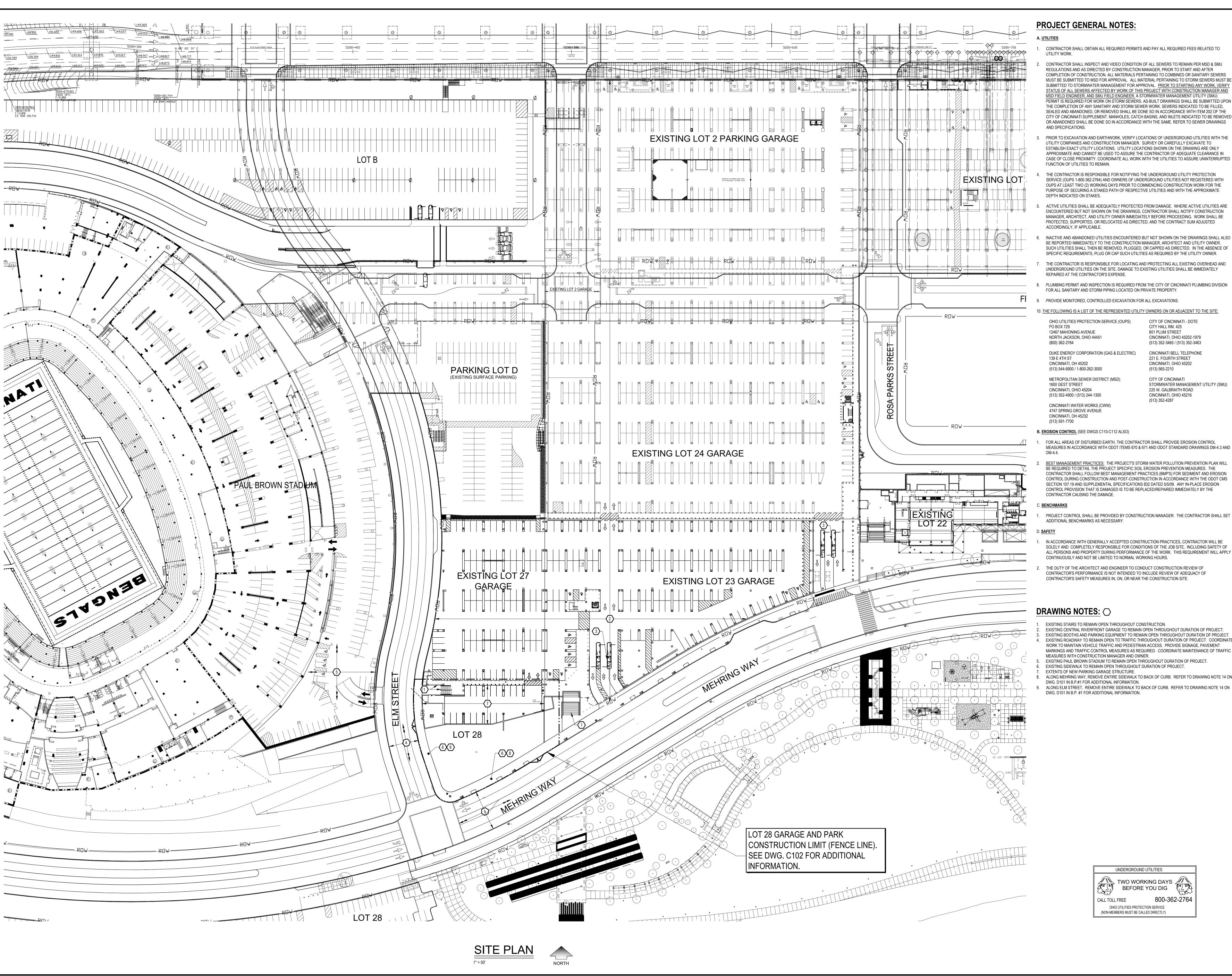
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CHITECT/ENGINEER:

THE BANKS Public Partnership

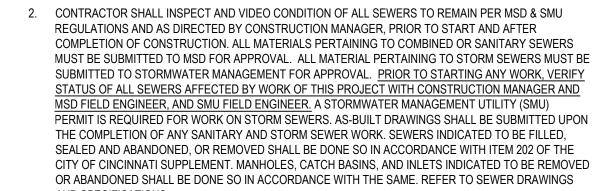
BUILDING CODE

G001





CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES RELATED TO



HAMILTON COUNTY

RIVERFRONT PARKING

AND INFRASTRUCTURE

IMPROVEMENTS

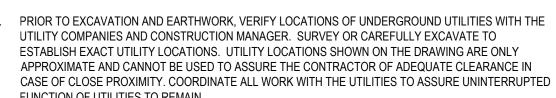
THP Limited, Inc.

Cincinnati • Cleveland 100 East Eighth Street

Cincinnati, Ohio 45202

Phone: 513.241.3222

www.thpltd.com



- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE UNDERGROUND UTILITY PROTECTION SERVICE (OUPS 1-800-362-2764) AND OWNERS OF UNDERGROUND UTILITIES NOT REGISTERED WITH OUPS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION WORK FOR THE PURPOSE OF SECURING A STAKED PATH OF RESPECTIVE UTILITIES AND WITH THE APPROXIMATE
- ACTIVE UTILITIES SHALL BE ADEQUATELY PROTECTED FROM DAMAGE. WHERE ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER, ARCHITECT, AND UTILITY OWNER IMMEDIATELY BEFORE PROCEEDING. WORK SHALL BE PROTECTED, SUPPORTED, OR RELOCATED AS DIRECTED, AND THE CONTRACT SUM ADJUSTED
- INACTIVE AND ABANDONED UTILITIES ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONSTRUCTION MANAGER, ARCHITECT AND UTILITY OWNER. SUCH UTILITIES SHALL THEN BE REMOVED, PLUGGED, OR CAPPED AS DIRECTED. IN THE ABSENCE OF SPECIFIC REQUIREMENTS, PLUG OR CAP SUCH UTILITIES AS REQUIRED BY THE UTILITY OWNER.
- UNDERGROUND UTILITIES ON THE SITE. DAMAGE TO EXISTING UTILITIES SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PLUMBING PERMIT AND INSPECTION IS REQUIRED FROM THE CITY OF CINCINNATI PLUMBING DIVISION FOR ALL SANITARY AND STORM PIPING LOCATED ON PRIVATE PROPERTY.
- 9. PROVIDE MONITORED, CONTROLLED EXCAVATION FOR ALL EXCAVATIONS.
 - OHIO UTILITIES PROTECTION SERVICE (OUPS) CITY OF CINCINNATI - DOTE CITY HALL RM. 425
 - 801 PLUM STREET CINCINNATI, OHIO 45202-1979
- (513) 352-3465 / (513) 352-3463 DUKE ENERGY CORPORATION (GAS & ELECTRIC) CINCINNATI BELL TELEPHONE 221 E. FOURTH STREET
- CINCINNATI, OHIO 45202 (513) 544-6900 / 1-800-262-3000 (513) 565-2210 METROPOLITAN SEWER DISTRICT (MSD) CITY OF CINCINNATI STORMWATER MANAGEMENT UTILITY (SMU)
 - 225 W. GALBRAITH ROAD CINCINNATI, OHIO 45216 (513) 352-4287
- CINCINNATI WATER WORKS (CWW)

B. EROSION CONTROL (SEE DWGS C110-C112 ALSO)

- FOR ALL AREAS OF DISTURBED EARTH, THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH ODOT ITEMS 670 & 671 AND ODOT STANDARD DRAWINGS DM-4.3 AND
- SECTION 107.19 AND SUPPLEMENTAL SPECIFICATIONS 832 DATED 5/5/09. ANY IN-PLACE EROSION CONTROL PROVISION THAT IS DAMAGED IS TO BE REPLACED/REPAIRED IMMEDIATELY BY THE

PROJECT CONTROL SHALL BE PROVIDED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL SET

- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE DUTY OF THE ARCHITECT AND ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

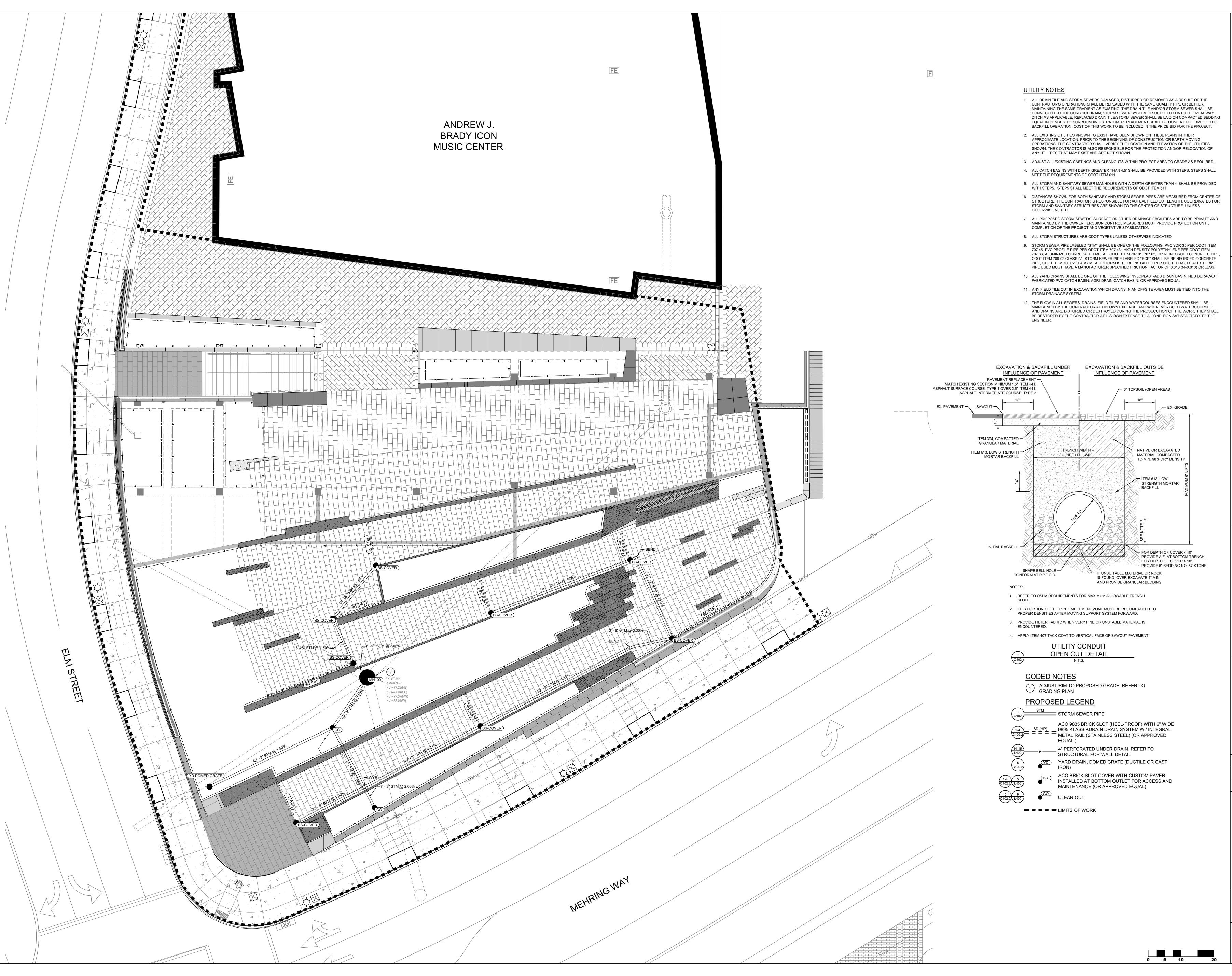
- EXISTING CENTRAL RIVERFRONT GARAGE TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT EXISTING BOOTHS AND PARKING EQUIPMENT TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT EXISTING ROADWAY TO REMAIN OPEN TO TRAFFIC THROUGHOUT DURATION OF PROJECT. COORDINATE
- EXISTING PAUL BROWN STADIUM TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT. EXISTING SIDEWALK TO REMAIN OPEN THROUGHOUT DURATION OF PROJECT.
- EXTENTS OF NEW PARKING GARAGE STRUCTURE. ALONG MEHRING WAY, REMOVE ENTIRE SIDEWALK TO BACK OF CURB. REFER TO DRAWING NOTE 14 ON
- DWG. D101 IN B.P.#1 FOR ADDITIONAL INFORMATION. ALONG ELM STREET, REMOVE ENTIRE SIDEWALK TO BACK OF CURB. REFER TO DRAWING NOTE 14 ON
- DWG. D101 IN B.P. #1 FOR ADDITIONAL INFORMATION.

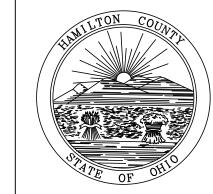


THE BANKS Public Partnership

PLAN

C101



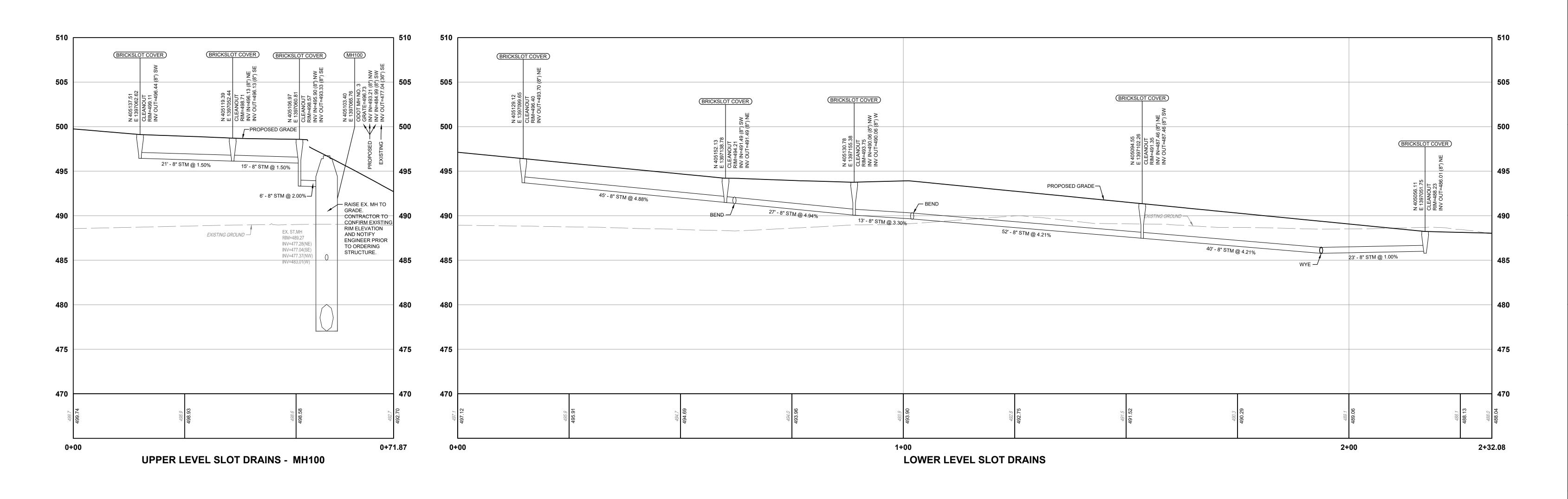


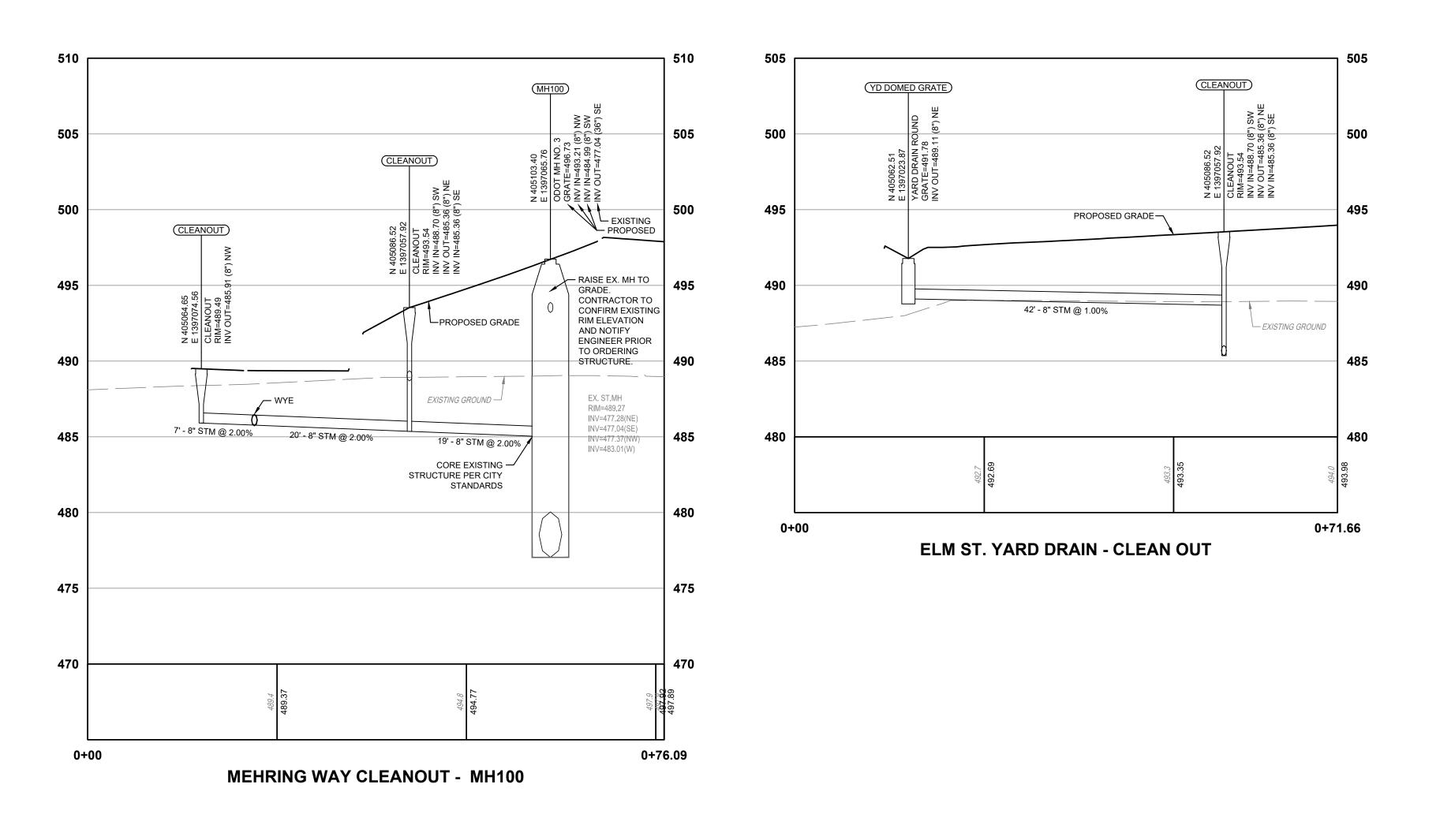
Consulting Engineers 100 East Eighth Street Cincinnati, Ohio 45202 Phone: (513) 241-3222 Fax: (513) 241-2981

LOT 28 GARAGE AND PARK

UTILITY PLAN

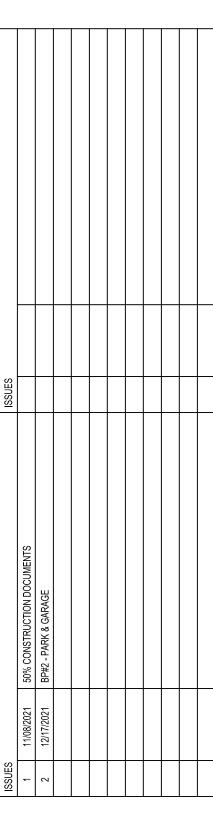
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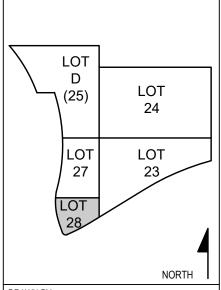










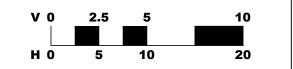


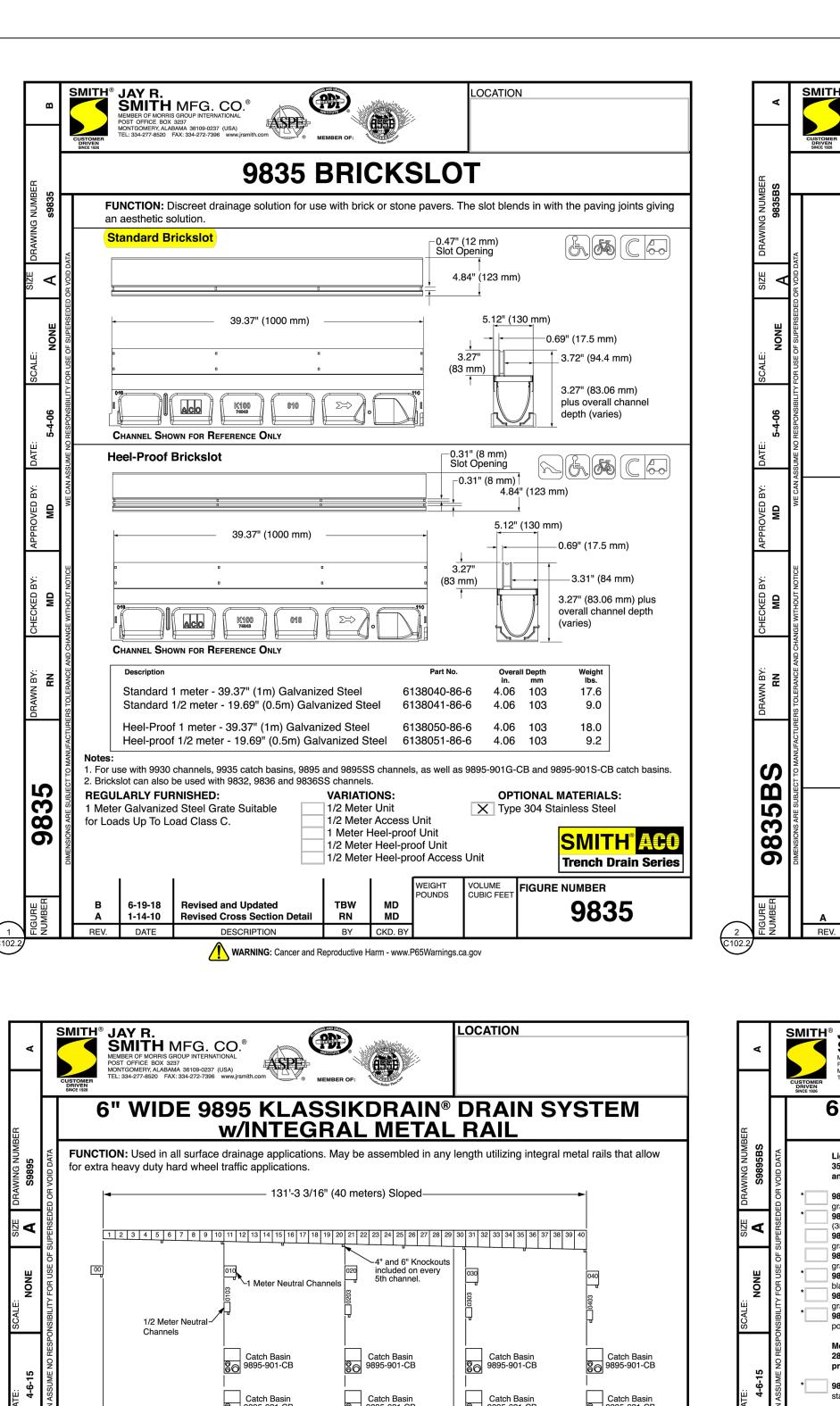
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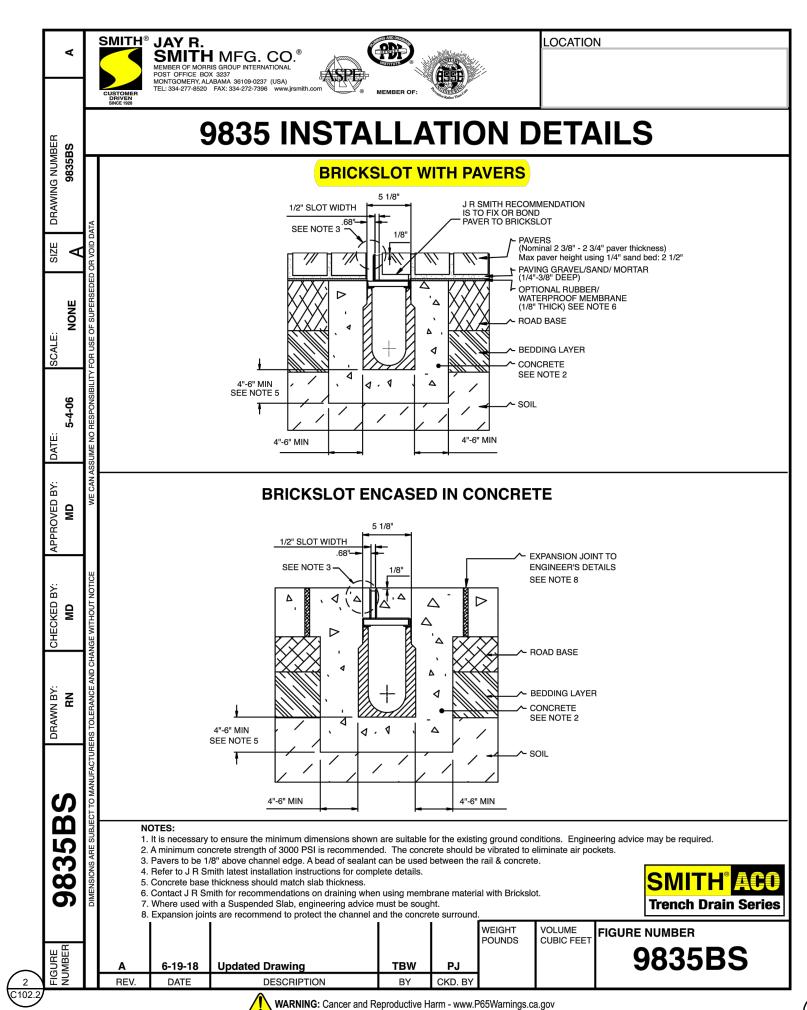
LOT 28 GARAGE AND PARK

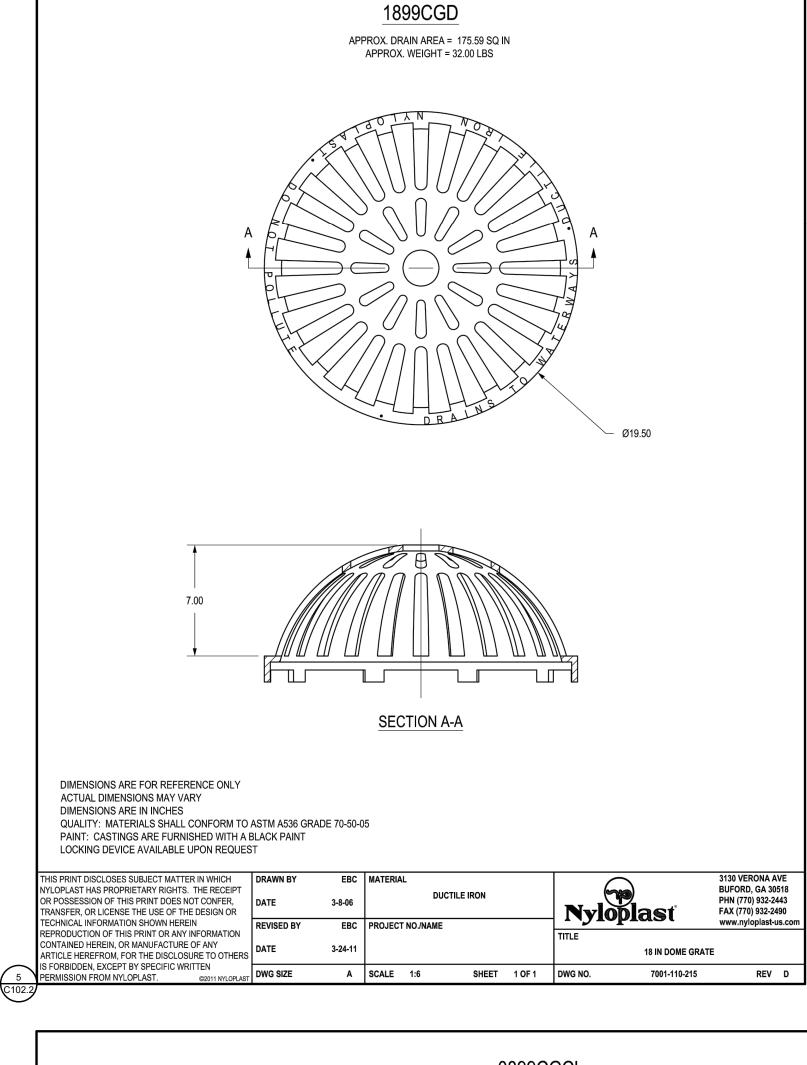
STORM PROFILES

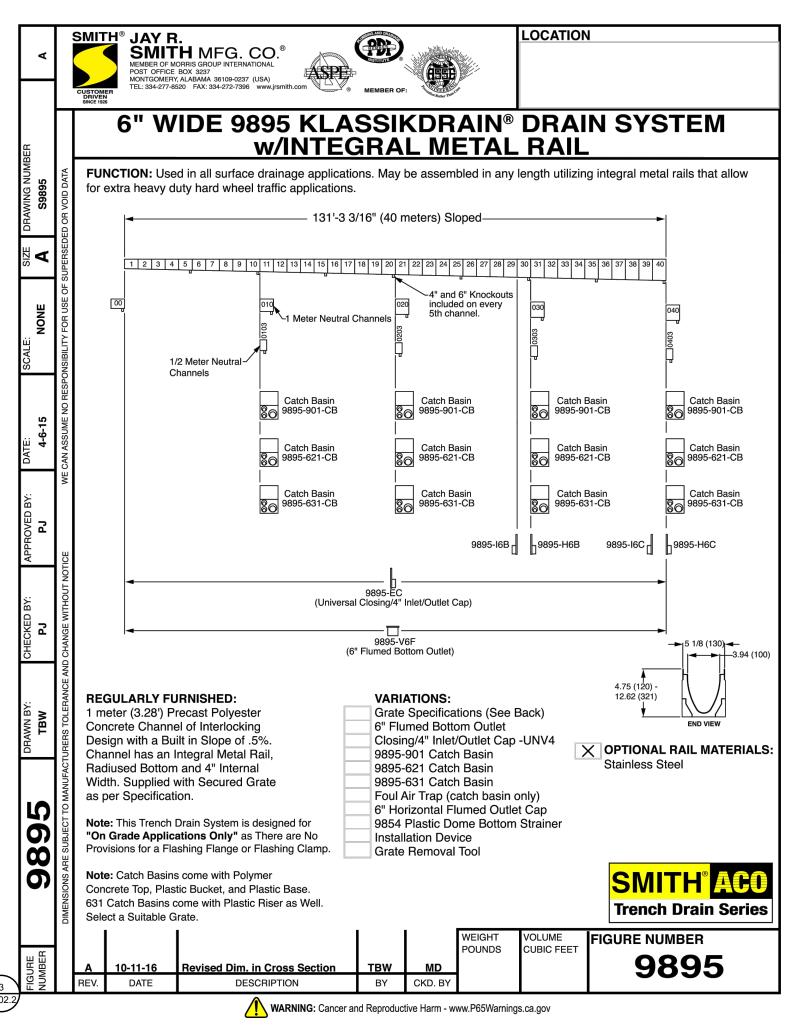
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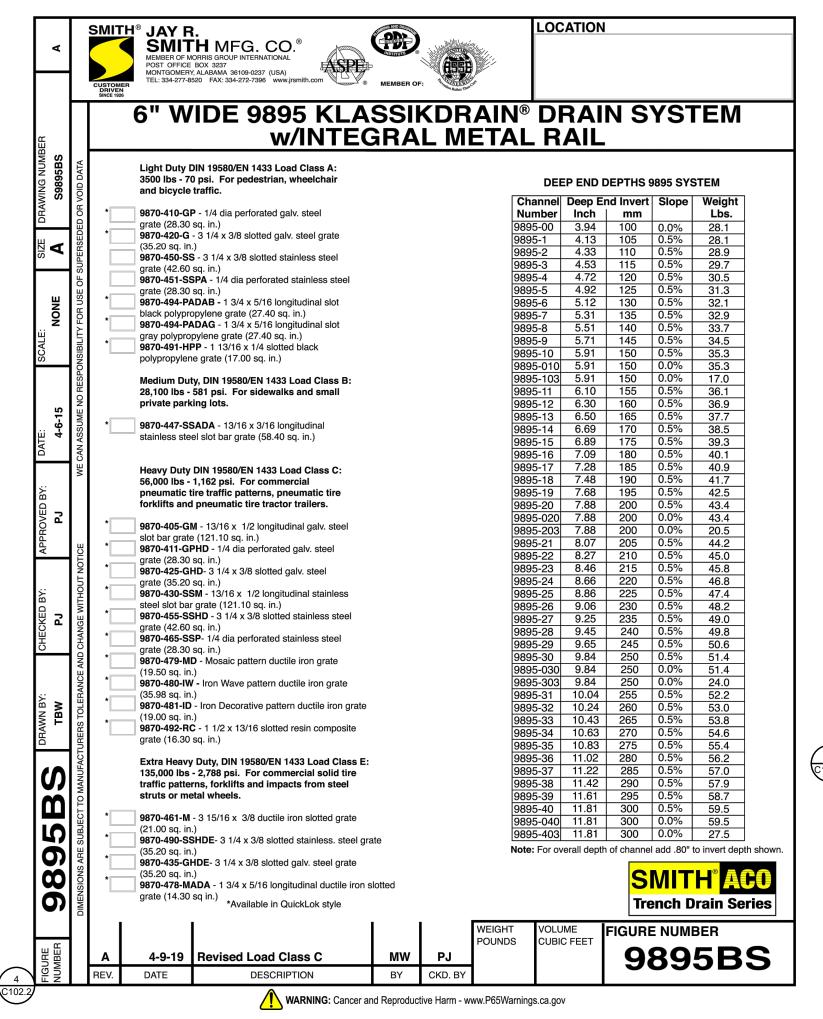


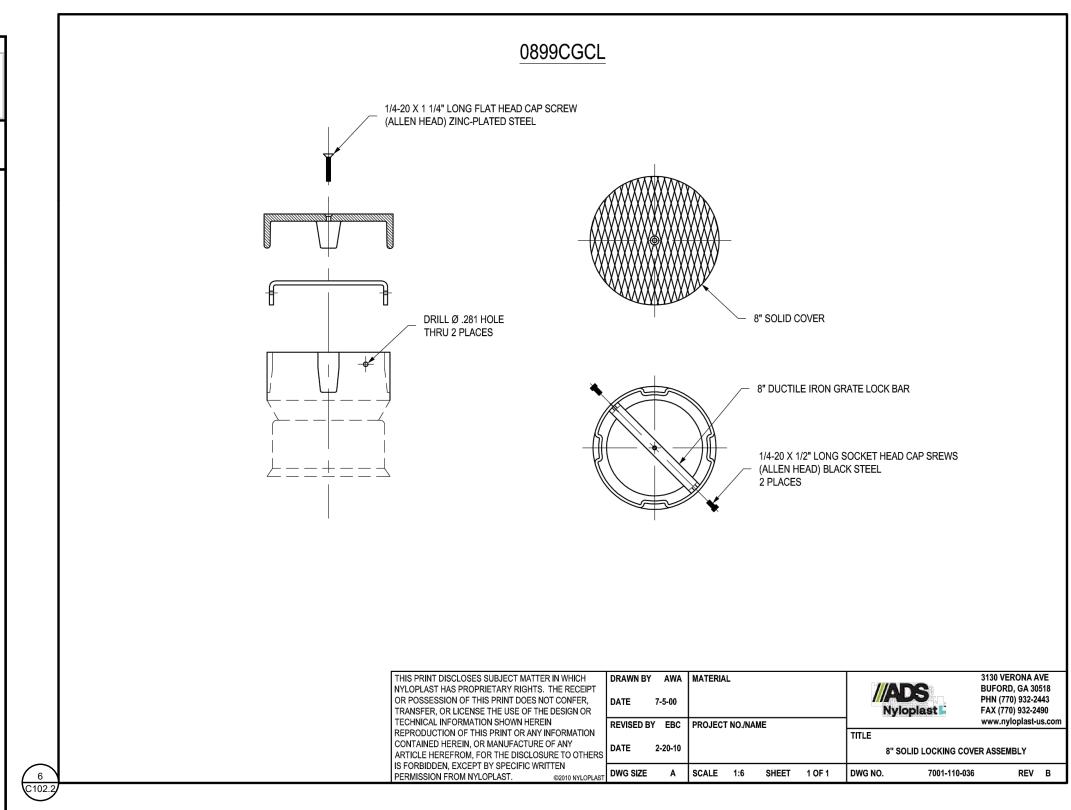








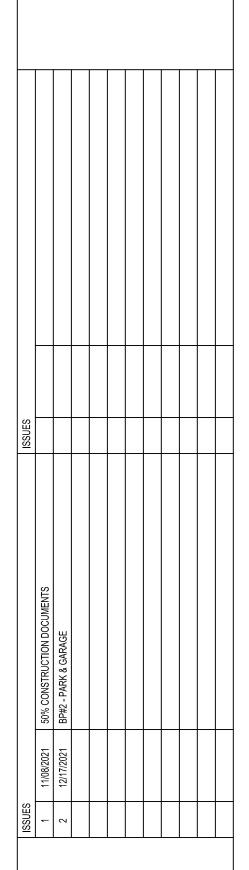


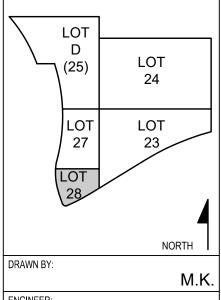






IMPROVEMENTS





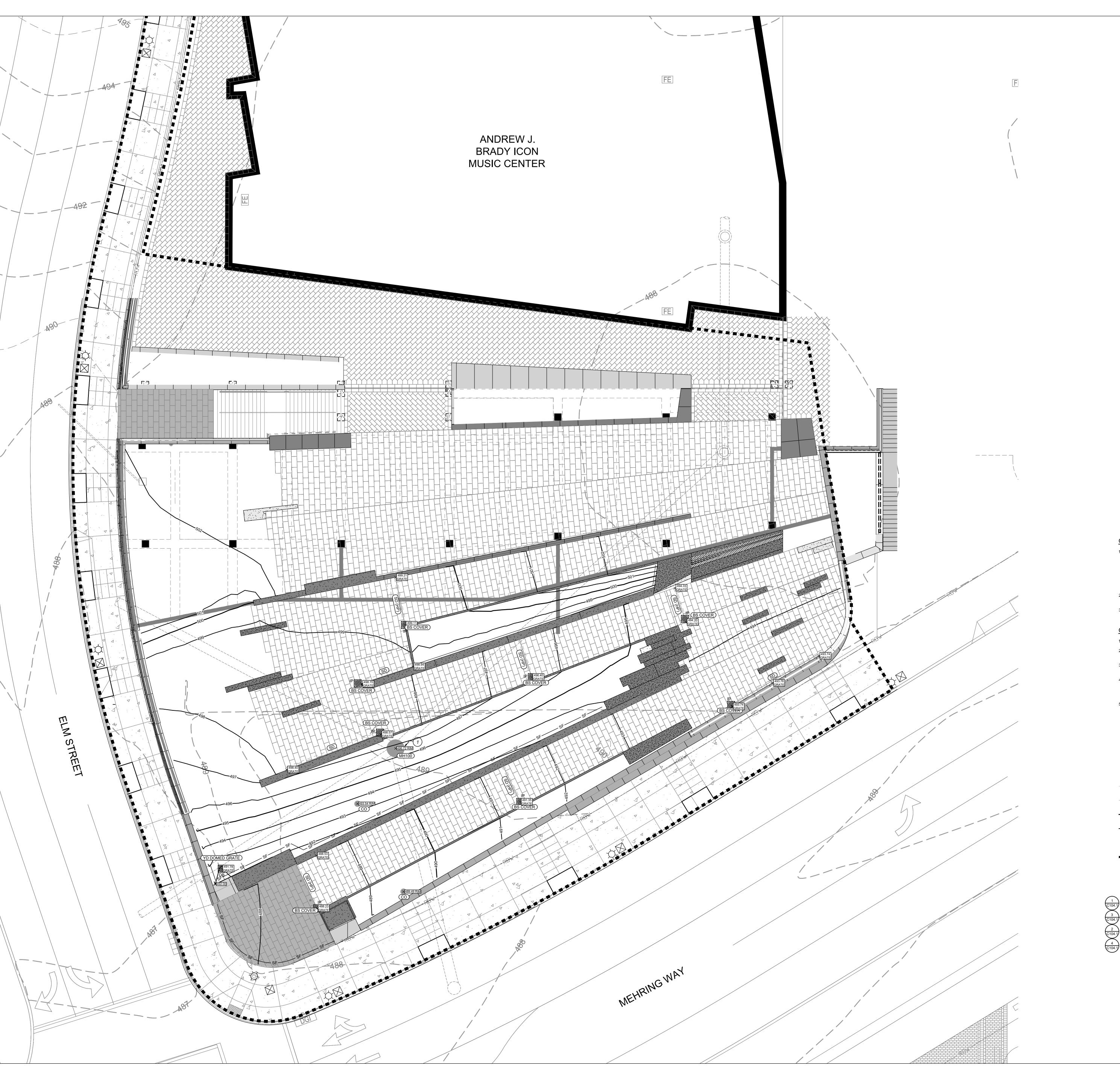
M.K. CHECKED BY

S.K.

LOT 28 GARAGE AND PARK

STORM DETAILS

C102.2





THP Limited, Inc.
Consulting Engineers
100 East Eighth Street
Cincinnati, Ohio 45202
Phone: (513) 241-3222
Fax: (513) 241-2981

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- 2. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE HIM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.

GRADING NOTES

- ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- 2. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S
- 3. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF CINCINNATI AND THE OHIO EPA.
- 4. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
- 5. CONTRACTOR TO LAYOUT BUILDING / STRUCTURE BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

GENERAL NOTE

REFER TO SHEET A102 FOR DETAILED GRADING

CODED NOTES

1 ADJUST RIM TO PROPOSED GRADE

GRADING LEGEND

——1215——PROPOSED MAJOR CONTOUR

-----1216 PROPOSED MINOR CONTOUR

× 1215.00 PROPOSED SPOT ELEVATION

■ ■ ■ ■ LIMITS OF WORK

PROPOSED EROSION CONTROL LEGEND

INLET PROTECTION, USE GRAVEL / SANDBAGS AS NEEDED TO PROTECT DURING CONSTRUCTION AND ERTEC-SLOT GUARD OR APPROVED EQUAL

DB DANDY BAG

DANE

SF SILT

CONO

CON

CWO CONCRETE WASHOUT

CONCR
CONCR
CONSTI

CONSTRUCTION ENTRANCE, MAINTAIN AS NECESSARY. INSTALLED IN BID PACKAGE 1

NORTH I
NBY:
M.K.
EER:
M.K.
KED BY:
S.K.

LOT 28 GARAGE AND PARK

GRADING PLAN

JOB NUMBER DATE 98090.34 12/17/2021

C103

PROJECT DATA

PROJECT DESCRIPTION
THE BANKS PUBLIC INFRASTRUCTURE DEVELOPMENT - LOT 28 GARAGE & PARK. EXISTING GRAVEL LOT IS TO BE PREPARED FOR A PARKING GARAGE EXTENSION AND PROPOSED HARDSCAPE. FOUNDATION WORK IS TO BE COMPLETED IN THIS PHASE OF CONSTRUCTION.

LATITUDE: N 39°05'41.01" LONGITUDE: W 84°30'49.04"

ESTIMATED CONSTRUCTIONS DATES: DECEMBER 2021 - SEPTEMBER 2022

TOTAL SITE AREA:
TOTAL DISTURBED AREA:

EXISTING IMPERVIOUS AREA:
PROPOSED IMPERVIOUS AREA:
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:
UNCREASE IN IMPERVIOUS AREA:

O.65 ACRES

PRE-CONSTRUCTION RUNOFF COEFFICIENT: C=0.90
POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.90

IMMEDIATE RECEIVING WATER/MS4: MS4
ULTIMATE RECEIVING STREAM: OHIO RIVER

EXISTING LAND USE: PARKING LOT

SOILS: UrO URBAN LAND, 0-12 PERCENT SLOPES, OCCASIONALLY FLOODED, UsUXF URBAN LAND - UDORTHENTS COMPLEX, SMOOTHED, 0-50 PERCENT SLOPES

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

- A) INSTALL EROSION CONTROL ITEMS.
- B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.

 C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE
- STRIPPING OPERATION.

 D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
- E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION
- REGULATIONS INCLUDING:

 1. SEEDING
- SEEDING
 DITCH MATTING
- 3. INLET PROTECTION
- 4. MULCHING5. WATERING

PROJECT ENGINEER

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE NAME PHONE NUMBER

SITE SUPERINTENDENT

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.

2) STOP THE SPILL.3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.

4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

24 HOUR PHONE NO.:

OHIO EPA 614-728-3898

GENERAL NOTES

ADDITIONAL EMERGENCY CONTACT NUMBERS:

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH A REVISION IN APRIL 2018. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION

WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000005. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION						
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS					
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE					
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE					
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA					

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000005. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION						
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS					
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS					
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).					
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER					

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN

6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND

ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE
3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET,
TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF
SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE

4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL						
SEED TYPE	PER 1,000 SQ FT	PER ACRE				
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS				
SMALL GRAIN STRAW	90 POUNDS	2 TONS				
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12				
NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED						

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	М	Α	М	J	J	Α	S	0	N	D	
PERMANENT SEEDING			•	•	•	*	*	*	•	•			* IRRIGATION NEEDED
DORMANT SEEDING	•	•	•							•	•	•	** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS
TEMPORARY SEEDING			•	•	•	*	*	*	•	•			APPLIED
SODDING			**	**	**	**	**	**	**				
MULCHING	•	•	•	•	•	•	•	•	•	•	•	•	

<u>NSPECTIONS</u>

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL

- REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:
- THE INSPECTION DATE;
 NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- 3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- 4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
- 5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- 6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
- 7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- 8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- 9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.27.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

- 1. <u>VEGETATIVE COVER AND/MULCH</u> APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- 2. WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO
- MANUFACTURERS INSTRUCTIONS.

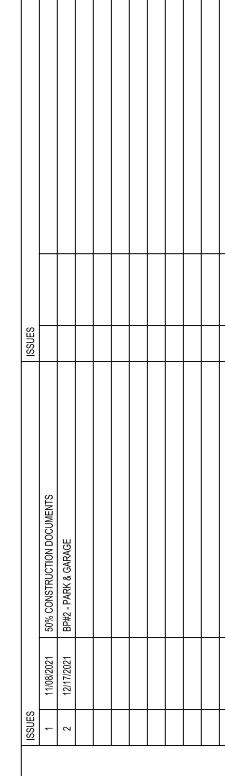
 3. SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

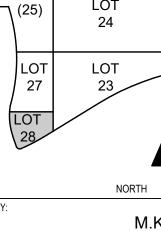
<u>ADHESIVE</u>	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS







M.K.

JEER:

M.K.

KED BY:

S.K.

LOT 28 GARAGE AND PARK

EROSION CONTROL
NOTES & DETAILS

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SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

- 1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- 2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF
- POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL
- 4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- 5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. 7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

- 2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- 3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- 1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION
- AND CLEANUP SUPPLIES. 2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES,
- KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. 3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO
- 4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
- 5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
- 6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE
- CLEANUP MEASURES WILL ALSO BE INCLUDED. 7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

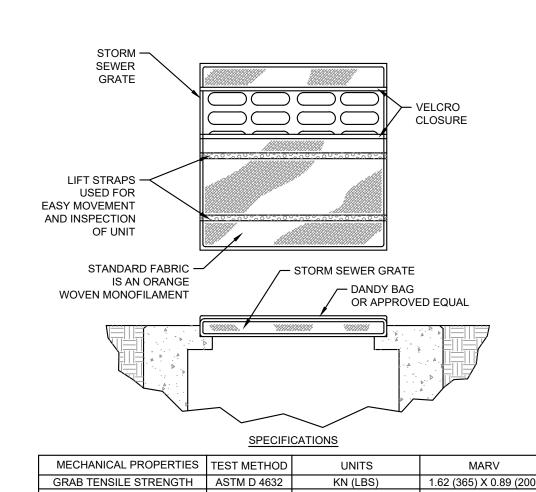
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND

PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.



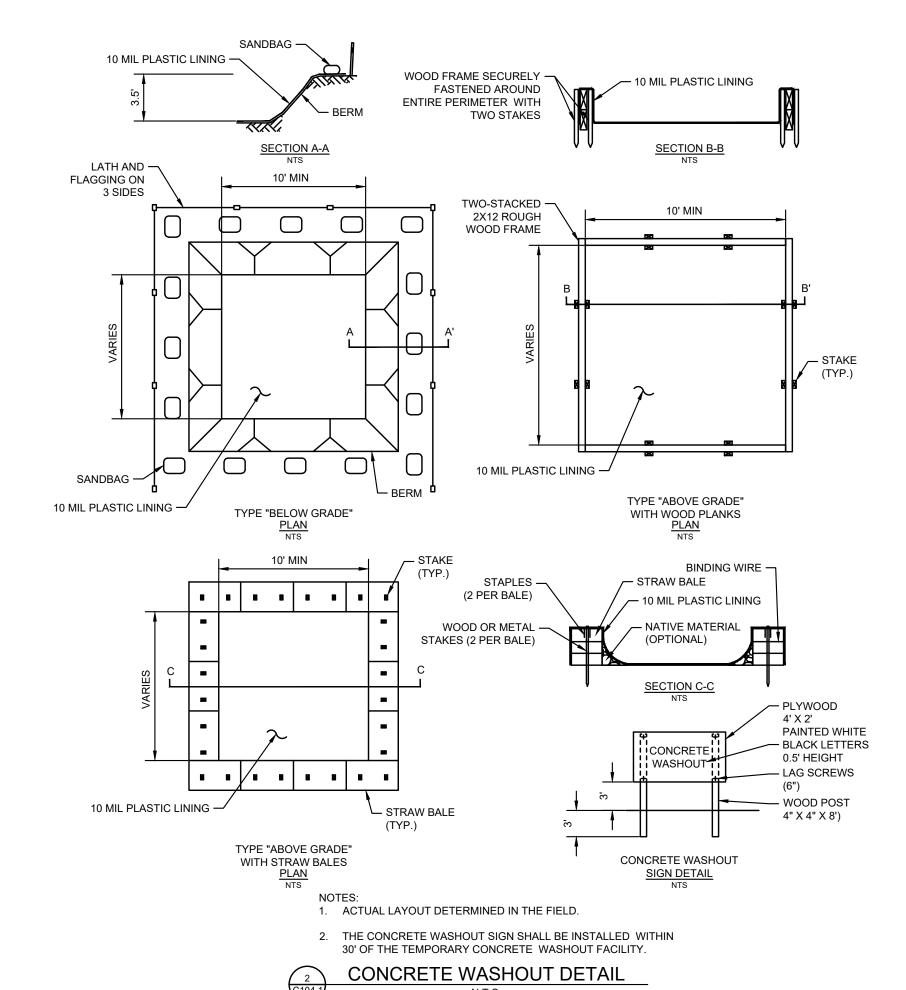
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)				
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)				
UV RESISTENCE	ASTM D 4355	%	90				
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)				
FLOW RATE	ASTM D 4491	1/MIN/M²(GAL/MIN/FT²)	5907 (145)				
PERMITTIVITY	ASTM D 4491	SEC ⁻¹	2.1				
INSTALLATION: THE EMPTY DAI	NDY BAG SHOUL	D BE PLACED OVER THE	GRATE AS THE GRATE				
STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN							
POUCH, ON THE BOTTOM (BELO	OW-GRADE SIDE) OF THE UNIT. ATTACH	ABSORBENT PILLOW				

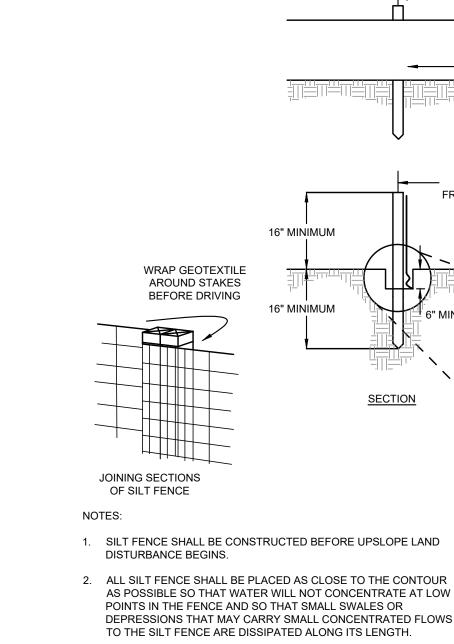
GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL

TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE

ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.









- AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH. 3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE
- SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.

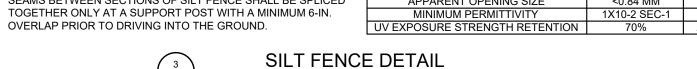
FENCE. IF VEGETATION IS REMOVED, IT SHALL BE

- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT
- REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE CRITERIA FOR SILT FENCE MATERIALS 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16
- INCHES ABOVE THE ORIGINAL GROUND SURFACE. 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING

ADEQUATELY UNIFORM TRENCH DEPTH.

MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN

- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- 9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN.



SECTION

—10' MAXIMUM——

LEVEL CONTOUR NO SLOPE

FRONT OF BARRIER

BACKFILLED AND

COMPACTED

ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF

AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A

SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT

SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE

DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND

ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE

1. FENCE POST – THE LENGTH SHALL BE A MINIMUM OF 32 INCHES.

HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS,

SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN

THE POSTS THE MAXIMUM SPACING BETWEEN POSTS SHALL BE

10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE

 MINIMUM TENSILE STRENGTH
 120 LBS. (535 N)
 ASTM D 4632

 MAXIMUM ELONGATION AT 60 LBS
 50%
 ASTM D 4632

 MINIMUM PUNCTURE STRENGTH
 50 LBS. (220 N)
 ASTM D 4833

 MINIMUM TEAR STRENGTH
 40 LBS. (180 N)
 ASTM D 475

GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE

WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED

SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

FENCE DUE TO SEDIMENT/WATER LOADING.

2. SILT FENCE FABRIC - SEE CHART BELOW.

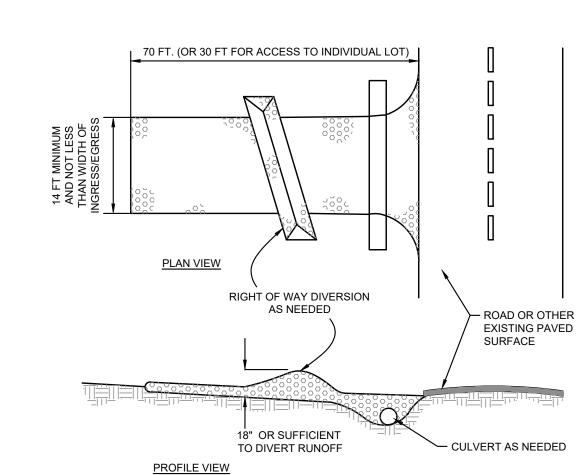
AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE

OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR

CONCENTRATED FLOW DISCHARGE ONE OF THE FOLLOWING

SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE

10. MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS



- 1. STONE SIZE ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- 3. THICKNESS THE STONE LAYER SHALL BE AT LEAST 6 INCHES HEAVY DUTY USE.

EGRESS OCCURS.

- 4. WIDTH THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR
- 5. GEOTEXTILE A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
- MINIMUM TENSILE STRENGTH. . 200 LBS MINIMUM PUNCTURE STRENGTH. .. 80 LBS MINIMUM TEAR STRENGTH. . 50 LBS MINIMUM BURST STRENGTH. .. 320 PSI MINIMUM ELONGATION... **EQUIVALENT OPENING SIZE..** .. EOS< 0.6MM PERMITTIVITY.... 1X10⁻³CM/SEC
- 6. TIMING THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.

- 7. CULVERT A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF
- FROM BEING DIRECTED OUT ONTO PAVED SURFACES. 8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT

CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.

SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE

- THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR 9. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES, TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT
 - 0. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY

CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL

11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

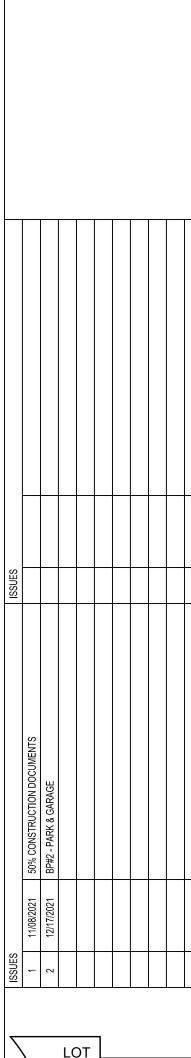
BE ACCOMPLISHED BY SCRAPING OR SWEEPING.





HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



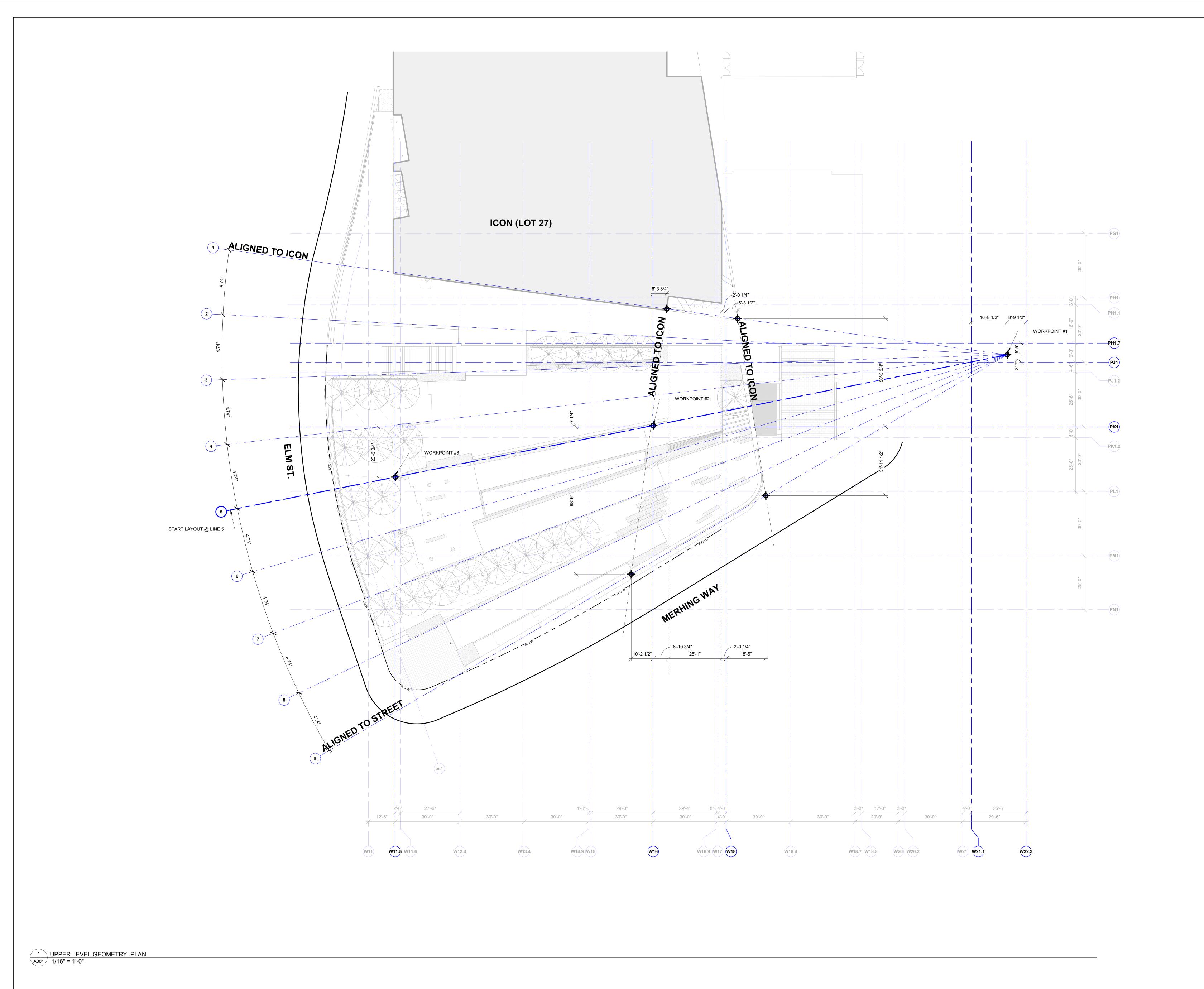


NORTH M.K. S.K. 5

LOT 28 GARAGE AND PARK

EROSION CONTROL NOTES & DETAILS

C104.1

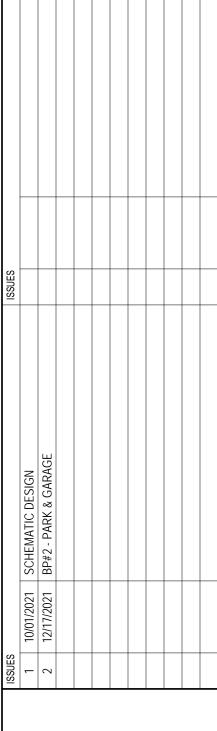






michael mcinturf ARCHITECTS 1116 RACE ST CINCINNATI, DH 45202 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM

PRELIMINARY NOT FOR CONSTRUCTION



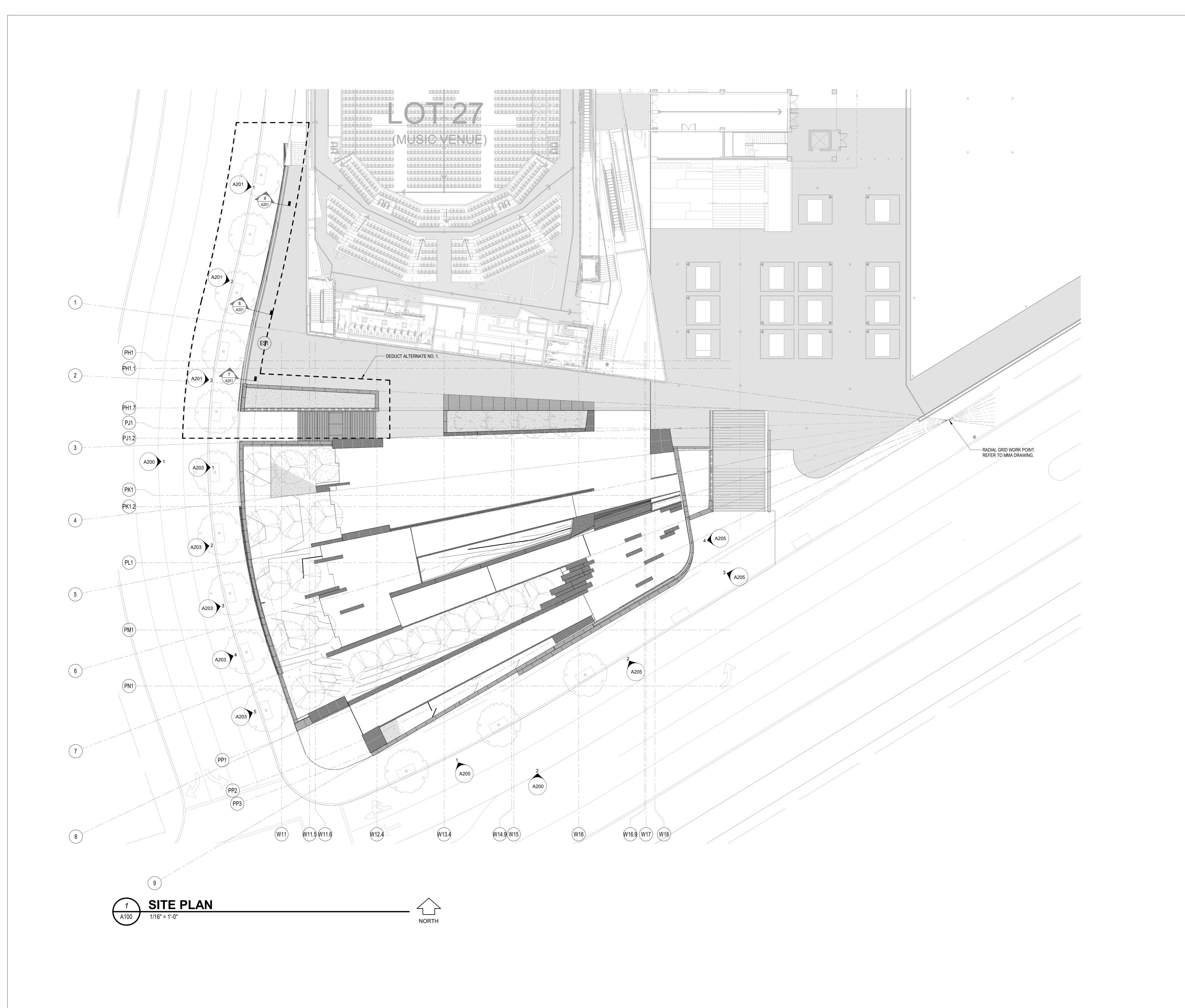


LOT 28 GARAGE AND PARK

GEOMETRIC LAYOUT PLAN

98090.40 DRAWING NUMBER 12/17/2021

A001

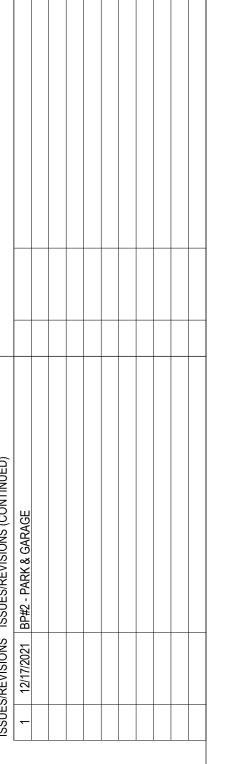


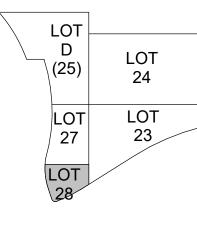




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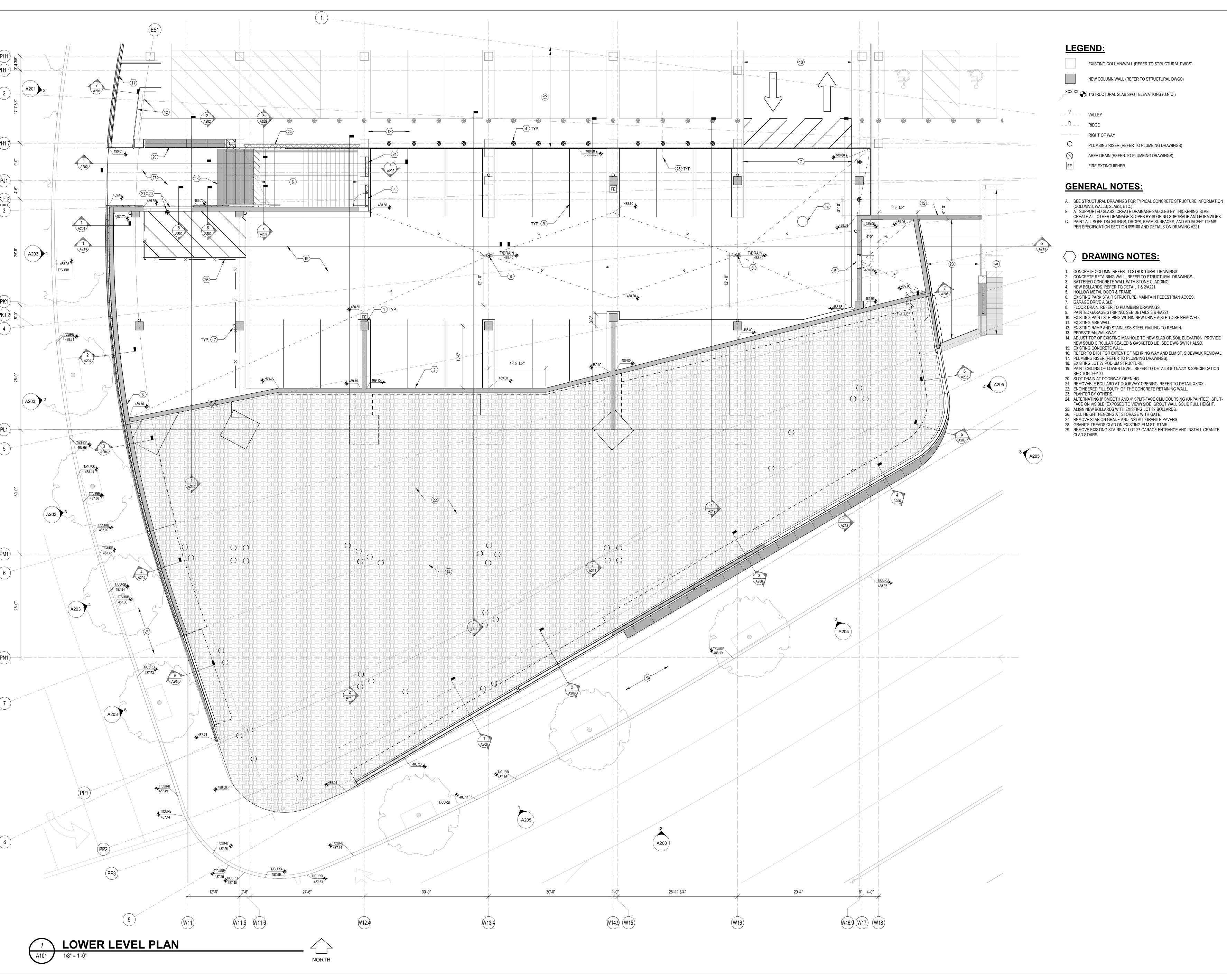


DRAWING TITLE

SITE PLAN

JOB NUMBER DATE
THP 98090.40 12/17/2021
DRAWING NUMBER

A100





- C. PAINT ALL SOFFITS/CEILINGS, DROPS, BEAM SURFACES, AND ADJACENT ITEMS

- 16. REFER TO D101 FOR EXTENT OF MEHRING WAY AND ELM ST. SIDEWALK REMOVAL.

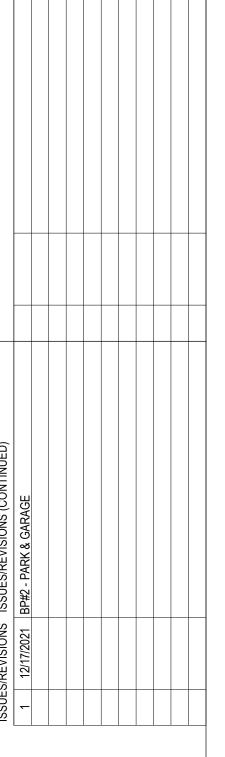


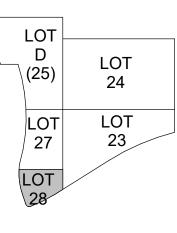


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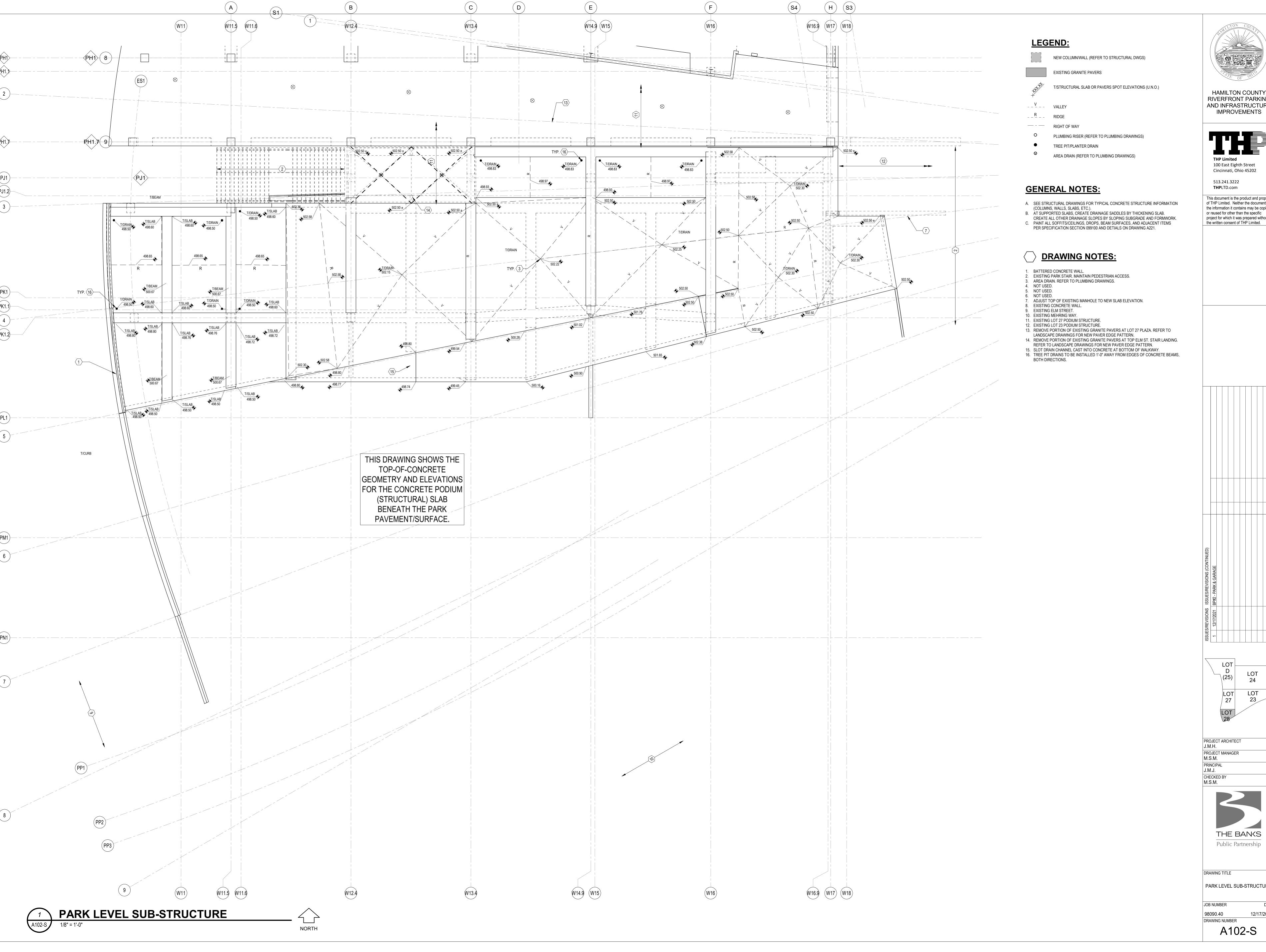


DRAWING TITLE

JOB NUMBER THP 98090.40 DRAWING NUMBER

LOWER LEVEL PLAN

A101





HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE



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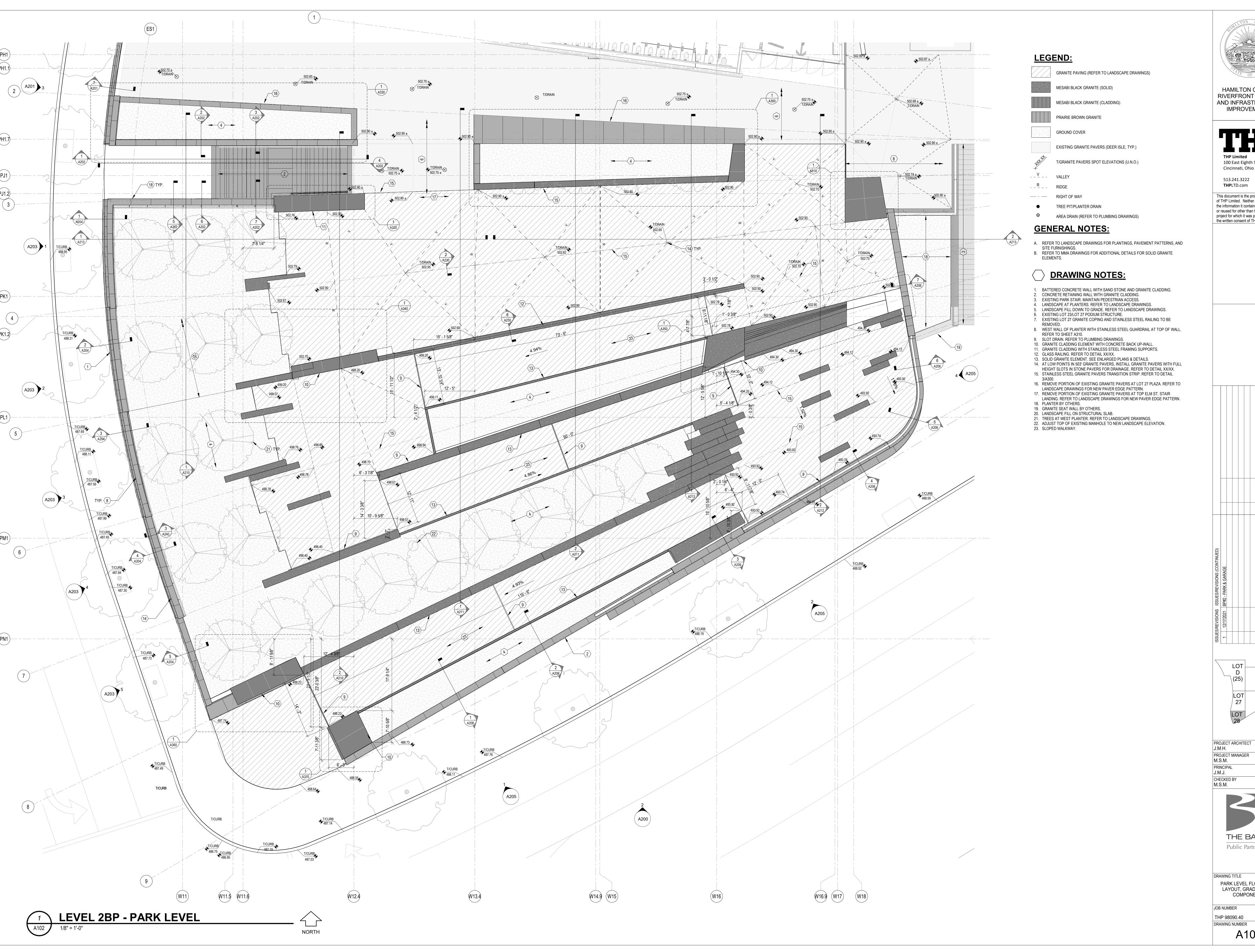
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PARK LEVEL SUB-STRUCTURE

JOB NUMBER DRAWING NUMBER

A102-S







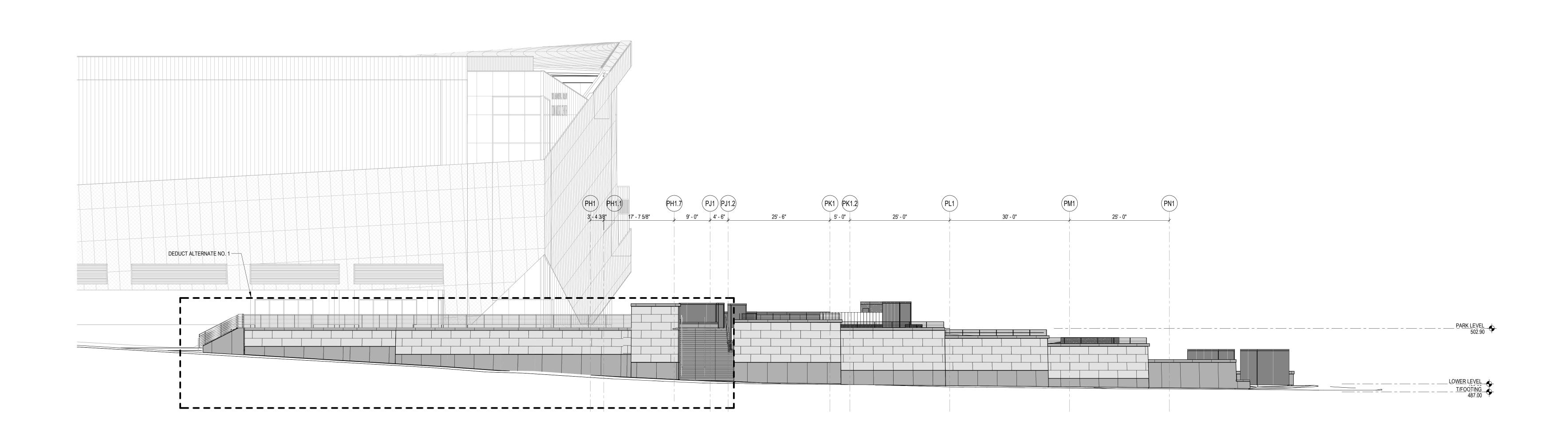
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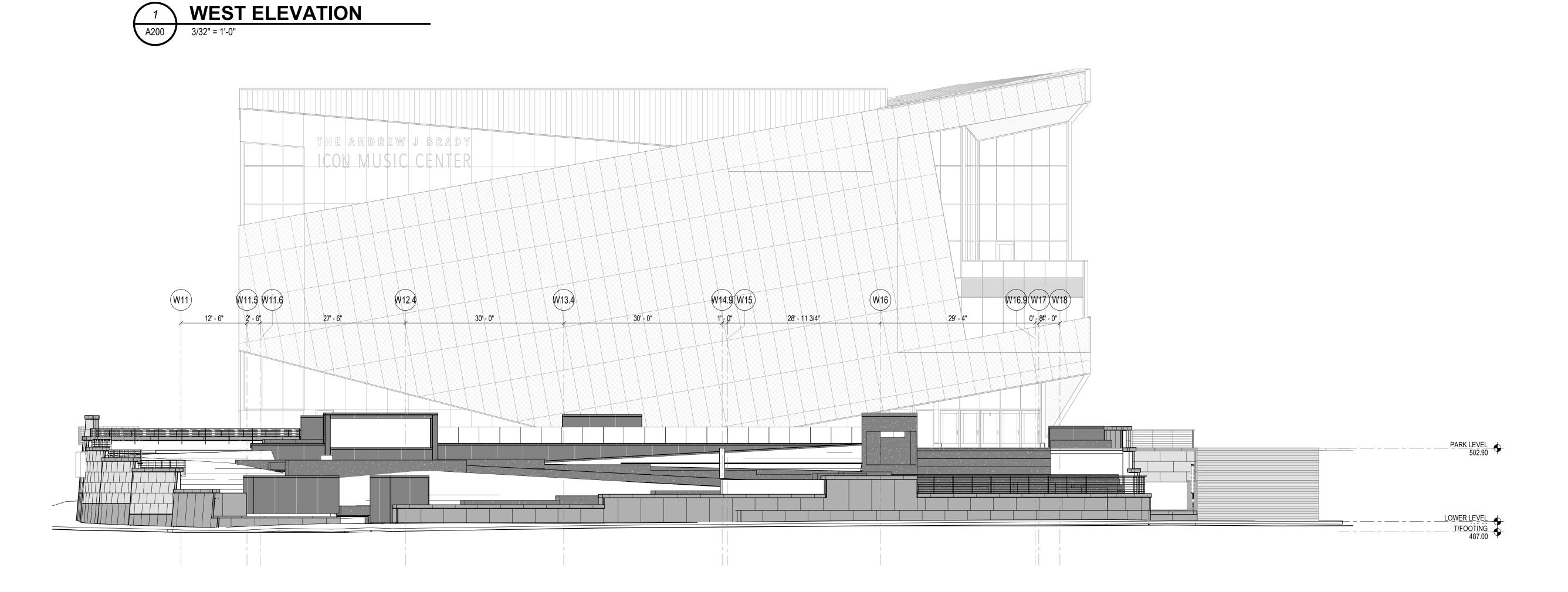
THE BANKS

PARK LEVEL FLOOR PLAN LAYOUT, GRADING, AND COMPONENTS

Public Partnership

JOB NUMBER THP 98090.40 DRAWING NUMBER A102



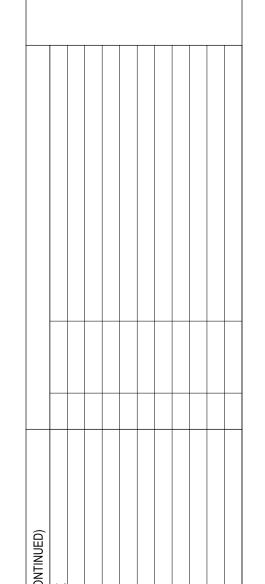


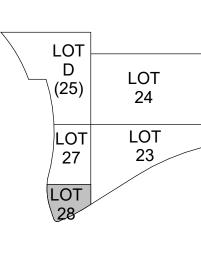






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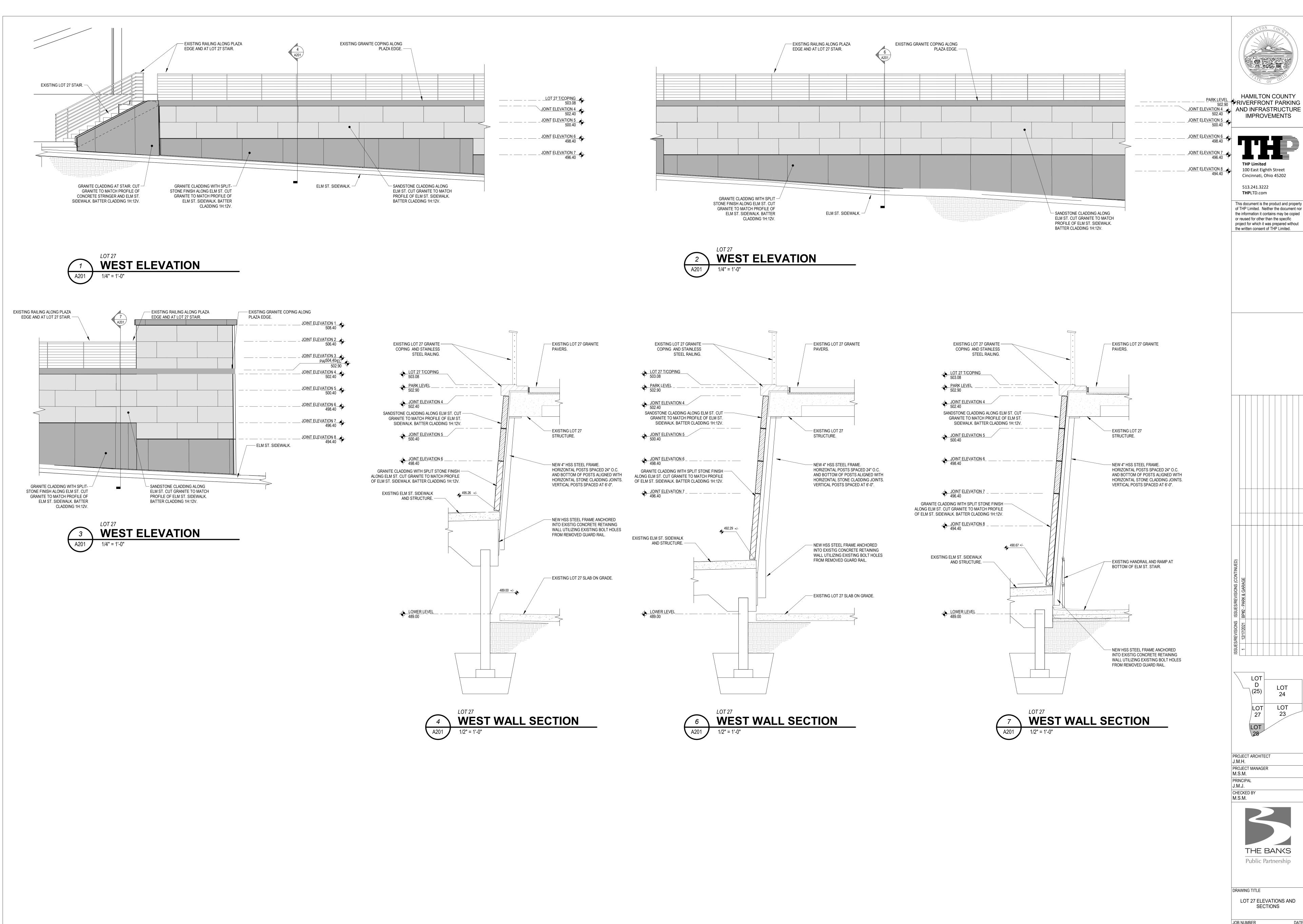
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OVERALL ELEVATIONS

JOB NUMBER CONTROL THP 98090.40 12/17/20 DRAWING NUMBER A200



JOINT ELEVATION 4
502.40
IMPROVEMENTS

HAMILTON COUNTY

100 East Eighth Street Cincinnati, Ohio 45202

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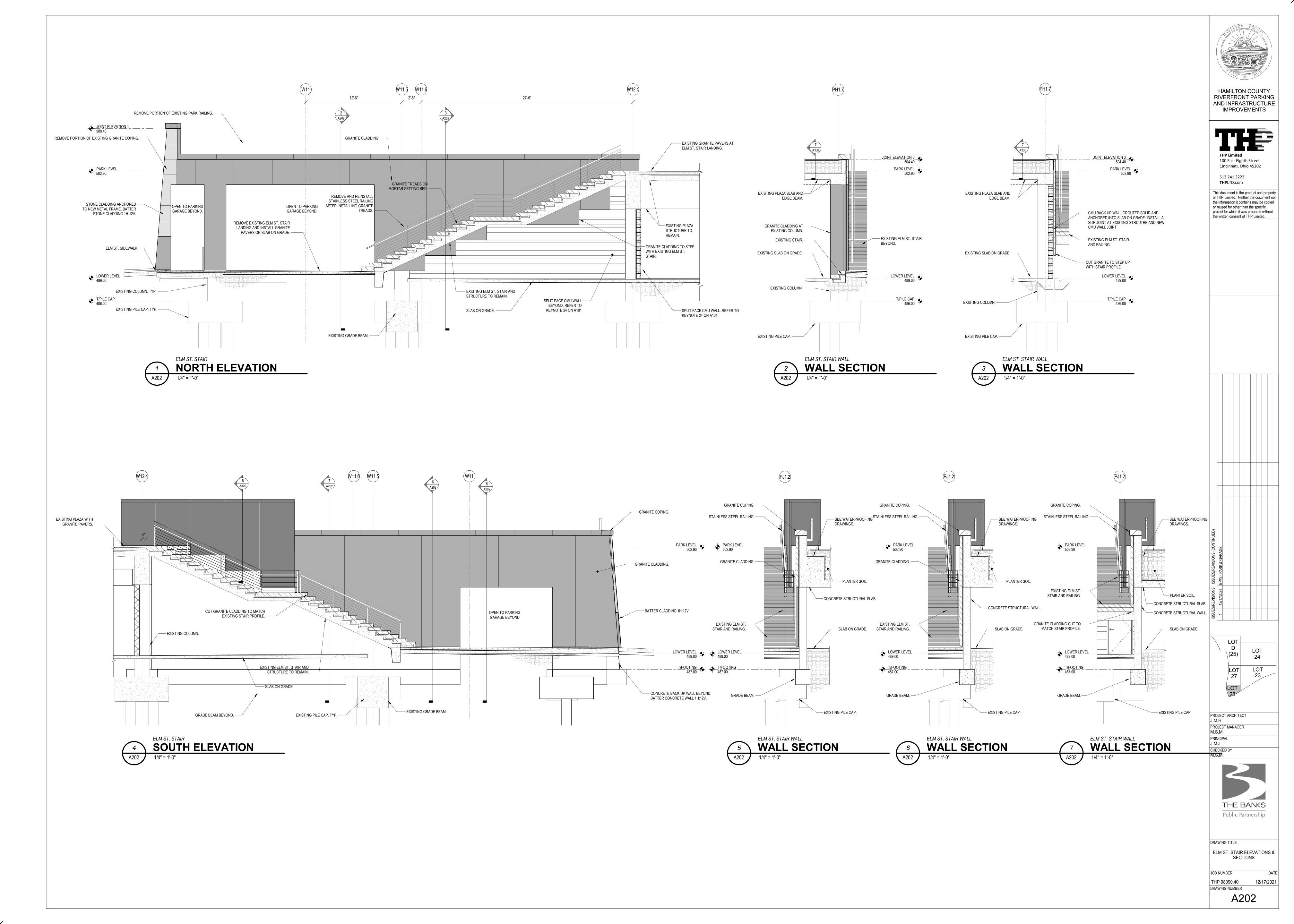
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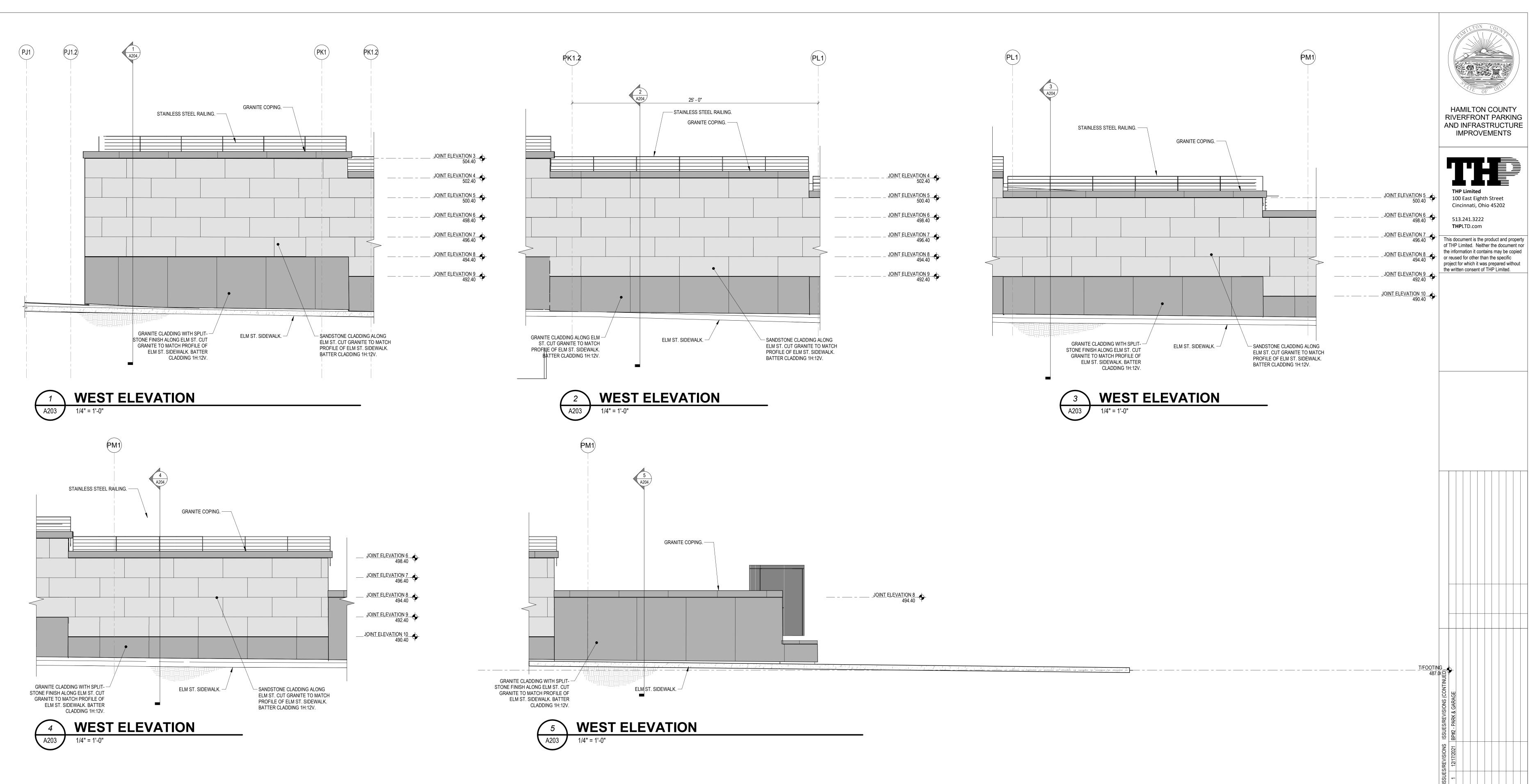
PROJECT ARCHITECT J.M.H. PROJECT MANAGER M.S.M. PRINCIPAL J.M.J. CHECKED BY



DRAWING TITLE LOT 27 ELEVATIONS AND SECTIONS

JOB NUMBER THP 98090.40 DRAWING NUMBER A201





ISSUES/REVISIONS ISSUES/REVISION ISSUES/REVISION ISSUES/R

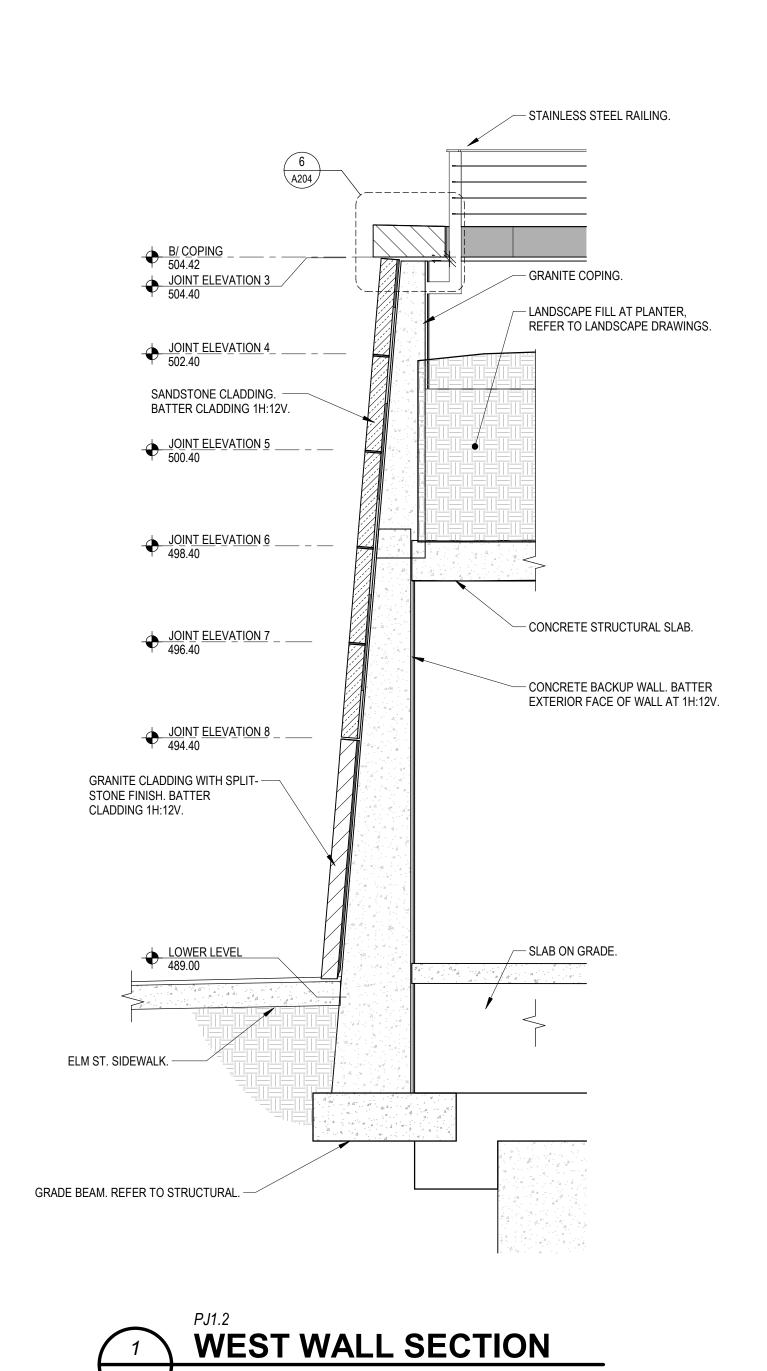
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PROJECT MANAGER
M.S.M.
PRINCIPAL
J.M.J.

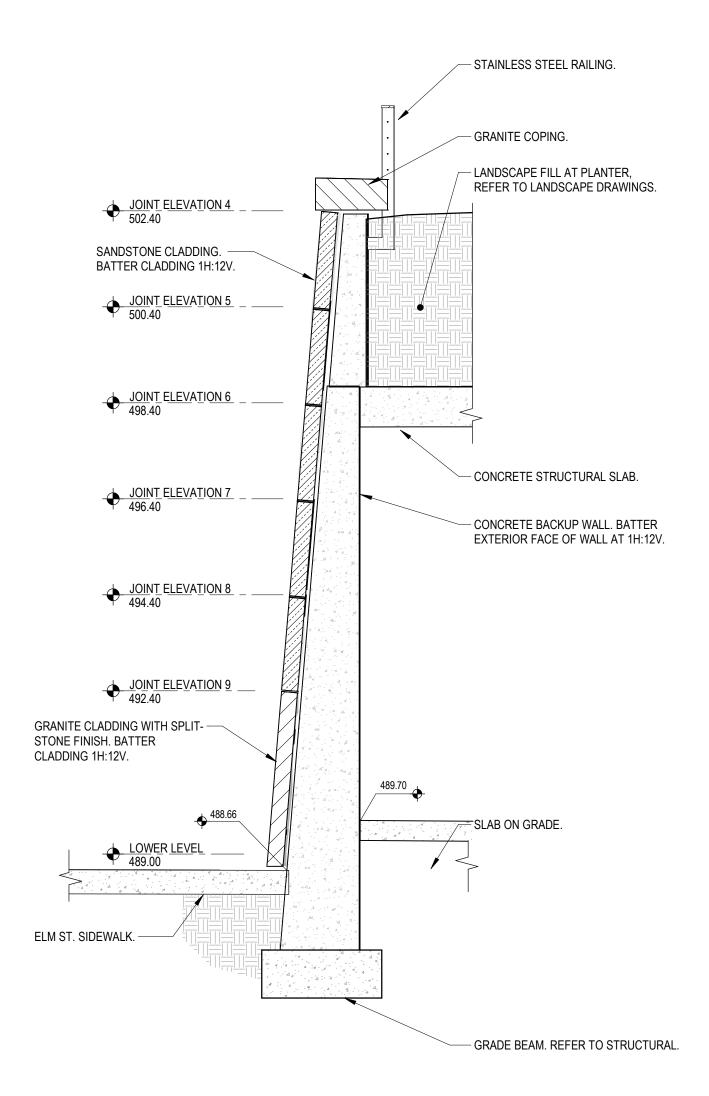


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ELM ST. ELEVATIONS

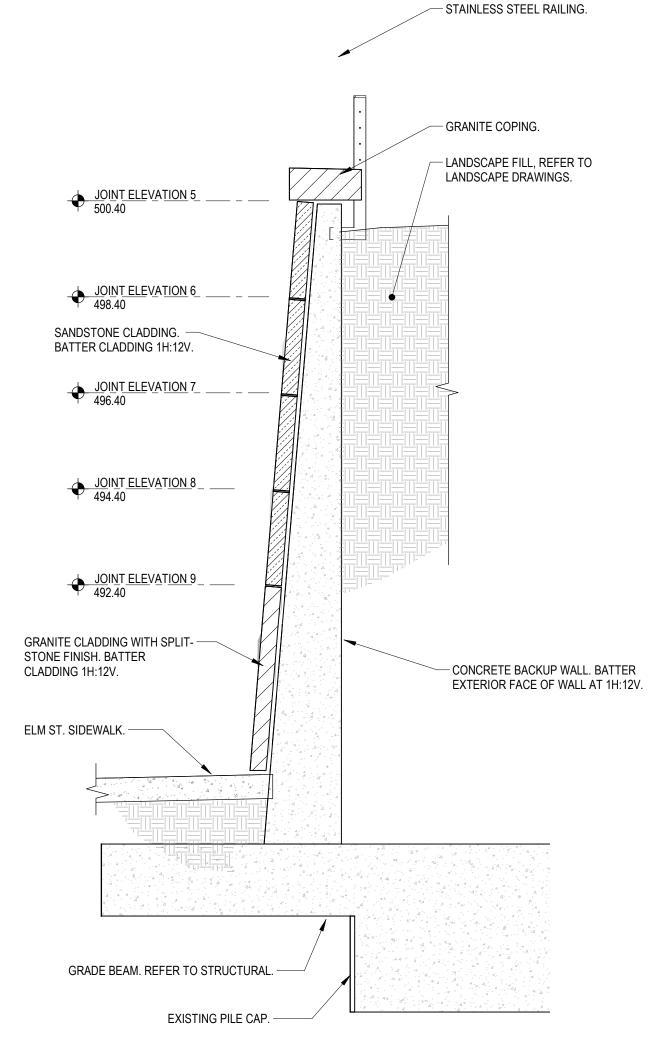
JOB NUMBER DATE THP 98090.40 12/17/20 DRAWING NUMBER

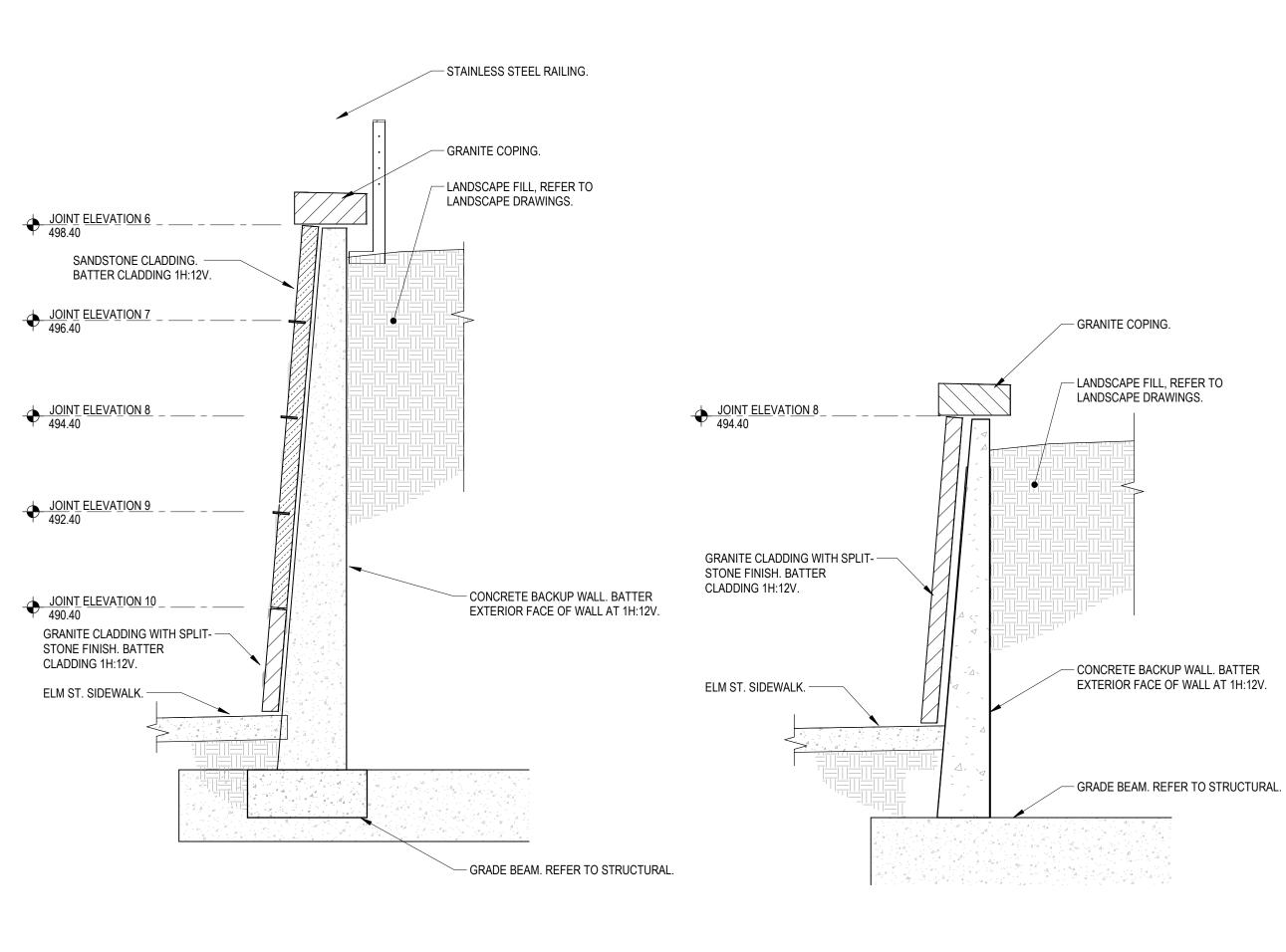


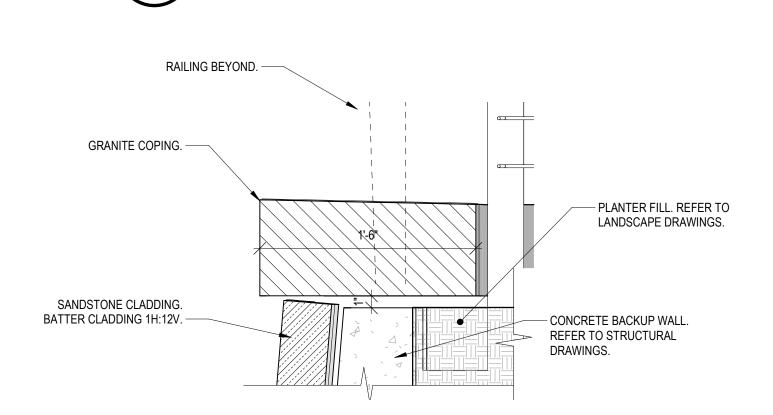


WEST WALL SECTION

A204













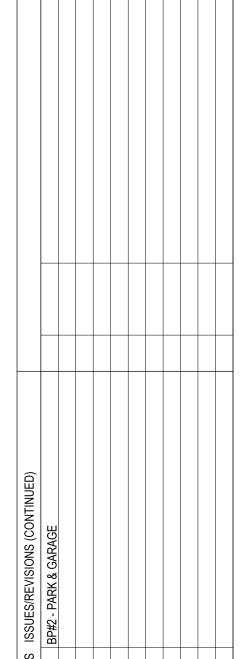


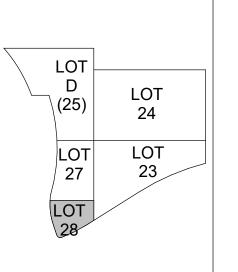


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



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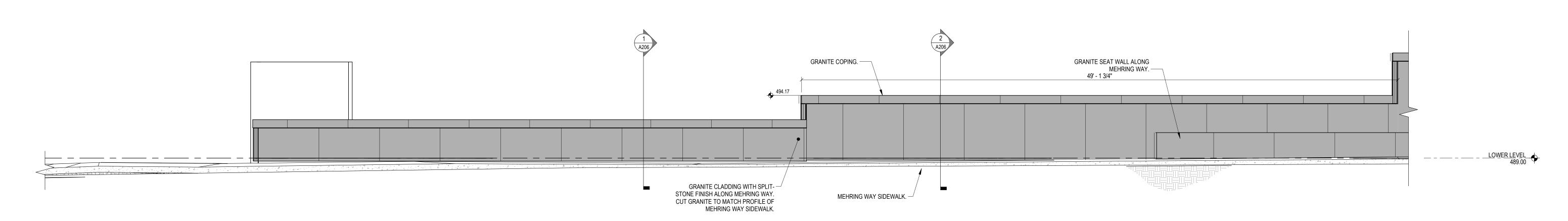


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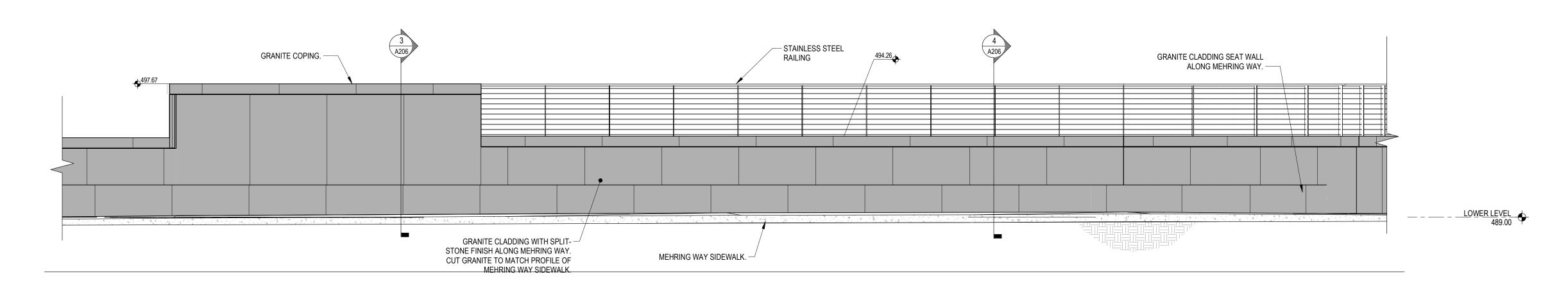
ELM ST. WALL SECTIONS

JOB NUMBER DA
THP 98090.40 12/17/202
DRAWING NUMBER

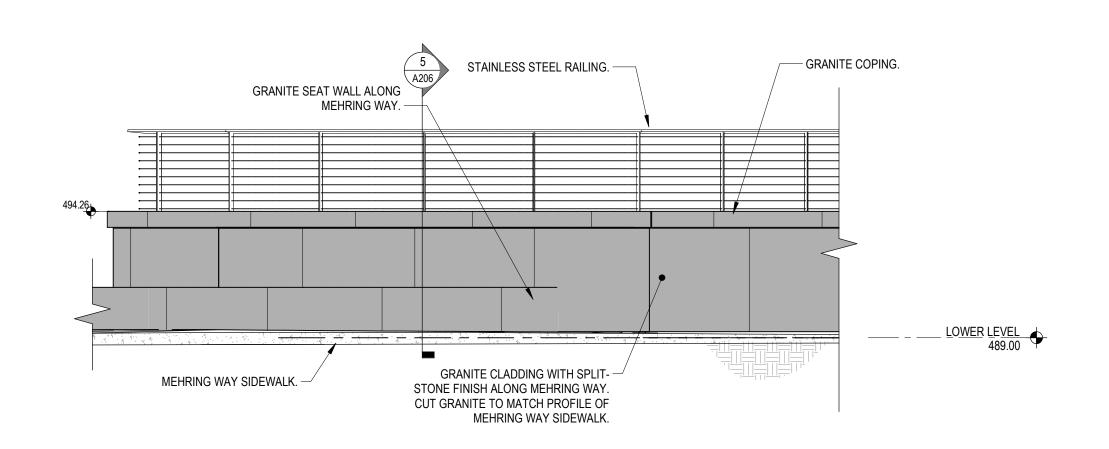
NUMBER **A204**



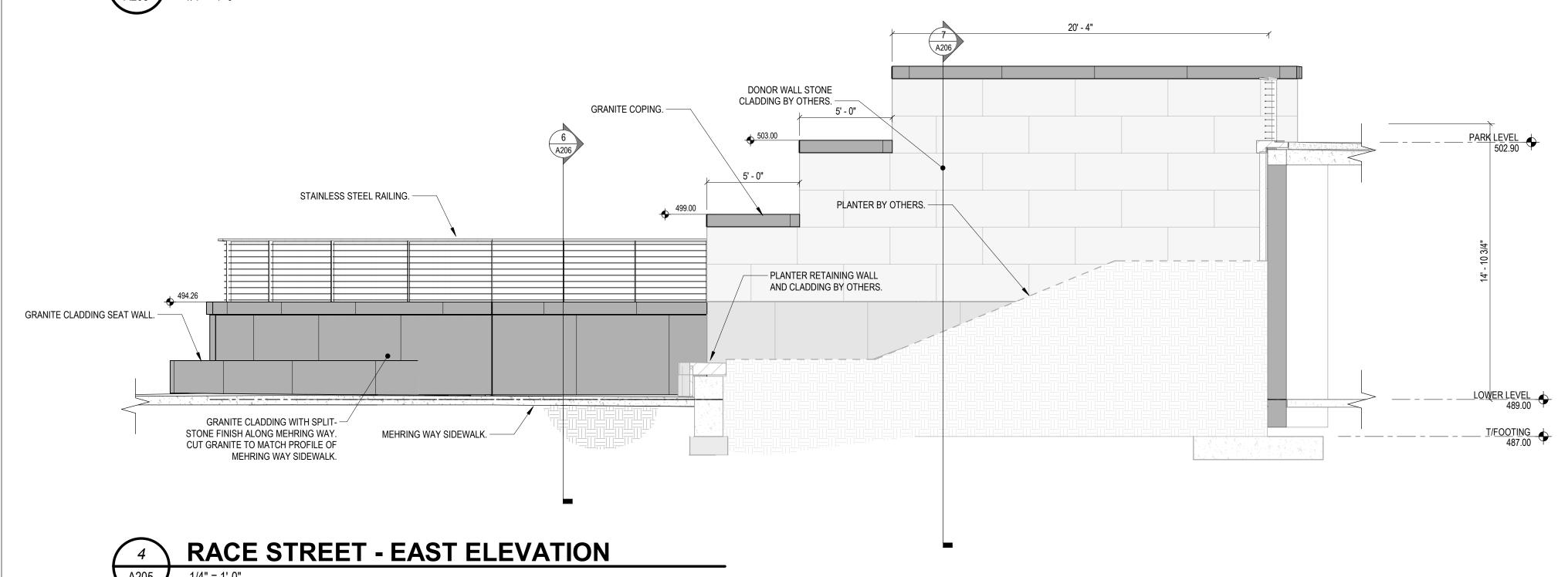
MEHRING WAY - SOUTHWEST ELEVATION 1/4" = 1'-0"

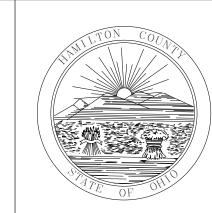


MEHRING WAY - SOUTHEAST ELEVATION 1/4" = 1'-0"



SOUTHEAST CORNER - ELEVATION 1/4" = 1'-0"

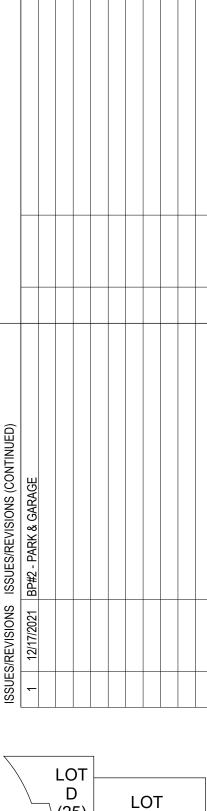


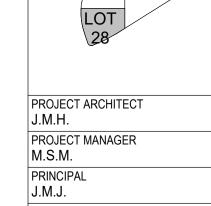


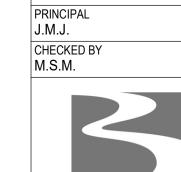
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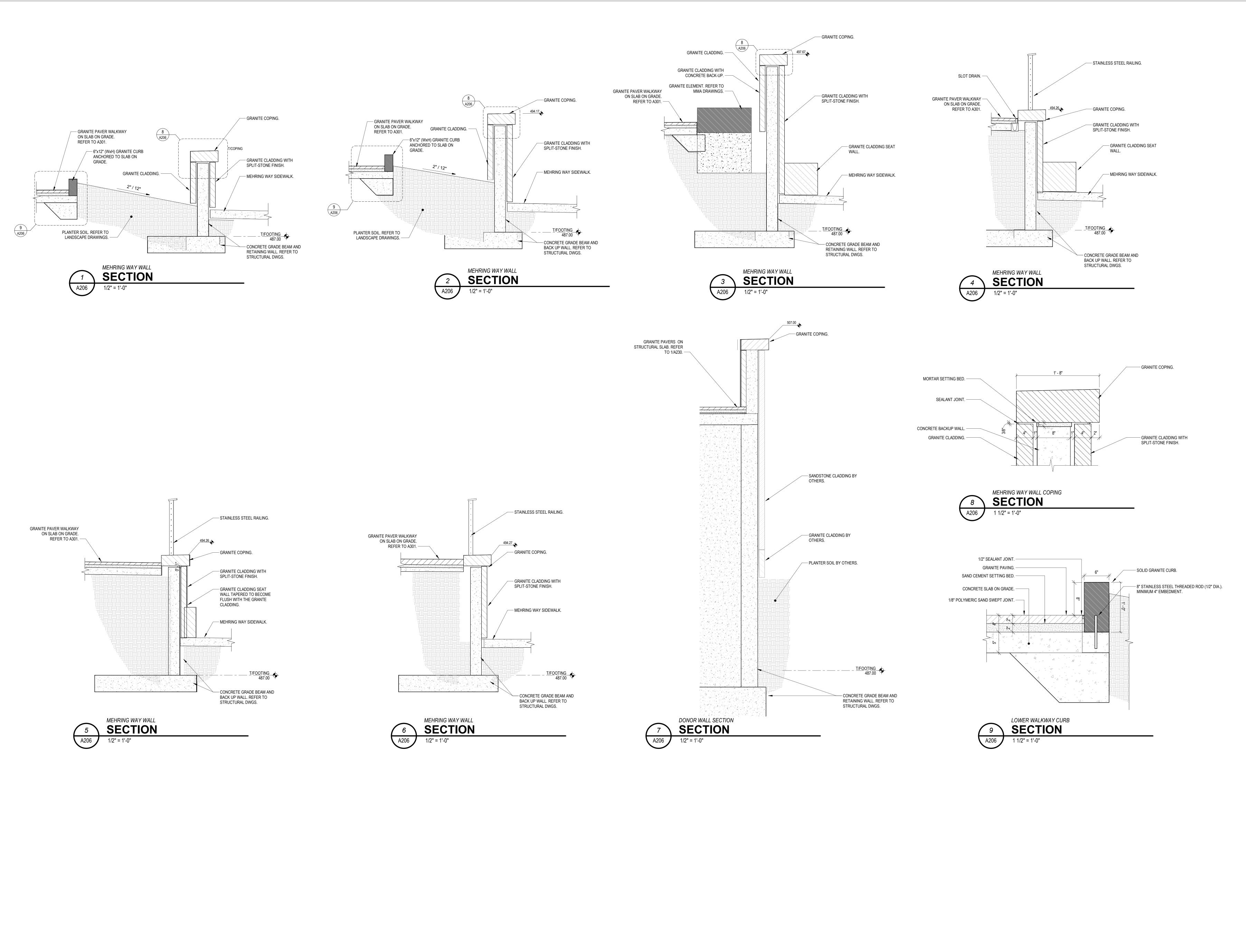




DRAWING TITLE

MEHRING WAY ELEVATIONS

JOB NUMBER DA
THP 98090.40 12/17/20
DRAWING NUMBER
A205



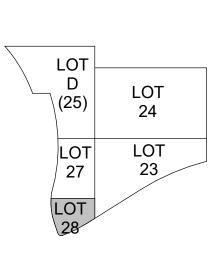


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1 12/17/2021 BP#2 - PARK & GARAGE



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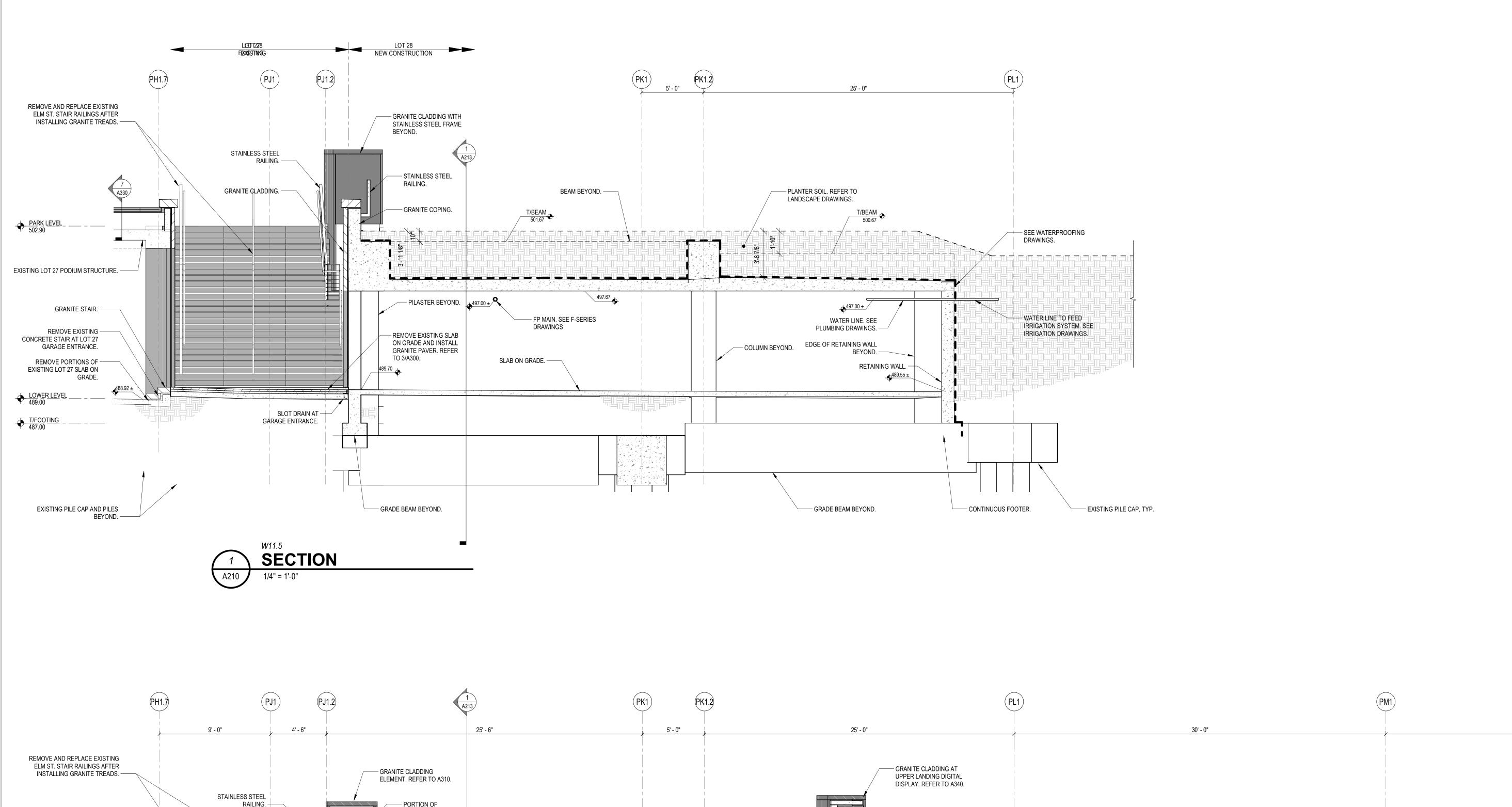
MEHRING WAY WALL

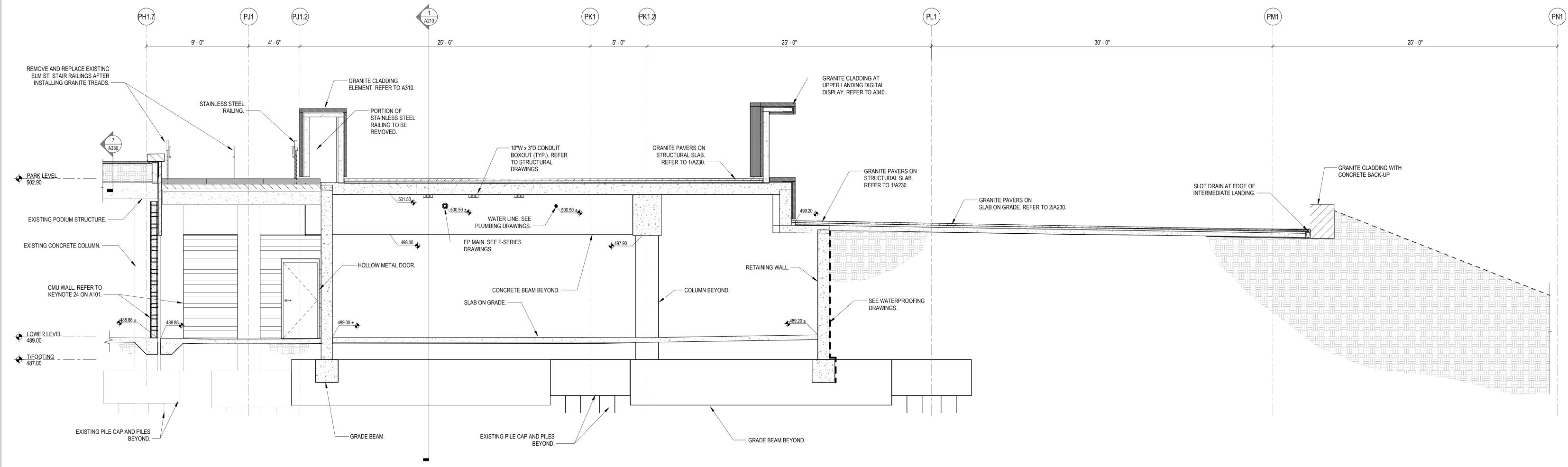
SECTIONS

JOB NUMBER DAT

THP 98090.40 12/17/2022

DRAWING NUMBER





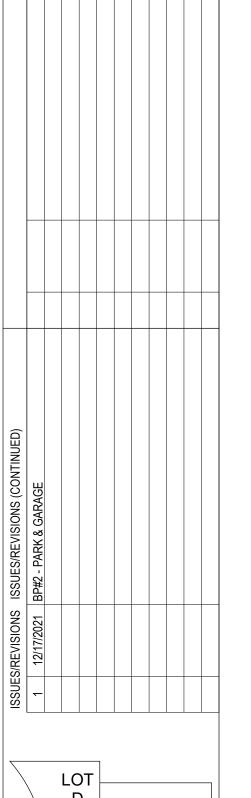


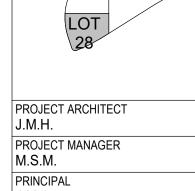




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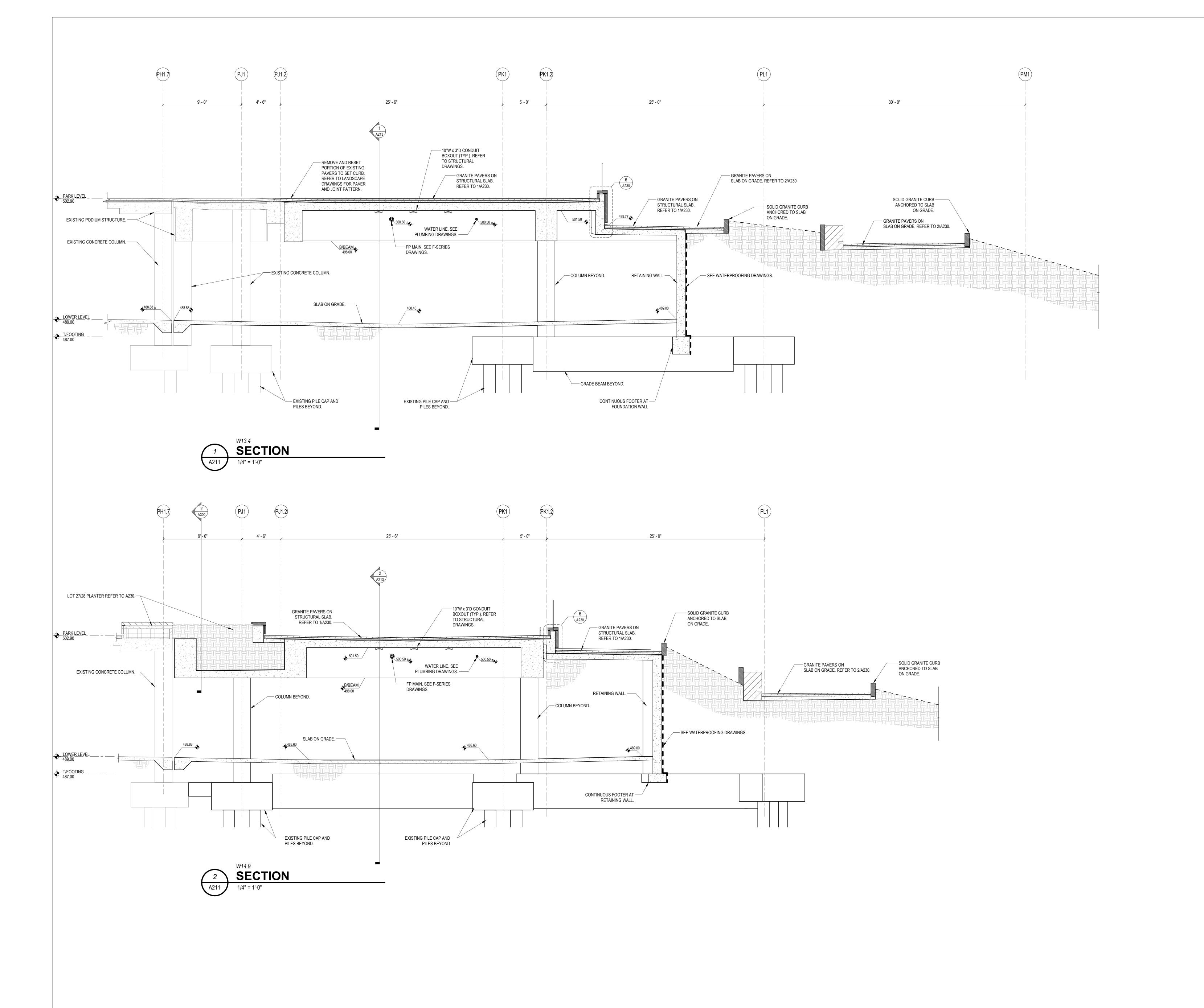
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M.S.M.



DRAWING TITLE
BUILDING SECTIONS

JOB NUMBER DAT
THP 98090.40 12/17/202
DRAWING NUMBER

A210

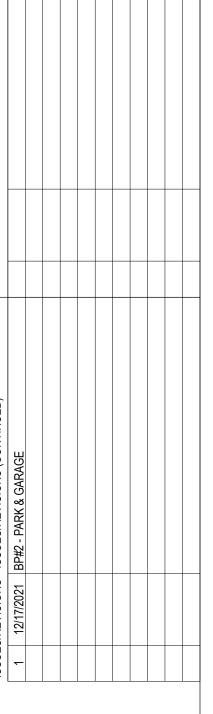


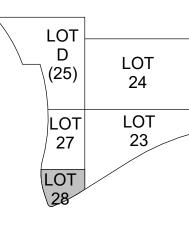




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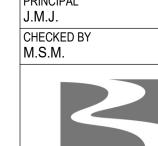


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PROJECT MANAGER
M.S.M.

PRINCIPAL
J.M.J.

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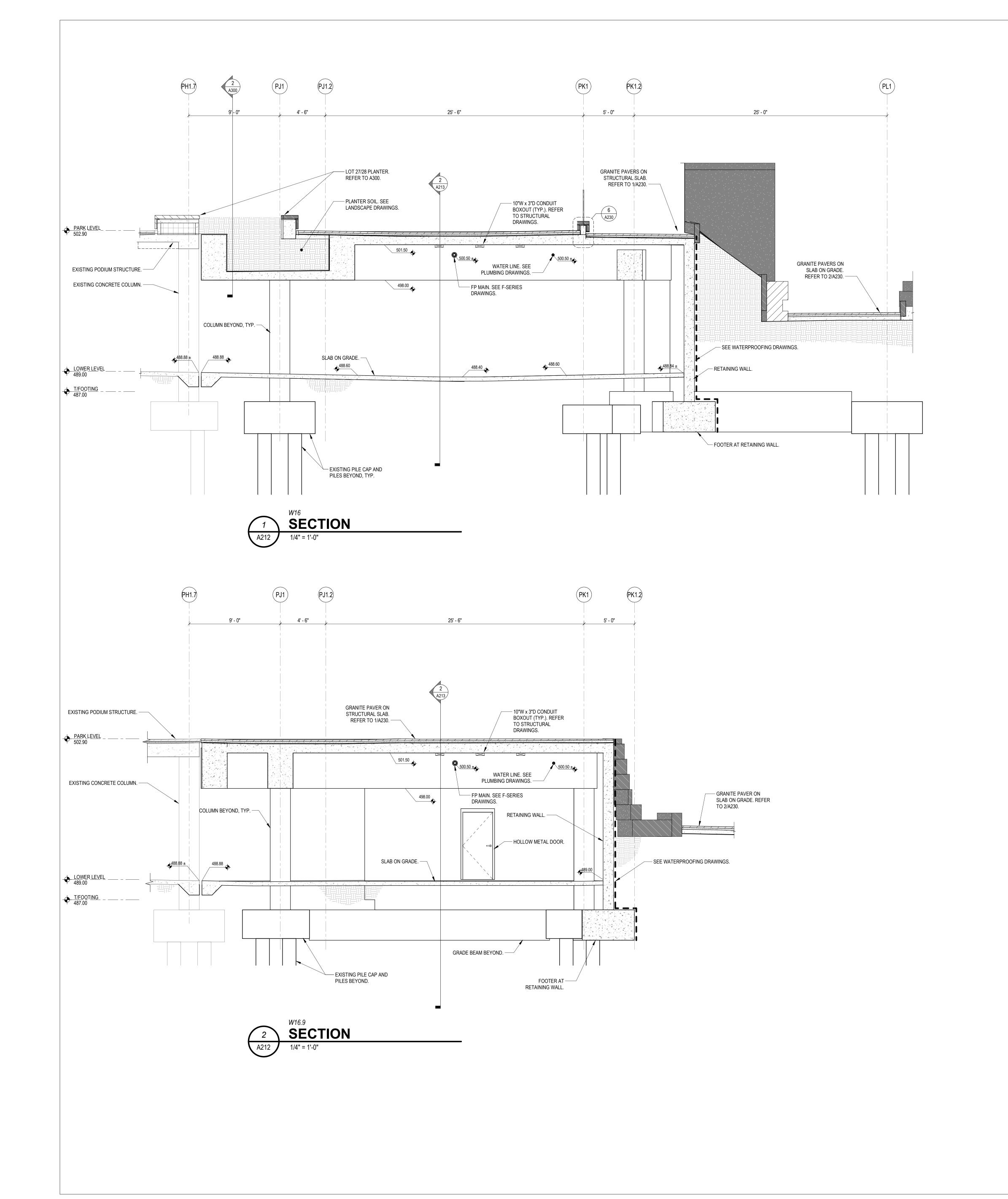


DRAWING TITLE

BUILDING SECTIONS

JOB NUMBER DA
THP 98090.40 12/17/202
DRAWING NUMBER

A211

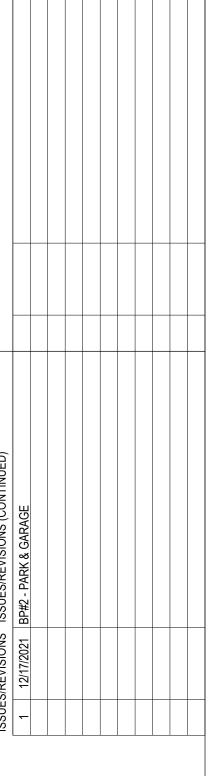


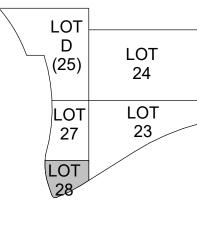




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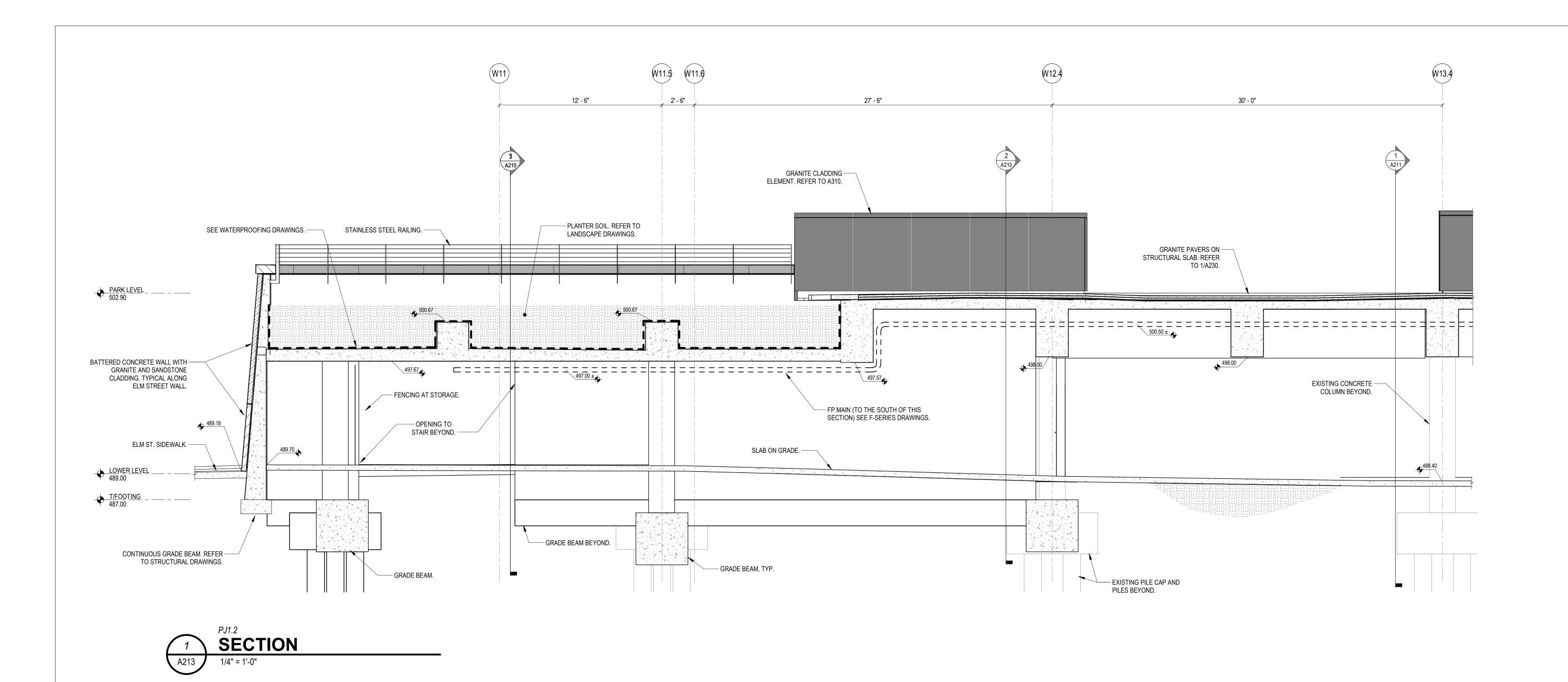


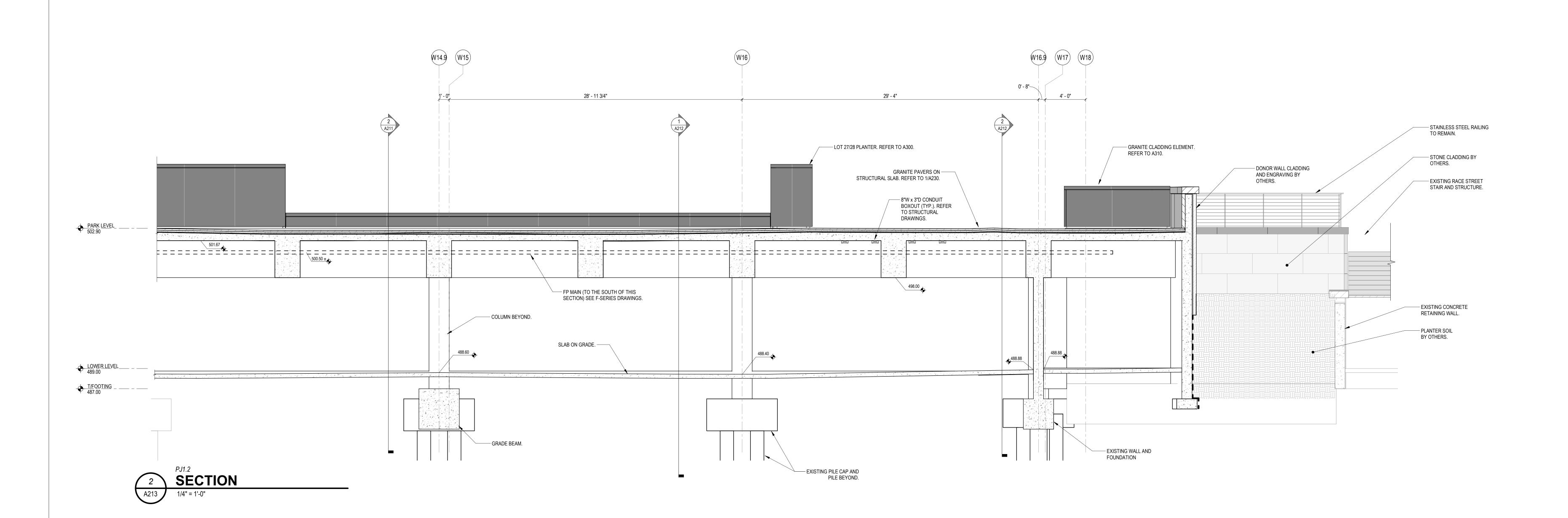
THE BANKS
Public Partnership

DRAWING TITLE

BUILDING SECTIONS

JOB NUMBER DAT
THP 98090.40 12/17/202
DRAWING NUMBER
A212

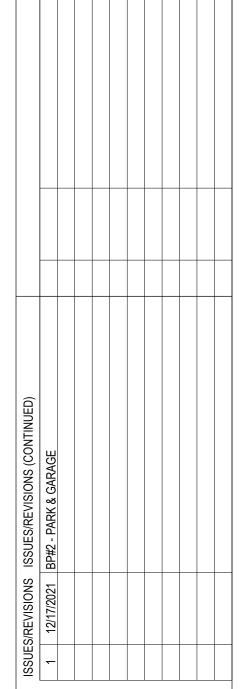


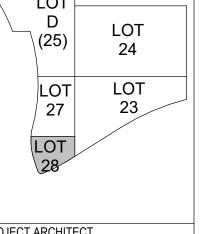






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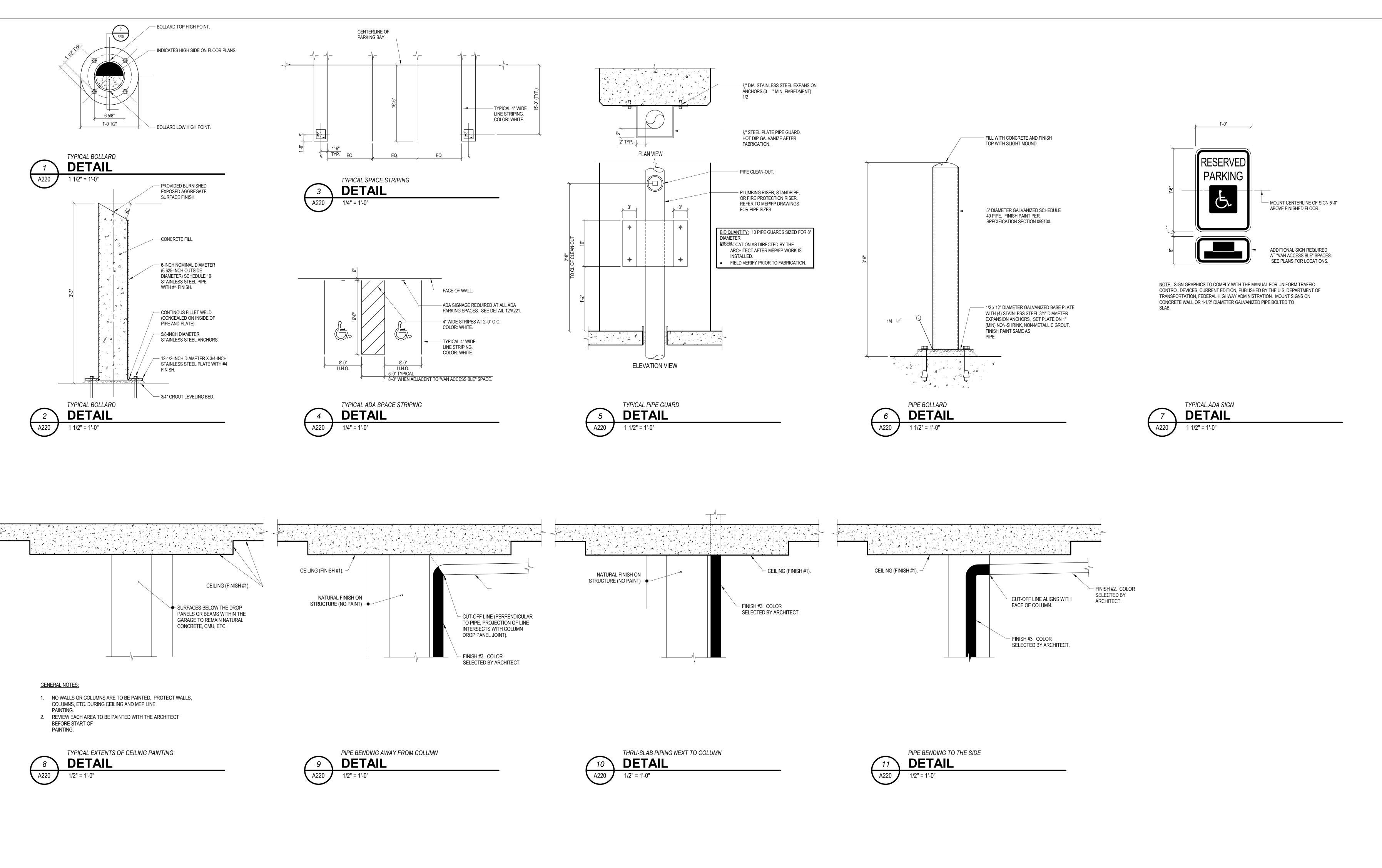
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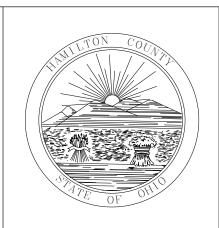


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JOB NUMBER DATE
THP 98090.40 12/17/2021
DRAWING NUMBER

A213





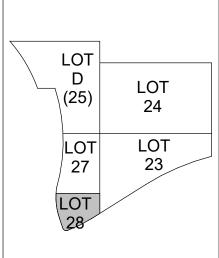
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Cincinnati, Ohio 45202
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21 BP#2 - PARK & GARAGE



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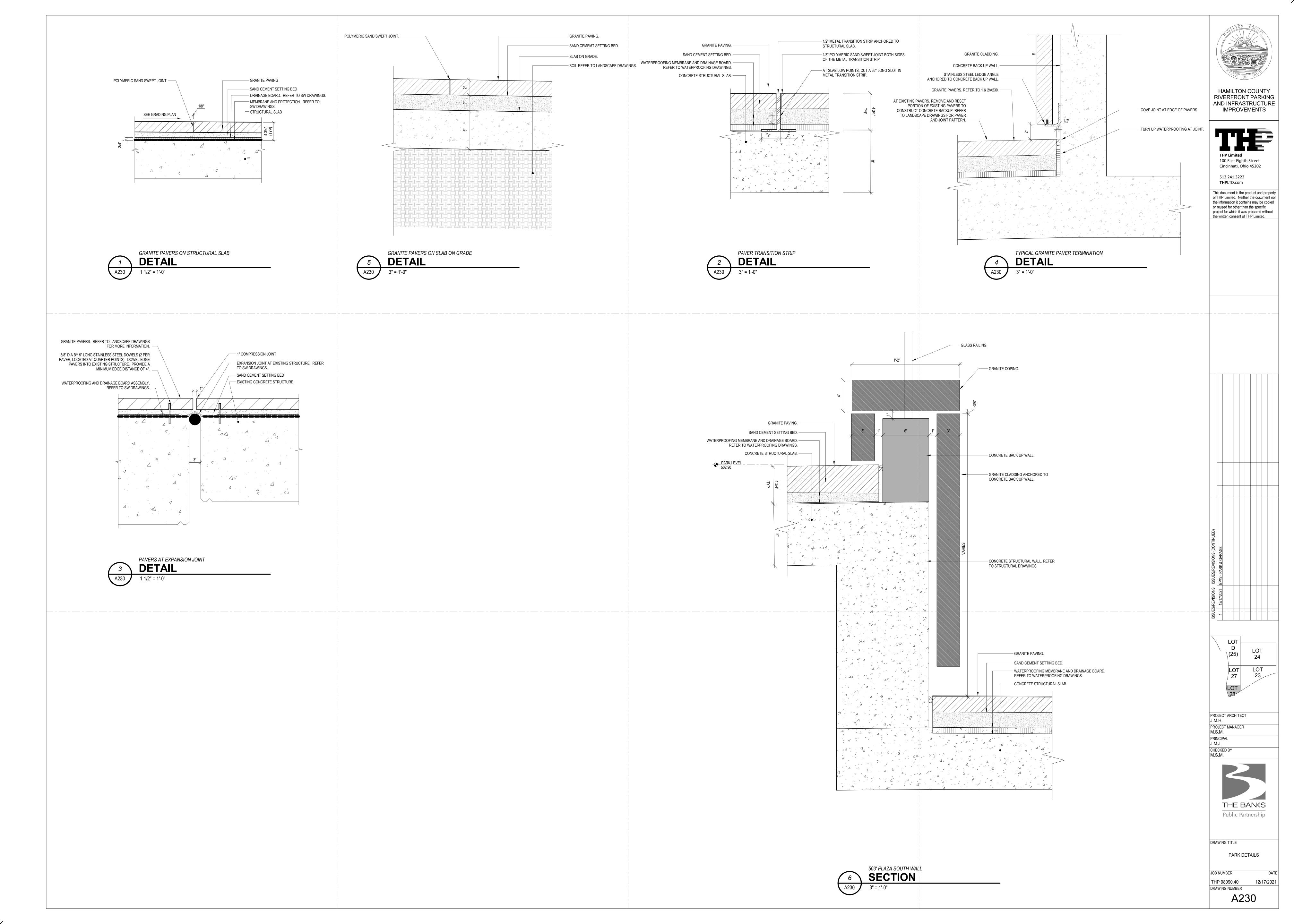
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J.M.J.

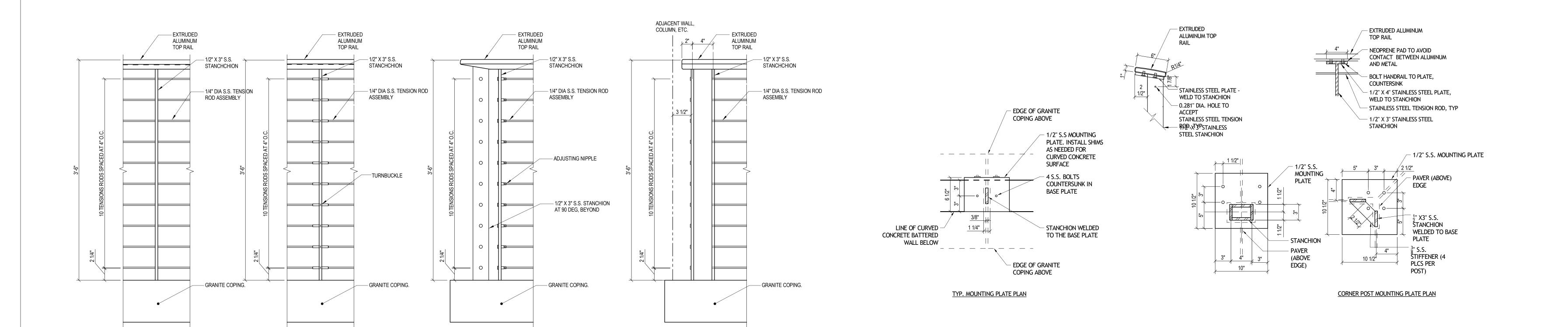
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ARCHITECTURAL DETAILS

JOB NUMBER DATE
THP 98090.40 12/17/2021
DRAWING NUMBER





END ELEVATION

90° CORNER ELEVATION

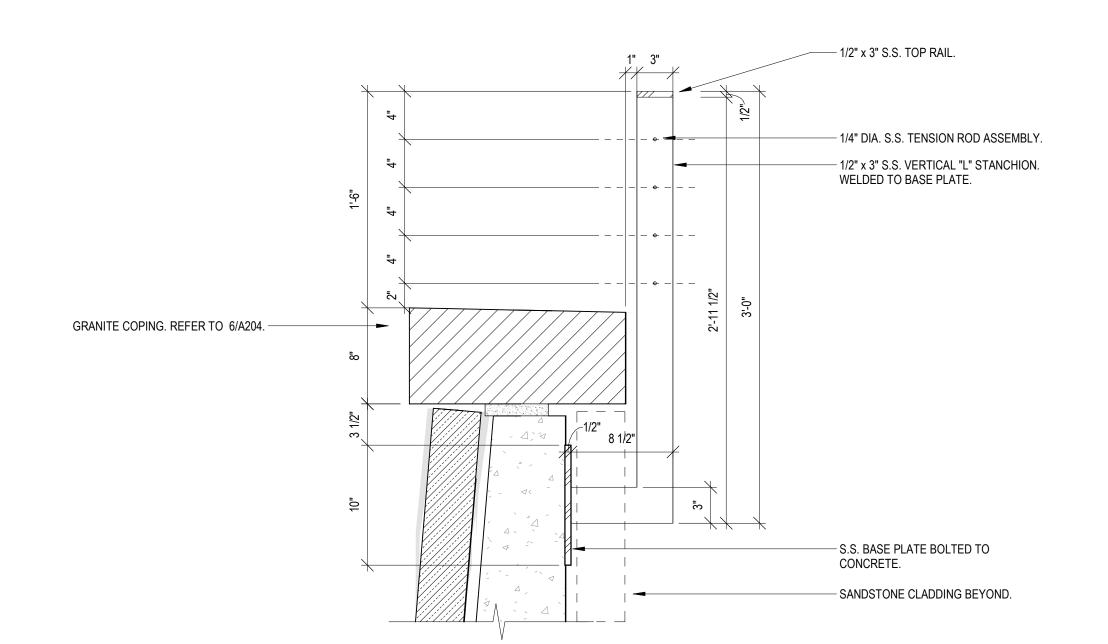
GUARDRAIL ELEVATION DETAILS A240 1 1/2" = 1'-0"

TYPICAL ELEVATION

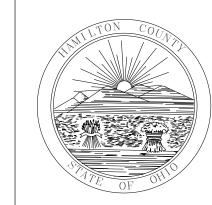
ROD TERMINUS ELEVATION

NOTE: STANCHIONS NOT TO EXCEED 5'-0" SPACING. SPACING BETWEEN ALL ELEMENTS NOT TO EXCEED

> GUARDRAIL TOP AND BASE PLATE **DETAILS**





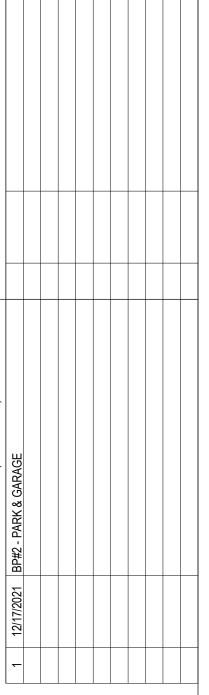


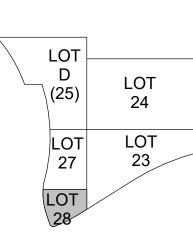
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**



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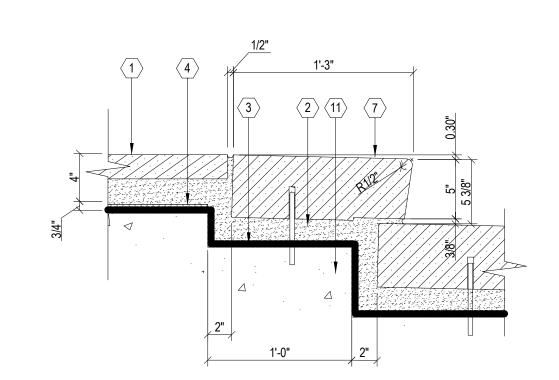
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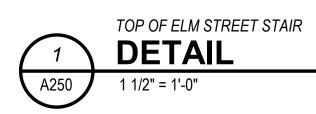


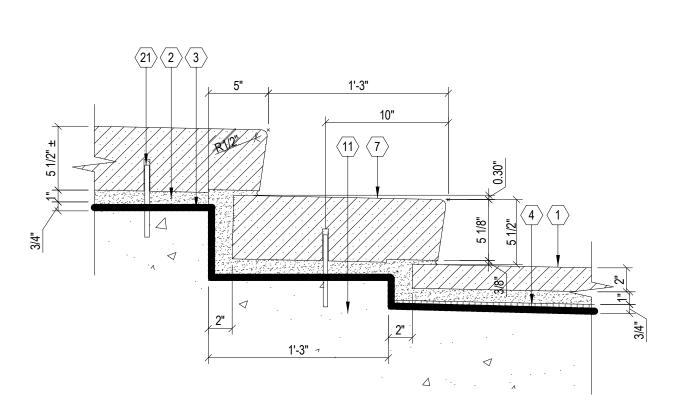
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RAILING DETAILS

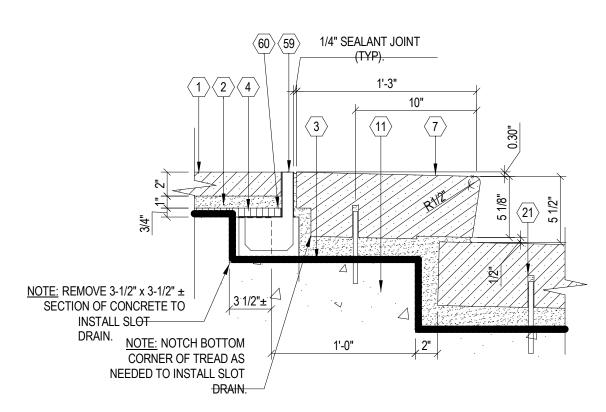
THP 98090.40 DRAWING NUMBER A240



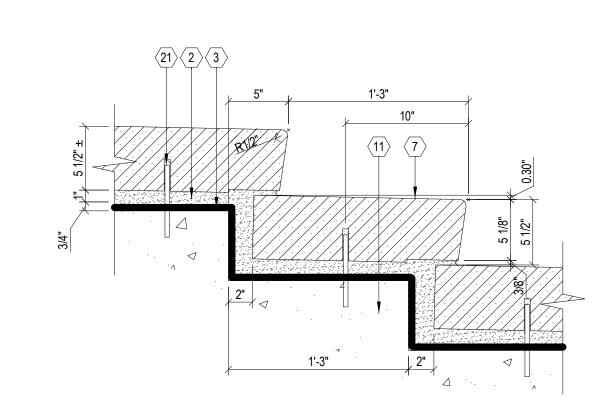














DRAWING NOTES:

GRANITE PAVING.
 LATEX MODIFIED MORTAR SETTING BED.
 WATERPROOFING MEMBRANE AND PROTECTION SHEET.
 DRAINAGE BOARD ASSEMBLY.
 GRANITE TREAD.
 STRUCTURAL SLAB.
 3/8" x 6" L S.S. DOWELS, TWO PER PIECE LOCATED AT QUARTER POINTS.
 HEEL RESISTANT SS SLOT DRAIN (1" ± TOTAL WDITH). SEE PLUMBING DRAWINGS ALSO. PRODUCTS:

 ACO TYPE 472/473 SS HEEL BRICKSLOT 100.
 ACO H100KS-8 CHANNEL.

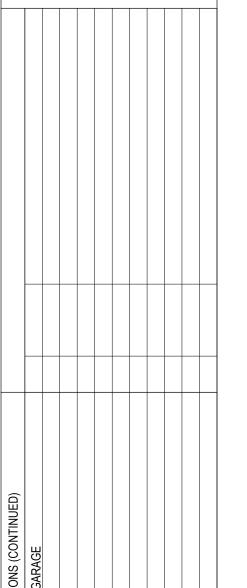
 DRILL WEEPHOLES IN TO POF SLOT DRAIN AT 6" O.C. TO ALLOW WATER IN DRAINAGE BOARD TO DRAIN INTO SLOT DRAIN.

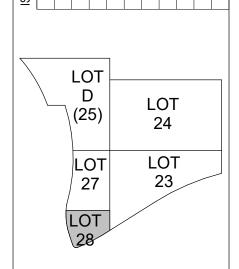
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

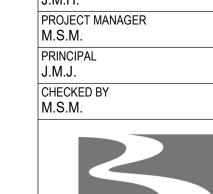
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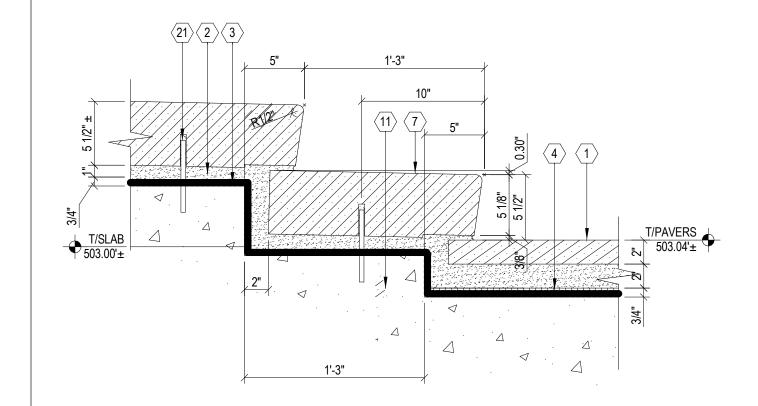


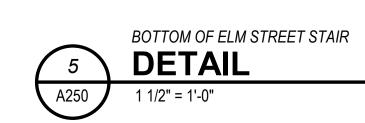
PROJECT ARCHITECT J.M.H.

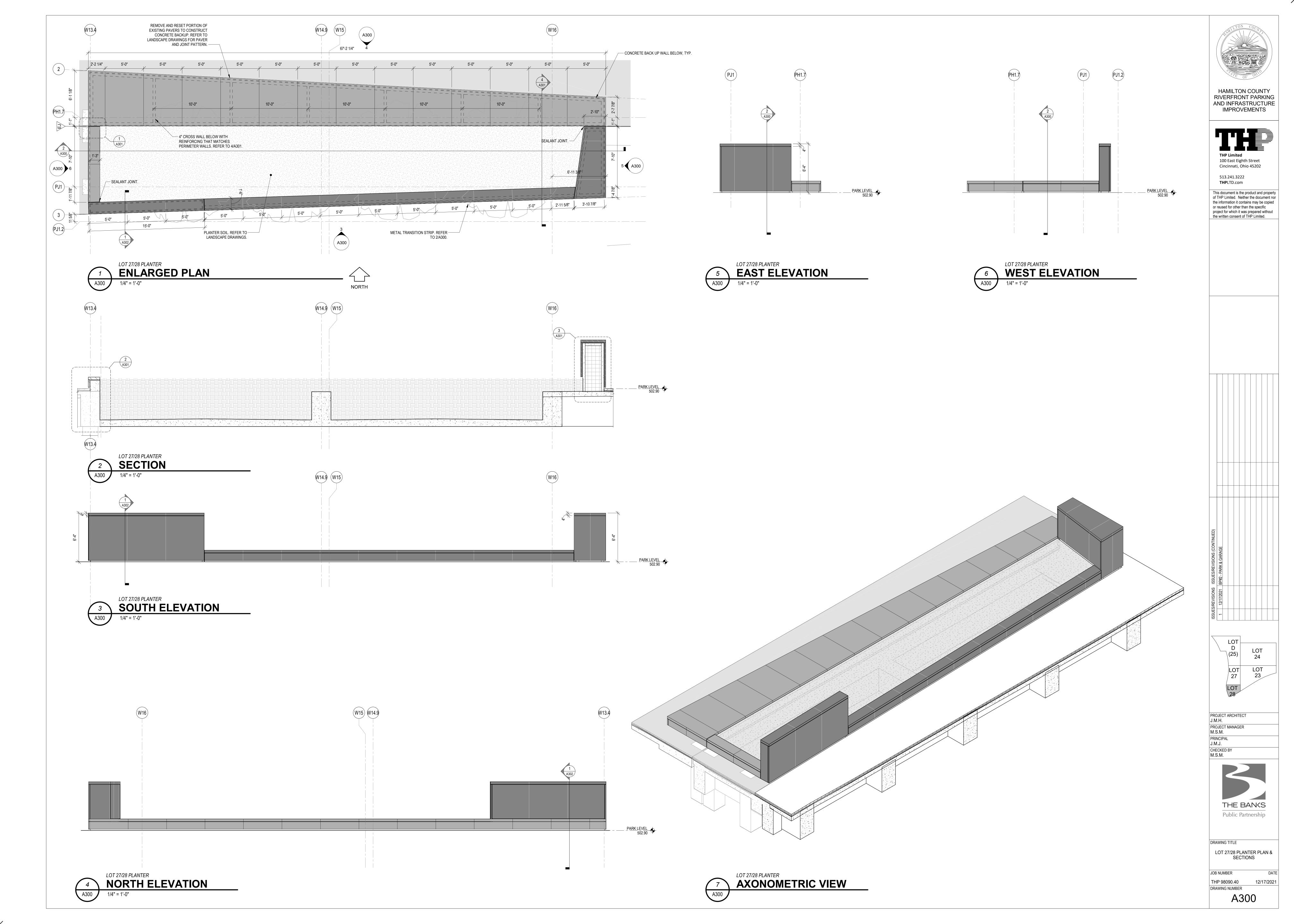


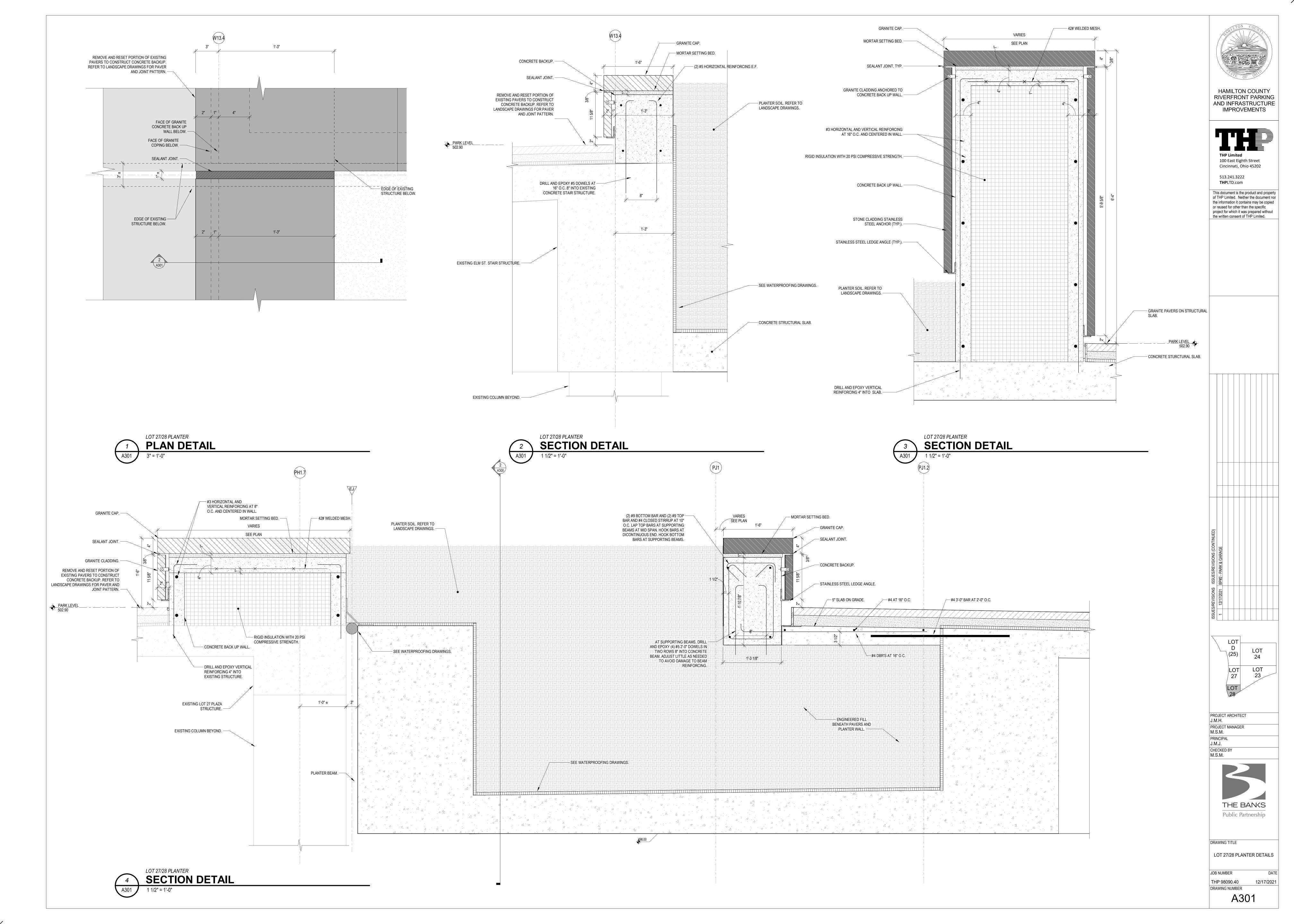
DRAWING TITLE ELM STREET STAIR DETAILS

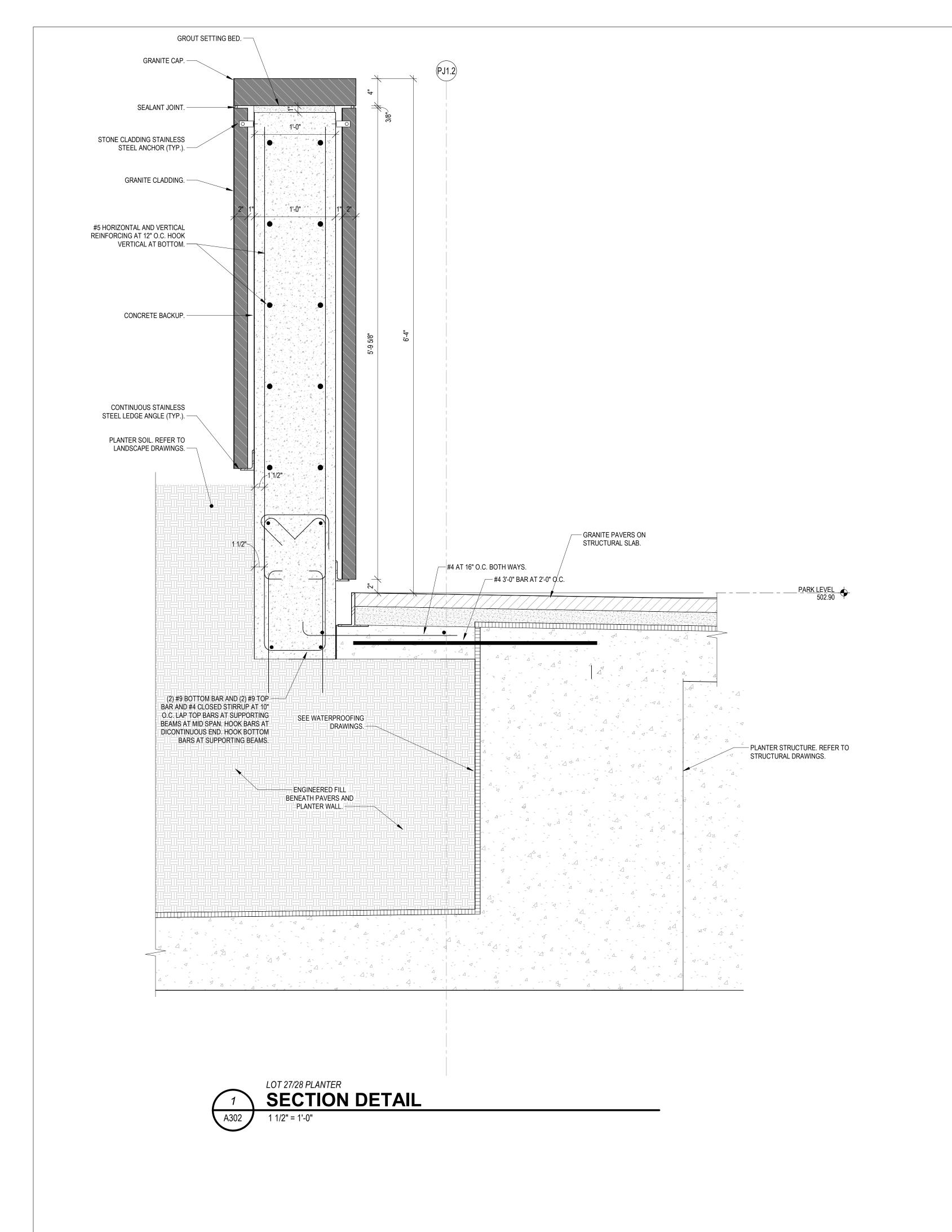
JOB NUMBER THP 98090.40 12/17/2021 DRAWING NUMBER A250









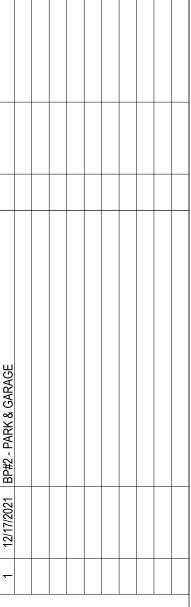


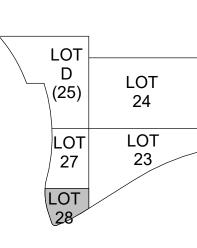




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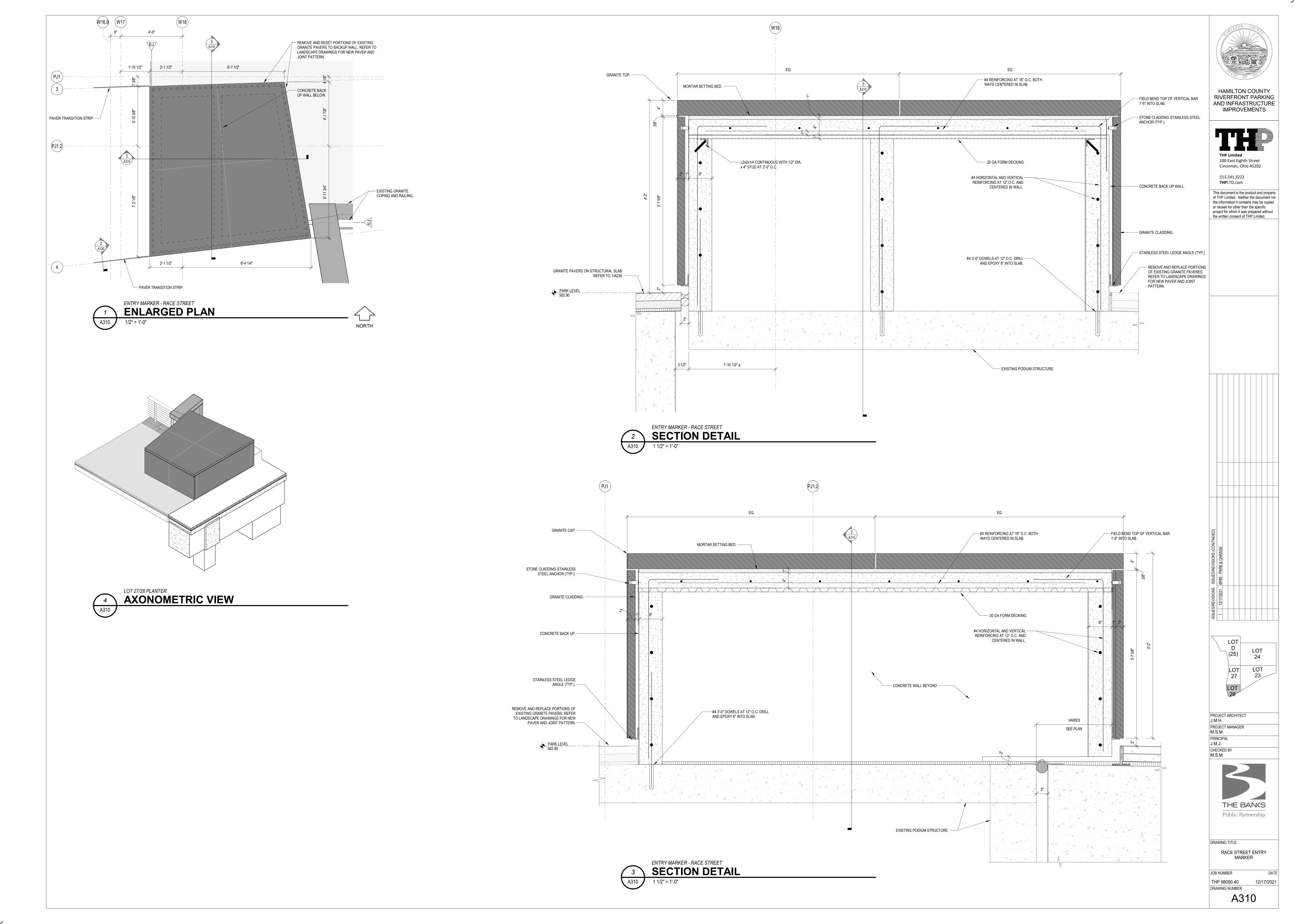


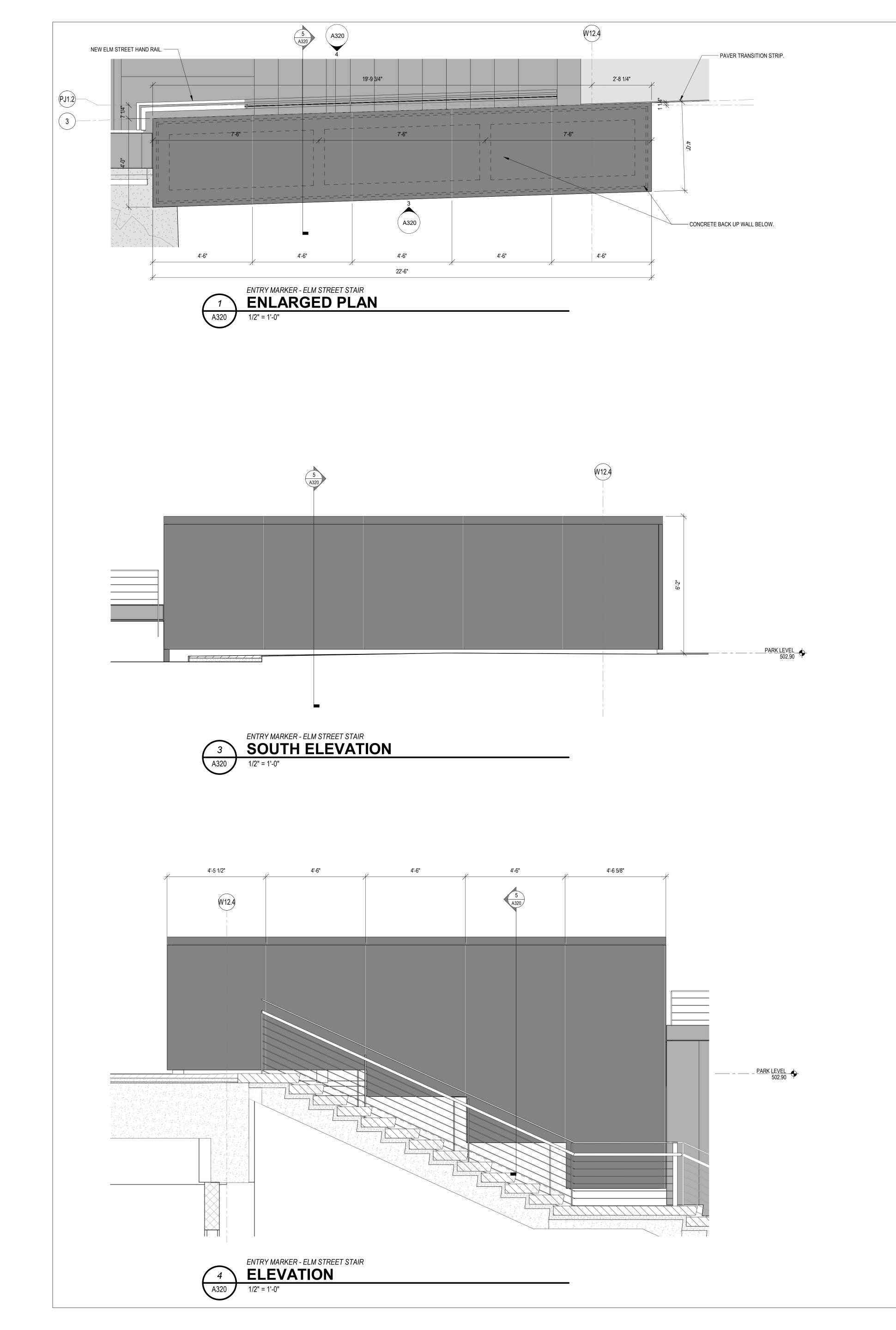
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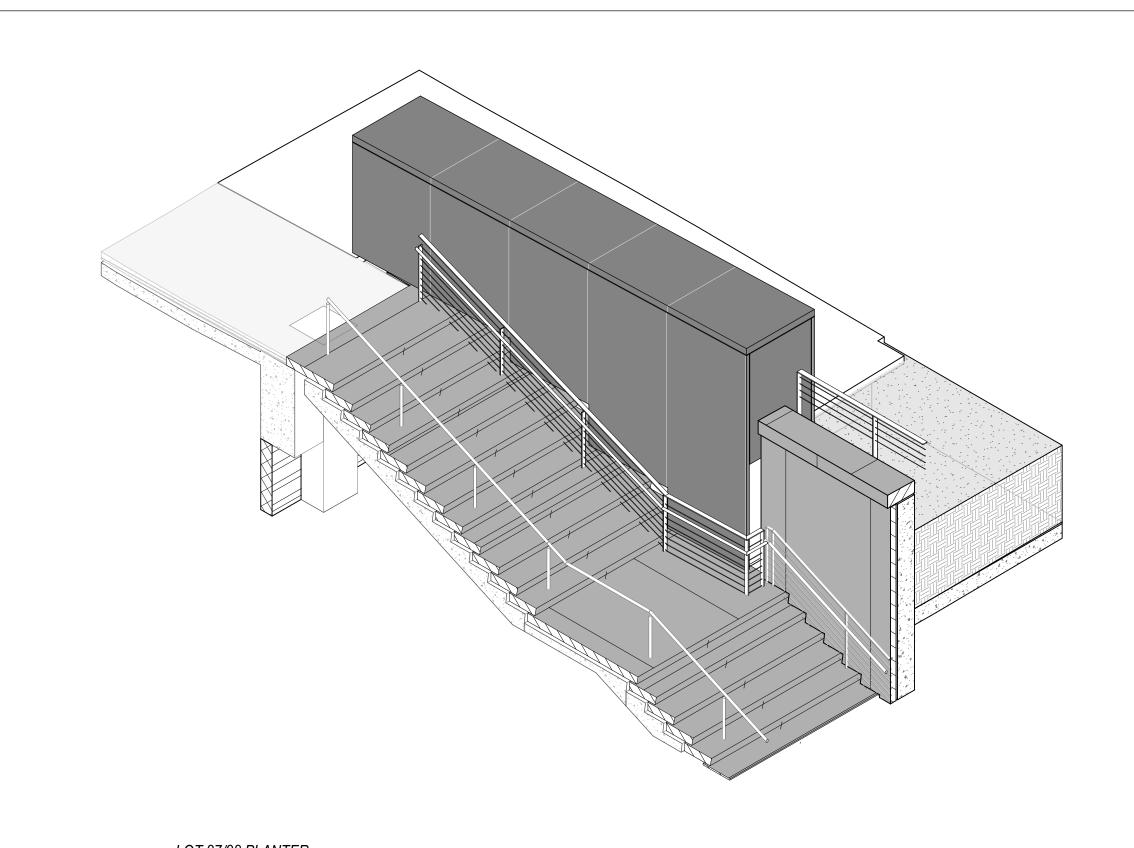
LOT 27/28 PLANTER DETAILS

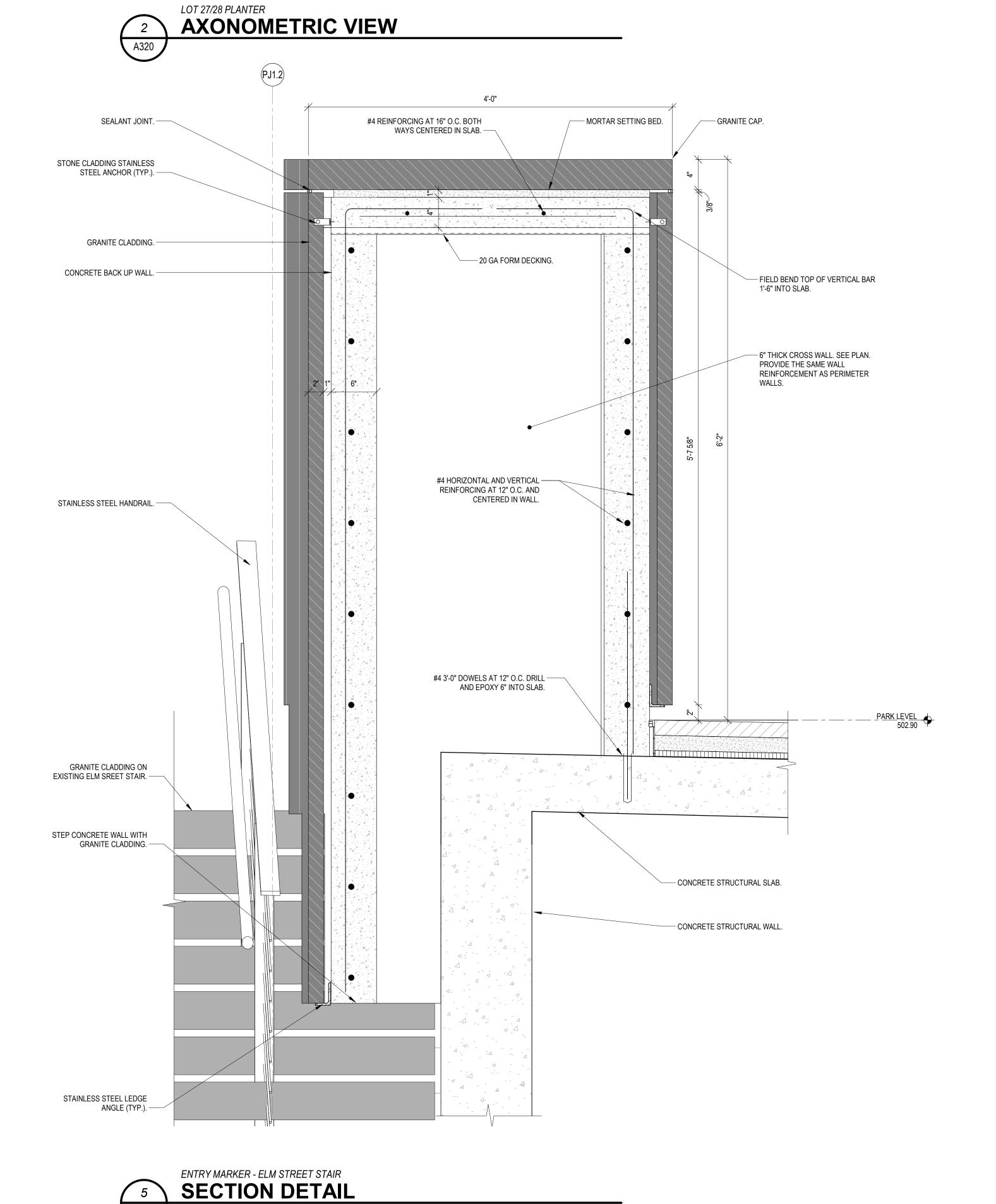
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THP 98090.40 12/17/2021
DRAWING NUMBER

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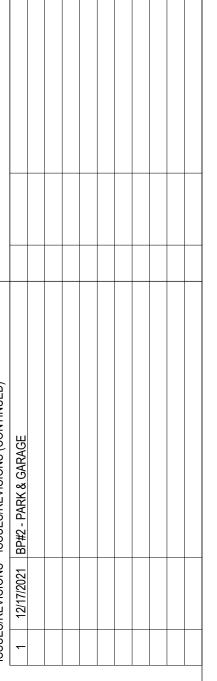


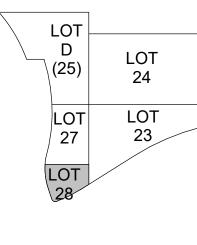




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DRAWING TITLE

ELM STREET STAIR ENTRY

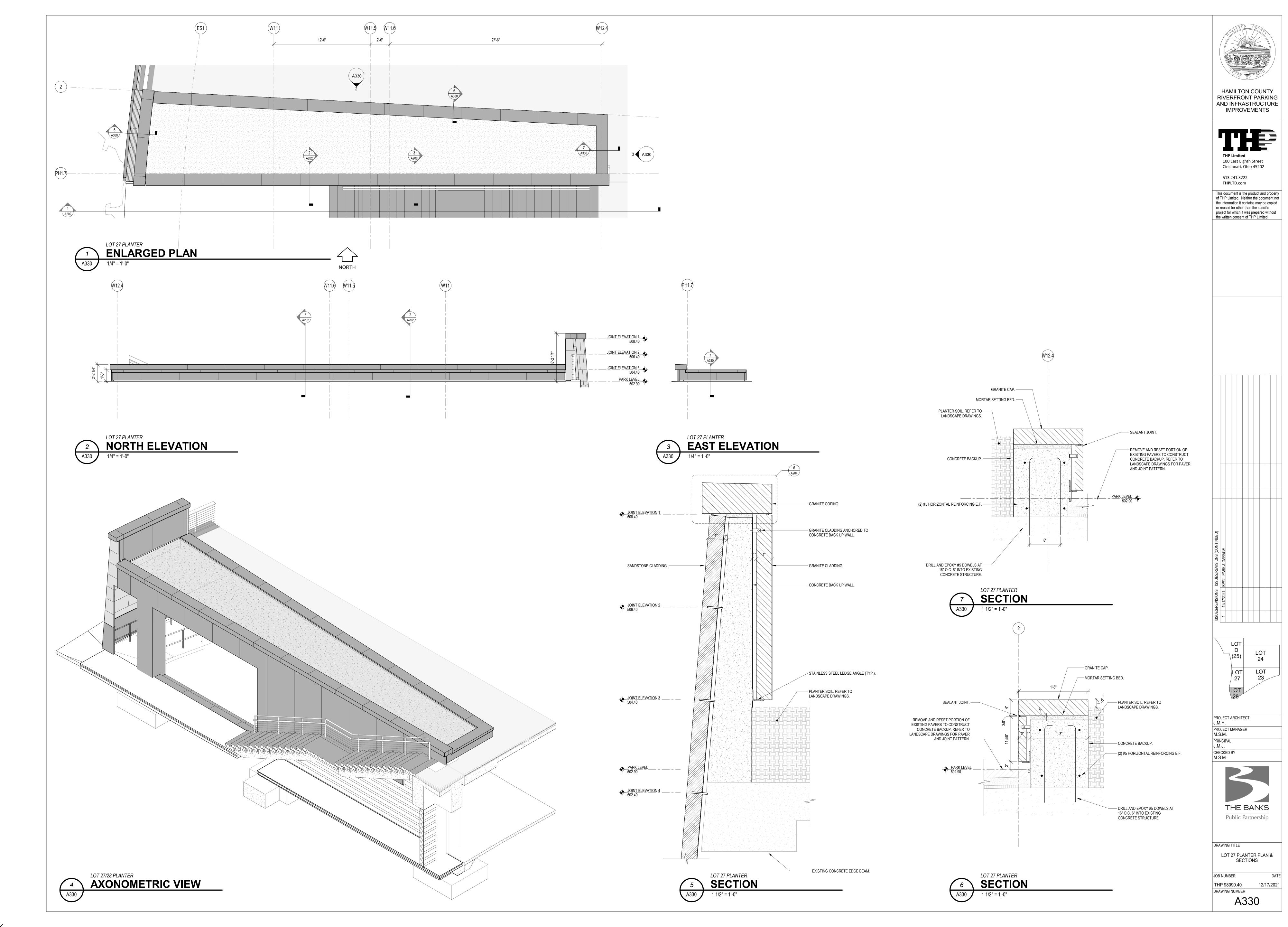
MARKER

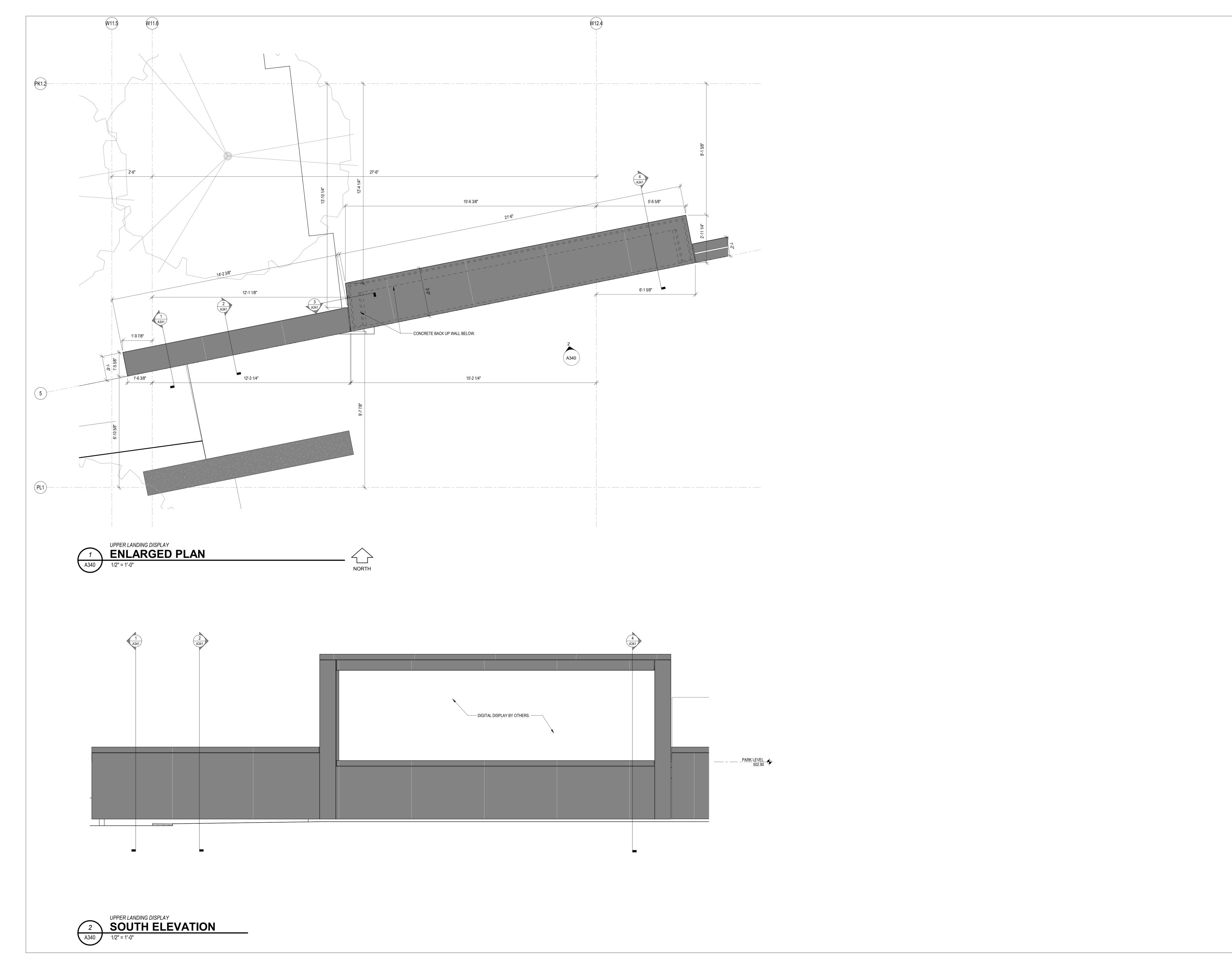
JOB NUMBER DAT

THP 98090.40 12/17/202

DRAWING NUMBER

A320



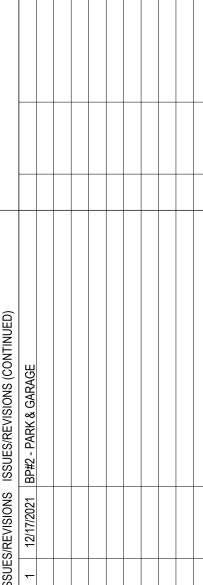


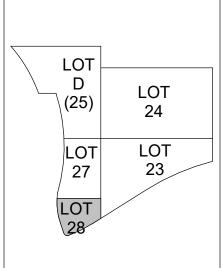




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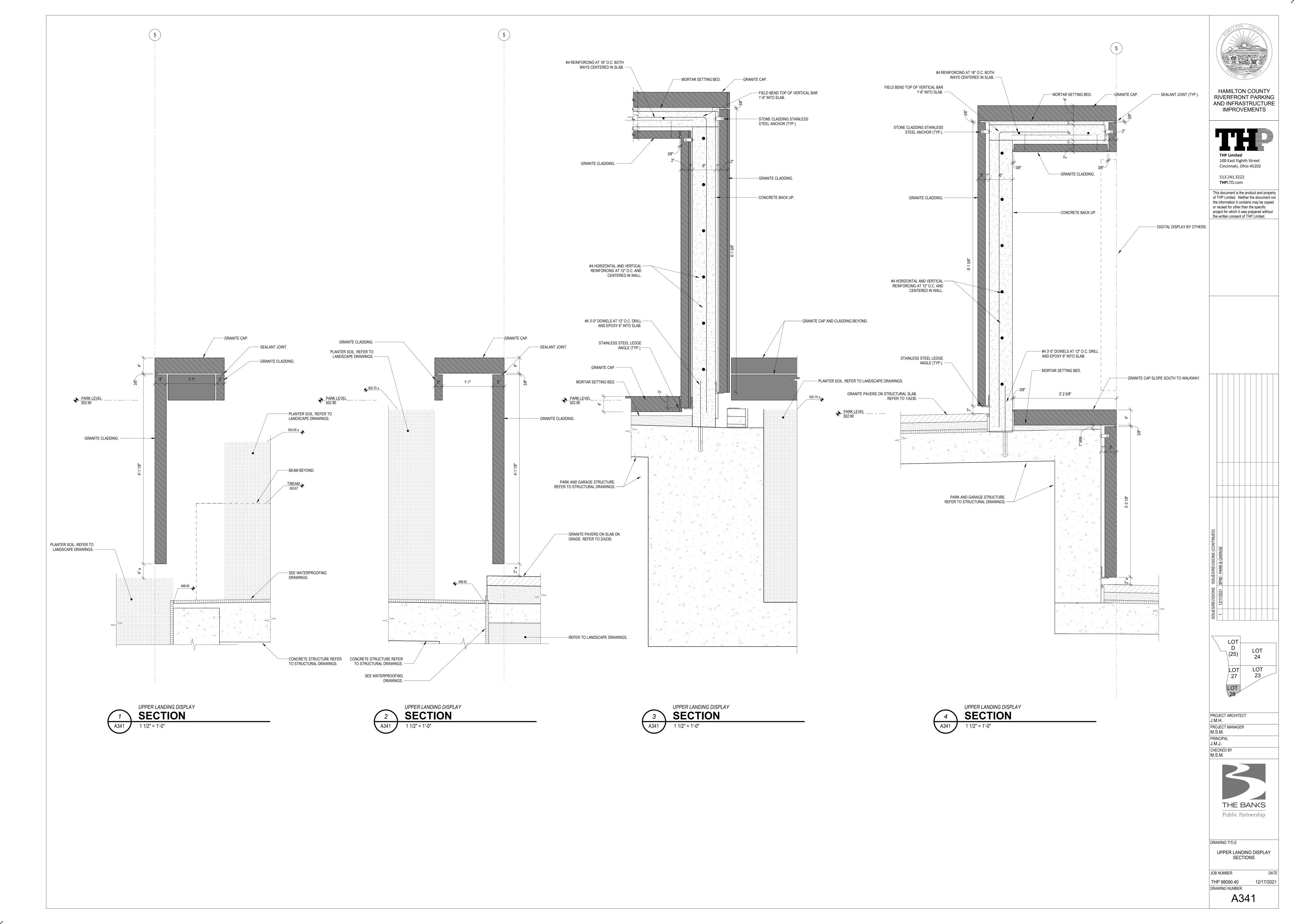


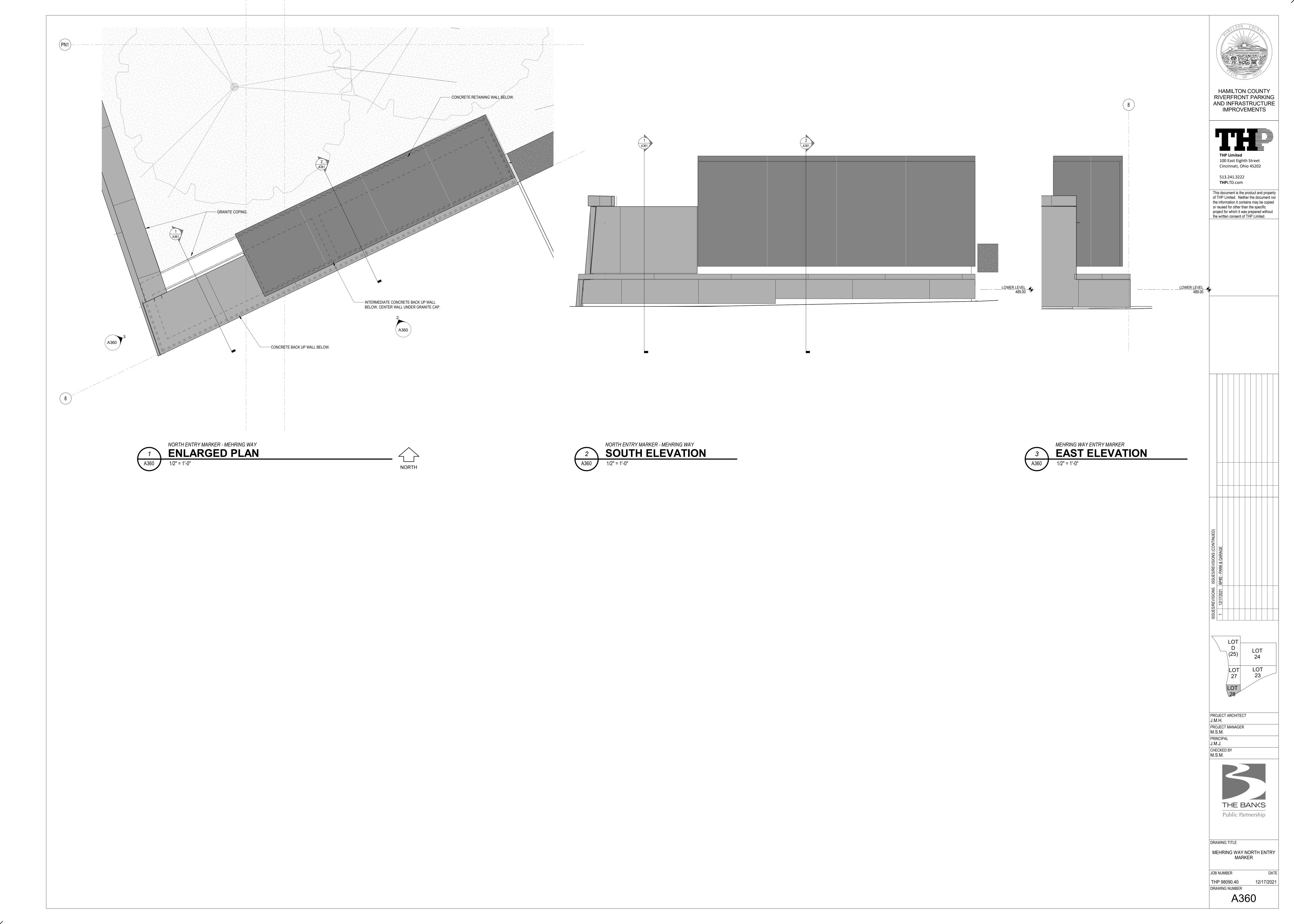
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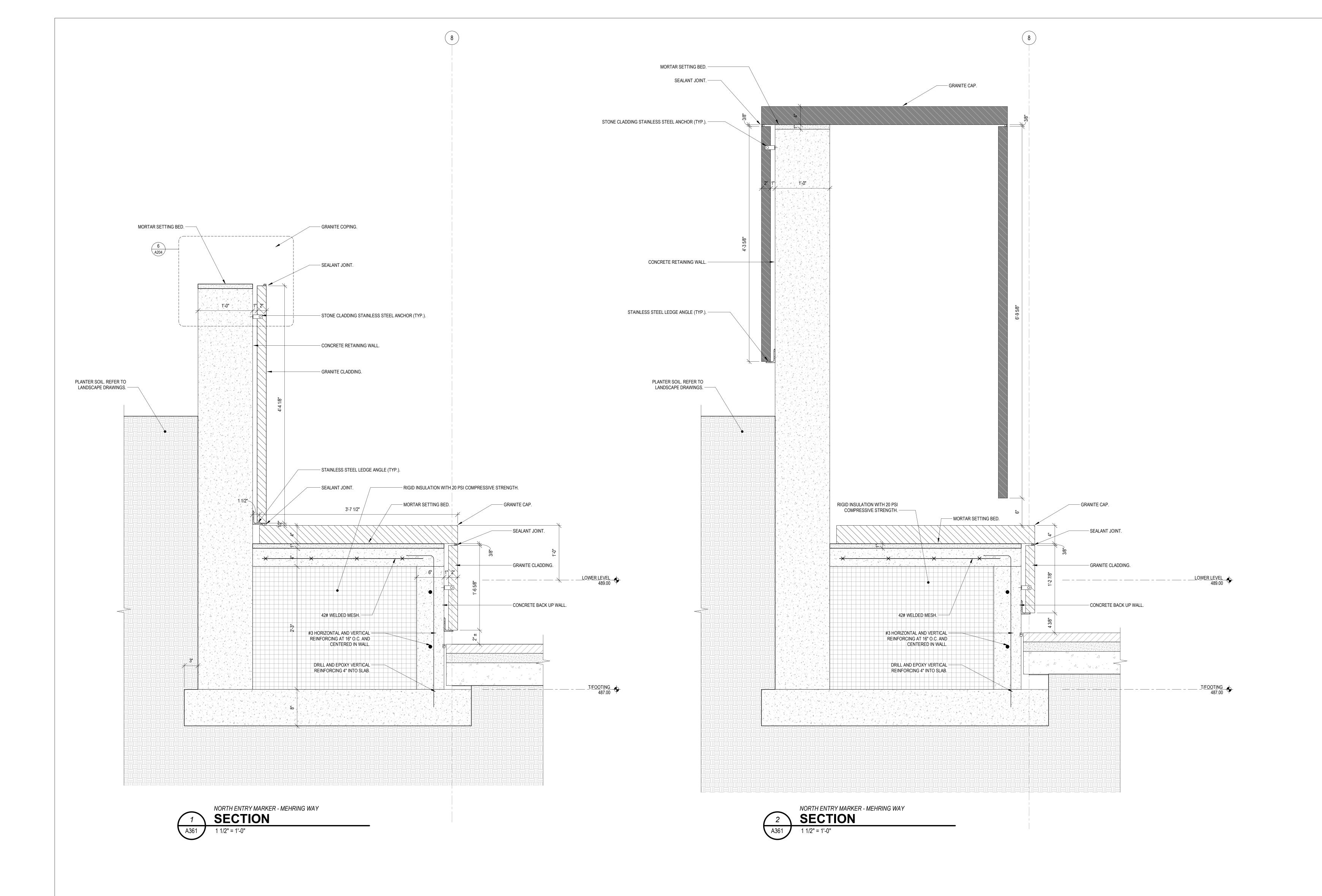
UPPER LANDING DISPLAY

JOB NUMBER THP 98090.40 12/17/20
DRAWING NUMBER

A340





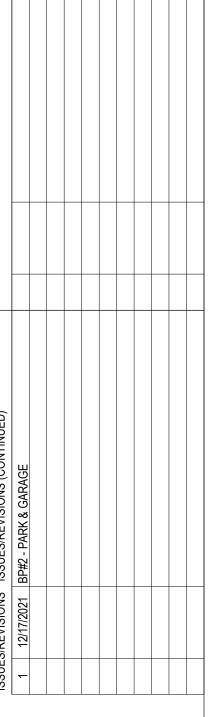


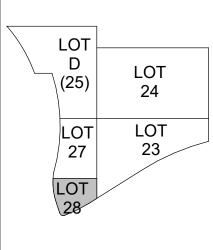




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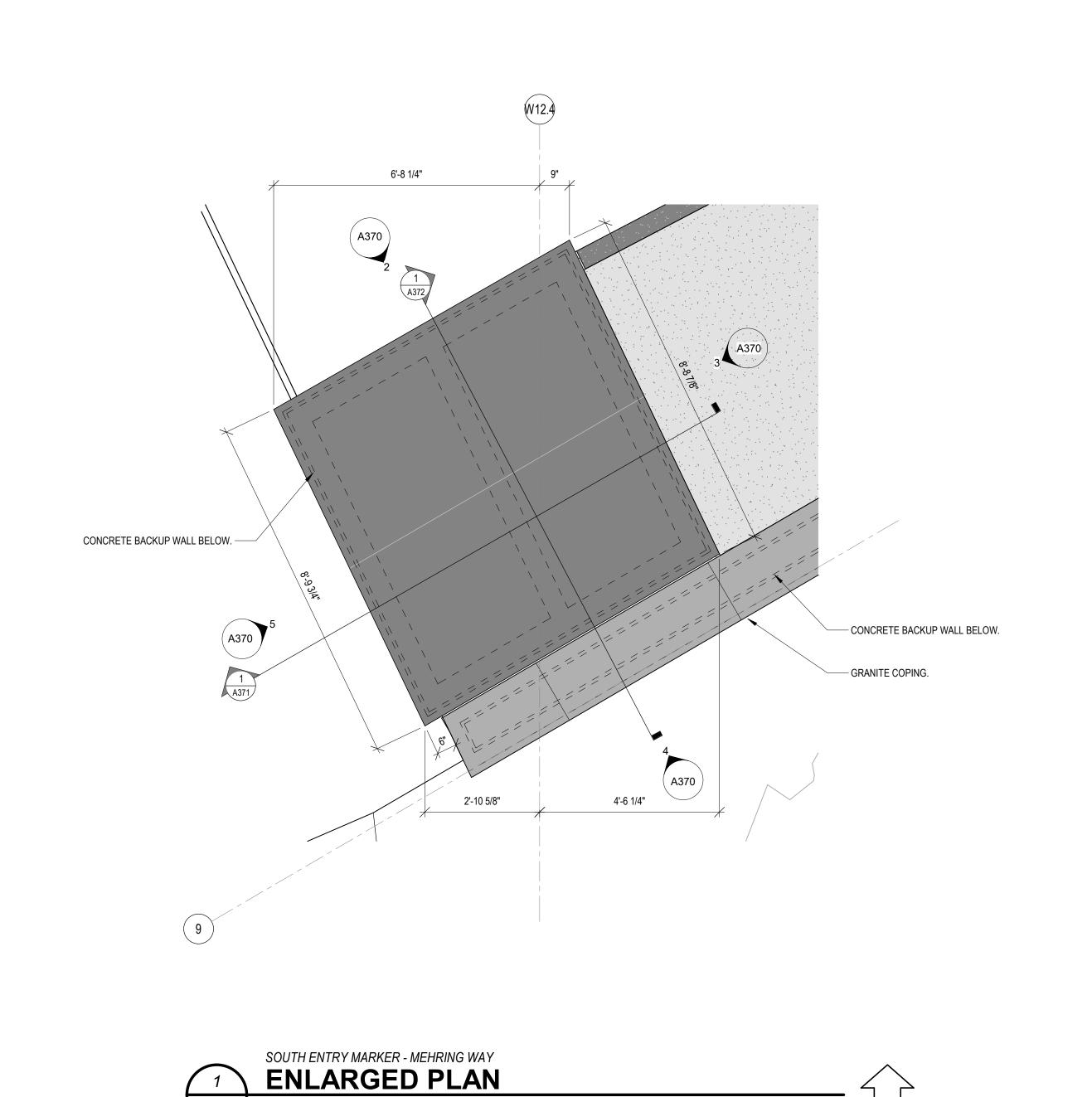
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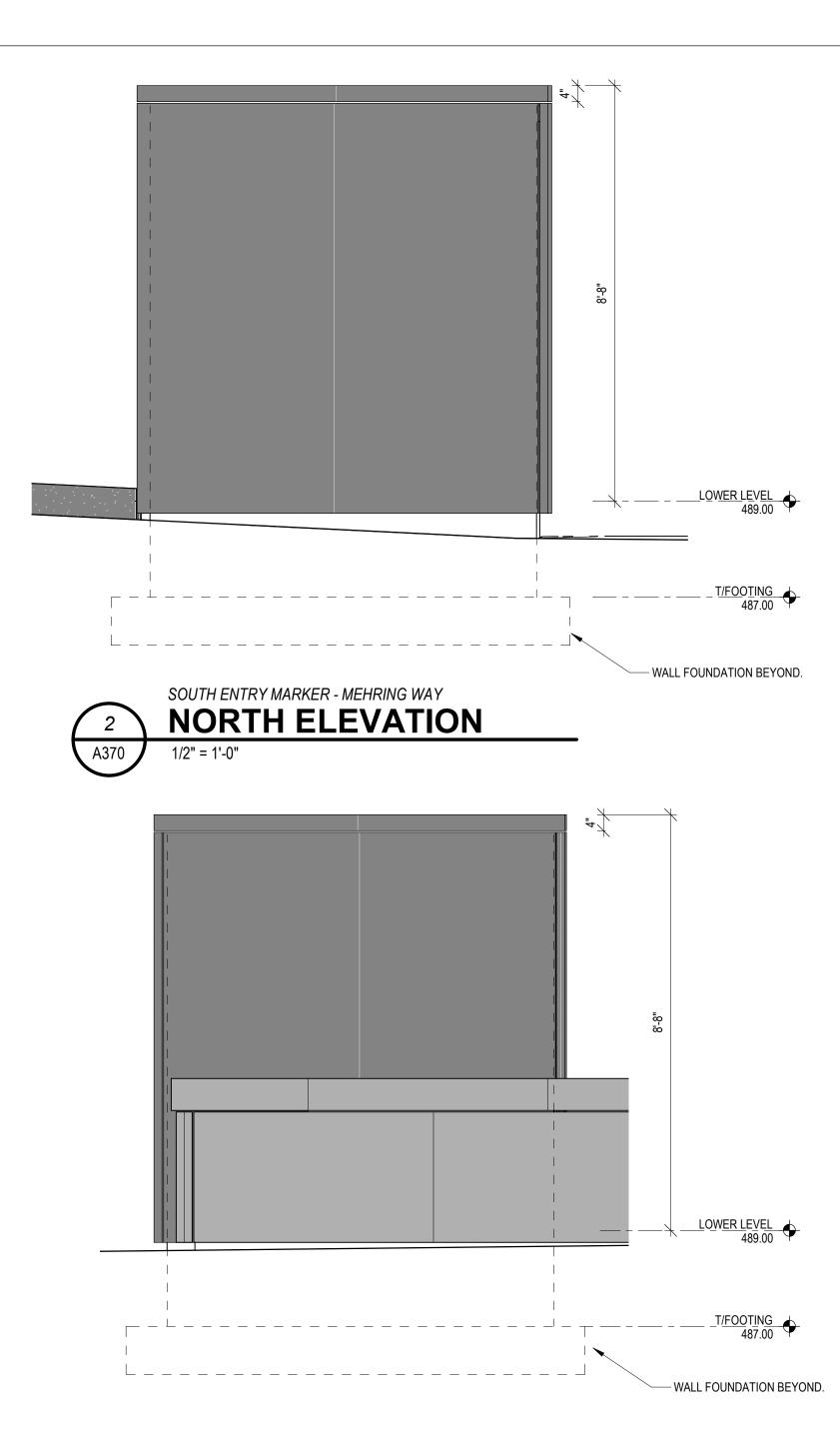
MEHRING WAY NORTH ENTRY

MARKER DETAILS

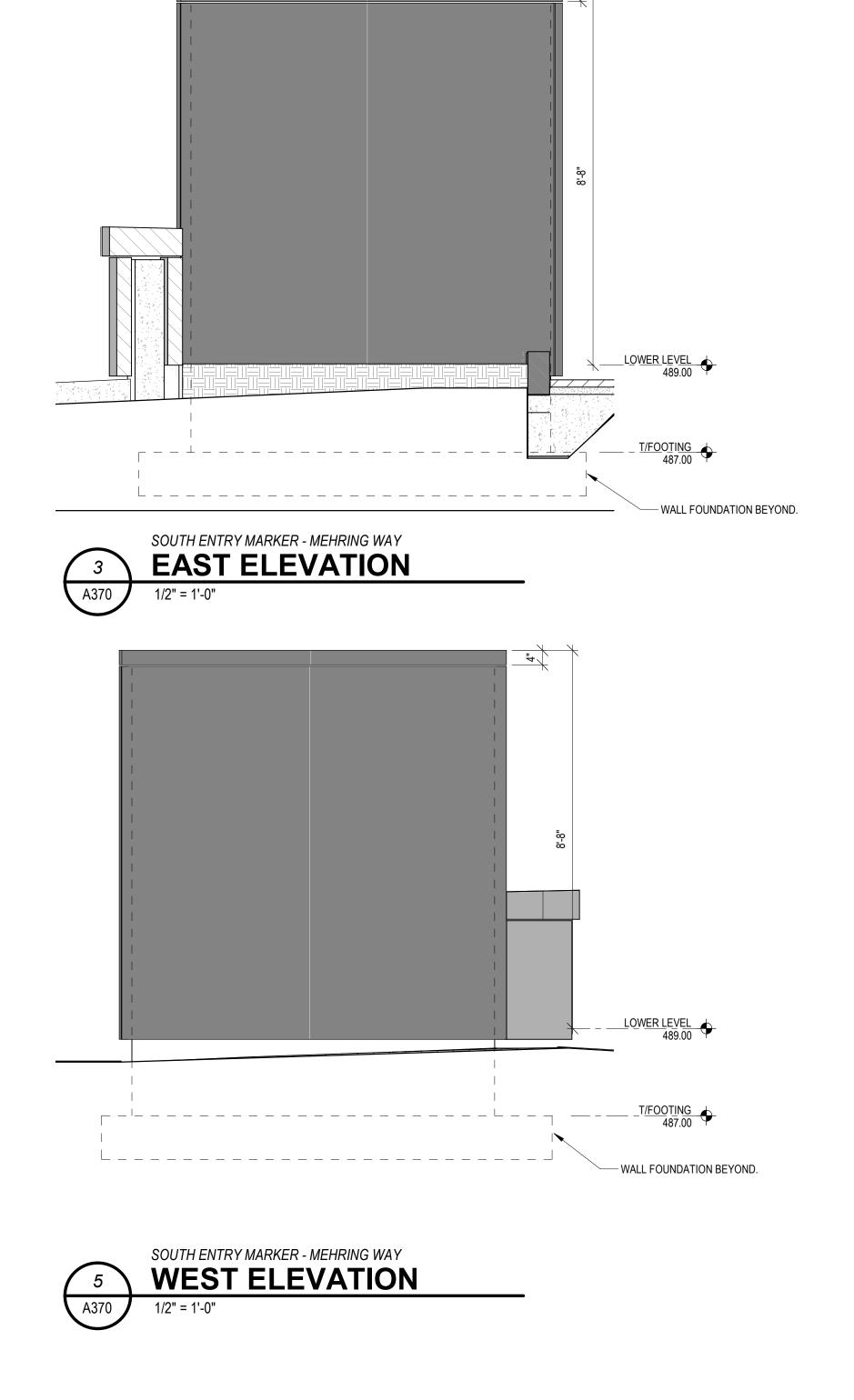
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DRAWING NUMBER

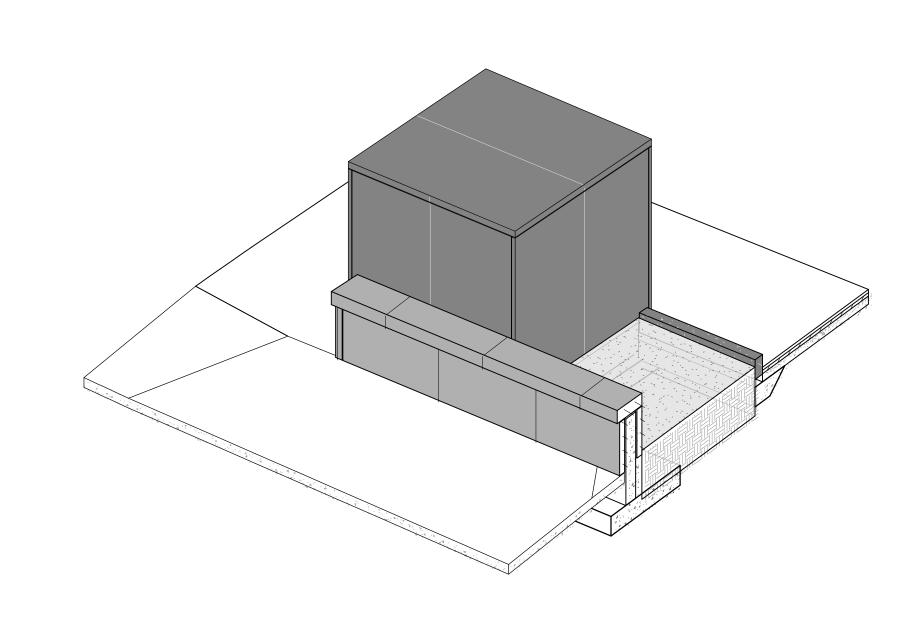
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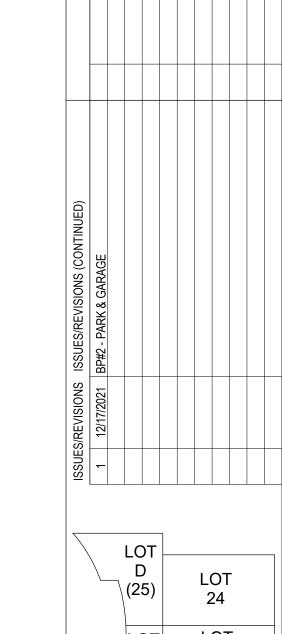


SOUTH ENTRY MARKER - MEHRING WAY
SOUTH ELEVATION









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J.M.J.

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DRAWING TITLE

JOB NUMBER

THP 98090.40
DRAWING NUMBER

THE BANKS

Public Partnership

MEHRING WAY SOUTH ENTRY MARKER

A370

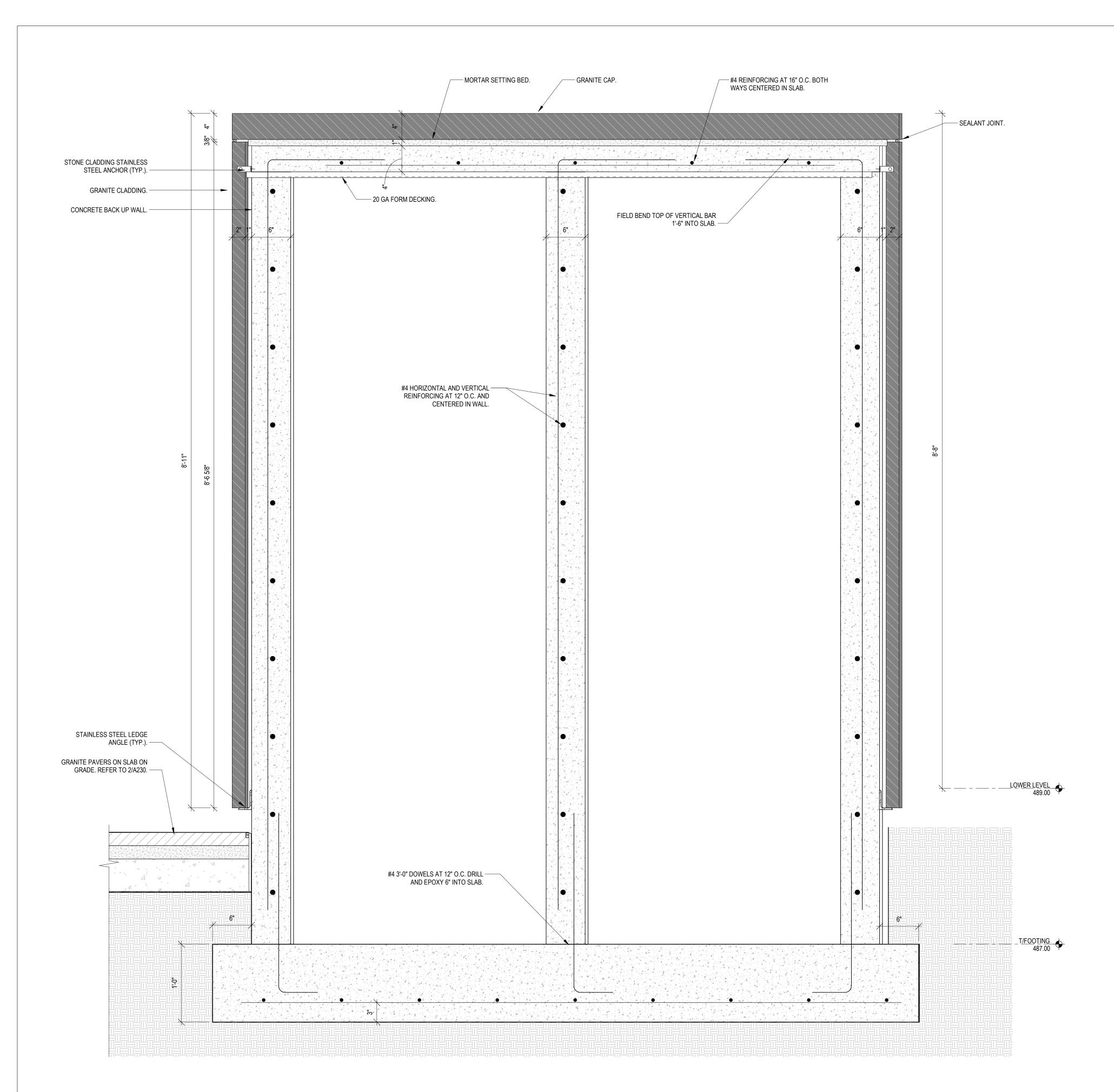
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SOUTH ENTRY MARKER - MEHRING WAY

SECTION

1 1/2" = 1' 0"

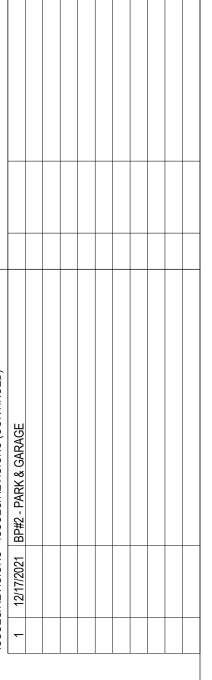
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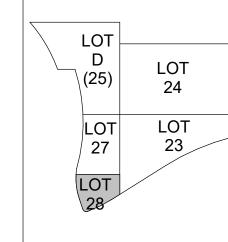
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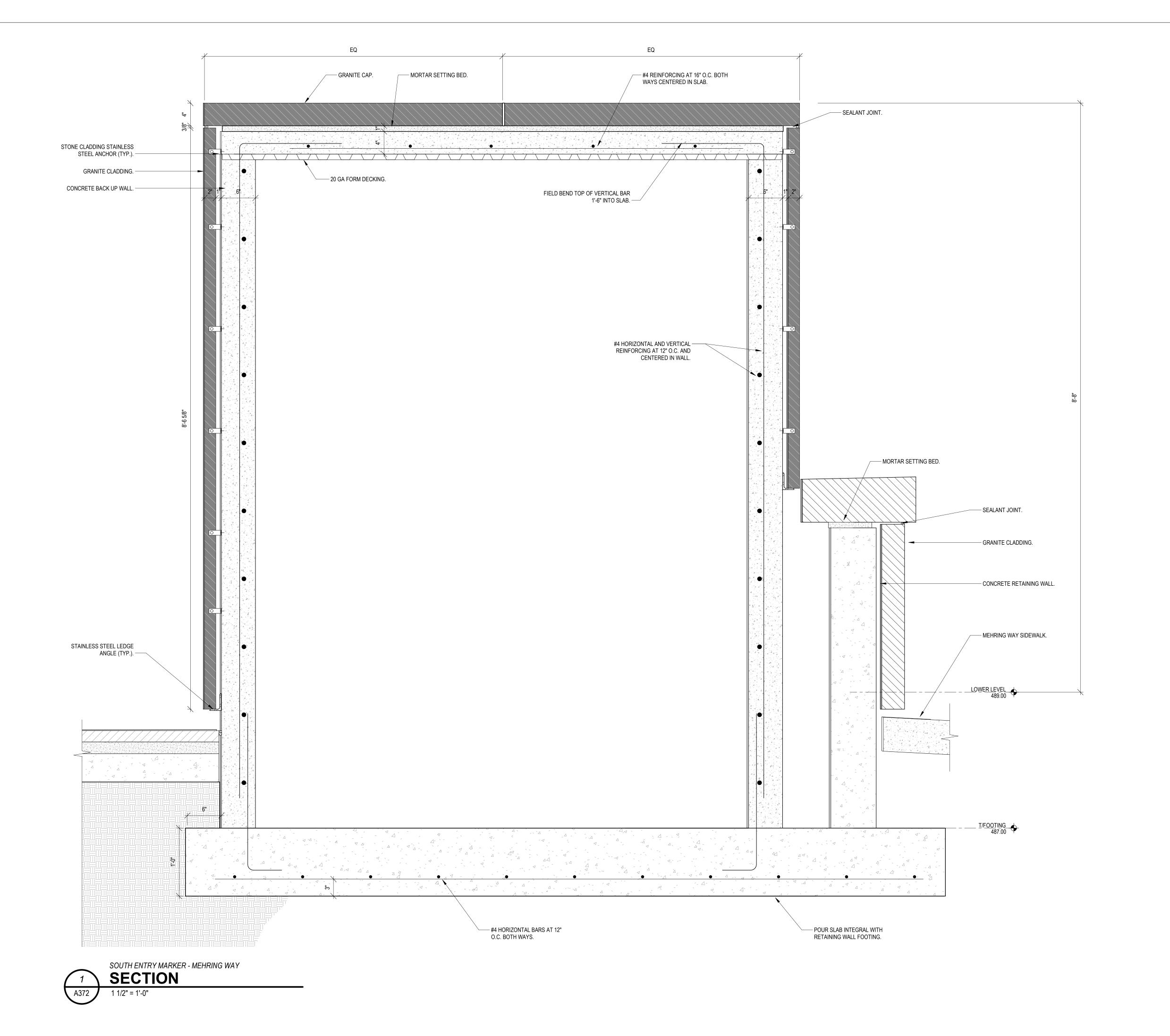
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MEHRING WAY SOUTH ENTRY

MARKER E-W SECTION

JOB NUMBER DATE
THP 98090.40 12/17/2021
DRAWING NUMBER

A371



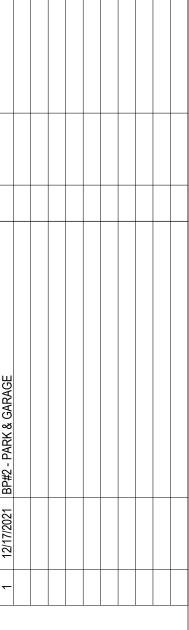
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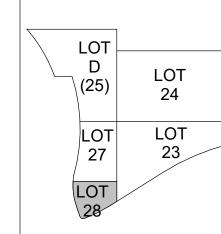
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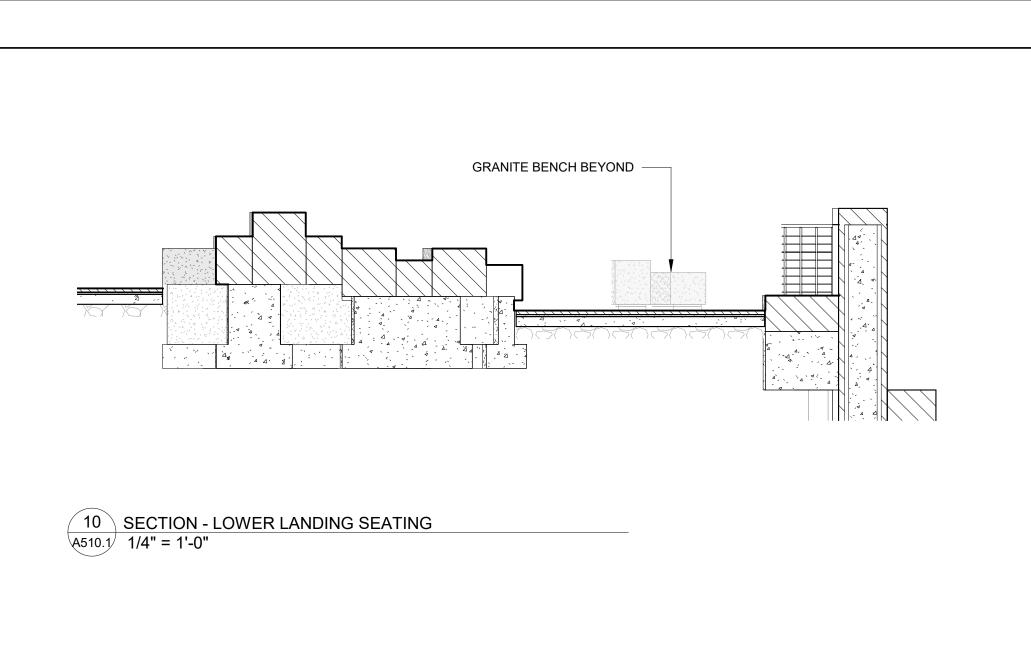
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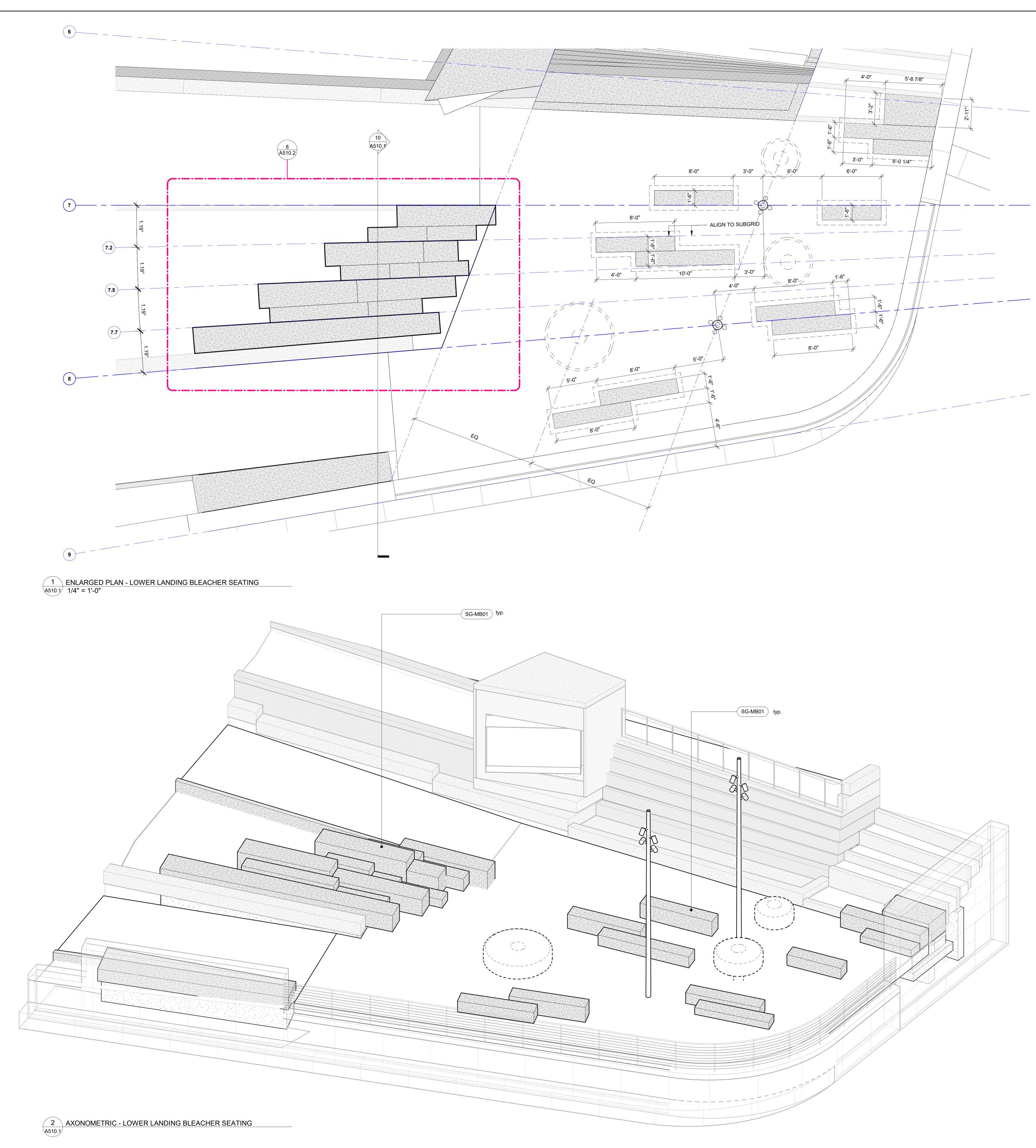
MEHRING WAY SOUTH ENTRY

MARKER N-S SECTION

JOB NUMBER DAT
THP 98090.40 12/17/202
DRAWING NUMBER

A372









michael mcinturf architects

1116 RACE ST

CINCINNATI, DH 452D2

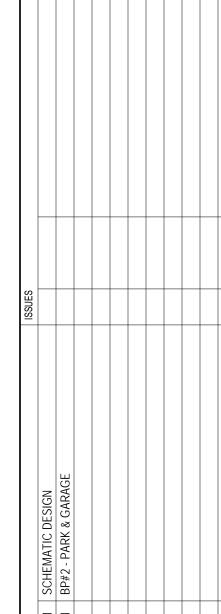
513.639.2351 TEL

513.639.2353 FAX

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INCORPORATED. DESIGN
DATA, DIGITAL FILES AND

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LOT D LOT 24

LOT 27 23

LOT 28

NORTH

RAWN BY:

Author

RCHITECT:

MIN

HECKED BY:

Checke

THE BANKS
Public Partnership

LOT 28 GARAGE AND PARK

LOWER LANDING
BLEACHER SEATING

JOB NUMBER DATE

98090.40 12/17/2021

DRAWING NUMBER

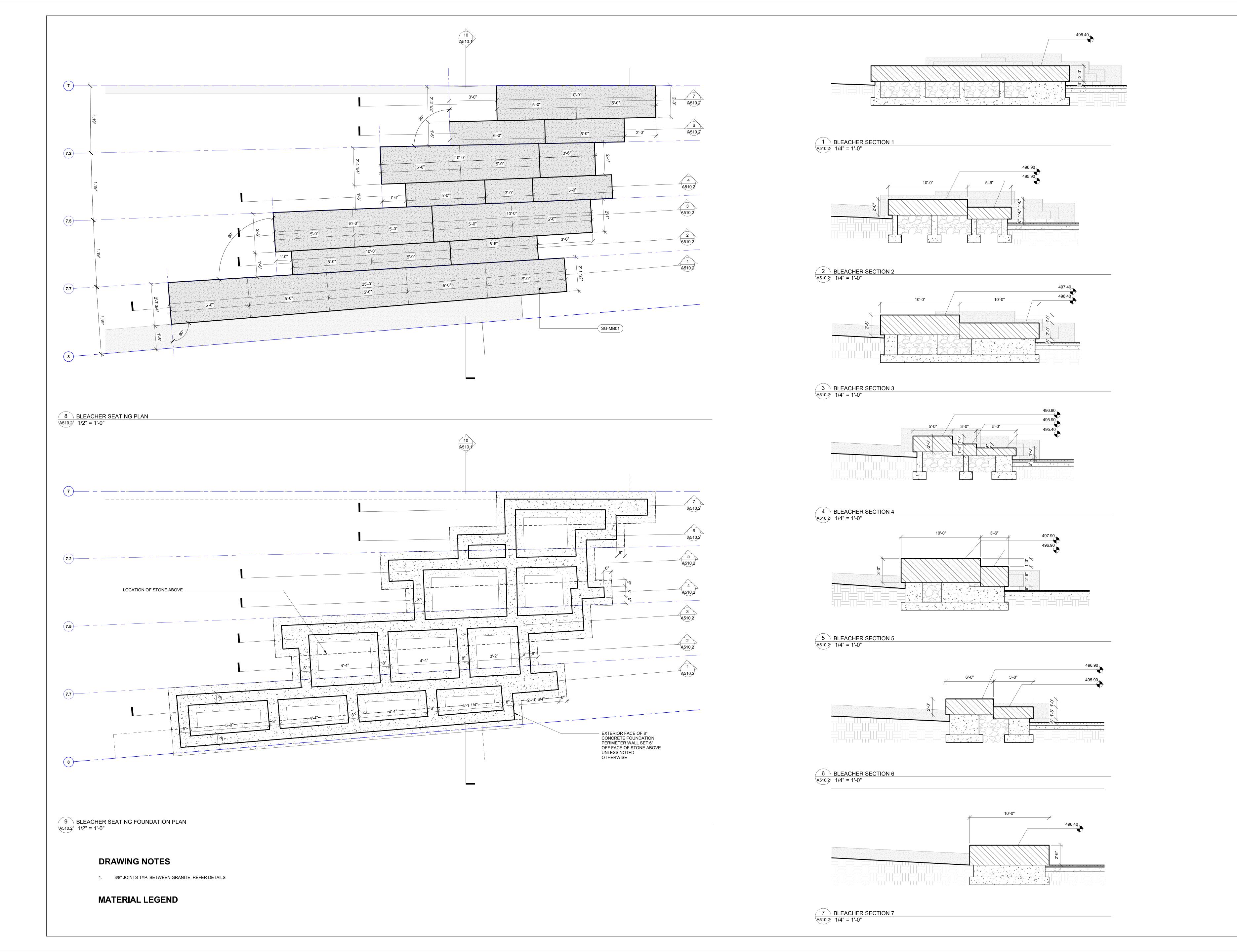
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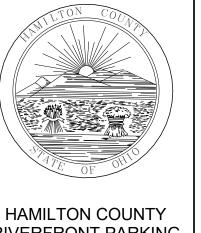
DRAWING NOTES

1. 3/8" JOINTS TYP. BETWEEN GRANITE, REFER DETAILS

MATERIAL LEGEND

SG-MB01 SOLID GRANITE ELEMENT; MESABI BLACK; FINISH: ANTIQUE







michael mcinturf ARCHITECTS

1116 RACE ST CINCINNATI, DH 452D2 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM

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PRELIMINARY

CONSTRUCTION

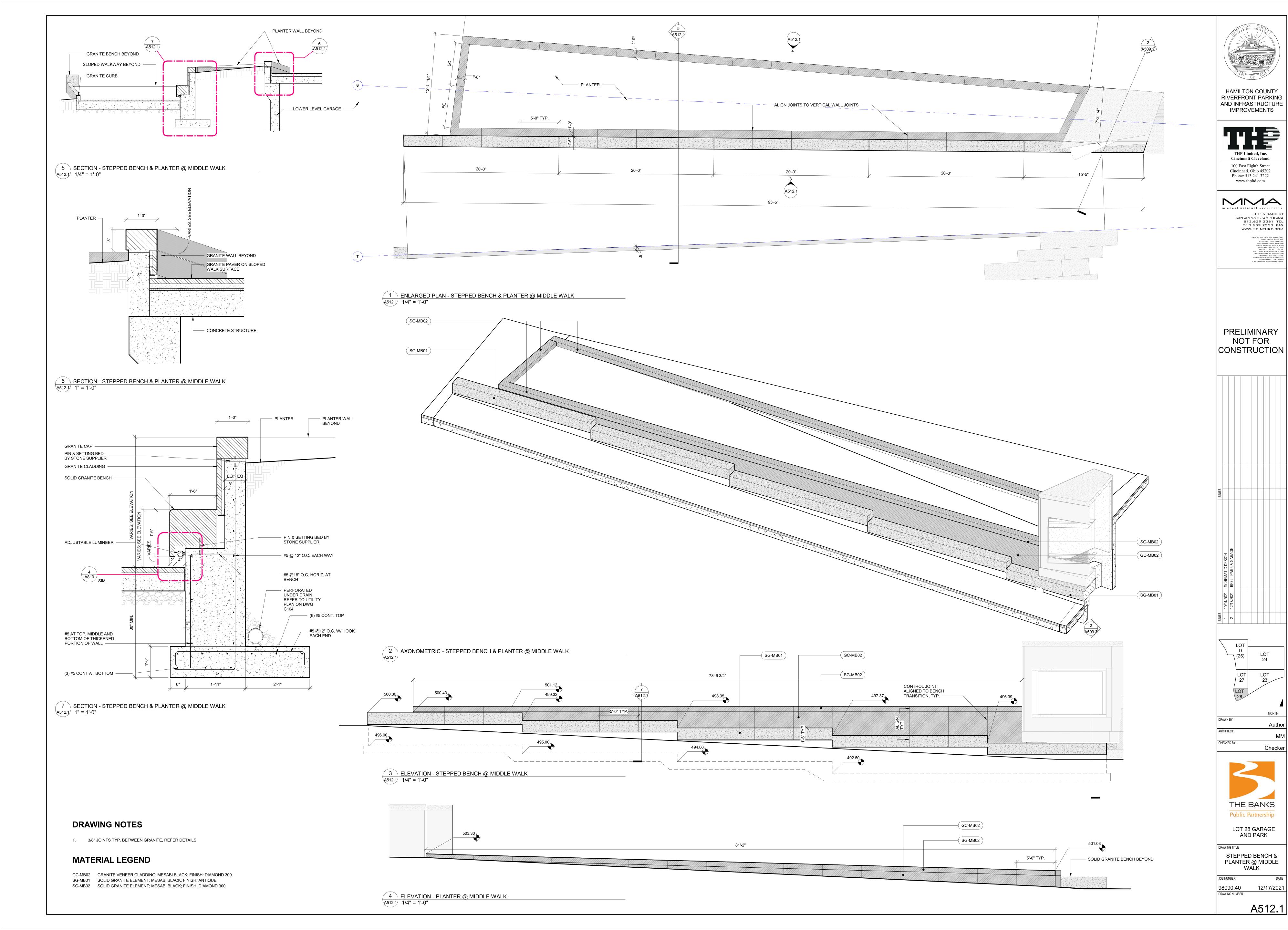
THE BANKS Public Partnership

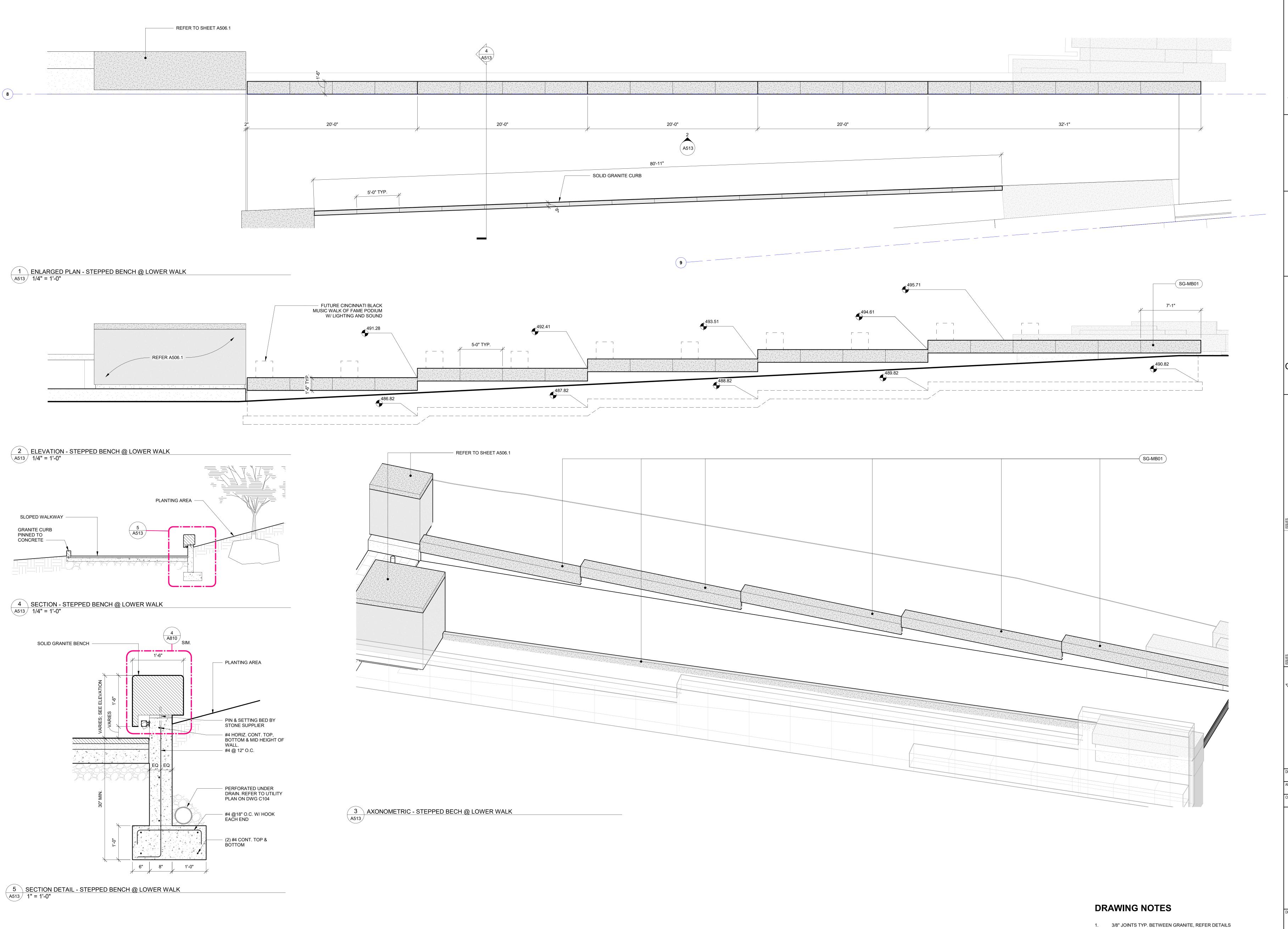
LOT 28 GARAGE AND PARK

LOWER LANDING BLEACHER SEATING

98090.40 DRAWING NUMBER 12/17/2021

A510.2





HAMILTON COUNTY

HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS

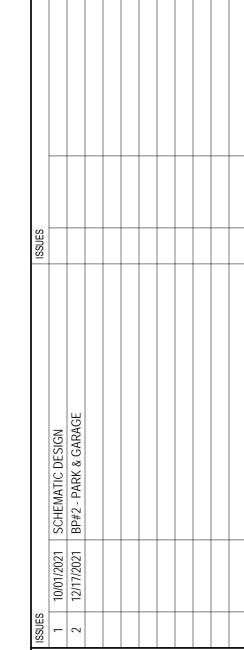


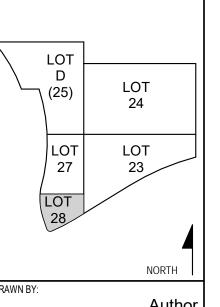
michael mcinturf ARCHITECTS

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LOT 28 GARAGE AND PARK

WING TITLE

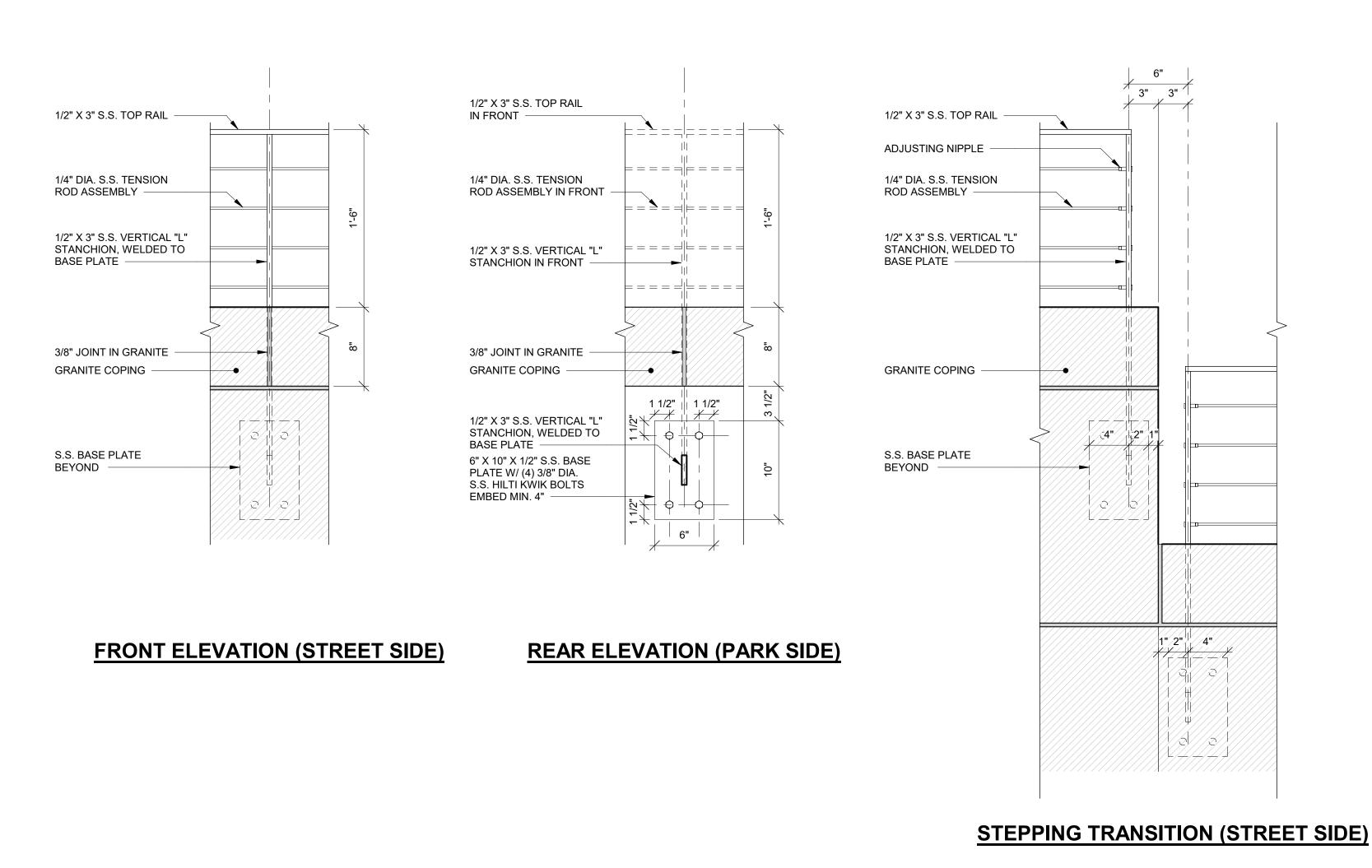
STEPPED BENCH @ LOWER WALK

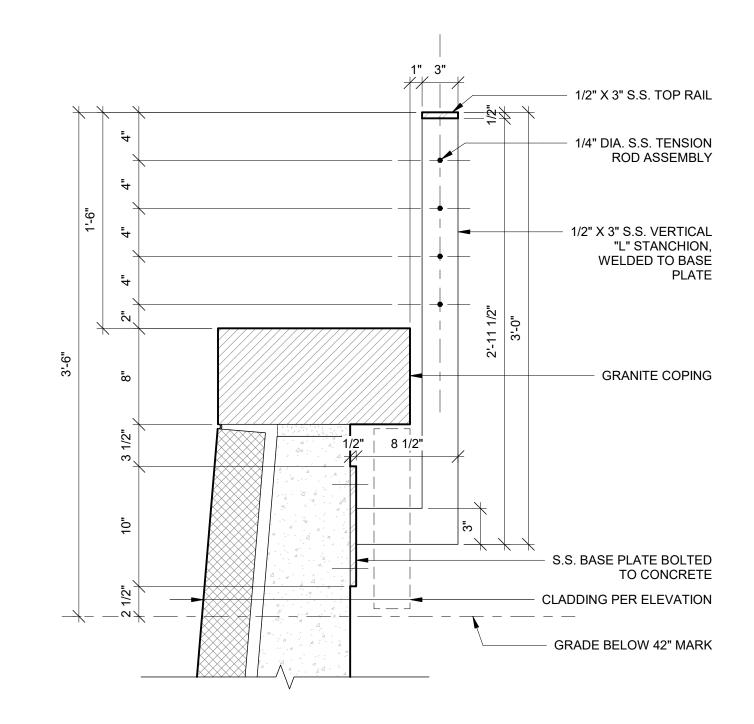
A513

JOB NUMBER DATE
98090.40 12/17/2021
DRAWING NUMBER

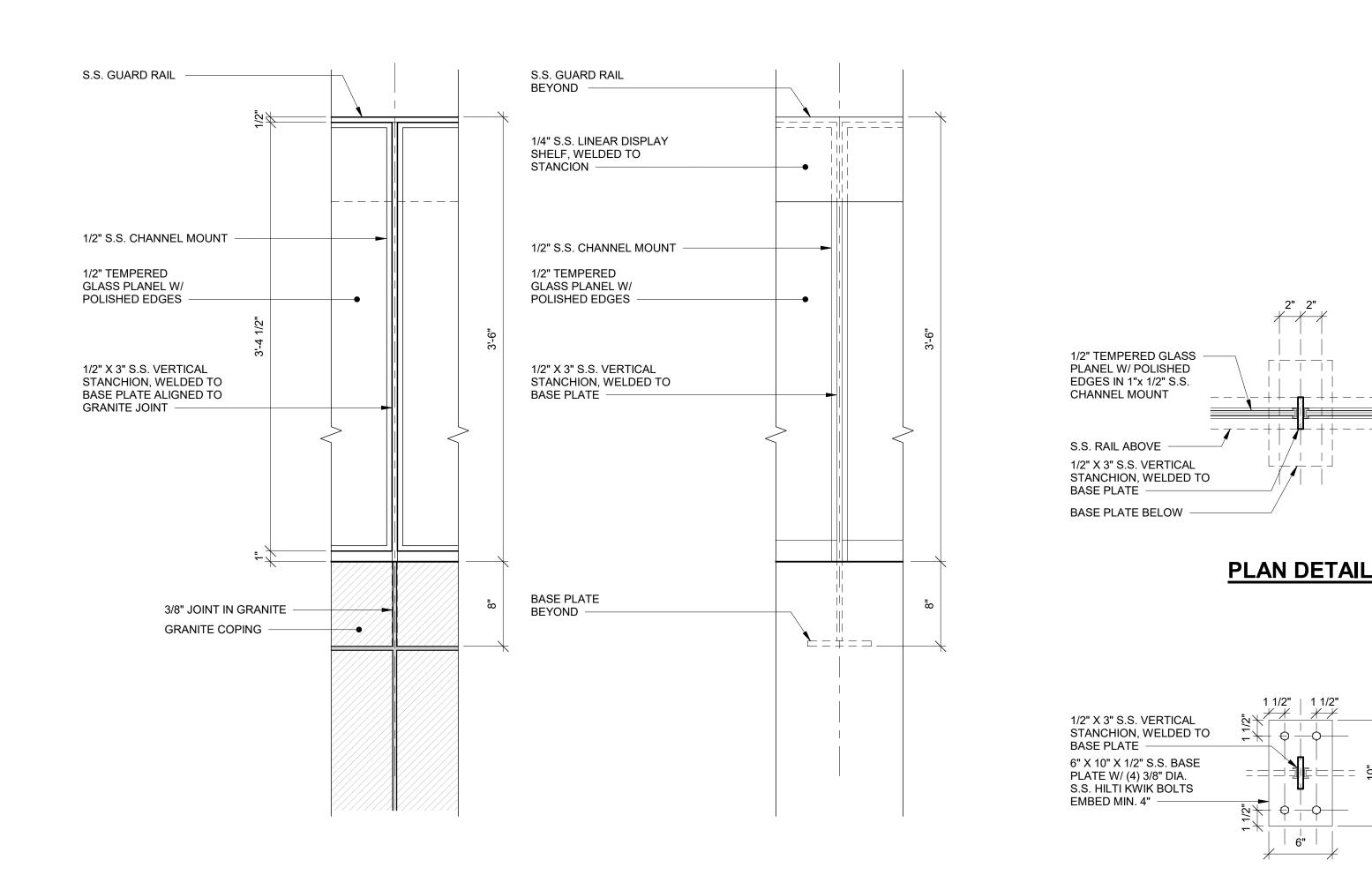
SG-MB01 SOLID GRANITE ELEMENT; MESABI BLACK; FINISH: ANTIQUE

MATERIAL LEGEND



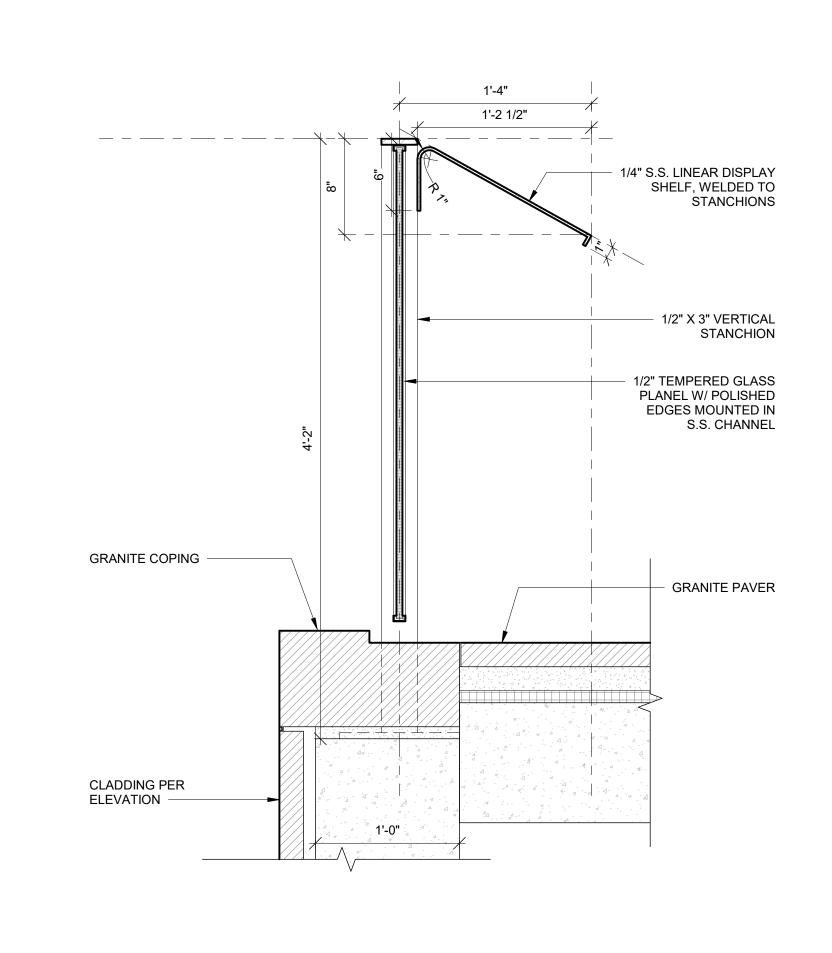


1 ELM ST. GUARD RAIL ELEVATIONS A801 1 1/2" = 1'-0" 2 ELM ST. GUARD RAIL SECTION 1 1/2" = 1'-0"



REAR ELEVATION

(UPPER PLAZA SIDE)



4 GLASS GUARD RAIL DETAILS
A801 1 1/2" = 1'-0"

FRONT ELEVATION

(STREET FACING)

BASE PLATE DETAIL

3 GLASS RAIL TYP. DETAIL A801 1 1/2" = 1'-0"



HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS

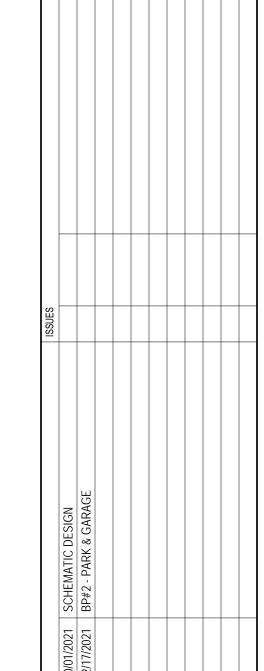


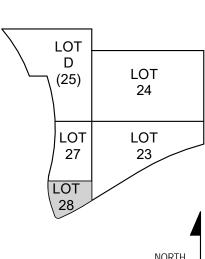
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JML, I

ARCHITECT:

ARCHITECT:

MM

CHECKED BY:

JML, MM

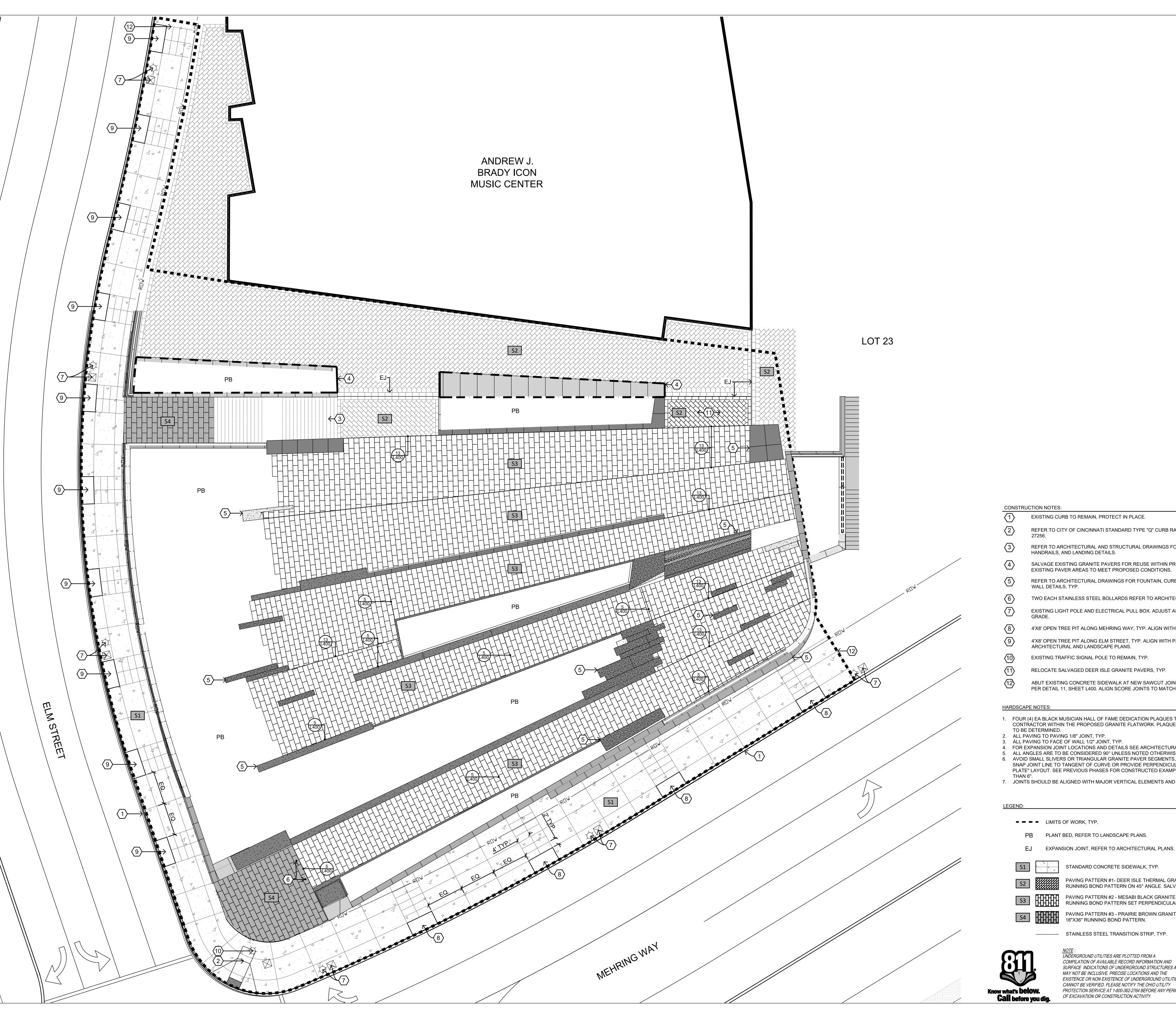
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LOT 28 GARAGE AND PARK

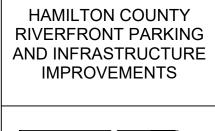
GUARD RAIL DETAILS

JOB NUMBER DATE
98090.40 12/17/2021
DRAWING NUMBER

A801

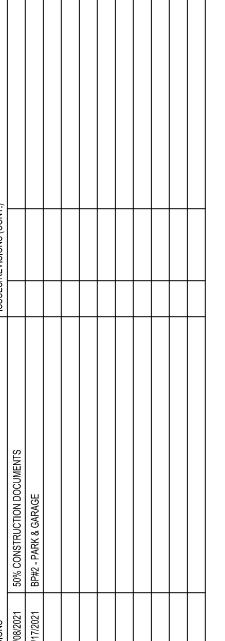






100 East Eighth Street Cincinnati, Ohio 45202 Phone: 513.241.3222





EXISTING CURB TO REMAIN, PROTECT IN PLACE.

REFER TO CITY OF CINCINNATI STANDARD TYPE "Q" CURB RAMP & TRUNCATED DOMES ACC NO.

REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MONUMENTAL STAIR, HANDRAILS, AND LANDING DETAILS.

SALVAGE EXISTING GRANITE PAVERS FOR REUSE WITHIN PROJECT AREA. INFILL AND MODIFY EXISTING PAVER AREAS TO MEET PROPOSED CONDITIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR FOUNTAIN, CURB, SEATWALLS, AND RETAINING WALL DETAILS, TYP.

TWO EACH STAINLESS STEEL BOLLARDS REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

EXISTING LIGHT POLE AND ELECTRICAL PULL BOX. ADJUST AS NECESSARY TO MEET FINISHED

4'X8' OPEN TREE PIT ALONG MEHRING WAY, TYP. ALIGN WITH TREE PITS ACROSS STREET.

4'X8' OPEN TREE PIT ALONG ELM STREET, TYP. ALIGN WITH PARK RADIAL GEOMETRY. REFER TO ARCHITECTURAL AND LANDSCAPE PLANS.

EXISTING TRAFFIC SIGNAL POLE TO REMAIN, TYP.

RELOCATE SALVAGED DEER ISLE GRANITE PAVERS, TYP.

ABUT EXISTING CONCRETE SIDEWALK AT NEW SAWCUT JOINT AND DOWEL INTO EXISTING SLAB PER DETAIL 11, SHEET L400. ALIGN SCORE JOINTS TO MATCH EXISTING SIDEWALK JOINTS.

- 1. FOUR (4) EA BLACK MUSICIAN HALL OF FAME DEDICATION PLAQUES TO BE INSTALLED BY THE CONTRACTOR WITHIN THE PROPOSED GRANITE FLATWORK. PLAQUES SUPPLIED BY OWNER. LOCATION
- TO BE DETERMINED. 2. ALL PAVING TO PAVING 1/8" JOINT, TYP.

3. ALL PAVING TO FACE OF WALL 1/2" JOINT, TYP. 4. FOR EXPANSION JOINT LOCATIONS AND DETAILS SEE ARCHITECTURAL DRAWINGS.

ALL ANGLES ARE TO BE CONSIDERED 90° UNLESS NOTED OTHERWISE. AVOID SMALL SLIVERS OR TRIANGULAR GRANITE PAVER SEGMENTS, REFER TO DETAIL 10, SHEET L400. SNAP JOINT LINE TO TANGENT OF CURVE OR PROVIDE PERPENDICULAR OFFSET TO CREATE "HOME PLATE" LAYOUT. SEE PREVIOUS PHASES FOR CONSTRUCTED EXAMPLES. NO GRANITE PIECES SMALLER

7. JOINTS SHOULD BE ALIGNED WITH MAJOR VERTICAL ELEMENTS AND MATERIAL CHANGES.

LIMITS OF WORK, TYP.

PB PLANT BED, REFER TO LANDSCAPE PLANS.

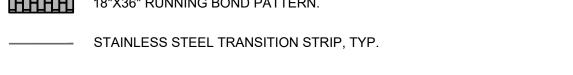
STANDARD CONCRETE SIDEWALK, TYP. PAVING PATTERN #1- DEER ISLE THERMAL GRANITE PAVER, TYP.



RUNNING BOND PATTERN ON 45° ANGLE. SALVAGE EXISTING. PAVING PATTERN #2 - MESABI BLACK GRANITE PAVER, 18"X36"



RUNNING BOND PATTERN SET PERPENDICULAR TO UPPER GRID LINE. PAVING PATTERN #3 - PRAIRIE BROWN GRANITE PAVER, 18"X36" RUNNING BOND PATTERN.



3 L400 AND PARK 13 L400 HARDSCAPE PLAN

11 L400

ARCHITECT/ENGINEER:

12/17/2021 98090.40 RAWING NUMBER

THE BANKS

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LOT 28 GARAGE



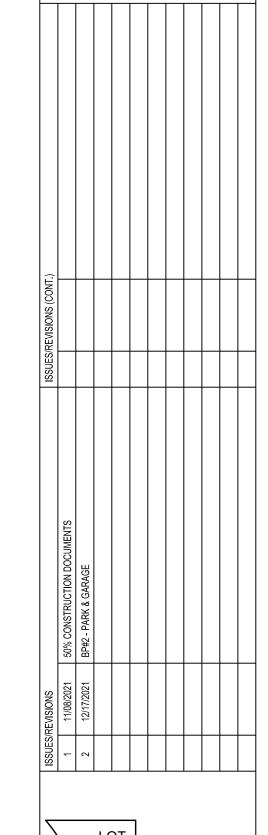
NOTE:
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COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.











STRUCTURAL BEAMS AND / OR BASEMENT WALLS, TYP. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS.

SOIL NOTES

1. PREPARE TRANSITION ZONE ABOVE SUBSOIL IN PLANTING AREAS ON GRADE AS DESCRIBED IN THE

SPECIFICATIONS AND SHOWN IN THE DETAILS.

2. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLAN AND REQUIRED SOIL DEPTHS. COMPENSATE FOR SETTLING AND COMPACTION AS NECESSARY.

<u>NOTE</u> : UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND

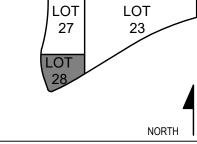
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0 5 10 20



ARCHITECT/ENGINEER:

14-15 L400



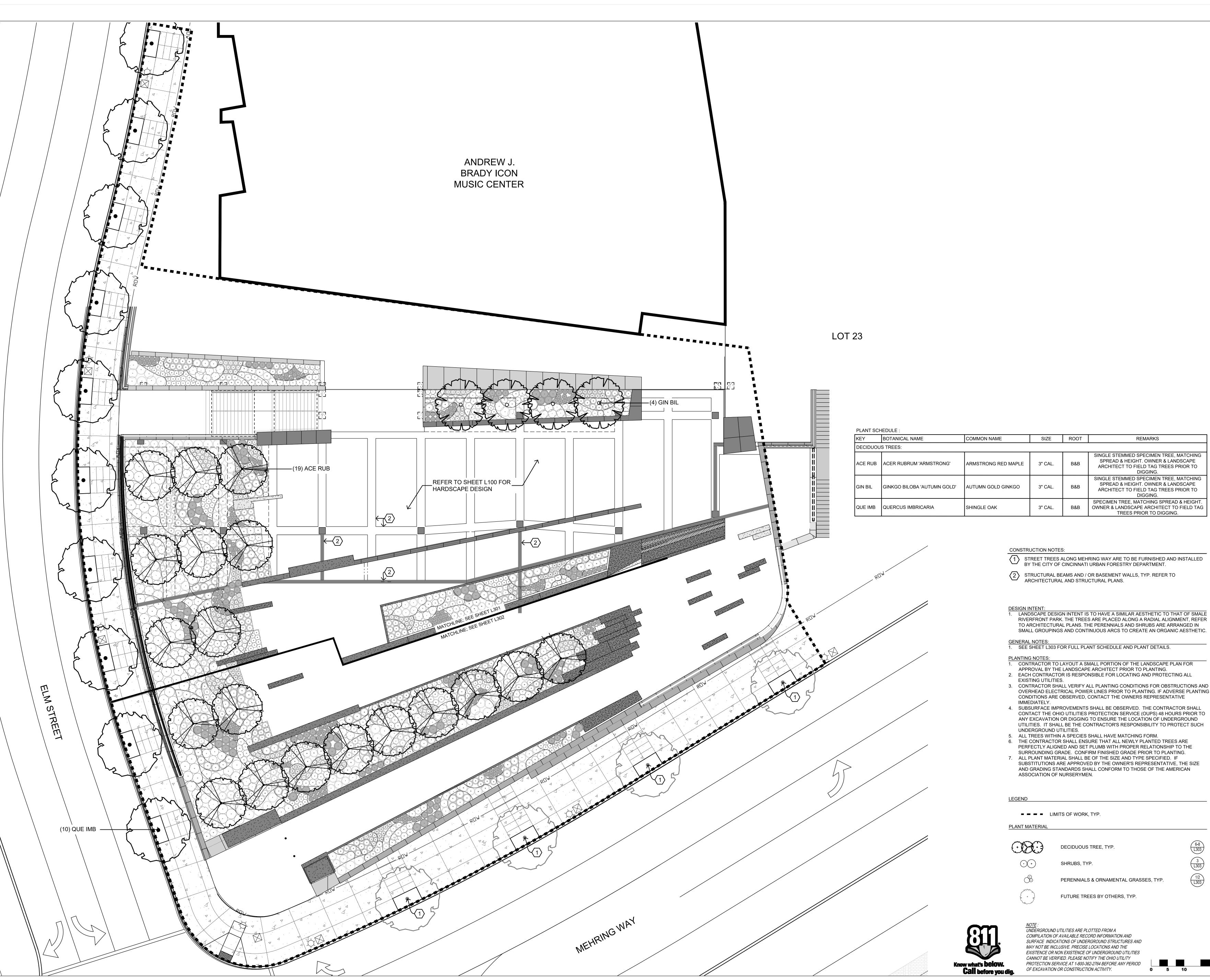
LOT 28 GARAGE

AND PARK

LANDSCAPE SOILS PLAN

12/17/2021 98090.40

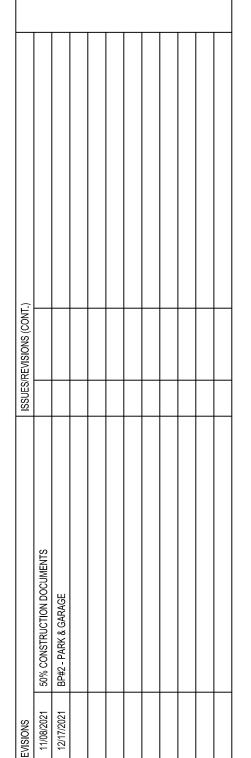
DRAWING NUMBER **L200**











LOT

ARCHITECT/ENGINEER:

GENERAL NOTES:

1. SEE SHEET L303 FOR FULL PLANT SCHEDULE AND PLANT DETAILS.

REMARKS

SINGLE STEMMED SPECIMEN TREE, MATCHING SPREAD & HEIGHT. OWNER & LANDSCAPE

ARCHITECT TO FIELD TAG TREES PRIOR TO

SINGLE STEMMED SPECIMEN TREE, MATCHING

SPREAD & HEIGHT. OWNER & LANDSCAPE

ARCHITECT TO FIELD TAG TREES PRIOR TO

SPECIMEN TREE, MATCHING SPREAD & HEIGHT.

OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.

PLANTING NOTES:

1. CONTRACTOR TO LAYOUT A SMALL PORTION OF THE LANDSCAPE PLAN FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
2. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL

3. CONTRACTOR SHALL VERIFY ALL PLANTING CONDITIONS FOR OBSTRUCTIONS AND OVERHEAD ELECTRICAL POWER LINES PRIOR TO PLANTING. IF ADVERSE PLANTING CONDITIONS ARE OBSERVED, CONTACT THE OWNERS REPRESENTATIVE

4. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.

5. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM. 6. THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE

SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

= = = LIMITS OF WORK, TYP.

SIZE ROOT

3" CAL.

3" CAL.

3" CAL.

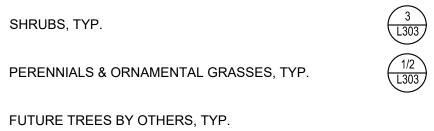


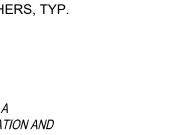
SHRUBS, TYP.

OF EXCAVATION OR CONSTRUCTION ACTIVITY.

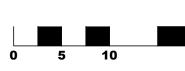
PERENNIALS & ORNAMENTAL GRASSES, TYP.

DECIDUOUS TREE, TYP.





<u>NOTE</u> : UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD



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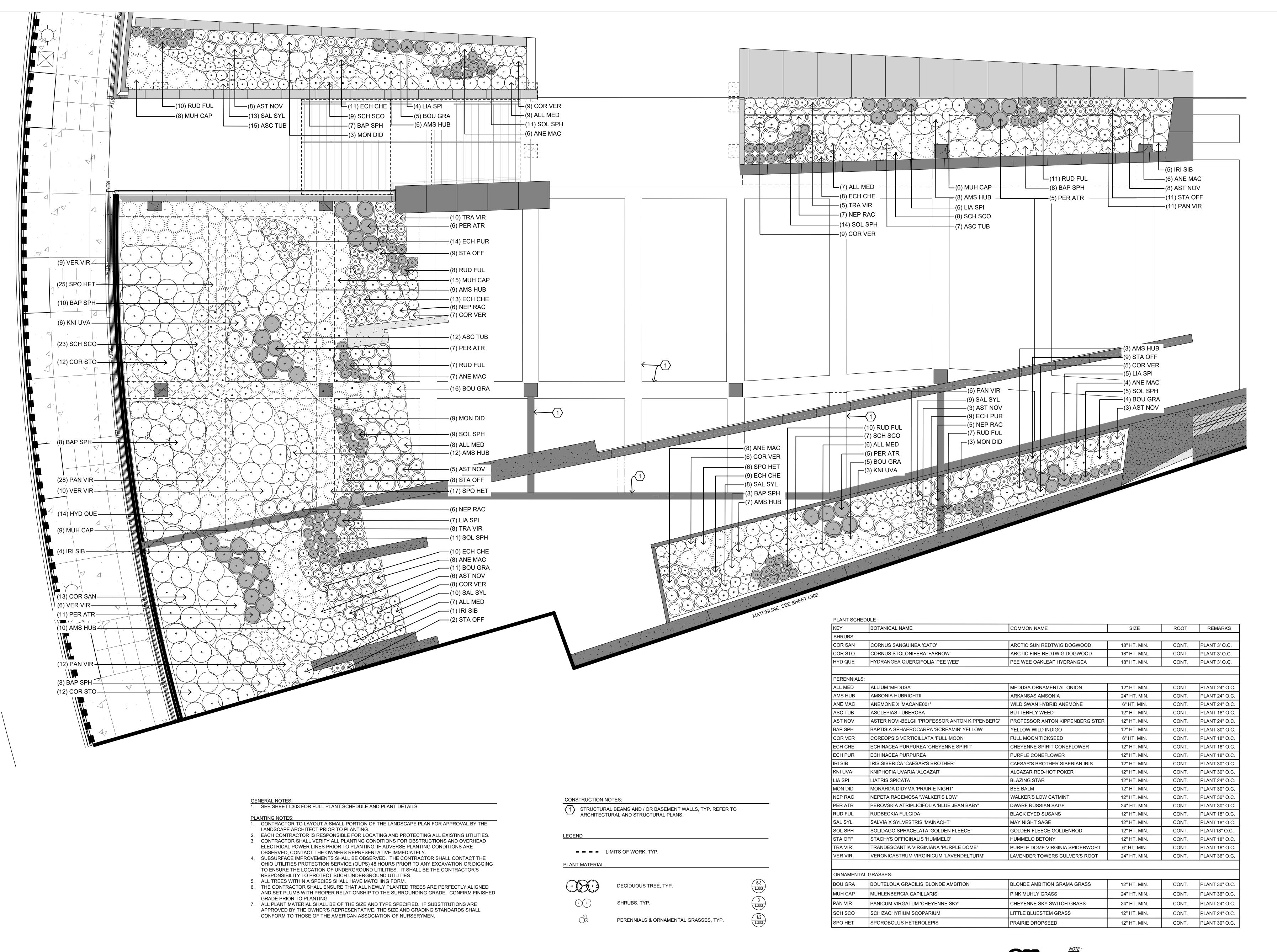
OVERALL

THE BANKS

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LOT 28 GARAGE AND PARK

L300





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Cincinnati • Cleveland

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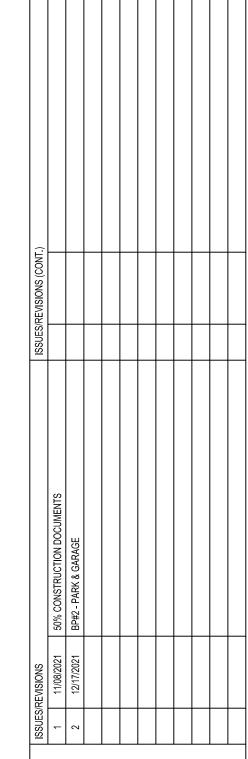


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LOT D LOT 24

LOT 27 23

LOT 28

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ARCHITECT/ENGINEER:

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LOT 28 GARAGE AND PARK

LANDSCAPE
ENLARGEMENT

PLAN

JOB NUMBER

98090.40 12/17/2021 DRAWING NUMBER

L301

know what's below.

Call before you dig

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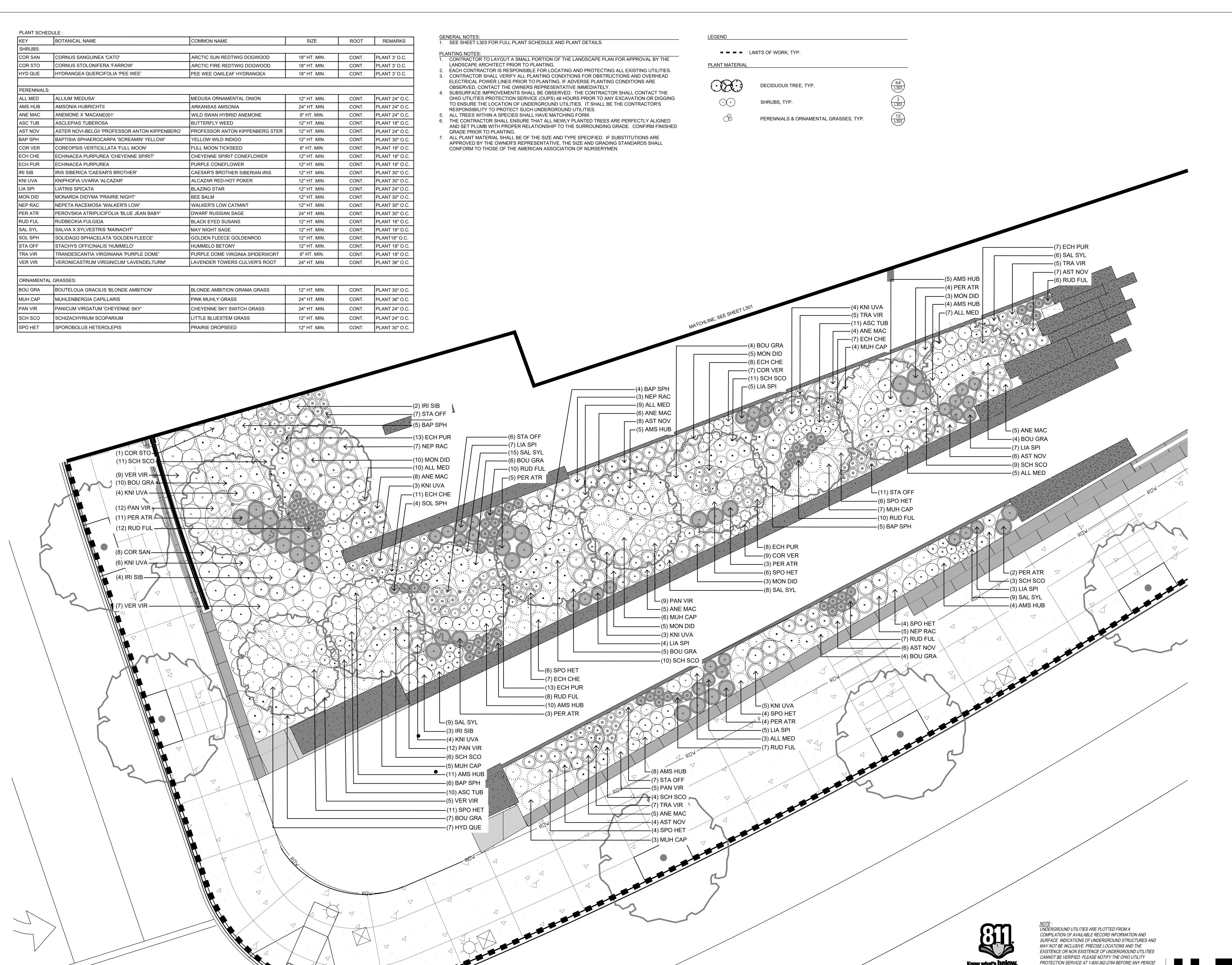
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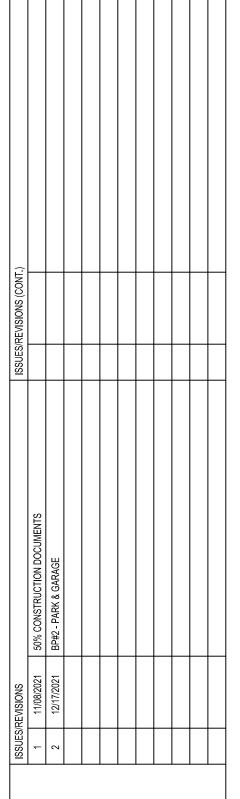


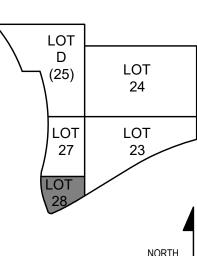












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DRAWN BY:

ARCHITECT/ENGINEER:

ARCHITECT/ENGINEER:

ECKED BY:



LOT 28 GARAGE AND PARK

RAWING TITLE

LANDSCAPE

ENLARGEMENT

 PLAN

 JOB NUMBER
 DATE

 98090.40
 12/17/2021

DRAWING NUMBER L302

OF EXCAVATION OR CONSTRUCTION ACTIVITY.

1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.

2. WHEN PLANTING ON GRADE, PLANTING SOIL DEPTH SHALL BE 12" MIN. BY A WIDTH OF THREE TIMES THE DIAMETER OF THE ROOTBALL/CONTAINER. 3. WHEN PLANTING ON STRUCTURE, REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR GRADING PLANS AND TREE PIT DEPTHS.

PERENNIAL PLANTING

 CONTAINER PLANT 2" DEPTH MULCH BED

1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION. 2. WHEN PLANTING ON GRADE, PLANTING SOIL DEPTH SHALL BE 12" MIN. BY A WIDTH OF THREE TIMES THE DIAMETER OF THE ROOTBALL/CONTAINER. 3. WHEN PLANTING ON STRUCTURE, REFER TO ARCHITECTURAL &

STRUCTURAL DRAWINGS FOR GRADING PLANS AND TREE PIT DEPTHS.

SCARIFY SIDES & BOTTOM

OF ROOT SYSTEM

ORNAMENTAL GRASS PLANTING

— 2" DEPTH MULCH BED - REMOVE BURLAP FROM UPPER 1/2 OF ROOTBALL PLANTING SOIL MIX

1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.

2. WHEN PLANTING ON GRADE, PLANTING SOIL DEPTH SHALL BE 12" MIN. BY A WIDTH OF THREE TIMES THE DIAMETER OF THE ROOTBALL/CONTAINER. 3. WHEN PLANTING ON STRUCTURE, REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR GRADING PLANS AND TREE PIT DEPTHS.

SHRUB PLANTING SCALE: N.T.S.

BULB SPACING

SCALE: N.T.S.

-DECIDUOUS TREE, SEE LANDSCAPE PLAN. DO NOT CUT MAIN LEADER. TREES TO BE FIELD TAGGED BY THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO DIGGING. SET TRUNK PLUMB WITH PROPOSED GRADE. ENSURE ROOT FLARE IS EXPOSED ABOVE FINISH GRADE. -CORNER OF ROOTBALL TO BE AT LINE OF ORIGINAL GRADE GALVANIZED ARBOR ANCHOR PLATE, 1/4 Ø GALANIZED CABLE, AND ROOTBALL PROTECTIVE MESH. 6 EA PER TREE, TYP. ANCHOR PLATE SHALL BE SET LEVEL WITH SUBGRADE. —EXISTING GRADE, TYP. - 2" Ø TREE AERATION SYSTEM WITH POWDER-COATED ALUMINUM TAMPER RESISTANT VENT CAP. PROVIDE 1 EA STAND PIPE AND VENT CAP PER TREE PIT LOCATED IN PAVING AREAS. — 2" MULCH — SUBSURFACE TREATMENT DEPENDANT ON PLANTING LOCATION, BED, TYP. REFER TO LANDSCAPE PLAN. —PLANTING SOIL MIX FIRMLY FORMED SOIL DAM (USE PLANTING SOIL MIX) ANGLE OF REPOSE VARIES WITH STEEPNESS OF SLOPE AND SOIL TYPE.

TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.

THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNERS REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY.

PIT DIAMETER AND DEPTHS SHALL VARY WITH THE TYPE AND SIZE OF THE PLANT, THE SOIL TYPE, AND OTHER SITE CONDITIONS. FOR PLANTING INSTRUCTIONS SEE DECIDUOUS TREE PLANTING DETAIL, THIS SHEET.

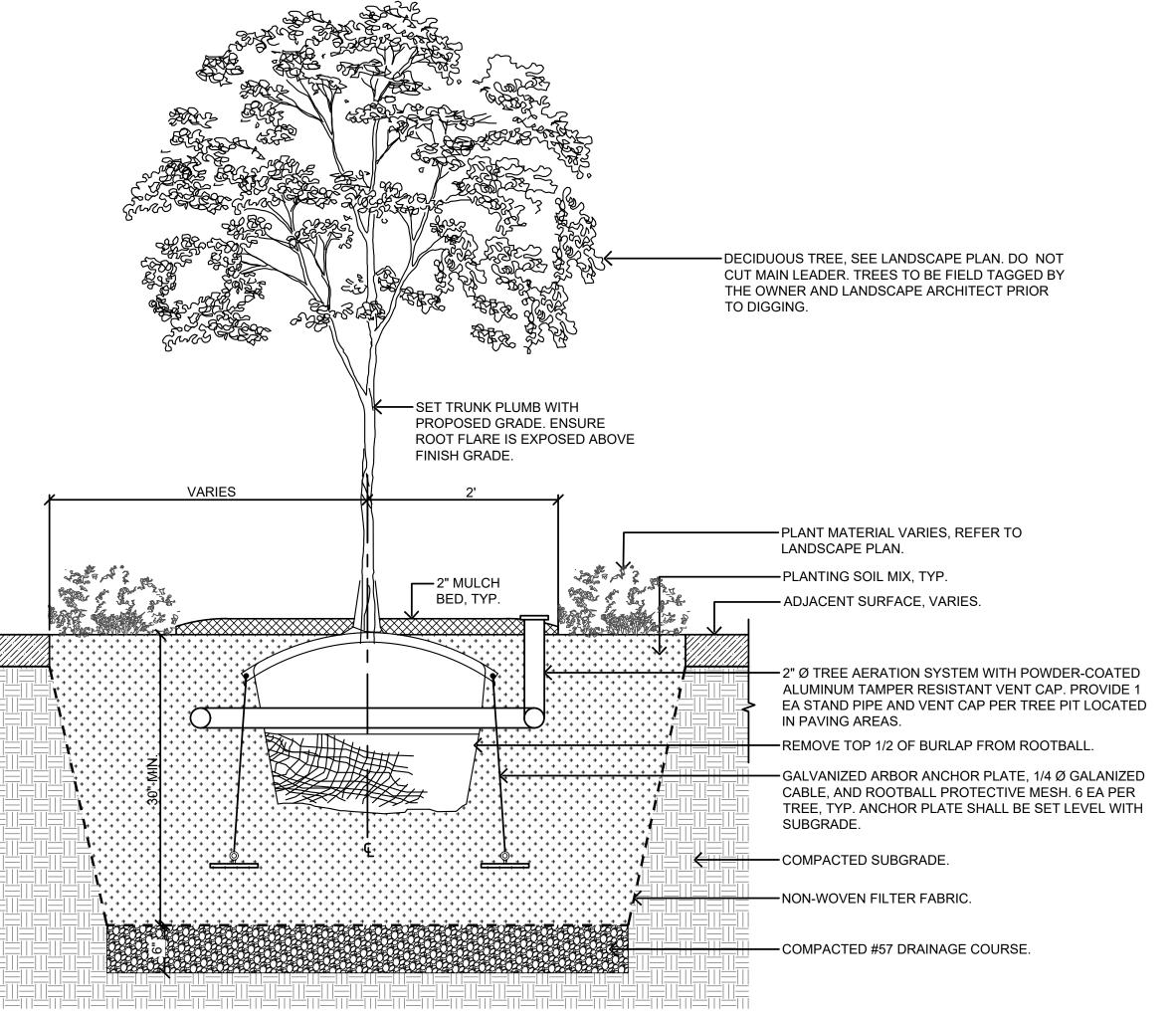
TREE PLANTING ON A SLOPE

B = SP/2C = SP/1.218" D = SPACING 30" 48" 21" | 41" | 48" PLANT LOCATION

PLANTING BED PERENNIAL SPACING - SHRUB/PERENNIAL, TYP. BULB, TYP. ;RANDOMIZE VARIES — PLANT MATERIAL VARIES, SEE LANDSCAPE PLAN. — 2" MULCH BED, TYP. -BULBS, TYP. SEE SPACING DIAGRAM ABOVE. PLANTING SOIL MIX, TYP. DEPTH VAIRES, REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR GRADING PLANS.

STRUCTURAL SLAB, DRAINAGE BOARD, &

WATERPROOFING OR PLANTED ON GRADE.



1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION. PLANTING SOIL DEPTH SHALL BE 30" MIN. BY A WIDTH OF THREE TIMES THE DIAMETER OF THE ROOTBALL.

TREE PLANTING ON GRADE

SCALE: N.T.S.

PROVIDE A CIRCULAR TREE AERATION SYSTEM AND VENT AT EACH SINGULAR TREE PIT. FOR LINEAR TREE PLANTING AREAS PROVIDE ONE VENT CAP PER TREE AND WEAVE THE TREE AERATION SYSTEM IN A SERPENTINE FASHION BETWEEN EACH TREE. 4. TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE SO THAT THE ROOT FLARE IS EXPOSED.

REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS. 6. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.

PLANT SCHEDULE

LANT SCHEDE	JLL .				
ŒΥ	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
ECIDUOUS TR	REES:				
ACE RUB	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	3" CAL.	B&B	SINGLE STEMMED SPECIMEN TREE, MATCHI SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
GIN BIL	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	3" CAL.	B&B	SINGLE STEMMED SPECIMEN TREE, MATCHII SPREAD & HEIGHT. OWNER & LANDSCAPE ARCHITECT TO FIELD TAG TREES PRIOR TO DIGGING.
QUE IMB	QUERCUS IMBRICARIA	SHINGLE OAK	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIG OWNER & LANDSCAPE ARCHITECT TO FIELD TREES PRIOR TO DIGGING.

					DIGGING.
QUE IMB	QUERCUS IMBRICARIA	SHINGLE OAK	3" CAL.	B&B	SPECIMEN TREE, MATCHING SPREAD & HEIGHT OWNER & LANDSCAPE ARCHITECT TO FIELD TAC TREES PRIOR TO DIGGING.
SHRUBS:					
COR SAN	CORNUS SANGUINEA 'CATO'	ARCTIC SUN REDTWIG DOGWOOD	18" HT. MIN.	CONT.	PLANT 3' O.C.
COR STO	CORNUS STOLONIFERA 'FARROW'	ARCTIC FIRE REDTWIG DOGWOOD	18" HT. MIN.	CONT.	PLANT 3' O.C.
HYD QUE	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	18" HT. MIN.	CONT.	PLANT 3' O.C.

	PERENNIALS:					
	ALL MED	ALLIUM 'MEDUSA'	MEDUSA ORNAMENTAL ONION	12" HT. MIN.	CONT.	PLANT 24" O.C.
	AMS HUB	AMSONIA HUBRICHTII	ARKANSAS AMSONIA	24" HT. MIN.	CONT.	PLANT 24" O.C.
	ANE MAC	ANEMONE X 'MACANE001'	WILD SWAN HYBRID ANEMONE	6" HT. MIN.	CONT.	PLANT 24" O.C.
	ASC TUB	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	12" HT. MIN.	CONT.	PLANT 18" O.C.
	AST NOV	ASTER NOVI-BELGII 'PROFESSOR ANTON KIPPENBERG'	PROFESSOR ANTON KIPPENBERG STER	12" HT. MIN.	CONT.	PLANT 24" O.C.
	BAP SPH	BAPTISIA SPHAEROCARPA 'SCREAMIN' YELLOW'	YELLOW WILD INDIGO	12" HT. MIN.	CONT.	PLANT 30" O.C.
	COR VER	COREOPSIS VERTICILLATA 'FULL MOON'	FULL MOON TICKSEED	6" HT. MIN.	CONT.	PLANT 18" O.C.
	ECH CHE	ECHINACEA PURPUREA 'CHEYENNE SPIRIT'	CHEYENNE SPIRIT CONEFLOWER	12" HT. MIN.	CONT.	PLANT 18" O.C.
	ECH PUR	ECHINACEA PURPUREA	PURPLE CONEFLOWER	12" HT. MIN.	CONT.	PLANT 18" O.C.
	IRI SIB	IRIS SIBERICA 'CAESAR'S BROTHER'	CAESAR'S BROTHER SIBERIAN IRIS	12" HT. MIN.	CONT.	PLANT 30" O.C.
ss	KNI UVA	KNIPHOFIA UVARIA 'ALCAZAR'	ALCAZAR RED-HOT POKER	12" HT. MIN.	CONT.	PLANT 30" O.C.
	LIA SPI	LIATRIS SPICATA	BLAZING STAR	12" HT. MIN.	CONT.	PLANT 24" O.C.
	MON DID	MONARDA DIDYMA 'PRAIRIE NIGHT'	BEE BALM	12" HT. MIN.	CONT.	PLANT 30" O.C.
	NEP RAC	NEPETA RACEMOSA 'WALKER'S LOW'	WALKER'S LOW CATMINT	12" HT. MIN.	CONT.	PLANT 30" O.C.
	PER ATR	PEROVSKIA ATRIPLICIFOLIA 'BLUE JEAN BABY'	DWARF RUSSIAN SAGE	24" HT. MIN.	CONT.	PLANT 30" O.C.
	RUD FUL	RUDBECKIA FULGIDA	BLACK EYED SUSANS	12" HT. MIN.	CONT.	PLANT 18" O.C.
	SAL SYL	SALVIA X SYLVESTRIS 'MAINACHT'	MAY NIGHT SAGE	12" HT. MIN.	CONT.	PLANT 18" O.C.
	SOL SPH	SOLIDAGO SPHACELATA 'GOLDEN FLEECE'	GOLDEN FLEECE GOLDENROD	12" HT. MIN.	CONT.	PLANT18" O.C.
	STA OFF	STACHYS OFFICINALIS 'HUMMELO'	HUMMELO BETONY	12" HT. MIN.	CONT.	PLANT 18" O.C.
	TRA VIR	TRANDESCANTIA VIRGINIANA 'PURPLE DOME'	PURPLE DOME VIRGINIA SPIDERWORT	6" HT. MIN.	CONT.	PLANT 18" O.C.
	VER VIR	VERONICASTRUM VIRGINICUM 'LAVENDELTURM'	LAVENDER TOWERS CULVER'S ROOT	24" HT. MIN.	CONT.	PLANT 36" O.C.

BULB PLANT	SCHEDULE

ORNAMENTAL GRASSES:

PAN VIR

BOUTELOUA GRACILIS 'BLONDE AMBITION'

PANICUM VIRGATUM 'CHEYENNE SKY'

MUHLENBERGIA CAPILLARIS

SCHIZACHYRIUM SCOPARIUM

SPOROBOLUS HETEROLEPIS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
BULBS:	•		•			
630	ALL AMB	ALLIUM 'AMBASSADOR'	ORNAMENTAL ONION	6" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL
630	CRO CRO	CROCOSMIA CROCOSMIIFLORA 'GEORGE DAVIDSON'	MONTBRETIA	4" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL
420	CRO TOM	CROCUS TOMMASINIANUS	TOMMASINI'S LILAC CROCUS	2" BULB	BULB	PLANT 3-4" O.C. ONLY PLANT IN FALL
420	GAL NIV	GALANTHUS NIVALIS	SNOWDROPS	2" BULB	BULB	PLANT 3-4" O.C. ONLY PLANT IN FALL
420	TUL PUR	TULIPA 'PURISSIMA BLONDE'	WHITE FOSTERIANA TULIP	5" BULB	BULB	PLANT 4-6" O.C. ONLY PLANT IN FALL

BLONDE AMBITION GRAMA GRASS

CHEYENNE SKY SWITCH GRASS

PINK MUHLY GRASS

PRAIRIE DROPSEED

LITTLE BLUESTEM GRASS

12" HT. MIN.

24" HT. MIN.

24" HT. MIN.

12" HT. MIN.

12" HT. MIN.

CONT.

CONT.

CONT.

CONT.

CONT.

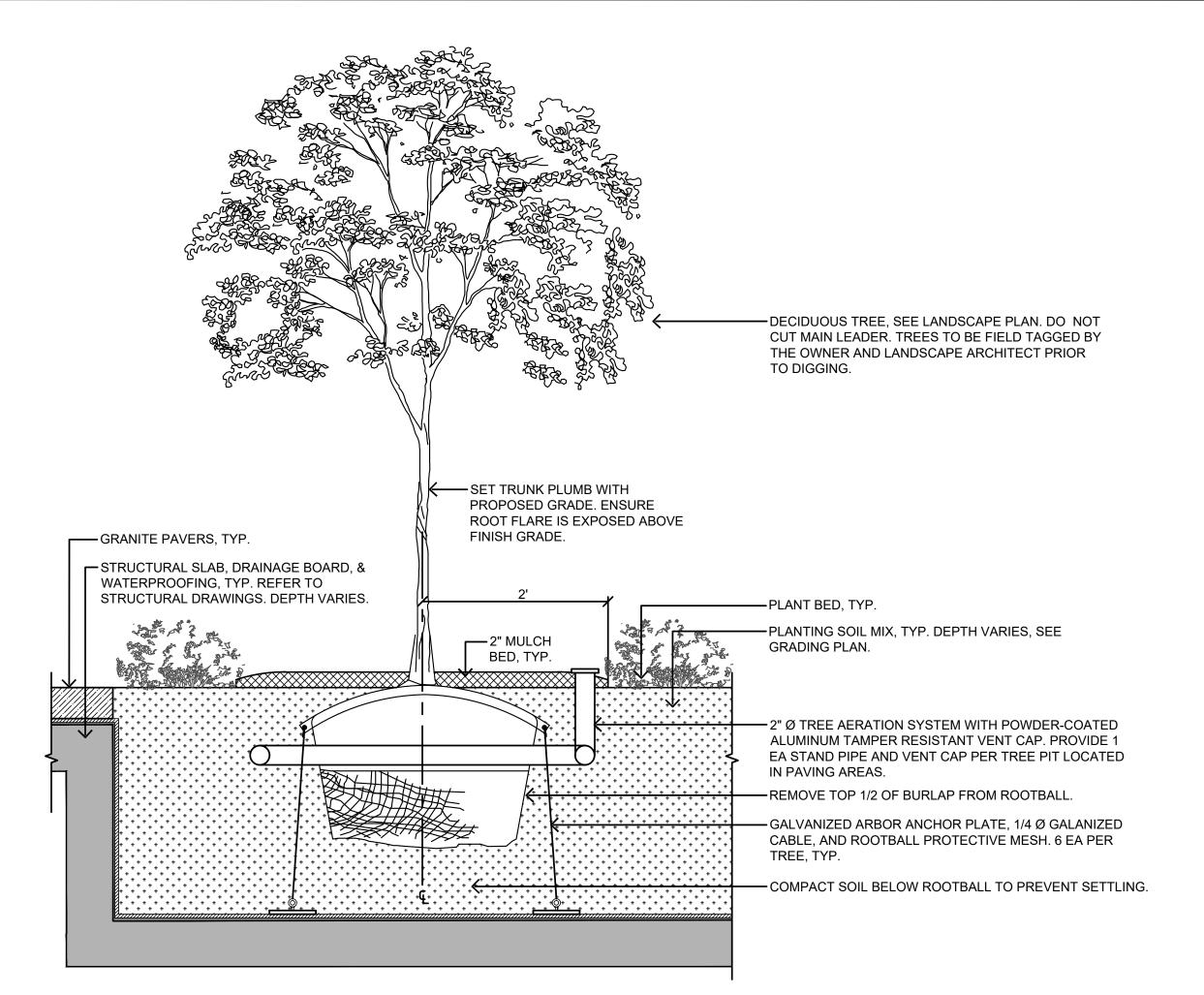
PLANT 30" O.C.

PLANT 36" O.C.

PLANT 24" O.C.

PLANT 24" O.C.

PLANT 30" O.C.



REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION.

REFER TO MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR GRADING PLANS AND TREE PIT DEPTHS.

PROVIDE A CIRCULAR TREE AERATION SYSTEM AND VENT AT EACH SINGULAR TREE PIT. FOR LINEAR TREE PLANTING AREAS PROVIDE ONE VENT CAP PER TREE AND WEAVE THE TREE AERATION SYSTEM IN A SERPENTINE FASHION BETWEEN EACH TREE.

TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE SO THAT THE ROOT FLARE IS EXPOSED. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.

THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.

TREE PLANTING ON STRUCTURE

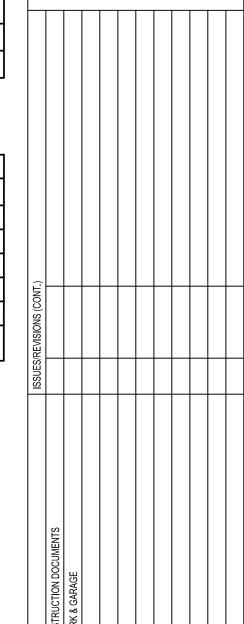
SCALE: N.T.S.

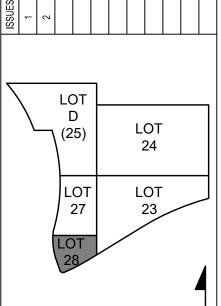


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**









ARCHITECT/ENGINEER:

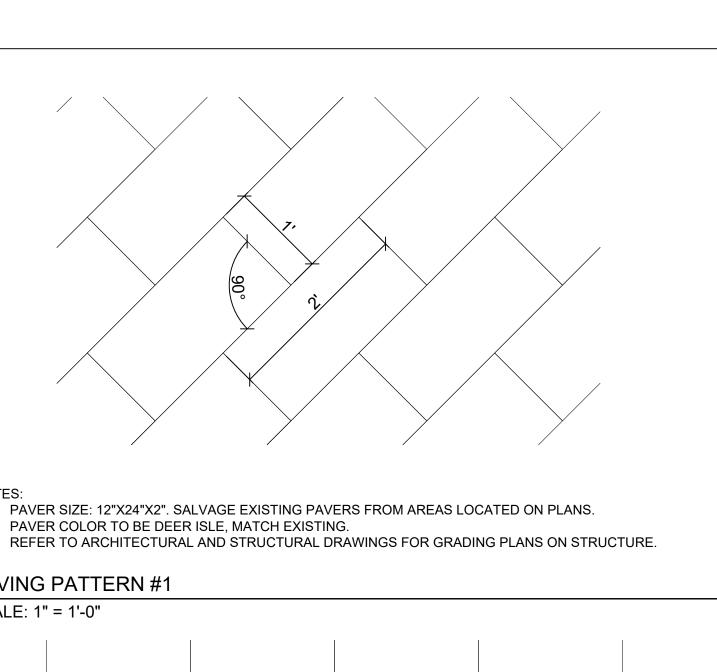


LOT 28 GARAGE AND PARK

PLANTING DETAILS

12/17/2021 98090.40

DRAWING NUMBER **L303**



1. PAVER SIZE: 12"X24"X2". SALVAGE EXISTING PAVERS FROM AREAS LOCATED ON PLANS. 2. PAVER COLOR TO BE DEER ISLE, MATCH EXISTING. 3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GRADING PLANS ON STRUCTURE.

PAVING PATTERN #1
SCALE: 1" = 1'-0" 1'-6"

1. PAVER SIZE: 18"X36"X2" 2. PAVER COLOR TO BE MESABI BLACK. 3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

PAVING PATTERN #2

SCALE: 1" = 1'-0" 1'-6"

NOTES: 1. PAVER SIZE: 18"X36"X2". 2. PAVER COLOR TO BE PRAIRIE BROWN. 3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

> -9"Ø HEEL PROOF AREA DRAIN, CENTER IN PAVER. REFER TO MEP PLANS FOR LOCATIONS.

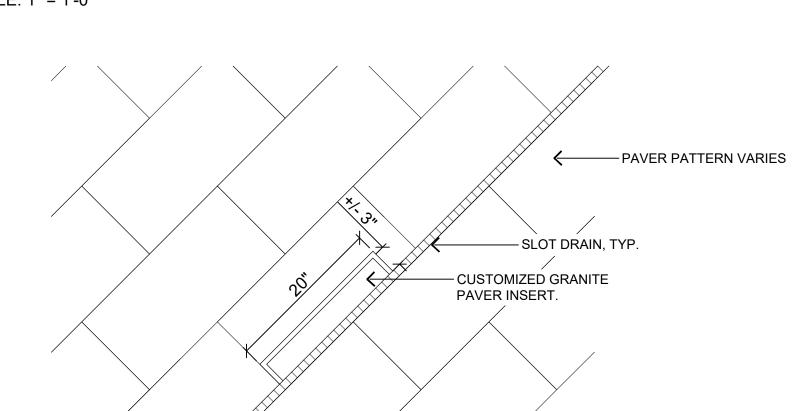
1. DESIGN INTENT IS TO CENTER AREA DRAIN IN PAVER FIELD WHERE APPLICABLE. VERIFY LOCATIONS ON MEP / CIVIL DRAWINGS AND IN THE FIELD. SUBMIT SHOP DRAWINGS OF GRANITE PAVER LAYOUT WITH DRAIN LOCATIONS INDICATED. 2. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

GRANITE PAVING BAND AROUND AREA DRAIN

SCALE: 1" = 1'-0"

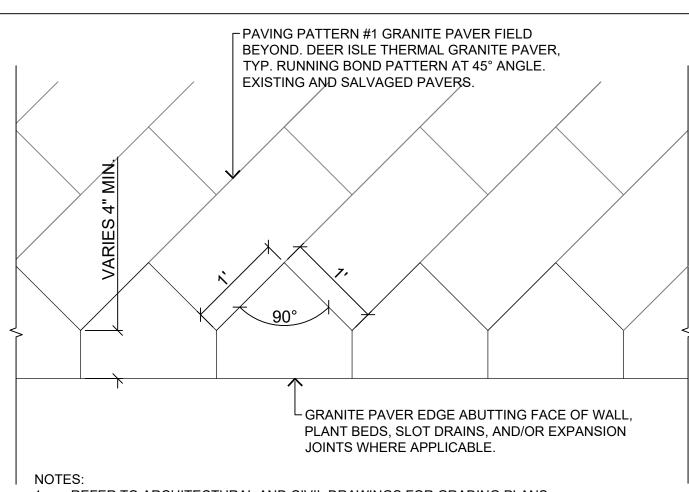
PAVING PATTERN #3

SCALE: 1" = 1'-0"



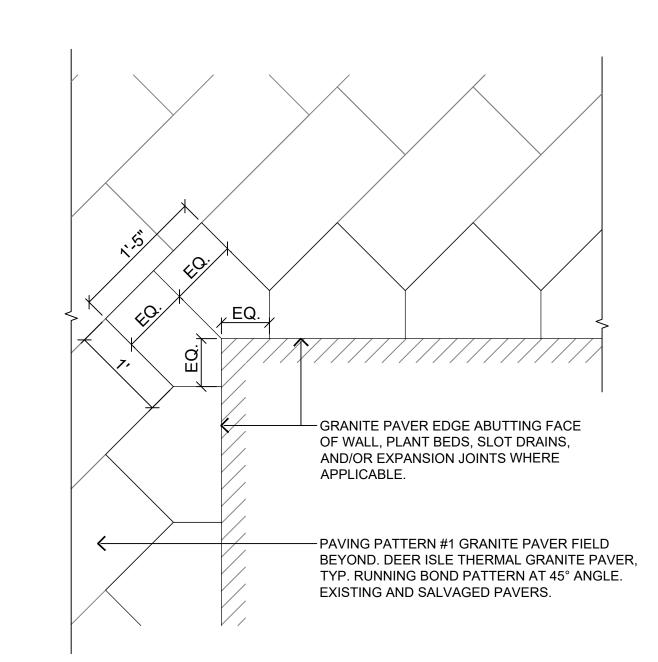
1. REFER TO ARCHITECTURAL AND CIVIL PLANS FOR SLOT DRAIN, CLEANOUT LOCATIONS, AND GRADING

PAVER AT SLOT DRAIN CLEANOUT ACCESS SCALE: 1" = 1'-0"



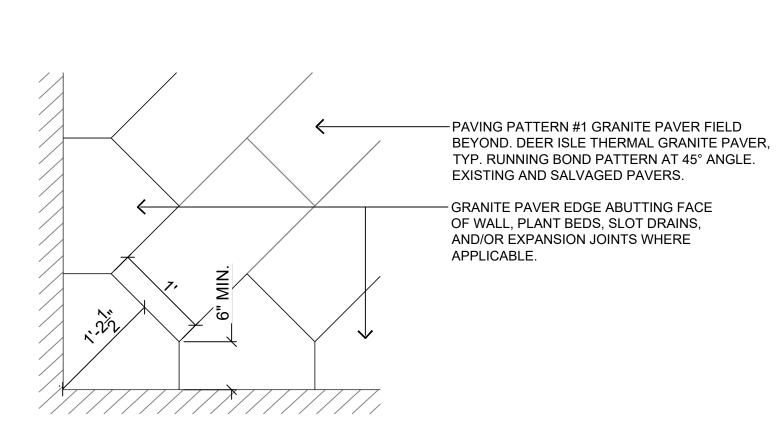
1. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

GRANITE PAVER EDGE CONDITION #1 SCALE: 1" = 1'-0"



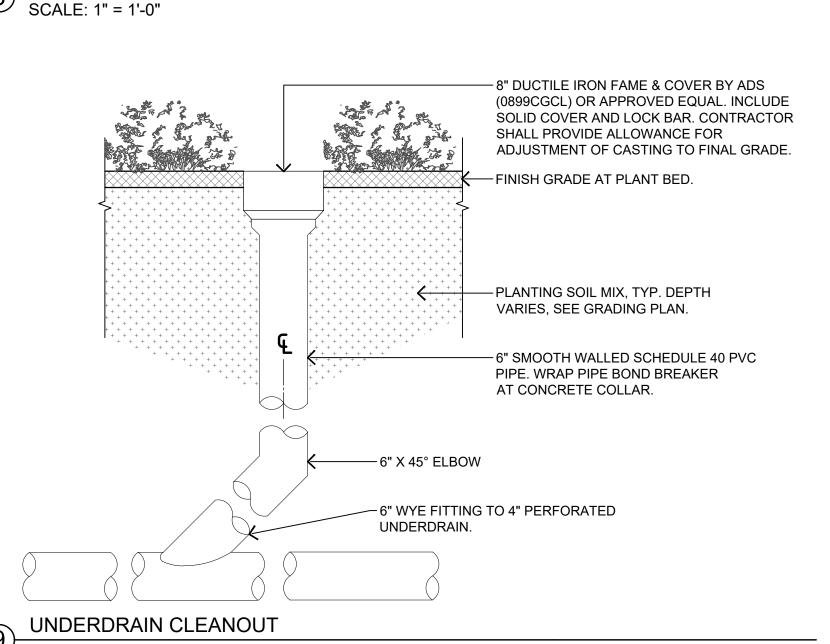
1. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

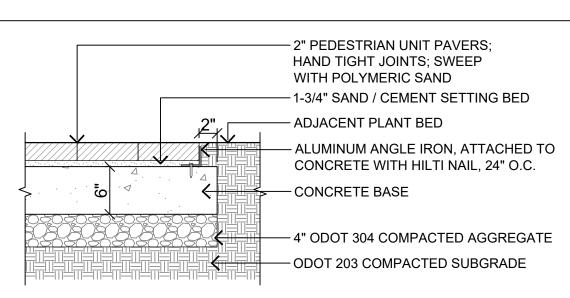
GRANITE PAVER EDGE CONDITION #2



1. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

GRANITE PAVER EDGE CONDITION #3





ALUMINUM ANGLE IRON BASIS OF DESIGN: 3"X3" BLACK ALUMINUM ASPHALT EDGE

RESTRAINT BY PERMALOC. (800) 356-9660, OR APPROVED EQUAL. FASTEN IN PLACE PER

UNIT PAVER ON GRADE AT PLANT BED

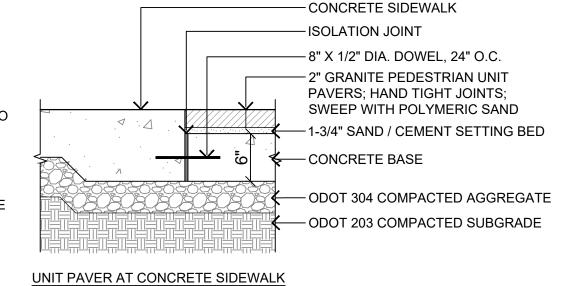
1. REFER TO PLANS FOR PAVER SIZE AND COLOR.

ISOLATION JOINT

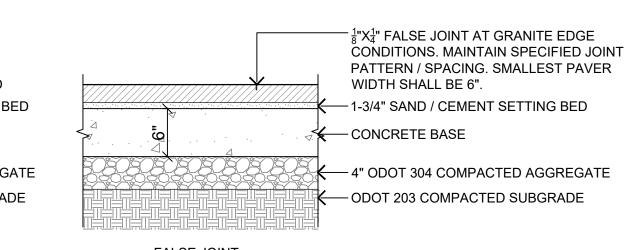
MANUFACTURERS RECOMMENDATION.

GRANITE PAVER SECTIONS

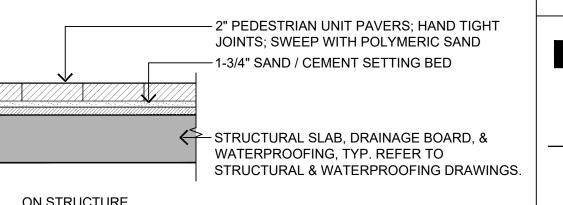
SCALE: 1" = 1'-0"



CONSTRUCTION JOINT



FALSE JOINT



ON STRUCTURE

 $^-$ LUBRICATE $\frac{1}{2}$ OF DOWEL,

- CONCRETE PAVEMENT

Cincinnati, Ohio 45202 Phone: 513.241.3222 www.thpltd.com **KLEINGERS**

LANDSCAPE West Chester, OH 450
ARCHITECTURE 513.779.7851

HAMILTON COUNTY

RIVERFRONT PARKING AND INFRASTRUCTURE

IMPROVEMENTS

Cincinnati • Cleveland

100 East Eighth Street

—— 5" DEPTH CONCRETE **PAVEMENT** REFER TO SPECIFICATIONS — 5" DEPTH ODOT ITEM WALK TYPICAL SECTION

-FACE OF WALL - JOINT SEAL -DEPTH OF SAWCUT JOINT TO BE 1-1/2" -FULL DEPTH PREFORMED JOINT FILLER — CONCRETE PAVEMENT - CONCRETE PAVEMENT ISOLATION JOINT AT VERTICAL SURFACE **CONTRACTION JOINT**

- JOINT SEAL

- SLEEVE

JOINT FILLER

-FULL DEPTH PREFORMED

— STAINLESS STEEL SLIP

CONCRETE PAVEMENT

DOWEL @ 18" O.C.

1. CONCRETE WALKS TO BE INSTALLED PER DETAIL AND DOTE STANDARD DRAWINGS WITH THE BELOW LISTED EXCEPTIONS. 2. INSTALL EXPANSION JOINTS AT 50' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.

3. INSTALL CONTROL JOINTS AT AS SHOWN ON PLAN, 12' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND SAWED. 4. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.

5. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.

6. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS. 7. JOINTING SHOP DRAWING MUST BE SUBMITTED FOR APPROVAL.

CONCRETE SIDEWALK AND JOINTS

PAVER BANDING ADJACENT TO EXPANSION JOINT, TYP. -1" EXPANSION JOINT AT SURFACE LEVEL, TYP.

1. PAVER SIZE: 1'X2' PAVER COLOR TO BE PER PLAN. 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.

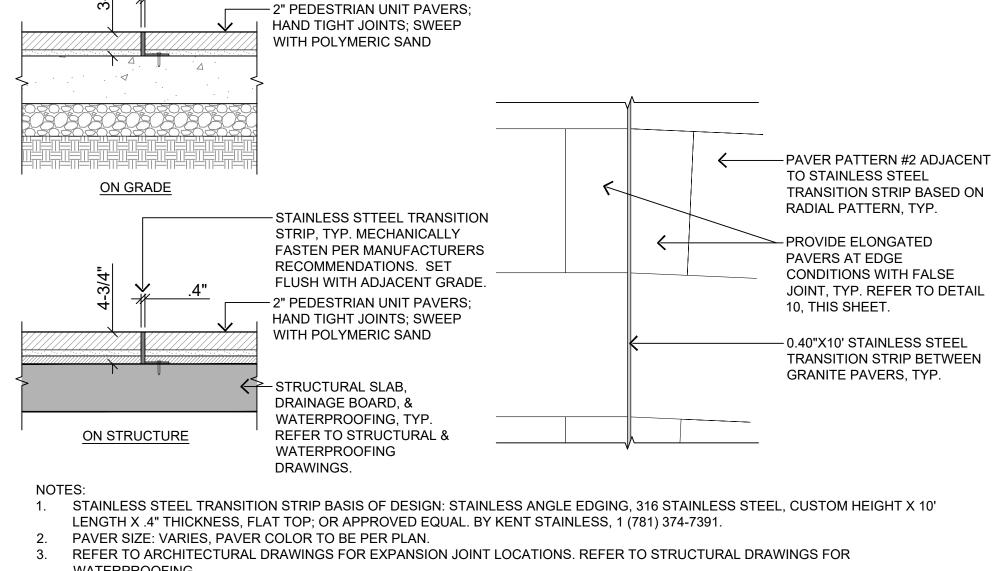
PAVER BAND AT EXPANSION JOINT

WATERPROOFING DRAWINGS.

- GRANITE PAVERS, REFER TO SHEET L100 FOR PAVING PATTERN DETAILING. - PLANT MATERIAL VARIES, SEE LANDSCAPE PLAN PLANTING SOIL MIX, TYP. DEPTH VARIES, SEE GRADING PLAN. 4" PERFORATED PERIMETER UNDERDRAIN SOCK, PVC SDR35 OR HDPE DUAL WALL SMOOTH INTERIOR (ADS-12 OR EQUAL), DIRECT TIE INTO PD1 STAINLESS STEEL PERFORATED SCREEN. SURROUND PIPE WITH CLEAN, WASHED #57 STONE WRAPPED WITH FILTER FABRIC. PROVIDE ONE TAMPER-PROOF UNDERDRAIN CLEANOUT PER TREE LOCATED ON STRUCTURE (SEE DETAIL 7, SHEET L303). -SUBSURFACE DRAIN (PD1) WITH VERTICAL STRUCTURAL SLAB, DRAINAGE CLEAN-OUT, TYP. REFER TO ARCHITECTURAL BOARD, & WATERPROOFING, TYP. AND MEP PLANS FOR LOCATIONS. REFER TO STRUCTURAL &

NOTES: REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

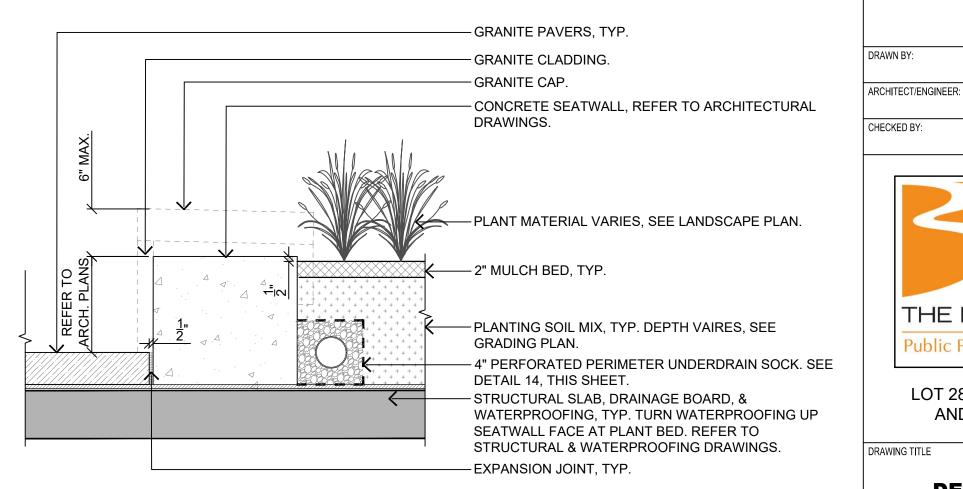
UNDERDRAIN & SUBSURFACE PLANTER DRAIN DETAIL (PD1) SCALE: 1" = 1'-0"



- STAINLESS STEEL TRANSITION STRIP, TYP. MECHANICALLY FASTEN PER MANUFACTURERS RECOMMENDATIONS. SET

FLUSH WITH ADJACENT GRADE.

STAINLESS STEEL TRANSITION STRIP

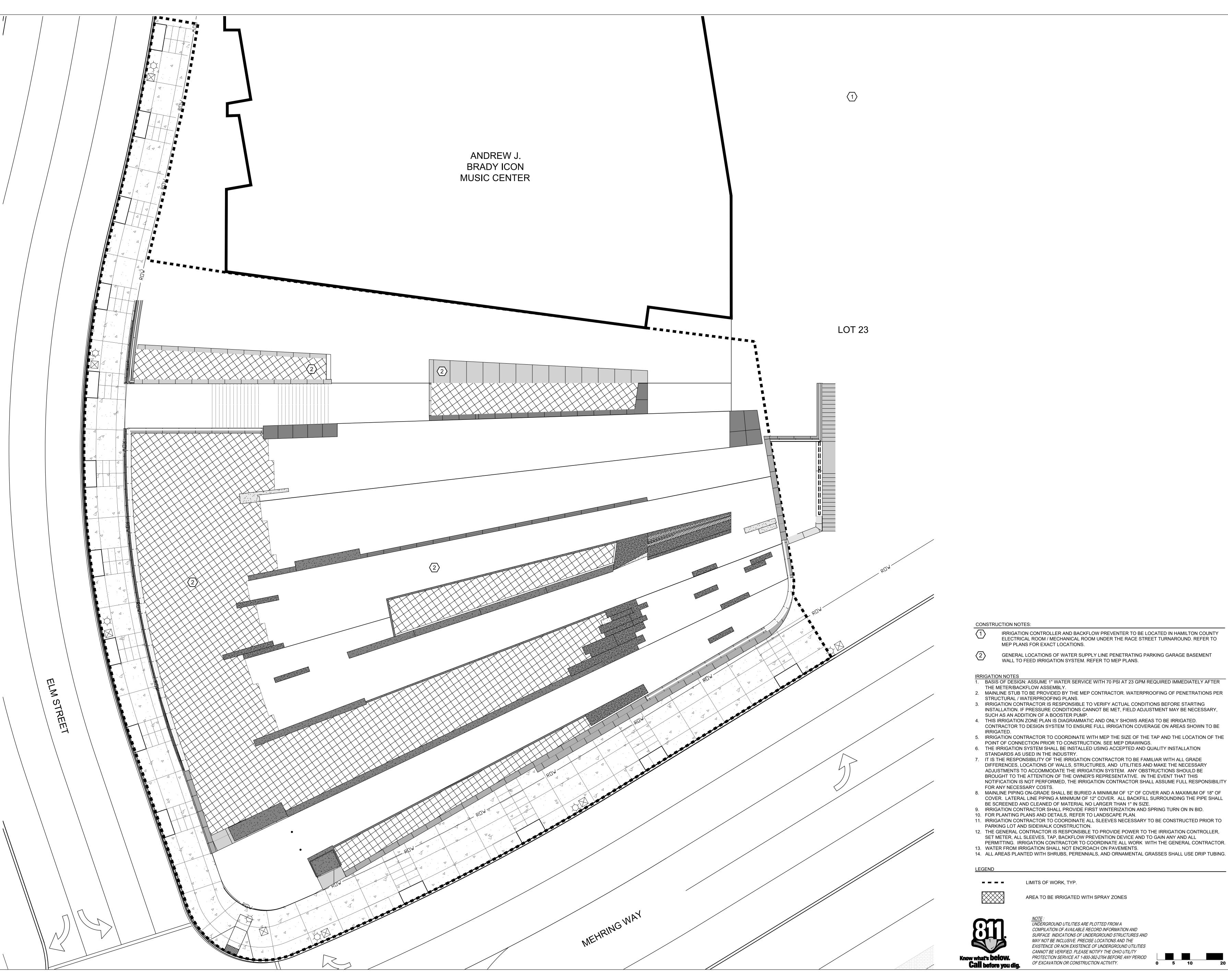


NOTES: 1. REFER TO SPECIFICATION SECTION 329300 - PLANTS AND 329113 - PLANTING SOILS FOR ADDITIONAL INFORMATION. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR STRUCTURAL DECK DRAIN LOCATIONS AND DETAILS. 3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR GRADING PLANS.

CONCRETE PLANTER WALL SCALE: 1" = 1'-0"

THE BANKS Public Partnersh **LOT 28 GARAGE** AND PARK DRAWING TITLE **DETAILS**

12/17/2021 98090.40 **L400**

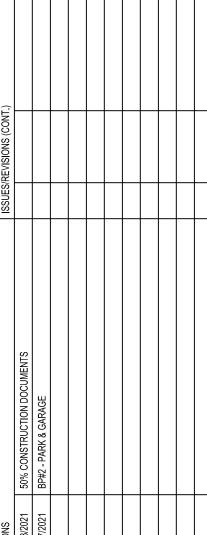








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IRRIGATION CONTROLLER AND BACKFLOW PREVENTER TO BE LOCATED IN HAMILTON COUNTY ELECTRICAL ROOM / MECHANICAL ROOM UNDER THE RACE STREET TURNAROUND. REFER TO MEP PLANS FOR EXACT LOCATIONS.

GENERAL LOCATIONS OF WATER SUPPLY LINE PENETRATING PARKING GARAGE BASEMENT WALL TO FEED IRRIGATION SYSTEM. REFER TO MEP PLANS.

1. BASIS OF DESIGN: ASSUME 1" WATER SERVICE WITH 70 PSI AT 23 GPM REQUIRED IMMEDIATELY AFTER THE METER/BACKFLOW ASSEMBLY.

STRUCTURAL / WATERPROOFING PLANS. 3. IRRIGATION CONTRACTOR IS RESPONSIBLE TO VERIFY ACTUAL CONDITIONS BEFORE STARTING INSTALLATION. IF PRESSURE CONDITIONS CANNOT BE MET, FIELD ADJUSTMENT MAY BE NECESSARY, SUCH AS AN ADDITION OF A BOOSTER PUMP. 4. THIS IRRIGATION ZONE PLAN IS DIAGRAMMATIC AND ONLY SHOWS AREAS TO BE IRRIGATED.

CONTRACTOR TO DESIGN SYSTEM TO ENSURE FULL IRRIGATION COVERAGE ON AREAS SHOWN TO BE 5. IRRIGATION CONTRACTOR TO COORDINATE WITH MEP THE SIZE OF THE TAP AND THE LOCATION OF THE

POINT OF CONNECTION PRIOR TO CONSTRUCTION. SEE MEP DRAWINGS. 6. THE IRRIGATION SYSTEM SHALL BE INSTALLED USING ACCEPTED AND QUALITY INSTALLATION STANDARDS AS USED IN THE INDUSTRY.

7. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES, AND UTILITIES AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM. ANY OBSTRUCTIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY COSTS.

COVER. LATERAL LINE PIPING A MINIMUM OF 12" COVER. ALL BACKFILL SURROUNDING THE PIPE SHALL BE SCREENED AND CLEANED OF MATERIAL NO LARGER THAN 1" IN SIZE. 9. IRRIGATION CONTRACTOR SHALL PROVIDE FIRST WINTERIZATION AND SPRING TURN ON IN BID.

10. FOR PLANTING PLANS AND DETAILS, REFER TO LANDSCAPE PLAN. 11. IRRIGATION CONTRACTOR TO COORDINATE ALL SLEEVES NECESSARY TO BE CONSTRUCTED PRIOR TO PARKING LOT AND SIDEWALK CONSTRUCTION.

12. THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER TO THE IRRIGATION CONTROLLER, SET METER, ALL SLEEVES, TAP, BACKFLOW PREVENTION DEVICE AND TO GAIN ANY AND ALL PERMITTING. IRRIGATION CONTRACTOR TO COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR. 13. WATER FROM IRRIGATION SHALL NOT ENCROACH ON PAVEMENTS.

14. ALL AREAS PLANTED WITH SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES SHALL USE DRIP TUBING.

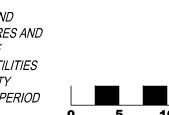
LIMITS OF WORK, TYP.



AREA TO BE IRRIGATED WITH SPRAY ZONES



<u>NOTE</u> : UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.





ARCHITECT/ENGINEER:

IRRIGATION ZONE

12/17/2021 98090.40

RAWING NUMBER

GENERAL STRUCTURAL NOTES:

A. CODES AND SPECIFICATIONS

- 1. CINCINNATI, OHIO BUILDING CODE, 2017.
- 2. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- 3. ACI 301-16 STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- 4. ANSI/AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- 5. ANSI/AWS STRUCTURAL WELDING CODE STEEL D1.1.

B. <u>FOUNDATIONS</u>

- 1. THE FOUNDATION DESIGN IS BASED UPON THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED MARCH 10, 2015 AND
- 2. FOUNDATION ELEVATIONS SHOWN ARE ESTIMATED AND ARE FOR BIDDING PURPOSES ONLY, AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS.
- 3. FOUNDATIONS DESIGNED FOR 16" DIAMETER, AUGERED, CAST-IN-PLACE CONCRETE PILES WITH MINIMUM 125 TON CAPACITY.
- 4. SPREAD FOOTINGS ARE DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE OF 2000 PSF WITHIN STRUCTURAL FILL. SOILS UNSUITABLE FOR SUPPORTING FOUNDATIONS SHALL BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER, AND BACKFILLED TO
- 5. ALL BEARING SURFACES SHALL BE UNDISTURBED, LEVEL (WITHIN 1 IN 12), AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
- 6. ALL FOOTINGS, CAPS AND GRADE BEAMS ARE TO BE POURED NEAT AGAINST EARTH BANKS (WITHOUT SIDE FORMS) UNLESS APPROVED OTHERWISE BY BOTH THE GEOTECHNICAL AND STRUCTURAL ENGINEERS. WHERE EARTH CUTS WILL NOT STAND, SIDES SHALL BE FORMED AND BACKFILLED WITH COMPACTED MATERIAL, SUBJECT TO ENGINEERS' APPROVAL.
- 7. SET COLUMN DOWELS WITH TEMPLATE PRIOR TO CONCRETING.

C. <u>CONCRETE</u>

- CONCRETE STRENGTHS:
- a. 4500 PSI: FOOTINGS, PILE CAPS, AND GRADE BEAMS.

DESIGN BEARING ELEVATION WITH LEAN CONCRETE.

- b. 5000 PSI (AE): LOT 28 PODIUM ELEVATED SLAB WITH MEMBRANE PROTECTION, SLABS ON GRADE, WALLS, RAILS, EXTERIOR TOPPING SLABS, AND OTHER CONCRETE WITH EXTERIOR EXPOSURE.
- c. 5000 PSI (AE) COLUMNS AND SHEAR WALLS.
- d. 1500 PSI: BACKFILL CONCRETE.
- 2. PROVIDE 3/4" BEVELS AT CORNERS OF ALL COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
- 3. LENGTH OF SLAB POUR BETWEEN CONSTRUCTION JOINTS SHALL NOT EXCEED 120
- FEET. MAXIMUM AREA OF SLAB POURS NOT TO EXCEED 14,000 SF. 4. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS
- SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL. 5. PERMANENT LOADS, SUCH AS MASONRY WALLS, SHALL NOT BE PLACED ON SUPPORTED

APPROVED BY STRUCTURAL ENGINEER. LOCATIONS OF ALL CONSTRUCTION JOINTS TO BE

SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN

- 6. PLACE NO OPENINGS, SLEEVES, INSERTS, ETC. IN CONCRETE WORK UNLESS CRITERIA
- INDICATED ON STRUCTURAL DRAWINGS IS MET, OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. METAL SLEEVES OR CONDUIT ARE NOT PERMITTED IN PODIUM LEVEL EXTERIOR.

D. REINFORCING STEEL

- ALL REINFORCING: 60 KSI YIELD.
- 2. PROVIDE CLASS 'B' TENSION SPLICES UNLESS OTHERWISE NOTED.
- 3. CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE ACI MINIMUM UNLESS OTHERWISE NOTED. PROVIDE SPACERS ON OUTER LAYERS OF WALL REINFORCING TO MAINTAIN SPECIFIED COVER.
- 4. PROVIDE EPOXY COATED REINFORCING FOR ALL BARS FULLY OR PARTIALLY EMBEDDED IN SLABS AND BEAMS OF EXTERIOR SLAB WITHOUT MEMBRANE PROTECTION, ALL COLUMNS, AND OTHER BARS AS NOTED.
- 5. PROVIDE MATERIAL AND PLACEMENT OF ONE AND ONE HALF (1.5) TONS CONTINGENCY STEEL. SIZE OF BARS TO BE MIXED. HALF FOR FOUNDATION PACKAGE, AND HALF FOR PODIUM FRAMING PACKAGE, BARS ARE TO BE CUT, BENT AND PLACED AS DIRECTED BY THE ENGINEER. .
- E. MECHANICAL LOADS SUPPORTED FROM STRUCTURE
- 1. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.

F. <u>COORDINATION</u>

- 1. CONTRACTOR SHALL COMPLETE ALL WORK REQUIRED AND NECESSARY FOR THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND REFERENCED STANDARDS. THE SPECIFICATIONS AND DRAWINGS COMPLEMENT EACH OTHER, THE CONTRACTOR SHALL THOROUGHLY REVIEW BOTH BEFORE PROCEEDING WITH ANY WORK.
- ARE INTENDED TO APPLY TO SIMILAR SITUATIONS ELSEWHERE.

2. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES ON THE STRUCTURAL DRAWINGS

- 3. ALL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
- 4. ALL FRAMING MEMBERS PROVIDED FOR MECHANICAL TRADES, EQUIPMENT SUPPORT, ELEVATOR SUPPORT BEAMS, LINTELS, ROOF OPENINGS, ETC., ARE FOR BIDDING PURPOSES ONLY. SUBMIT MANUFACTURER'S DATA FOR THE ACTUAL PROPOSED EQUIPMENT TO STRUCTURAL ENGINEER FOR VERIFICATION OR REDESIGN OF SUPPORTS PRIOR TO PREPARING SHOP DRAWINGS.
- 5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS, DIMENSIONS, EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES, DEPRESSIONS AND FILLS. OPENING SIZES AND LOCATIONS FOR PIPES, DUCTS, ETC., WHEN SHOWN, ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH MECHANICAL, ELECTRICAL, PLUMBING AND OTHER COORDINATION DRAWINGS AS APPLICABLE.
- REVIEW. SUBMITTALS PREPARED BY SUPPLIERS AND SUB CONTRACTORS SHALL BE REVIEWED BY THE TRADE CONTRACTOR AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.

6. SHOP DRAWINGS AND INSTALLATION DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR

- a. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS.
- b. AND SHOW EXACT SIZE AND LOCATION OF ALL FLOOR, WALL AND ROOF OPENINGS, SLAB EDGES, EMBEDDED ANCHORS AND OTHER ITEMS. c. AND LOCATE ALL MECHANICAL SLEEVES, EMBEDS, DRAINS, ETC. ON COORDINATION
- DRAWINGS. ITEMS NOT SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER ARE NOT PERMITTED IN OR THROUGH THE STRUCTURE.
- d. COMPLETE SHOP DRAWINGS WITH MANUFACTURERS' DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK. e. ENGINEER'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH
- THE STRUCTURAL INTENT ONLY. 7. THE SPECIFICATIONS AND STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
- 8. BRACE ENTIRE STRUCTURE AND PORTIONS THEREOF AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 9. DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWEEN BASEMENT SLABS AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE IN PLACE.
- 10. BRACE WALLS WHICH ARE TIED TO SLAB ON GRADE FOR TOP LATERAL SUPPORT BEFORE BACKFILLING AND UNTIL SLAB ON GRADE HAS ATTAINED SPECIFIED STRENGTH. a. PIPE AND CONDUIT PENETRATIONS ARE TO BE SLEEVED WHEREVER POSSIBLE. CORE DRILLING OF BEAMS AND COLUMNS IS NOT PERMITTED. CORE DRILLING OF SLABS AND WALLS IS NOT PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL
- b. WHERE BEAMS OF VARIOUS DEPTHS FRAME INTO A COLUMN, PROVIDE A CONSTRUCTION JOINT AT THE BOTTOM OF THE LOWEST BEAM. c. ALL CONDUITS IN GARAGE ARE TO BE SURFACE MOUNTED.
- 11. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
- 12. THE ARCHITECT'S AND ENGINEER'S OBSERVATION AND REVIEW OF CONTRACTORS' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

G. <u>CONSTRUCTION</u>

- 1. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 2. DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWEEN BASEMENT SLABS AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE IN PLACE.
- 3. BRACE WALLS WHICH ARE TIED TO SLAB ON GRADE FOR TOP LATERAL SUPPORT BEFORE
- BACKFILLING AND UNTIL SLAB ON GRADE HAS ATTAINED SPECIFIED STRENGTH. 4. WHERE BEAMS OF VARIOUS DEPTHS FRAME INTO A COLUMN, PROVIDE A CONSTRUCTION
- 5. VERIFY EXACT SIZE AND LOCATION OF ALL WALL, FLOOR, AND ROOF OPENINGS PRIOR TO
- SUBMISSION OF SHOP DRAWINGS. SHOW ALL OPENINGS ON SHOP DRAWINGS.

H. <u>DESIGN LOADS</u>

- LIVE LOAD PODIUM LEVEL: 100 PSF.
- 2. SUPERIMPOSED DEAD LOADS CEILING AND MECHANICAL ALLOWANCE: 5 PSF SUPERIMPOSED DEAD LOAD: 80 PSF TYPICAL 480 PSF AT PLANTER PIT

JOINT AT THE BOTTOM OF THE LOWEST BEAM.

6. ALL CONDUITS IN GARAGE ARE TO BE SURFACE MOUNTED.

- SNOW LOAD GROUND SNOW LOAD: Pg = 20 PSF FLAT ROOF SNOW LOAD: P_f = 20 PSF SNOW EXPOSURE FACTOR: C_e = 1.0 SNOW LOAD IMPORTANCE FACTOR: I_S = 1.10
- THERMAL FACTOR: $C_t = 1.2$ BASIC WIND SPEED (3-SECOND GUST): Vult = 120 MPH; Vasd = 93 MPH
- RISK CATEGORY: II WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: ENCLOSED BUILDING, GCpi = ±.18
- EARTHQUAKE DESIGN DATA RISK CATEGORY: II
- SEISMIC IMPORTANCE FACTOR: $I_E = 1.0$ MAPPED SPECTRAL RESPONSE ACCELERATION: $S_S = 0.145$ MAPPED SPECTRAL RESPONSE ACCELERATION: $S_1 = 0.078$ SPECTRAL RESPONSE COEFFICIENT: S_{DS} = 0.154 SPECTRAL RESPONSE COEFFICIENT: S_{D1} = 0.125 SITE CLASS: D
- SEISMIC DESIGN CATEGORY: B BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY CONCRETE SHEAR WALL SEISMIC RESPONSE COEFFICIENT: C_S=0.0516 DESIGN BASE SHEAR: 196 KIPS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PER ASCE 7.

PROVIDE EQUALIZATION OF HYDROSTATIC FLOOD FORCES PER ASCE 24, SECTION

FLOOD DESIGN DATA ZONE AE PER FLOOD INSURANCE RATE MAP (FIRM) NUMBER 39061C0307D DESIGN FLOOD ELEVATION: 499.2' (DFE) ELEVATION OF LOWEST FLOOR: 500' FOR FULLY ENCLOSED AREA BELOW DFE, ENGINEERED OPENING IS DESIGNED TO

I. QUALITY ASSURANCE

- 1. THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH OBC CHAPTER 17 AS A MINIMUM. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:
- a. AUGER CAST PILING: ALL PILING WORK. SEE SPEC SECTION 316310.
- b. CONCRETE: ALL CONCRETE WORK. SEE SPEC SECTION 033000.
- c. REINFORCING: ALL REINFORCING WORK. SEE SPEC SECTION 033000.
- 2. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND MUST BE ACCEPTABLE TO THE BUILDING OFFICIAL. INSPECTORS SHALL THOROUGHLY REVIEW THE APPLICABLE PORTIONS OF THE
- 3. THE STRUCTURAL ENGINEER WILL GENERALLY REVIEW THE PROGRESS OF THE WORK, BUT HIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION.



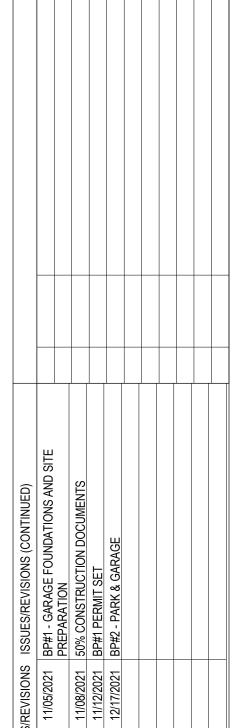
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

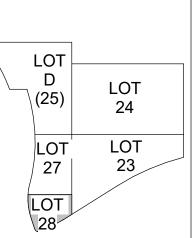


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PROJECT MANAGER M.S.M. PRINCIPAL J.M.J. CHECKED BY

TECHNICIAN

P.A.B.

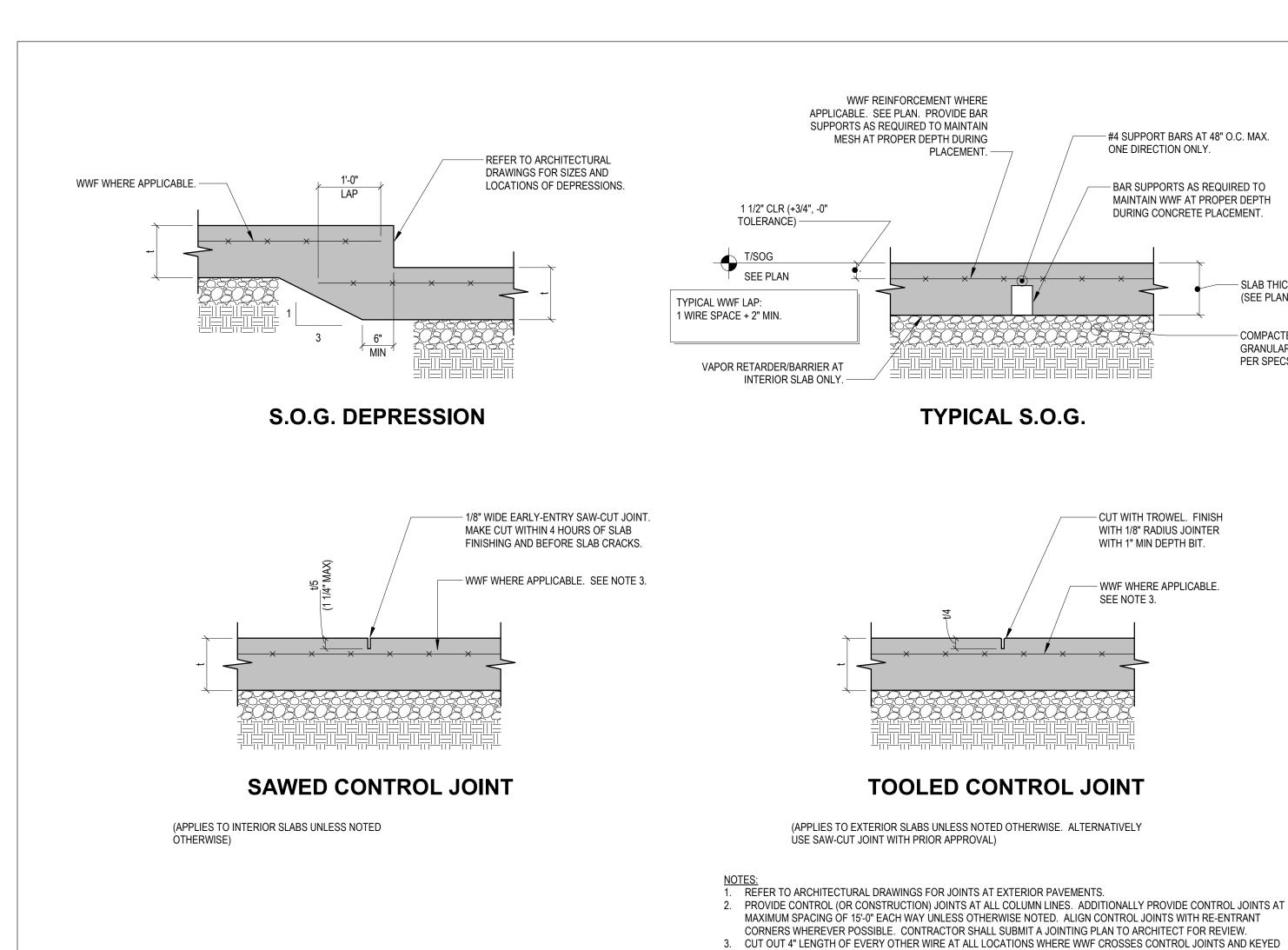


DRAWING TITLE

JOB NUMBER

GENERAL NOTES AND TYPICAL DETAILS

98090.40 DRAWING NUMBER



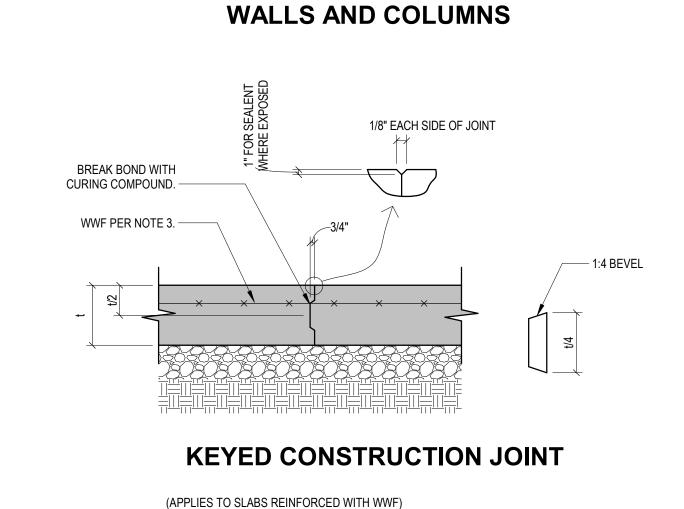
CONTSTRUCTION JOINTS.

ARCHITECTURAL DRAWINGS FOR LOCATIONS.

4. WHERE APPLICABLE, CONTROL AND CONSTRUCTION JOINTS SHALL BE ALIGNED WITH TILE JOINTS. REFER TO

SLAB ON GRADE DETAILS

5. REFER TO SPECIFICATIONS FOR GRANULAR BASE AND VAPOR RETARDER/BARRIER REQUIREMENTS.



ISOLATION JOINT AT

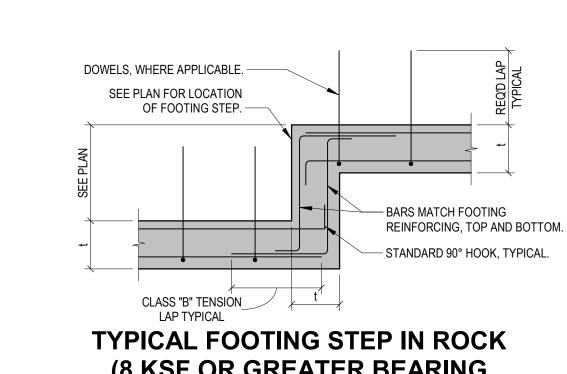
BOND BREAKER FULL DEPTH OF SLAB AT

WITH EJ MATERIAL FULL DEPTH OF SLAB

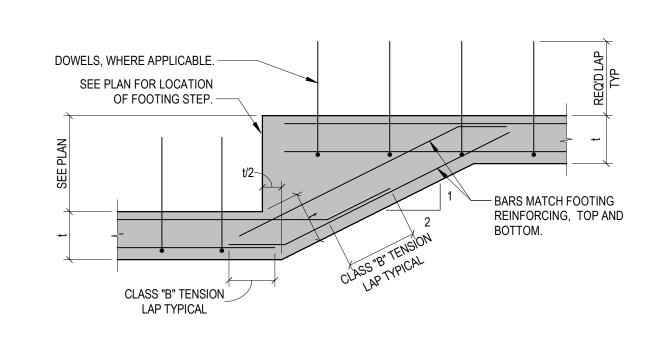
WALLS. 1/2" ISOLATION JOINT FILLED

AT COLUMNS, BOLLARDS, AND OTHER

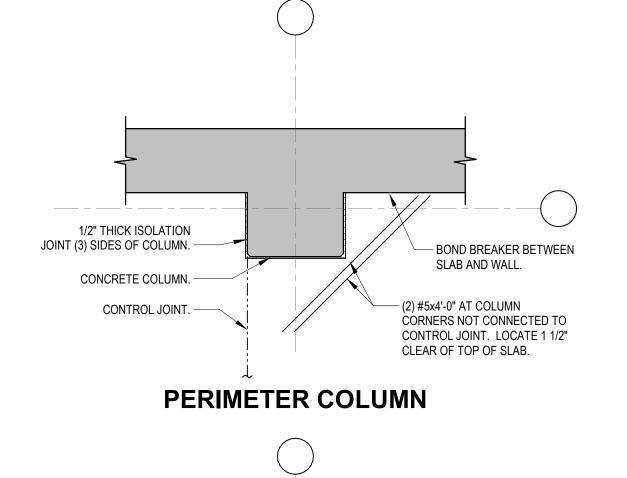
FIXED OBJECTS.

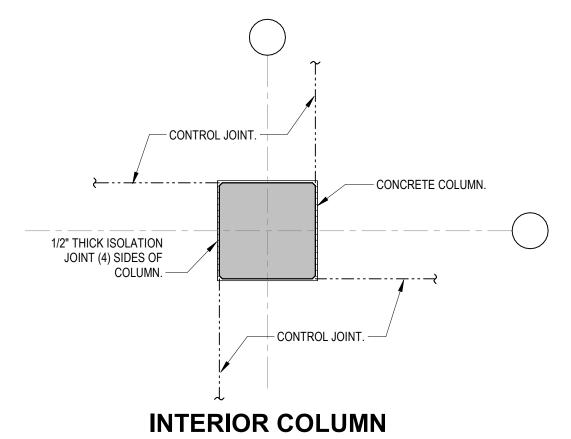


(8 KSF OR GREATER BEARING **MATERIAL**)

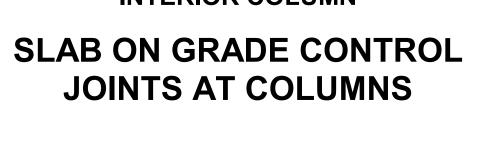


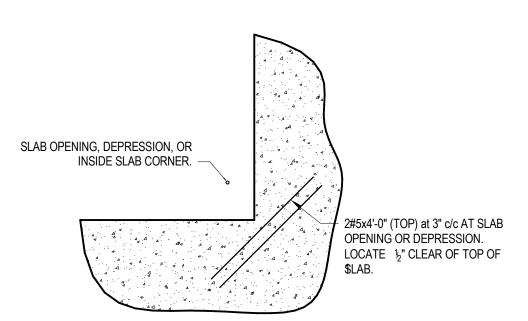
TYPICAL FOOTING STEP IN CLAY OR FILL **TYPICAL FOOTING STEPS**



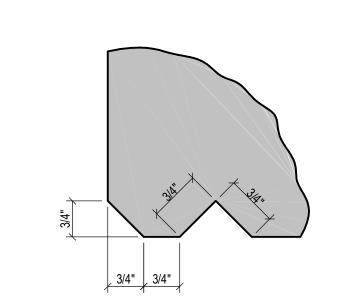


CHAMFER IS REQUIRED AT ALL FORMED CORNERS OF EXPOSED CONCRETE. 2. DRIP IS REQUIRED AT BOTTOM EDGES OF ALL SLABS AND BEAMS WHERE VERTICAL SURFACE IS EXPOSED TO RAIN AND AT OTHER LOCATIONS AS NOTED. TYPICAL CHAMFER





NOTE: DETAIL APPLIES AT BOTH ELEVATED SLABS AND SLABS ON GRADE U.N.O. TYPICAL BARS AT SLAB CORNER



REQUIRED AT BOTTOM EDGES OF ALL EXPOSED SOFFITS AND BEAMS IN PARKING GARAGE AND AS NOTED.
TYPICAL CHAMFER AND DRIP EDGE

LINTEL S	CHEDULE
CLEAR SPAN	8" CMU
LESS THAN 4'-0"	2#4 BOTTOM
BETWEEN 4'-0" AND 6'-0"	2#5 BOTTOM
BETWEEN 6'-0" AND 8'-0"	2#6 BOTTOM
BETWEEN 8'-0" AND 10'-0"	2#7 BOTTOM
MORE THAN 10'-0"	CONSULT ENGINEER
MORE THAN 10'-0" INTEL SCHEDULE NOTES: LINTELS FOR 8" CMU ARE 8" CI	

AND DRIP EDGE

TYPICAL LINTEL SUPPORT

HAMILTON COUNTY

RIVERFRONT PARKING

AND INFRASTRUCTURE

100 East Eighth Street Cincinnati, Ohio 45202

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IMPROVEMENTS

TC 24	ISSUES/REVISIONS ISSUES/REVISION 1 11/05/2021 BP#1 - GARAGE F PREPARATION 2 11/08/2021 50% CONSTRUCT 3 11/12/2021 BP#1 PERMIT SE1 4 12/17/2021 BP#2 - PARK & GA	S/REVISIONS 11/05/2021 11/08/2021 11/12/2021 12/17/2021	1 1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	BP#1 PERMIT SE	1 1	3
3 11/12/2021	PREPARATION 50% CONSTRUCT		2
11/08/2021	BP#1 - GARAGE F PREPARATION	11/05/2021	_
1 11/05/2021 2 11/08/2021 3 11/12/2021	ISSUES/REVISIO	S/REVISIONS	ISSNE

27 23 LOT 28
TECHNICIAN P.A.B.
PROJECT MANAGER M.S.M.
PRINCIPAL

P.A.B.
PROJECT MANAGER M.S.M.
PRINCIPAL J.M.J.
CHECKED BY J.Y.



DRAWING TITLE TYPICAL DETAILS

JOB NUMBER 98090.40 DRAWING NUMBER S002

	FIRST POUR	
	CENTERLINE SLAB SPAN (±24") 3/4" IN	
#5 x 4'-0" DOWELS AT 12" TOP. OMIT DOWELS WHERE TOP BARS ARE DETAILED AT MIDSPAN AND PLACE SCHEDULED BARS CONTINUOUS THROUGH JOINT.	CONTINUOUS KEY. COAT SURFACE WITH CEMENT GROUT OR BONDING AGENT.	
	BOTTOM REINFORCING CONTINUOUS THROUGH JOINT.	

ONE DIRECTION ONLY.

 BAR SUPPORTS AS REQUIRED TO MAINTAIN WWF AT PROPER DEPTH

DURING CONCRETE PLACEMENT.

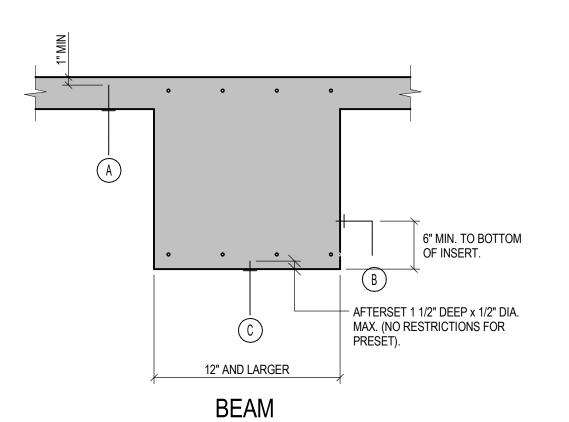
- SLAB THICKNESS

(SEE PLAN)

- COMPACTED

GRANULAR BASE PER SPECS.

SLAB CONSTRUCTION JOINT



LAP 40 BAR DIAMETERS

1. CORNER, HOOK, AND U-BARS MATCH HORZONTAL REINFORCEMENT IN SIZE AND SPACING.

TYPICAL BARS AT WALL AND FOOTING

CORNERS AND INTERSECTIONS

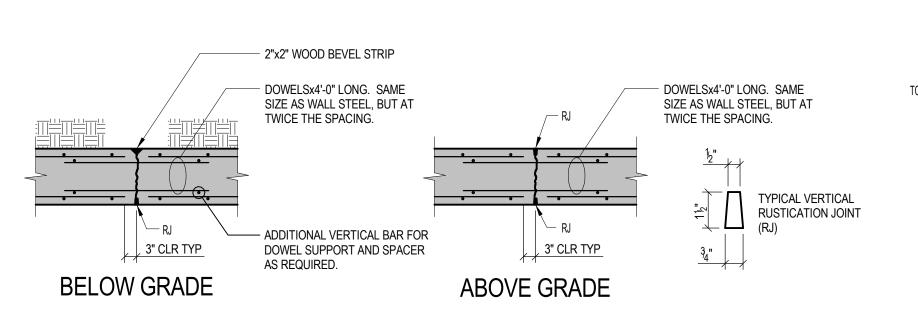
DIAMETERS

- STANDARD HOOK

	MAXIMUM ALLOWA WITHOUT SPECIA	
MARK	PRESET INSERTS - EMBEDDED (MAXIMUM LOAD)	AFTERSET INSERTS - DRILLED OR SHOT (MAXIMUM LOAD)
A	300 POUNDS	200 POUNDS
B	2000 POUNDS	200 POUNDS
0	1500 POUNDS	150 POUNDS

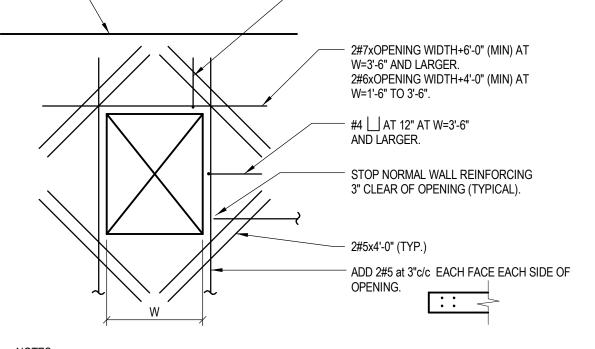
- INSERTS MUST NOT INTERFERE WITH REINFORCEMENT. MANUFACTURER'S LOAD TABLES OR DESIGN INFORMATION MUST BE SUBMITTED TO INDICATE CAPACITY OF INSERT FOR THE SPECIFIC
- 3. REFER TO DESIGN LOADS IN GENERAL NOTES FOR MAXIMUM UNIFORM ALLOWABLE LOAD FOR CEILING AND MISCELLANEOUS

TYPICAL HANGING LOADS



- 1. FORM TIES TO BE WITHIN 6" OF ANY JOINT. 2. UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN PERIMETER FOUNDATION WALLS AT
- 3. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING REQUIREMENTS. 4. DETAIL CONTROL JOINTS ON SHOP DRAWINGS. 5. LOCATE CONSTRUCTION JOINTS AT CONTROL

TYPICAL VERTICAL WALL CONTROL JOINTS



— #4 AT 8" □‡

1. SLEEVED OPENINGS 18" AND SMALLER REQUIRE NO ADDITIONAL REINFORCEMENT. PLACE DETAILED REINFORCEMENT (HORIZ. AND VERT.) EACH SIDE OF SLEEVE, 3" CLEAR. 2. FOR SINGLE LAYER WALLS USE SINGLE BARS AS SHOWN. 3. AT ROUND OPENINGS PLACE DIAGONAL BARS 3" CLEAR. 4. REINFORCE OPENINGS PER THIS DETAIL UNLESS OTHERWISE SHOWN.

WALL OPENING REINFORCEMENT



DRAWING NOTES

- A. REFER TO S000 SERIES FOR GENERAL NOTES AND TYPICAL DETAILS. B. REFER TO DRAWINGS S200 SERIES FOR FOUNDATION AND FRAMING
- C. REFER TO DRAWINGS \$301 FOR COLUMN AND PILE CAP DETAILS.
- D. TOP OF SLAB VARIES FOR DRAINAGE. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS.

- 1. EXISTING UNDERGROUND UTILITY LINES TO REMAIN. FIELD LOCATE. DO
- NOT DAMAGE. 2. TYPICAL SLAB ON GRADE CONTROL JOINT PATTERN.
- EXISTING PARK WALL. 4. PROVIDE TEMPORARY RETENTION SYSTEM AS REQUIRED TO AVOID UNDERMINING EXISTING SIDEWALK ALONG MEHRING WAY AND ELM
- 5. 1'-0" THICK SHEAR WALL REINFORCED WITH 34 AT 12" EACH FACE, EACH WAY. PROVIDE MATCHING DOWELS AT BOTTOM, HOOK AT BOTTOM AND LAP 2'-0" WITH WALL VERTICALS. HOOK WALL HORIZONTALS INTO COLUMN. AT END WITHOUT COLUMN PROVIDE ADDITIONAL REINFORCEMENT PER PLAN DETAIL 5/S201.
- BATTERED REINFORCED CONCRETE WALL. HEIGHT VARIES. ROUGHEN THE CONTACT SURFACE. DRILL AND EPOXY 4#7x5'-0" DOWELS 1'-0" INTO EXISTING PILE CAP. PLACE DOWELS IN TWO ROWS, WITH 1'-0"
- SPACING EACH WAY CENTERED AT GRADE BEAM. 8. PROTECT EXISTING SLAB ON GRADE EDGE AS NEEDED TO INSTALL
- COHESIVE SUB BASE. 9. REMOVE EXISTING SLAB ON GRADE TO INSTALL PILE CAP. PROVIDE
- TEMPORARY RETENTION SYSTEM TO AVOID UNDERMING EXISTING WALL AND COLUMNS/PILE CAP.
- 10. PILASTER. REFER TO PLAN DETAIL 9/S201 FOR INFO. 11. 1" EXPANSION JOINT AT WALL. 12. POUR WALL FOOTING INTEGRAL WITH PILE CAP OR PROVIDE DBR'S TO

RECEIVE FOOTING STEEL WITH DBR'S.

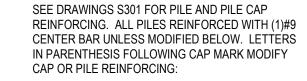


FOUNDATION PLAN LEGEND:

INDICATES EXISTING FOUNDATIONS (PILE CAPS, ETC.) THAT ARE TO REMAIN.



INDICATES NEW PILE CAP TYPE TOP OF CAP ELEVATION PILE TIP ELEVATION



(A) ADD 4#7 (LENGTH = CAP THICKNESS +20') AND (20) #3 TIÈS AT 6" AT TOP, BALANCE AT 12" PROVIDE CENTRALIZERS AT TOP AND BOTTOM OF CAGE TO CENTER IN PILE.

(B): ADD 4#7 (LENGTH = CAP THICKNESS +20') AND

- (20) #3 TIÈS AT 6" AT TOP, BALANCE AT 12" PROVIDE CENTRALIZERS AT TOP AND BOTTOM OF CAGE TO CENTER IN PILE, CENTER BAR EXTENDS TO BOTTOM OF PILE. PROVIDE #11 CENTER BAR (1" DIAMETER, 150 KSI HIGH STRENGTH BAR AT CONTRACTOR OPTION. PROVIDE STANDARD HOOK OR DONUT TERMINATOR.
- FOOTING STEP
- WALL CONTROL JOINT

T/F=XXX'-XX" INDICATES TOP OF FOOTING **ELEVATION**

EXISTING DRILLED PIER

LOT 28 GRADE BEAM SCHEDULE						
MARK	SIZE	REINFORCING	STIRRUPS			
GB1	48"x48"					
GB2	48"x48"	CEE CRARE REAM R	IAGRAM ON S301			
GB3	48"x48"	SEE GRADE BEAM D				
GB4	48"x48"					
	48"x48"	8#7 TOP	#5 (ST-4)			
GB5		8#11 BOTTOM	10 AT 12" LEFT END			
GBJ		4#9 BOTTOM 2nd LAYER	10 AT 6" RIGHT END			
		4#5 FACE, (2) EACH SIDE	BALANCE AT 16"			
	36"x36"	6#9 TOP	#5 (ST-4)			
GB6		6#11 BOTTOM	AT 12" C/C TYPICAL			
		2#5 FACE, (1) EACH SIDE	AT 8" THROUGH SOUTH PILE CA			
	48"x48"	6#11 + 2#9 TOP LEFT 6#7 TOP RIGHT	#5 (ST-4)			
GB7		6#7 BOTTOM	AT 16"C/C TYPICAL			
		4#5 FACE, (2) EACH SIDE	AT 12" IN CANTILEVER			
GB8	24"x24"	3#7 TOP AND BOTTOM	#4 (ST-3) AT 12"C/C			

GRADE BEAM SCHEDULE NOTES:

- 1. LAP TOP AND FACE BARS AT MID SPAN, UNLESS NOTED OTHERWISE. 2. HOOK ALL BARS AT FAR EDGE OF PILE CAP EXCEPT 2ND LAYER BOTTOM
- 3. BEAM STIRRUP STARTS FROM CENTERLINE OF FIRST ROW OF PILES.



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**

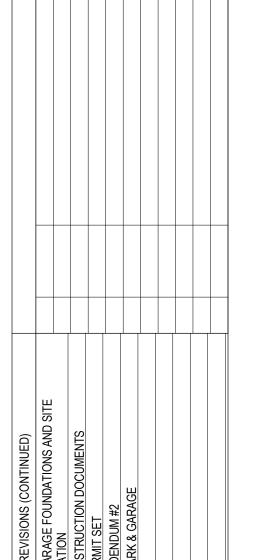


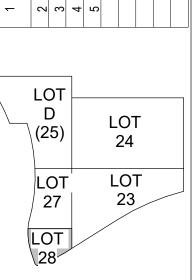
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TECHNICIAN P.A.B.



FOUNDATION PLAN

JOB NUMBER DRAWING NUMBER

S101



DRAWING NOTES

- A. REFER TO S000 SERIES FOR GENERAL NOTES AND TYPICAL DETAILS. B. REFER TO DRAWINGS S200 SERIES FOR FOUNDATION AND FRAMING
- C. REFER TO DRAWINGS S301 FOR COLUMN AND PILE CAP DETAILS.
 D. REFER TO DRAWINGS S400 SERIES FOR FRAMING DETAILS.
- E. REFER TO DRAWINGS \$500 SERIES FOR BEAM DIAGRAMS. F. TOP OF SLAB VARIES FOR DRAINAGE. REFER TO ARCHITECTURAL
- DRAWINGS FOR TOP OF SLAB ELEVATIONS.

PLAN NOTES:

- 1. 8" MIN THICK ONE WAY SLAB. BOTTOM OF SLAB LEVEL, SEE PLAN FOR SLAB SOFFIT ELEVATION. TOP OF SLAB SLOPES SEE ARCH FOR ELEVATION. SLAB REINFORCING PER PLAN.
- 2. 10" MIN THICK ONE WAY SLAB AT PLANTER AREA(SHADED). BOTTOM OF SLAB LEVEL, SEE PLAN FOR SLAB SOFFIT ELEVATION. TOP OF SLAB SLOPES, SEE ARCH FOR ELEVATION. SLAB REINFORCING PER PLAN.
- 3. 8" THICK ONE WAY SLAB AT RAMP, SLAB SLOPES PER ARCH. SLAB REINFORCING PER PLAN.
- 4. SET TOP OF WALL ADDITION TO EXISTING WALL 3 INCH BELOW SOFFIT OF CONCRETE BEAM. SEE SECTION 18/S402.
- 5. TOP SLAB STEP AT RAMP, COORDINATE WITH ARCH ON EXACT LOCATION.
- 6. RETAINING WALL, SEE S101 FOR INFO.
- 7. 1" EXPANSION JOINT IN WALL.
- 8. #4 TEMPERATURE BARS AT 12" O.C. IN 8" SLAB AND AT 10" O.C. IN 10" SLAB. ALTERNATE PLACEMENT AT TOP AND BOTTOM SLAB. HOOK AT DISCONTINUOUS EDGE.
- 10. FAN LAYOUT SLAB BARS WITHIN 5'-0" WIDE WIDTH ALONG THE SKEWED
- 9. SLAB SOFFIT STEP ALONG RAMP.

EDGE ON SOUTH. MAINTAIN SCHEDULED REBAR SPACING AT MID SPAN.

12. TRENCH DRAIN IN SLAB SEE DETAIL 19/S402 FOR INFO.

11. REFER TO ARCH. FOR TOP OF SHEARWALL ELEVATION.

13. BEAM BOX OUT. REFER TO REINFORCEMENT AT BOX OUT ON S501.

FRAMING PLAN LEGEND:

SLAB STEP

SLAB SYSTEM, SEE SCHEDULE

TOP OF SLAB ELEVATION

TOP OF COLUMN ELEVATION

COLUMN MARK, SEE SCHEDULE

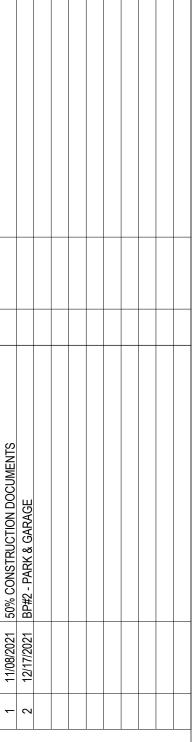


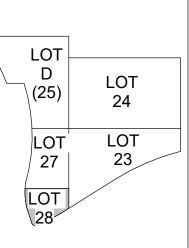
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**



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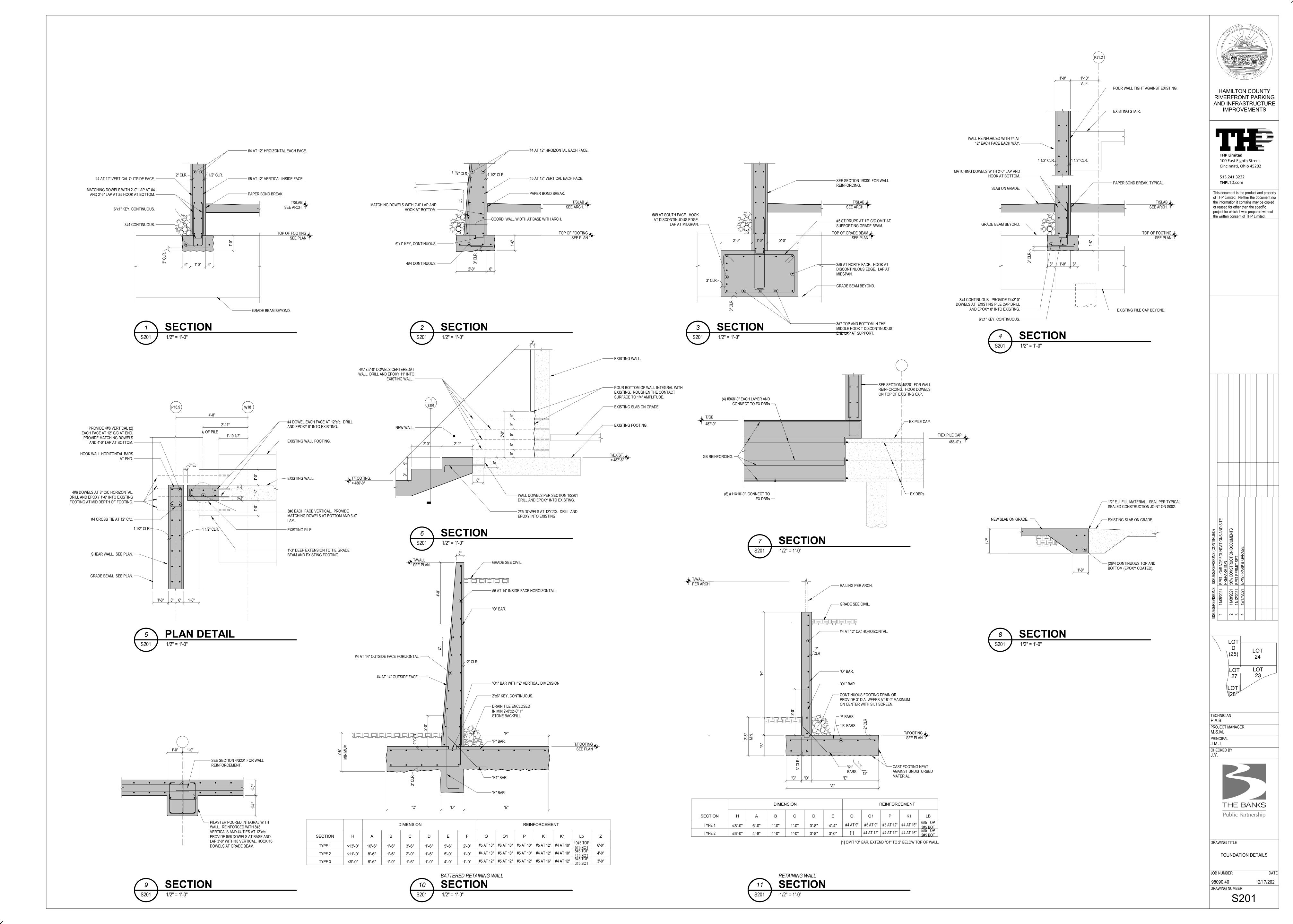


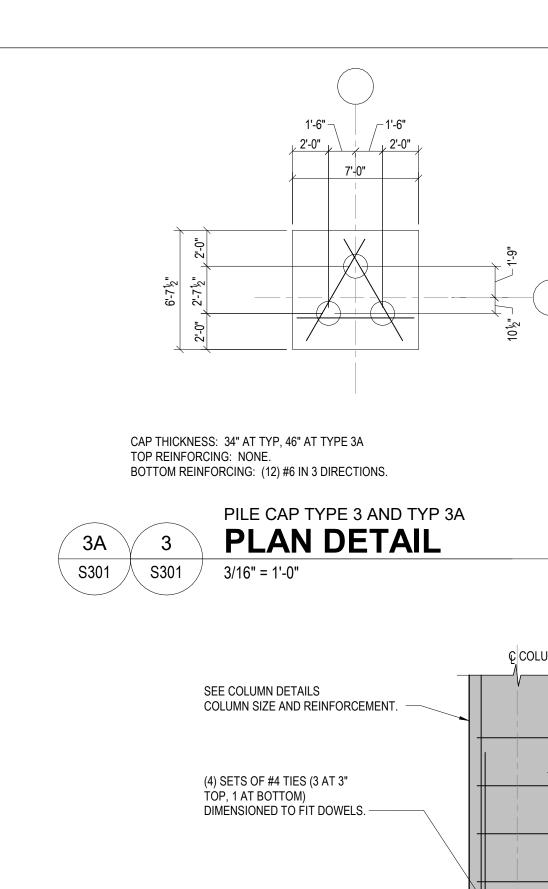


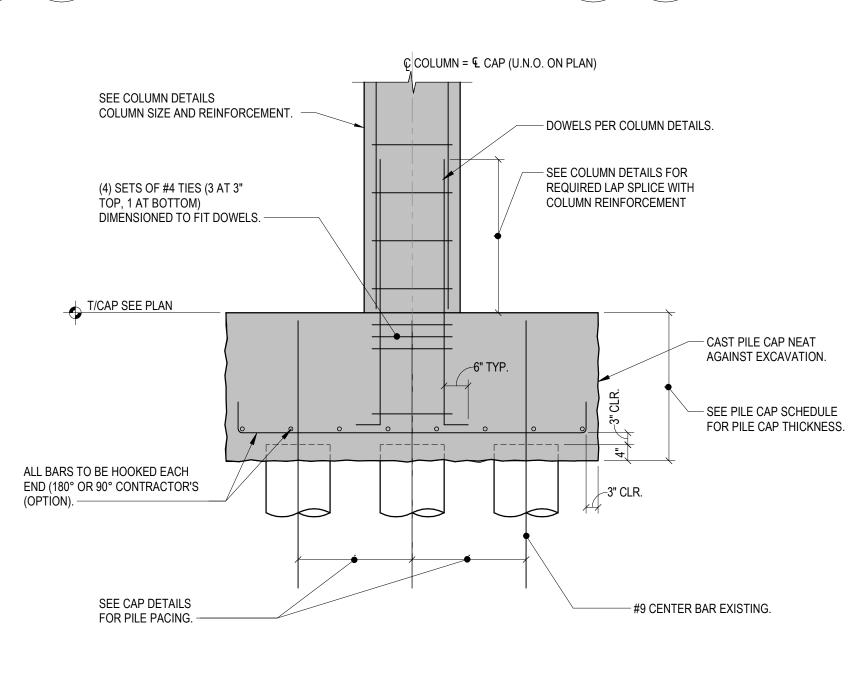


DRAWING TITLE UPPER LEVEL (503) FRAMING PLAN

JOB NUMBER DRAWING NUMBER S102







TYPICAL PILE CAP **SECTION**

S301

CAP THICKNESS: 38" AT TYP 4 AND 50" AT TYPE 4A

PILE CAP TYPE 4 AND TYPE 4A

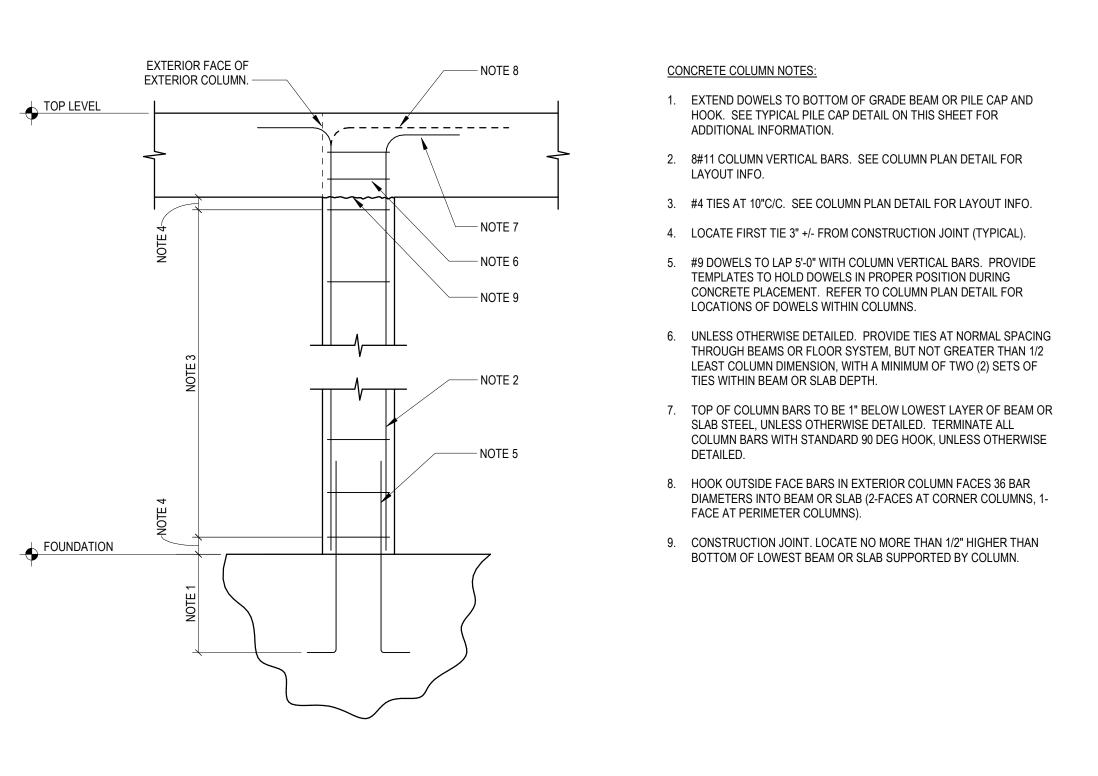
PLAN DETAIL

BOTTOM REINFORCING: (13) #7 EACH WAY.

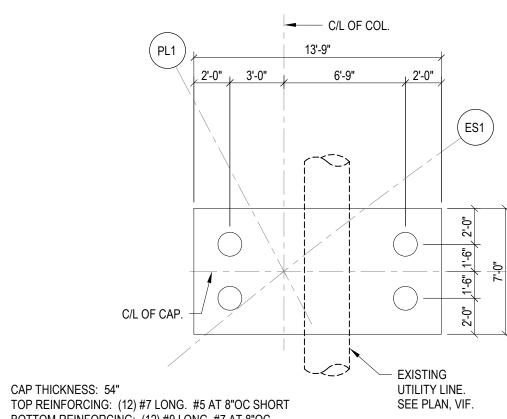
TOP REINFORCING: NONE.

S301

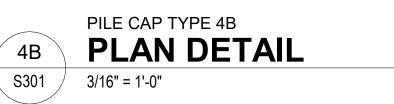
S301 /

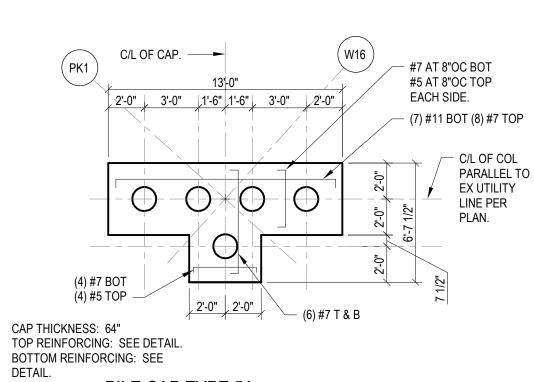


CONCRETE COLUMN DETAIL



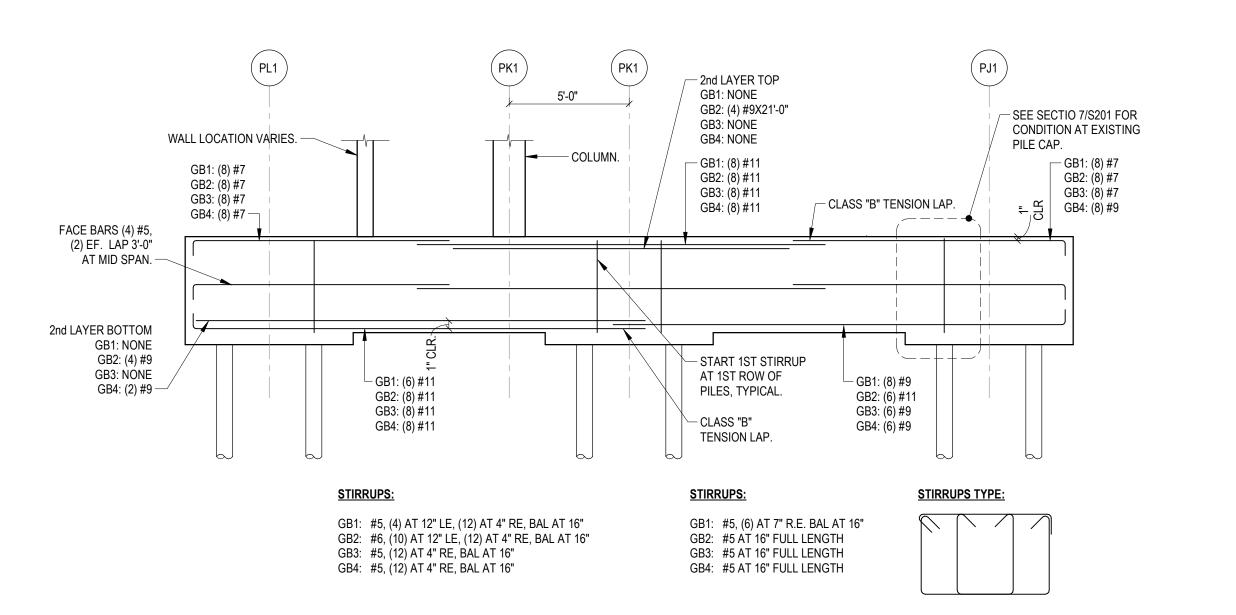
TOP REINFORCING: (12) #7 LONG. #5 AT 8"OC SHORT BOTTOM REINFORCING: (12) #9 LONG. #7 AT 8"OC



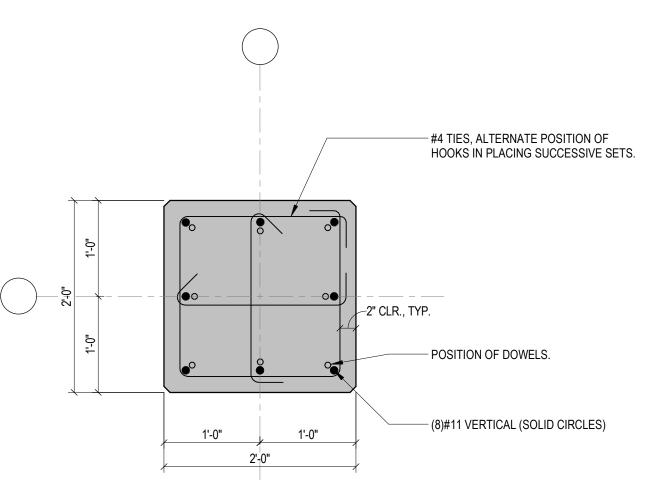


BOTTOM REINFORCING: SEE PILE CAP TYPE 5A

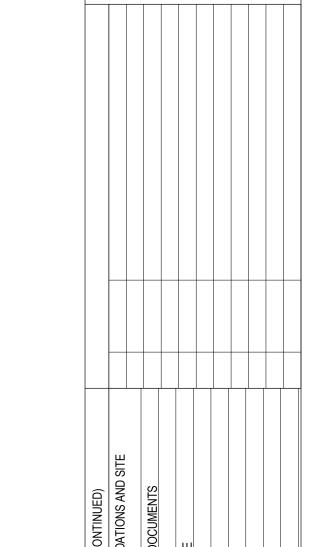




GRADE BEAM DIAGRAM



NOTE: ALL COLUMN REINFORCING SHALL BE EPOXY COATED **COLUMN PLAN DETAIL**



HAMILTON COUNTY

RIVERFRONT PARKING

AND INFRASTRUCTURE

IMPROVEMENTS

THP Limited

513.241.3222

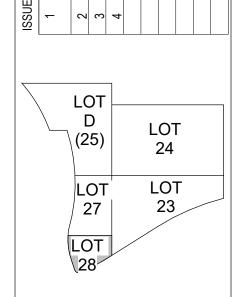
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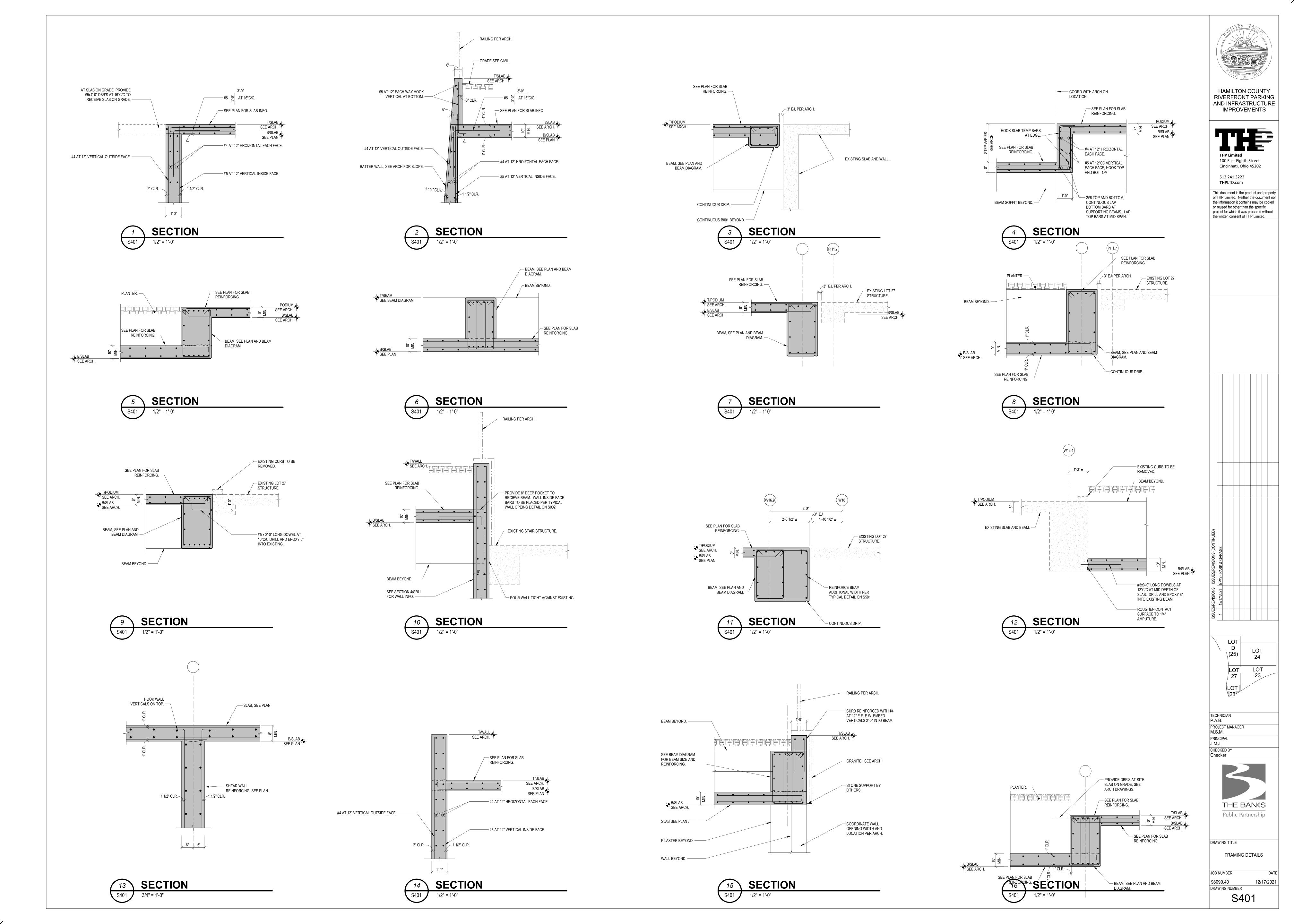


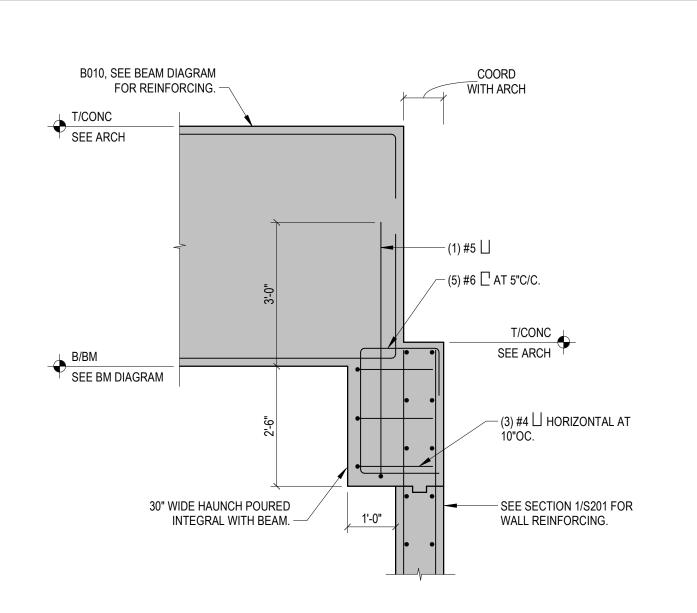
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PRINCIPAL J.M.J.
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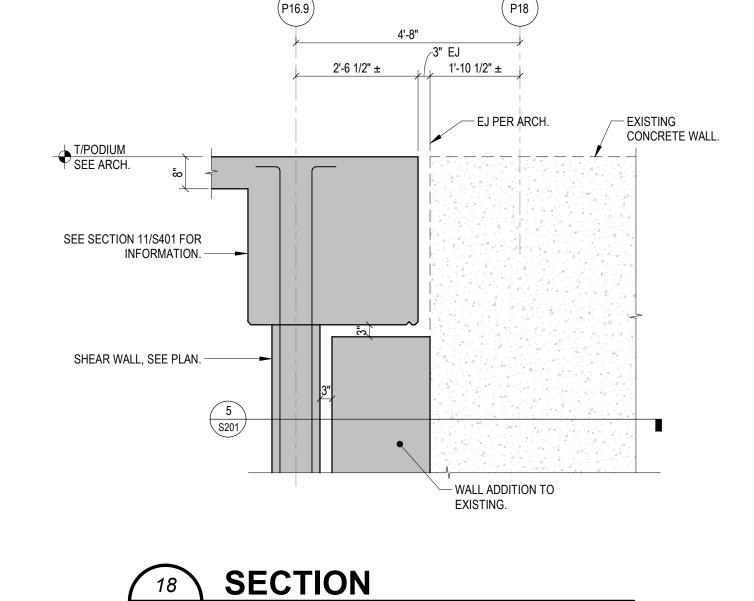
PILE CAP AND COLUMN DETAILS

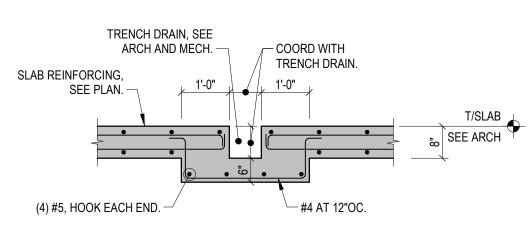
JOB NUMBER DRAWING NUMBER S301





SECTION







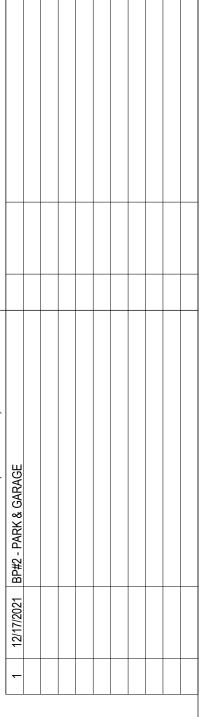


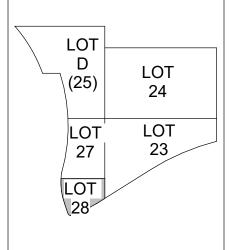
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



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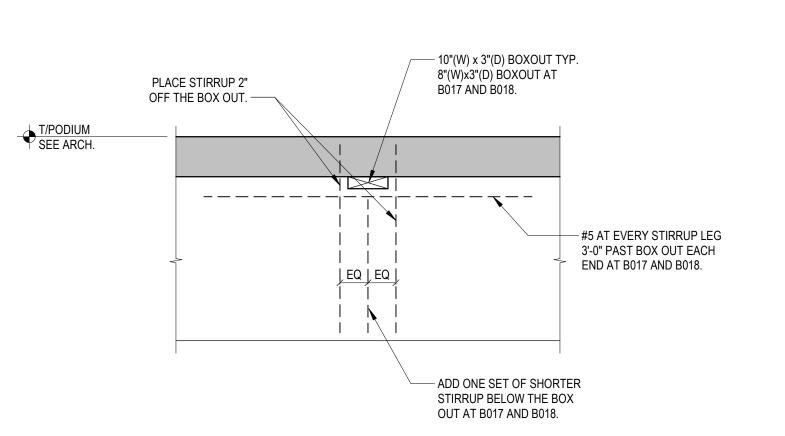


DRAWING TITLE
FRAMING DETAILS

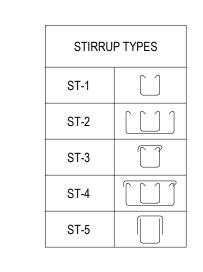
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98090.40 12/17/202

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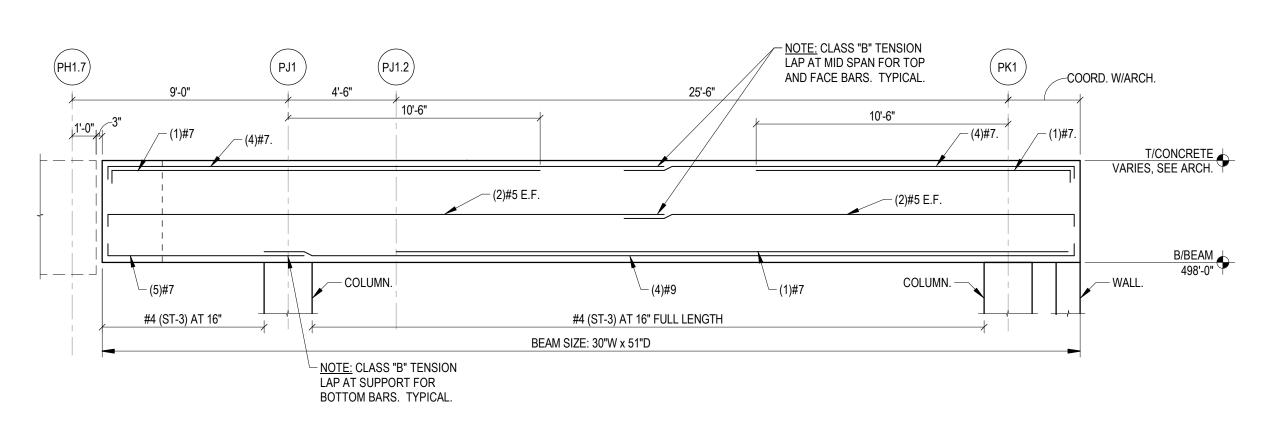
S402



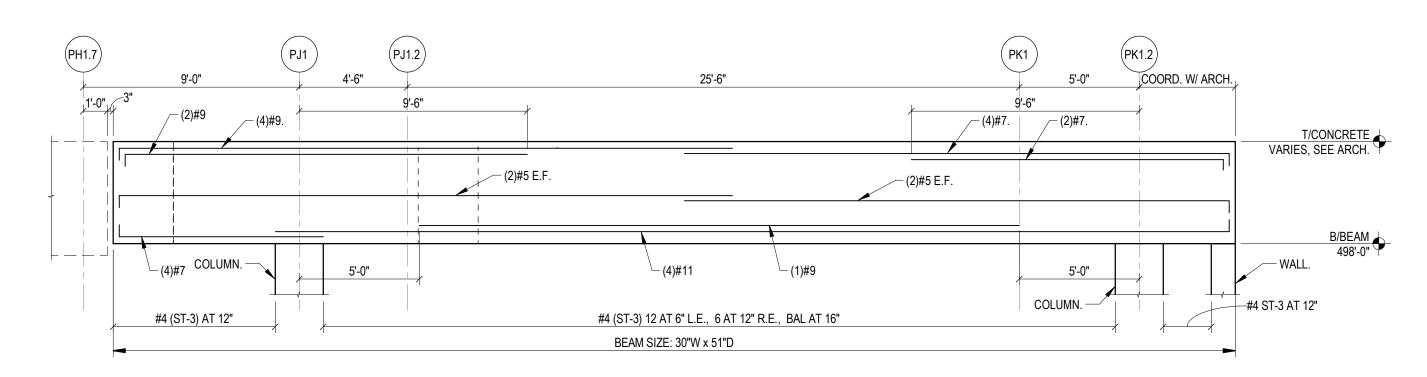
REINFORCEMENT AT BEAM BOX OUT



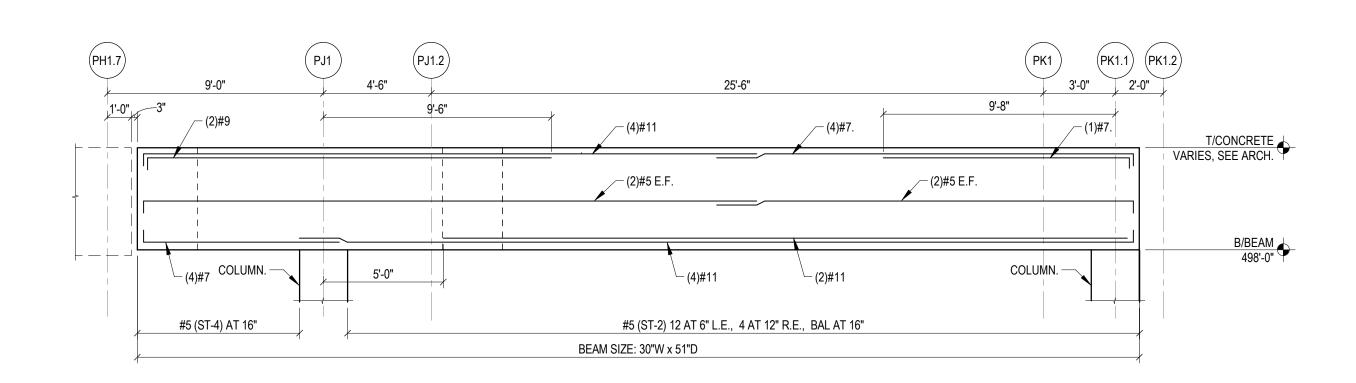
NOTE: BEAM SIZE NOTED ON BEAM DIAGRAM ARE FOR REBAR FABRICATION ONLY. BEAM TOP COVER VARIES, 1 1/2" MINIMUM.



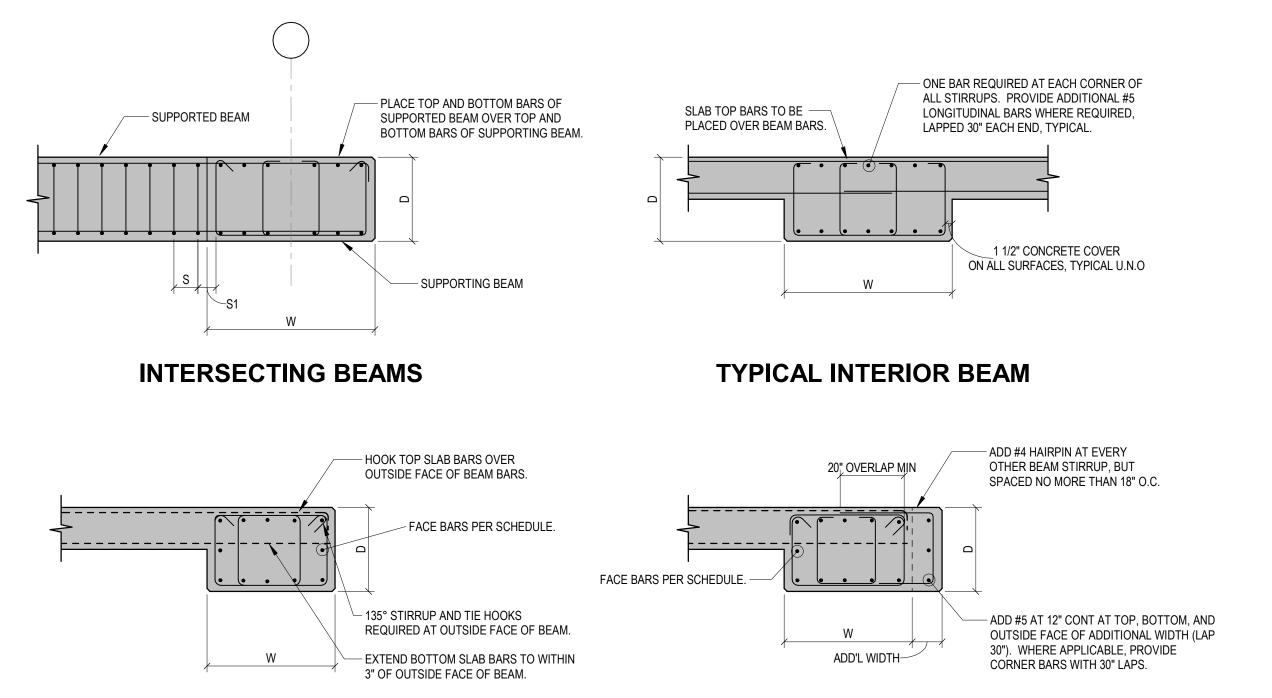




GRID LINE W16 BEAM DIAGRAM S501



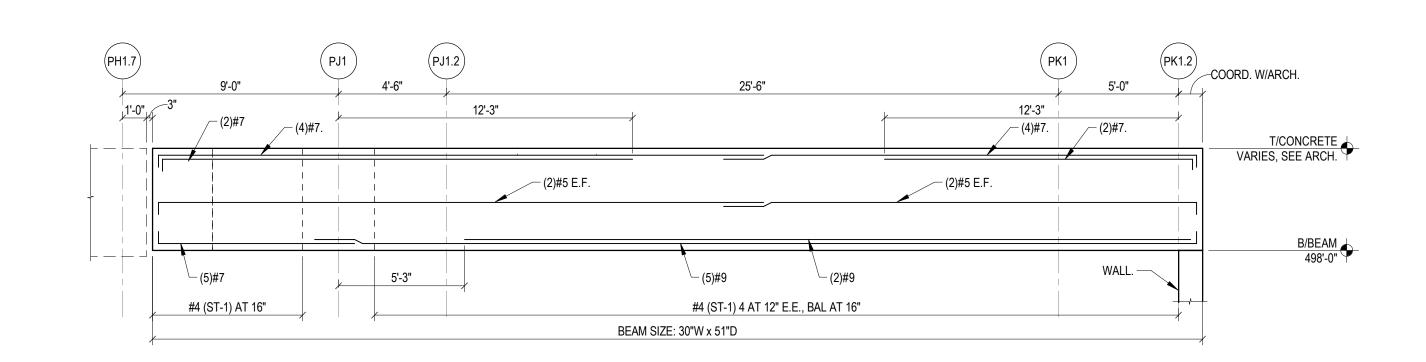




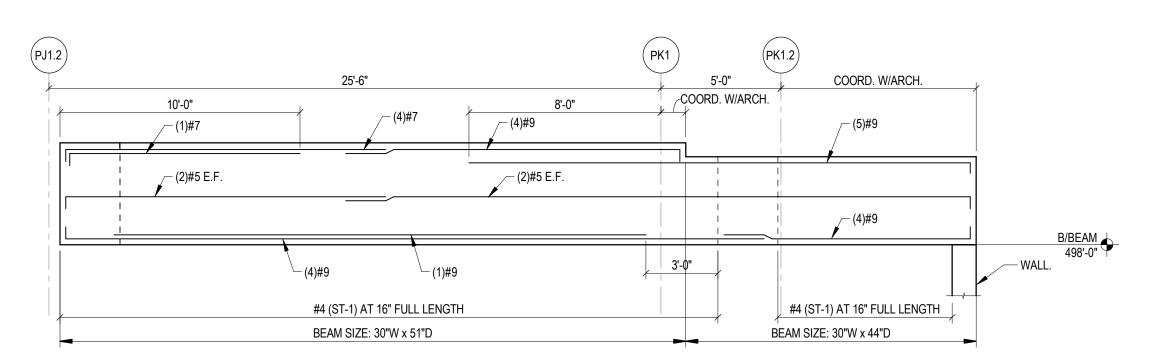
TYPICAL EXTERIOR BEAMS WITH ADDITIONAL WIDTH

TYPICAL BEAM BAR PLACEMENT

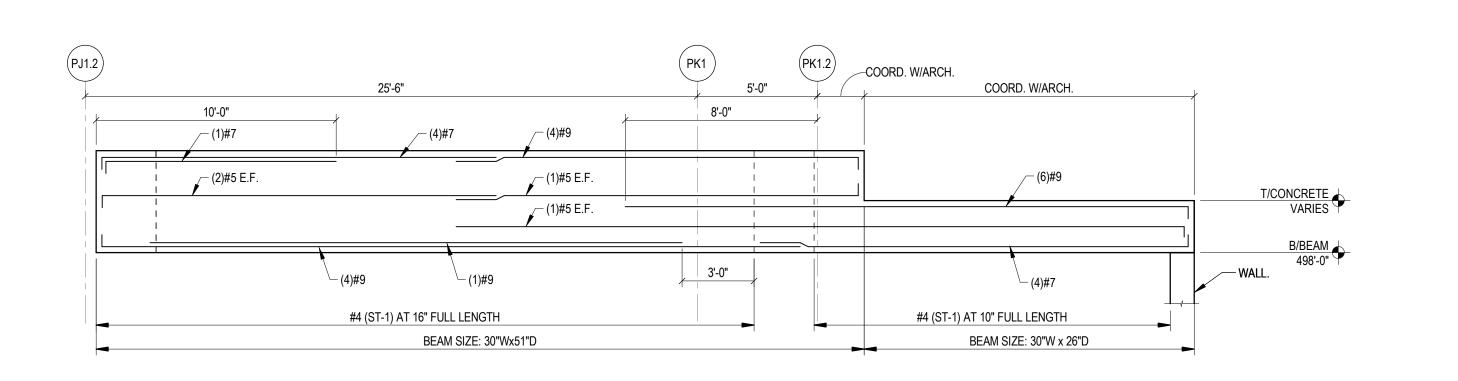
NOTES: 1. TOP, BOTTOM AND FACE BARS SHALL BE EQUALLY SPACED ACROSS WIDTH AND DEPTH OF BEAM UNLESS NOTED OTHERWISE. 2. SPACE VERTICAL LEGS OF MULTIPLE LEG STIRRUPS EQUALLY ACROSS WIDTH OF BEAM UNLESS NOTED OTHERWISE.















HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**

FIRST POUR

NOTES:

1. LOCATION OF SLAB AND BEAM CONSTRUCTION JOINTS SHALL BE SHOWN ON THE

BEAM CONSTRUCTION JOINT

2. LOCATIONS OF JOINTS TO BE APPROVED BY THE STRUCTURAL ENGINEER.

REINFORCING STEEL SHOP DRAWINGS.

ALL SCHEDULED BEAM REINFORCEMENT SHALL

CONSTRUCTION JOINT. -

COAT SURFACE WITH CEMENT

GROUT OR BONDING AGENT. -

BE CONTINUOUS THROUGH

CENTERLINE BETWEEN SUPPORTS (+/- 24")

- PROVIDE ONE ADDITIONAL STIRRUP AT

ONE STIRRUP LEG PER 12" OF BEAM

EACH SIDE OF CONSTRUCTION JOINT (MIN.

- STOP KEYS 3" CLEAR OF BEAM FACES.

— ADD #5 x 4'-0" DOWELS EACH FACE AND

SPACE EQUALLY WITHIN DEPTH OF BEAM

AT 18" O.C. ACROSS WIDTH OF BEAM.

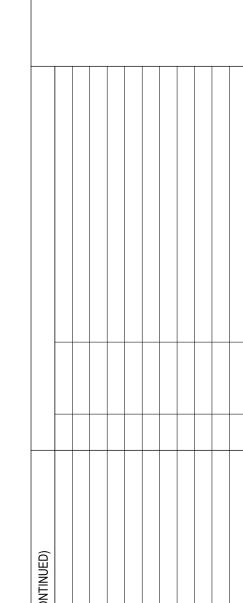
AT MAXIMUM 12" O.C.

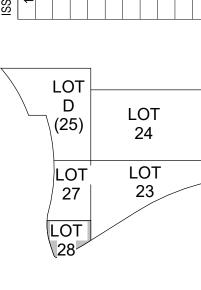
- MAXIMUM NUMBER OF 3/4"x2" KEYS

AT 4" O.C. BETWEEN TOP AND BOTTOM BEAM REINFORCEMENT.



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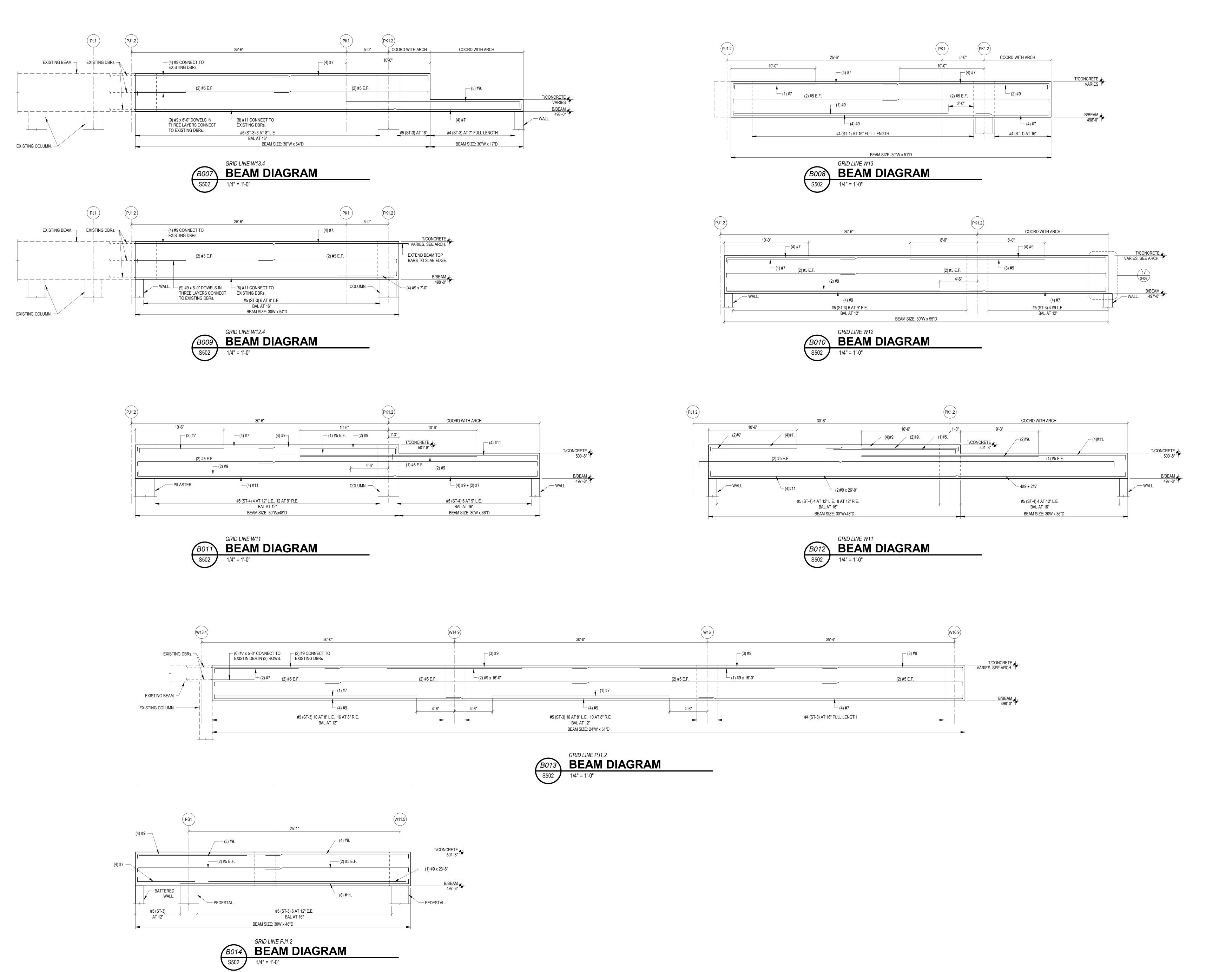


TECHNICIAN P.A.B. PROJECT MANAGER M.S.M. PRINCIPAL J.M.J. CHECKED BY J.Y.



DRAWING TITLE TYPICAL BEAM DETAILS AND BEAM DIAGRAMS

JOB NUMBER 98090.40 DRAWING NUMBER S501







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LOT D LOT 24

LOT LOT 27

LOT 23

LOT 28

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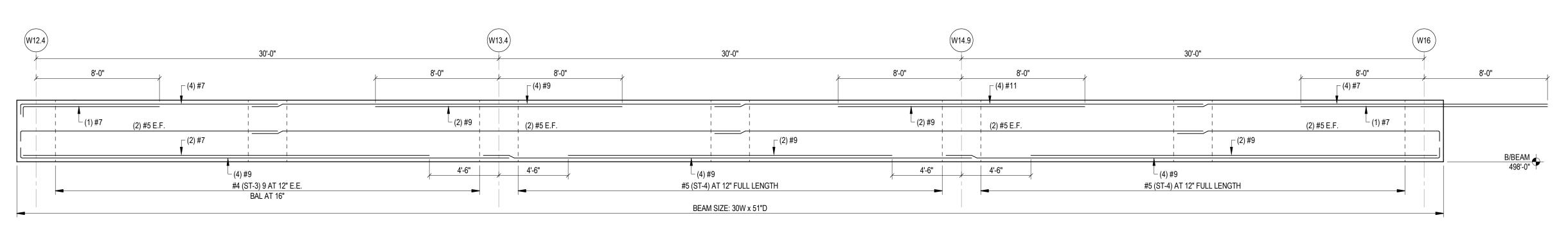


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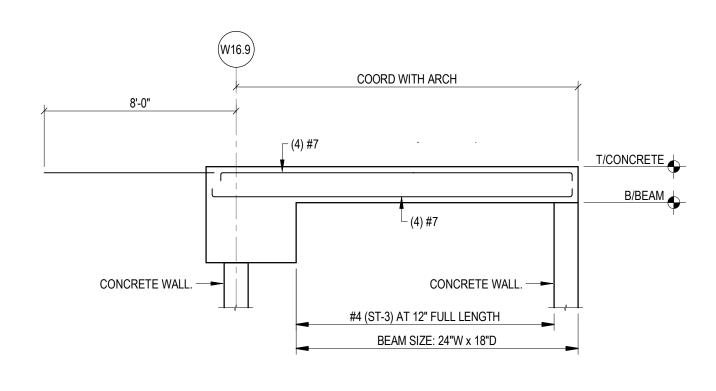
BEAM DIAGRAMS

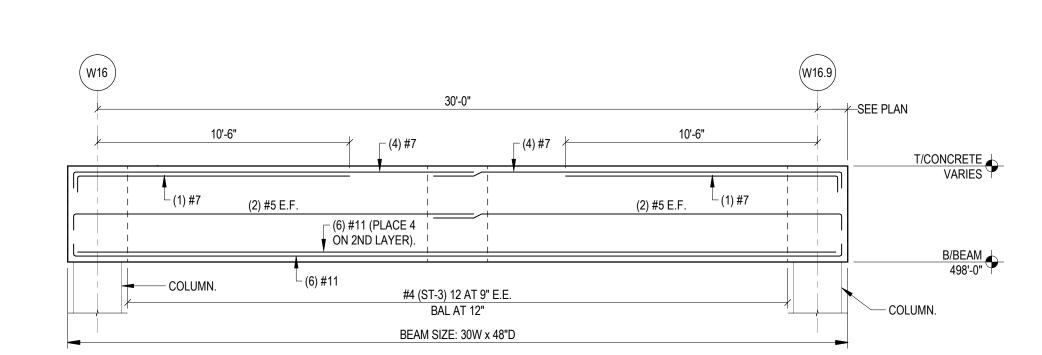
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98090.40 12/17/202
DRAWING NUMBER

S502



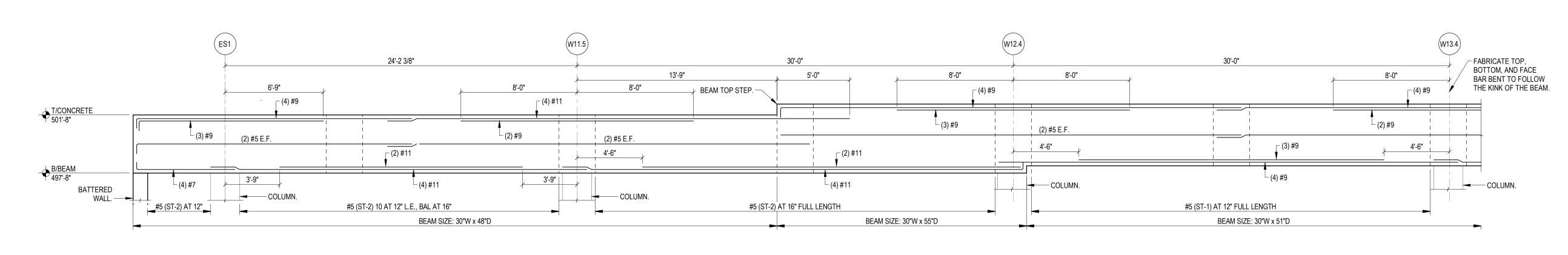


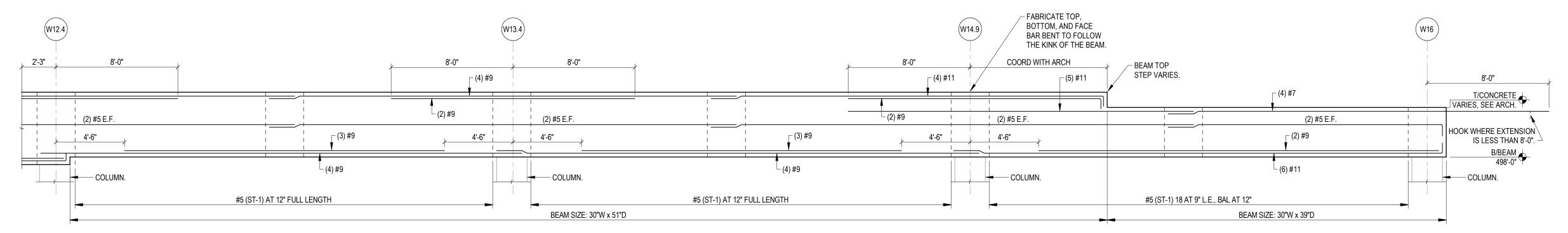




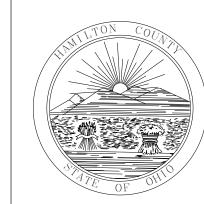






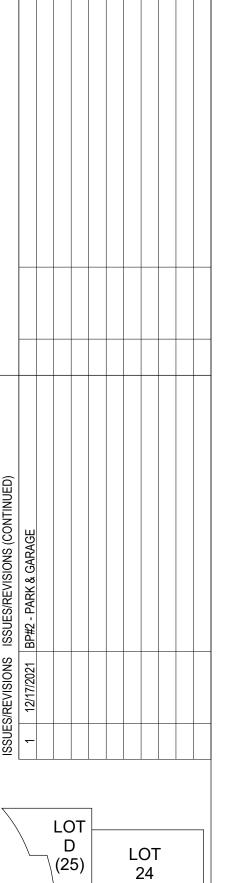


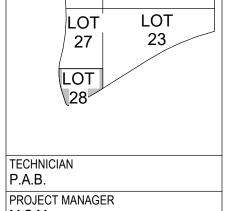






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DRAWING TITLE

JOB NUMBER DA'
98090.40 12/17/202
DRAWING NUMBER

BEAM DIAGRAMS

\$503

FIRE SUPPRESSION DESIGN NOTES

- A DESIGN AND INSTALL AUTOMATIC DRY PIPE STANDPIPE/SPRINKLER SYSTEM THROUGHOUT ALL AREAS OF THE GARAGE AS INDICATED ON THE DRAWINGS AND AS OUTLINED IN THE SPECIFICATIONS. PIPE SLOPES SHALL BE PER NFPA 13.
- B BASIS FOR DESIGN IS ORDINARY HAZARD OCCUPANCY, GROUP 1.
- C MINIMUM AREA OF OPERATION FOR ORDINARY HAZARD SYSTEMS SHALL BE 1500 SQUARE FEET, 0.15 GPM/SQ. FT., 130 SQUARE FEET MAXIMUM PER SPRINKLER, 250 GPM HOSE STREAM ALLOWANCE. APPROPRIATE AREA ADJUSTMENTS FOR QUICK RESPONSE SPRINKLERS
- AND DRY PIPE SYSTEMS SHALL BE UTILIZED. D EXERCISE SPECIAL CARE TO COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER
- E PIPING DOWNSTREAM OF FIRE PUMP TO BRANCH SERVING FIRST 2.5" FIRE DEPARTMENT VALVE SHALL BE INSTALLED AS SIZED.
- F ALL OTHER PIPING SHOWN SHALL BE INSTALLED AS SIZED UNLESS HYDRAULIC CALCULATIONS INDICATE PIPING MAY BE SMALLER. FOR PIPING NOT SHOWN OR SIZED ON THE DRAWINGS, PIPE SIZING SHALL BE BASED ON FSC'S HYDRAULIC CALCULATIONS. MINIMUM SPRINKLER PIPING
- G SPRINKLERS SHALL BE ALL BRASS UPRIGHT PENDENT TYPE SPRINKLERS UNLESS OTHERWISE INDICATED. ALL SPRINKLERS LOCATED IN PODIUM LEVEL CEILINGS OF STAIRWAYS SHALL BE RECESSED TWO-PIECE ADJUSTABLE PENDENT QUICK RESPONSE TYPE.
- H ALL HORIZONTAL PIPING SHALL BE SLOPED TO DRAIN. CARE SHALL BE TAKEN TO AVOID TRAPS, DIPS IN PIPE, AND OTHER PIPE CONFIGURATIONS WHICH HINDER SYSTEM DRAINAGE. MAINS AND BRANCH MAINS RUNNING EAST OR WEST SHALL BE INSTALLED AT LOWEST PART
- FOR MICROBIAL INFLUENCED CORROSION (MIC) ORGANISMS PER SPECIFICATION REQUIREMENTS. J PERFORM A FLOW TEST AND OBTAIN APPROVAL FROM GOVERNING AUTHORITIES PRIOR TO STARTING WORK.

I PRIOR TO INTRODUCING WATER TO SYSTEM, SAMPLES OF WATER SHALL BE TAKEN AND TESTED

- K PIPE SIZES AND HYDRAULIC CALCULATIONS SHALL PROVIDE FOR CONNECTION OF 2.5" HOSE VALVES AS SHOWN ON PLANS. DESIGN SHALL MEET REQUIRED 50 SECOND FLOW TEST FOR DRY PIPE SYSTEMS. HYDRAULIC CALCULATIONS SHALL UTILIZE FLOW CURVE OF SPECIFIED FIRE PUMP. MINIMUM SIZE OF COMBINED STANDPIPE/SPRINKLER SYSTEM PIPING SHALL BE 6" UNLESS HYDRAULIC CALCULATIONS INDICATE SMALLER PIPING MAY BE USED.
- L SPRINKLERS SHALL BE PROVIDED IN ELEVATOR MACHINE ROOMS AND SHAFT TOPS PER SPECIFICATIONS.
- M PROVIDE HEAT TRACE, INSULATION, AND PVC JACKET (SEE INSULATION SPECS) FOR FREEZE PROTECTION ON ALL EXPOSED PORTIONS OF WATER SERVICE PIPING LOCATED IN UNHEATED AREAS OF GARAGE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- N INDICATED DRAINAGE LOCATION ARE NOT EXHAUSTIVE. CONTRACTOR SHALL PROVIDE MEANS OF DRAINING ALL DRY PIPE SYSTEM PIPING.

— CONCENTRIC REDUCER

— CONCENTRIC REDUCER

3" x 12" NIPPLE

└─ 2" NIPPLE & PLUG

A DRUM DRIP DRAIN ASSEMBLY SCALE: NONE

○ NOTES

PRE-MANUFACTURED DRUM DRIP ASSEMBLIES MAY BE USED IN LIEU OF INDIVIDUAL COMPONENTS.

GENERAL NOTES

- A IN THE PARKING GARAGE AREAS, ALL BRANCH PIPING SHALL BE INSTALLED WITHIN 0'-6" TO 1'-0" BELOW STRUCTURE OR CONFLICTING EQUIPMENT/PIPING OF OTHER TRADES. ALL MAIN PIPING SHALL BE INSTALLED WITHIN 0'-9" TO 1'-6" BELOW STRUCTURE, COLUMNS, COLUMN DROPS, OR CONFLICTING EQUIPMENT. NO PIPING, FITTINGS, HANGERS, OR OTHER ASSOCIATED EQUIPMENT SHALL BE BELOW 8'-4" ABOVE FINISHED FLOOR ELEVATION UNLESS OTHERWISE INDICATED.
- SPOT ELEVATIONS ARE FOR INFORMATION ONLY. NO PIPING SHALL BE INSTALLED WITHOUT REVIEW AND APPROVAL OF LAYOUT BY ARCHITECT AND ENGINEER. B ALL PIPING IS AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS OTHERWISE NOTED.
- REFER TO SCHEDULES, DETAILS AND SCHEMATICS FOR PIPING, PIPE SIZES AND
- PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.
- D UNLESS OTHERWISE NOTED, ABOVE GROUND PIPE ELEVATIONS ARE TO CENTER OF PIPE. E FIRE SUPPRESSION PIPING NOT SHOWN ON DRAWINGS SHALL NOT PASS THROUGH SHEAR WALLS UNLESS LOCATION IS APPROVED BY STRUCTURAL ENGINEER PRIOR TO ANY PENETRATION WORK BY FSC. FOR PIPING PENETRATIONS THROUGH SHEARWALLS SHOWN ON DRAWINGS, SUBMIT SLEEVE DRAWING WITH EXACT LOCATION SHOWN FOR APPROVAL BY STRUCTURAL ENGINEER.
- HOUSEKEEPING PADS SHALL BE PROVIDED FOR AIR COMPRESSORS AND FIRE PUMPS. PADS SHALL BE INSTALLED PER SPECIFICATIONS.

LEGEND

- PLUMBING CONTRACTOR
- FIRE SUPPRESSION CONTRACTOR HVAC CONTRACTOR
- ELECTRICAL CONTRACTOR "CONNECT TO EXISTING" SYMBOL
- "DETAIL NOTE" SYMBOL (FOR NOTES ON SAME DETAIL)
- "NOTE" SYMBOL (FOR NOTES ON SAME SHEET)
- COMBINATION FIRE SUPPRESSION AND DOMESTIC WATER SERVICE
- FIRE SUPPRESSION PIPE FIRE RISER
- SPRINKLER PIPE (DRY)
- ——₩——
- SHUTOFF VALVE
- SUPERVISED VALVE
- FIRE DEPARTMENT CONNECTION (STORZ) FIRE DEPARTMENT VALVE (2.5" CINCINNATI STD.)
- BACKFLOW PREVENTER

○ PLAN NOTES

- 1 DASHED LINE INDICATES LIMITS OF NEW DRY PIPE SPRINKLER SYSTEM. THE FIRE SUPPRESSION CONTRACTOR SHALL PROVIDE DRY PIPE SYSTEM EXTENDED FROM ADJACENT
- EXISTING SYSTEM AS INDICATED. 2 PROVIDE TIE-IN INTO EXISTING ZONE#6 DRY PIPE SYSTEM AND EXTEND INTO NEW SPACE AS
- INDICATED. EXISTING SQUARE FOOTAGE OF ZONE #6 IS 40,000. ADDITIONAL SQUARE FOOTAGE FOR THIS PROJECT IS 8700 FOR A GRAND TOTAL SQUARE FOOTAGE OF 48,700.
- 3 FIRE DEPARTMENT VALVE (FDV) LOCATED APPROXIMATLY 82' DUE NORTH OF THIS LOCATION. LINEAR FOOTAGE PER NFPA 13 ALLOWS THIS SPACE TO BE SERVED BY THIS FDV.
- 4 PROVIDE DRUM DRIP DEVICE TO SERVE NEW DRY PIPE SPRINKLERS WITHIN THIS AREA.
- 5 PROVIDE PIPING AT 500.50' +/-.
- 6 PROVIDE SLEEVE CAST IN PLACE IN BEAM FOR ALL SPRINKLER MAINS AND BRANCH PIPING. CENTERLINE ELEVATION APPROXIMATELY 499.83'. COORDINATE FINAL SLEEVE ELEVATION AND INSTALLATION REQUIREMENTS WITH DECKING CONTRACTOR. COORDNATE WITH ARCHITETCURLA AND STRUCTURE DRAWINGS.
- 7 EXISTING DRY PIPE SPRINKLER PIPING ZONE #6 (TO REMAIN).
- 8 SPRINKLER COVERAGE SHALL BE PROVIDED BENEATH EXISTING STAIRS (FUTURE STORAGE



HAMILTON COUNTY

RIVERFRONT PARKING

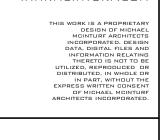
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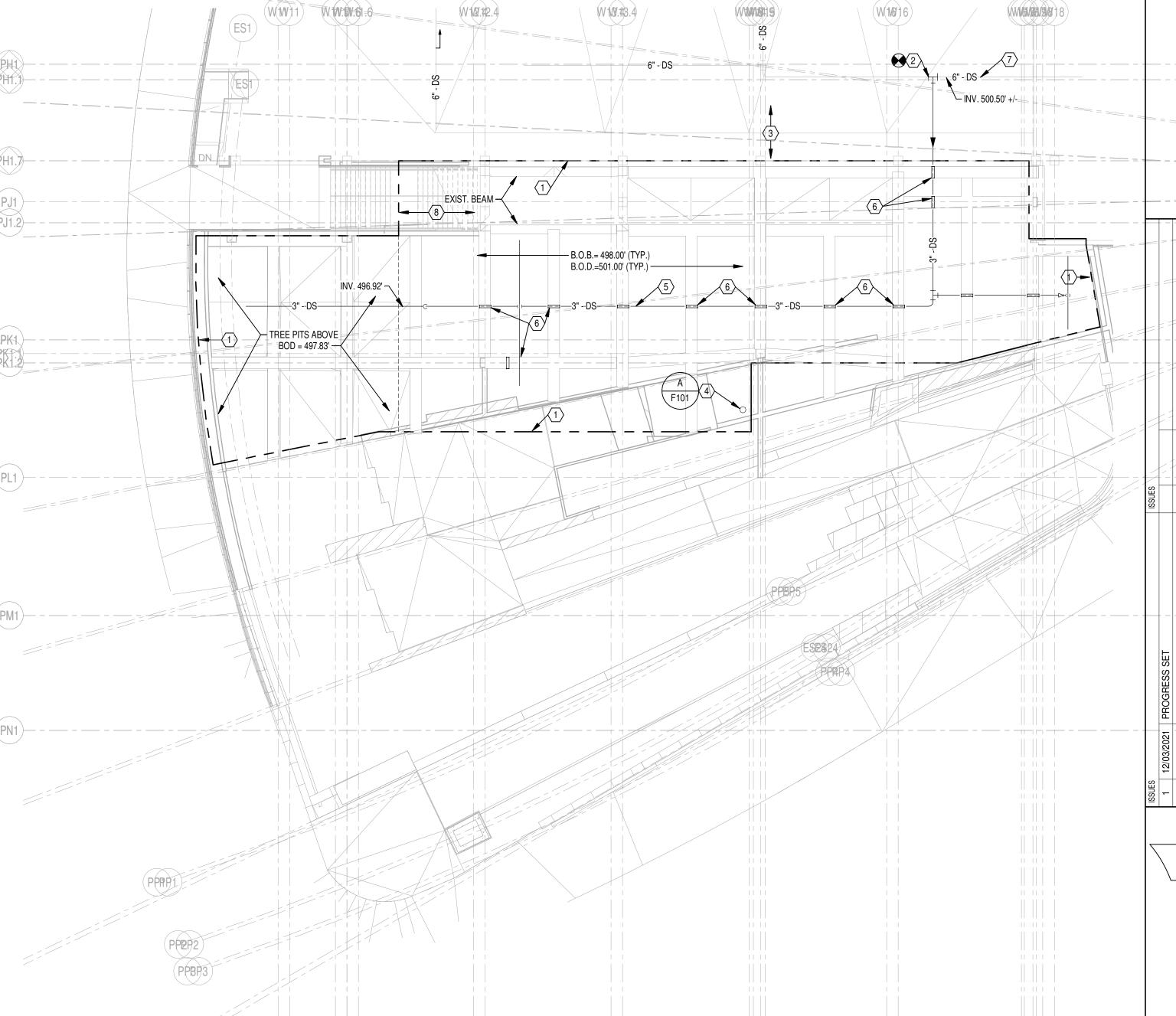
IMPROVEMENTS THP Limited, Inc. Cincinnati Cleveland

Cincinnati, Ohio 45202 Phone: 513.241.3222 www.thpltd.com MMA michael mcinturf ARCHIT

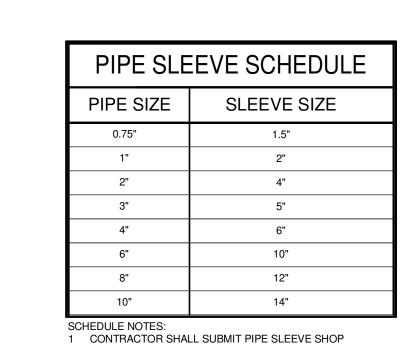
100 East Eighth Street

1116 RACE ST CINCINNATI, OH 45202 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM









DRAWINGS FOR APPROVAL PRIOR TO DECK FORMING

APPROVAL AND CONSTRUCTION.

WATER HYDRANT FLOW TEST DATA FLOW TEST INFORMATION PERFORMED ON March of 2016 SHALL BE USED FOR BASIS OF BIDDING ONLY. FSC SHALL PERFORM TEST AS REQUIRED IN SPECIFICATIONS AND STATIC PRESSURE: 73 PSI RESIDUAL PRESSURE: 68 PSI 1330 @ 68 PSI

SHEET LIST FS Sheet Name Sheet Number LOWER LEVEL FS PLAN

LOWER LEVEL FS PLAN 98090.40 12/17/2021

DRAWING TITLE

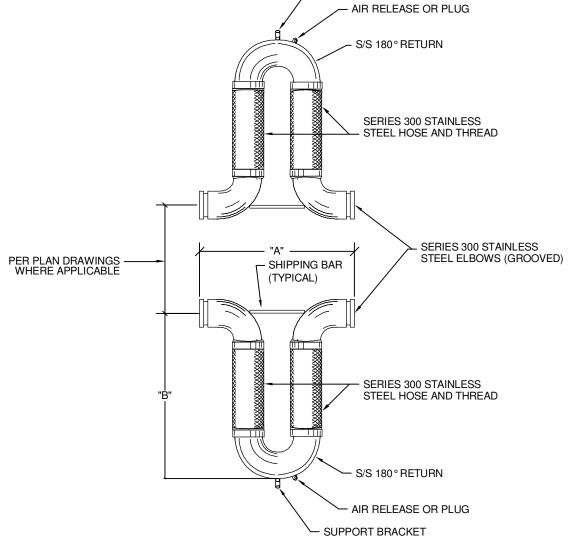
THE BANKS

Public Partnership

BP#2 - PARK &

GARAGE

F101



- SUPPORT BRACKET

-----A1-----PER PLAN DRAWINGS — NOTES:

1 MATERIALS PER PIPE SERVICE. 2 "A" AND "B" DIMENSIONS PROVIDED BY EXPANSION LOOP MANUFACTURER. PROVIDE DIMENSIONED DRAWINGS INDICATING A,

DIMENSION DATA* PIPE SIZE | "A" | "B

* APPROXIMATE

B, & C DIMENSIONS WITH CORRESPONDING LOCATION ON PLAN DRAWINGS. LOCATION SHALL SHOW NEAREST COLUMN(S) WITH APPLICABLE GRID DESIGNATION. B FS EXPANSION JOINTS SCALE: NONE

_				
	$\overrightarrow{\neg}$	CHECK VALVE		
	→	CONCENTRIC PIPE REDUCER		
	─	UNION		
	©_CO	CLEANOUT TO GRADE OR FINISHED FLOOR		

IPING SYMBO	OLS.
NGLE LINE	
	BOTTOM CONNECTION (45°)
	BOTTOM CONNECTION (90°)
	BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED)
	DIRECTION OF PITCH
D	DROP
\rightarrow	ELBOW DOWN
•	ELBOW UP
	EXISTING PIPE TO BE REMOVED
	EXISTING PIPE TO REMAIN
-	FLOW DIRECTION DESIGNATION
••••••••••••••••••••••••••••••••••••••	PIPE RISER
	PUMP
← -R	RISE
	TOP CONNECTION (45°)
	TOP CONNECTION (90°)

PLUMBING PIPING DESIGNATIONS

	EXISTING PIPE TO REMAIN		
GD	GARAGE DRAINAGE PIPE		
NPW	NON POTABLE WATER PIPE (HOSE BIBB)		
IRR	NON POTABLE WATER PIPE - IRRIGATION		
WD	NON POTABLE WATER PIPE - WASH DOWN		
PD	PUMP DISCHARGE PIPE		
SAN	SANITARY DRAINAGE PIPE		
STM	STORM DRAINAGE PIPE		
V	SANITARY SEWER VENT		
WS	WATER SERVICE		

CENEDAL ELOOD DI ANIMOTEC

GENERAL FLOOR PLAN NOTES				
ELEV: 8' - 0" ELEV: 8' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE			
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE			
2	RISER OR STACK NUMBER			
B P2	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED			
1 P2	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED			
A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.			
•	CONNECT TO EXISTING			
3>	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.			
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.			
(A1)	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)			

ABBREVIATIONS

EQ - EQUAL

EX - EXISTING

FLR - FLOOR

MANUFACTURER DESIGN BASIS: ZURN

1 DRAINS IN AREAS SUBJECT TO FREEZING IN PARKING AREAS SHALL NOT BE PROVIDED WITH P-TRAPS.

2 CLOSELY COORDINATE INSTALLATION LOCATIONS OF DRAINS WITH CONSTRUCTION MANAGER. CONTRACTOR SHALL

3 PROVIDE ADDITIONAL 8-10" TALL STAINLESS STEEL PERFORATED GRATING AROUND DRAIN DOME GRATING (ZURN SUFFIX "-PS"). COORDINATE FINAL SCREEN HEIGHT WITH CM PRIOR TO PURCHASE.

OR ENGINEER **APPROVED EQUAL** FROM BELOW LIST): JOSAM, WATTS, MIFAB,

PD1 PLAZA Z415 SERIES

PD2 PLAZA Z110 SERIES

ALSO REFER TO ARCHITECTURAL SHEETS.

FM - FORCE MAIN

EQUIP - EQUIPMENT

ETR - EXISTING TO REMAIN

- EXPANSION

- FLOOR CLEANOUT

- FLOOR DRAIN - FINISHED FLOOR ELEVATION

- EXTERIOR

- EQUIPMENT SUPPLIER

AFF	- ABOVE FINISHED FLOOR	FPM	- FEET PER MINUTE	SAN	- SANITARY OR SANITARY DRAIN
٩FG	- ABOVE FINISHED GRADE	FT	- FEET	SCH	- SCHEDULE
4LT	- ALTERNATE	FTG	- FOOTING	SHT	- SHEET
	C - APPROXIMATE				- SPECIFICATIONS
	- ARCHITECT OR ARCHITECTURAL	G	- GAS OR NATURAL GAS	SQ	- SQUARE
	- ASSEMBLY		- GAUGE	SS	- SANITARY STACK (SOIL OR WASTE)
1001	ACCEIVIBE I		- GALLON	00	OR STAINLESS STEEL
או וכ	- BUILDING		- GALVANIZED	STD	
					- STORM OR STORM DRAINAGE
	- BOTTOM OF BEAM		- GARAGE DRAINAGE		
	- BOTTOM OF FOOTING	GPM	- GALLONS PER MINUTE		- STRUCTURAL OR STRUCTURE
	- BOTTOM OF PIPE			SUC	- SITE UTILITY CONTRACTOR
	- BOTTOM		- HUB DRAIN		
	- BRITISH THERMAL UNIT	HP	- HORSEPOWER OR HIGH POINT	TOB	
3TUH	- BRITISH THERMAL UNIT PER HOUR			TOF	- TOP OF FOOTING
3TWN	- BETWEEN	ID	- INSIDE DIAMETER	TOP	- TOP OF PIPE
		INV	- INVERT ELEVATION	TOS	- TOP OF SLAB OR TOP OF STEEL
CB	- CATCH BASIN	IN	- INCHES	TYP	- TYPICAL
	- CONTRACTOR FURNISHED CONTRACTOR				
	INSTALLED	1	- LENGTH	UNO	- UNLESS NOTED OTHERWISE
CFM	- CUBIC FEET PER MINUTE		- POUNDS	0.10	311233 113 123 3 1112 111132
	- CAST IRON	LDO	1 001100	V	- VENT OR SANITARY SEWER VENT
	- CONCRETE MASONRY UNIT	MAX	- MAXIMUM	VEL	- VELOCITY
	- CLEAN OUT		- MANUFACTURER	VOL	- VOLUME
	- CONNECT OR CONNECTION		- MANHOLE	VS	- VENT STACK
	- CONTRACTOR		- MINIMUM OR MINUTE	VR	- VENT RISER
	- CENTER	MISC	- MISCELLANEOUS	14//	MUTI
	- COPPER			W/	- WITH
•	- COLD WATER		- NOT IN CONTRACT	W/O	- WITHOUT
CWS	- COMBINATION WATER SERVICE		- NOMINAL	W	- WASTE
	OR CONDENSER WATER SUPPLY	NPT	- NATIONAL PIPE THREAD	WS	- WATER SERVICE
		NTS	- NOT TO SCALE		
D	- DEPTH OR DRAIN LINE				
DD	- DECK DRAIN	OD	- OUTSIDE DIAMETER OR OVERFLOW		
DET	- DETAIL		DRAIN		
	- DRAINAGE FIXTURE UNIT	OFCI	- OWNER FURNISHED CONTRACTOR		
	- DIAMETER	.	INSTALLED		
	- DIMENSION	OFOI	- OWNER FURNISHED OWNER		
	- DOWN	01 01	INSTALLED		
	- DOWN SPOUT OR SPRINKLER (DRY)		INOTALLED		
	,	DC	DITIMBING CONTRACTOR (DIVISION 22)		
VVG	- DRAWING		- PLUMBING CONTRACTOR (DIVISION 22)		
Γ Λ	FACIL	PD	- PUMP DISCHARGE OR PARAPET		
	- EACH	D. D.	DRAIN		
	- EXPANSION JOINT		- PLUMBING		
	- ELEVATOR		- PRESSURE		
$\Gamma \cap$		DOE			

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

PSF - POUNDS PER SQUARE FOOT

PSI - POUNDS PER SQUARE INCH

RCP - REINFORCED CONCRETE PIPE

REQD - REQUIRED

PSIG - POUNDS PER SQUARE INCH GAUGE

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

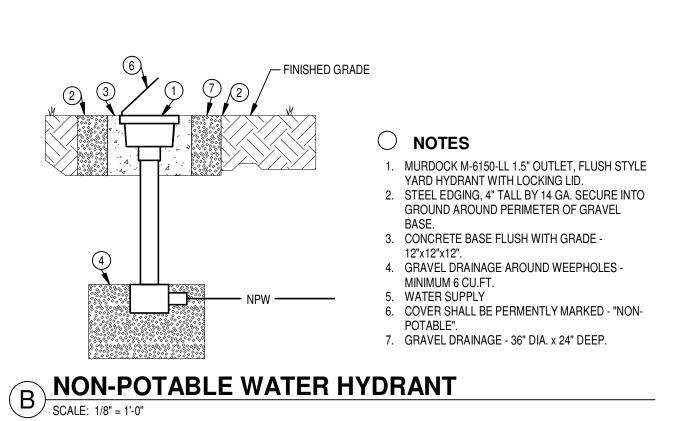
DRAIN SCHEDULE

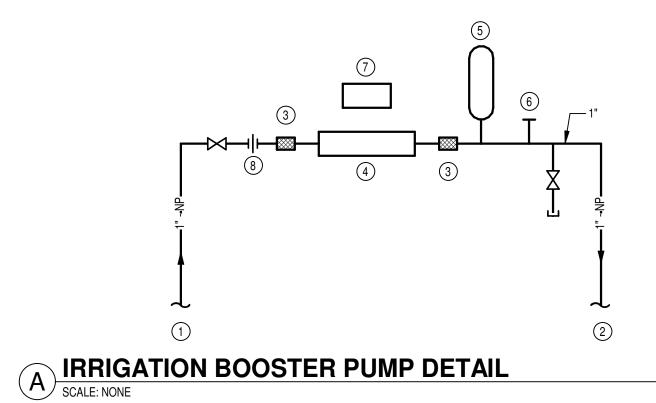
15" RD X X

9" RD | X | X | X | X |

SLEEVES FOR TREE PIT IRRIGATION & LIGHTS/POWER (TIGHT TO UNDERSIDE OF SLAB) DRAIN CLEANOUT (4"-6" PVC)	
PERFORATED PERIMETER DRAIN. SEE LANDSCAPE DRAWINGS. SUBSURFACE DRAIN (PD2) TYP.	DRAIN COLLAR PIECE PLANTER DRAINAGE PIPING STAINLESS STEEL PERFORATED SCREEN DRAIN BODY
	STRUCTURAL SLAB

C TYPICAL DETAIL AT TREE PIT (PD2 DRAIN)
SCALE: NONE





O DETAIL NOTES

r-------

1 PIPING FROM WATER TAP LOWER LEVEL CEILING.

2 TO IRRIGATION SYSTEM (SIZED PER DRAWINGS).

3 FLEXIBLE CONNECTOR.

4 INLINE BOOSTER PUMP. 5 EXPANSION TANK.

6 PRESSURE SENSOR.

7 PUMP CONTROLLER.

8 UNION.

SHEET LIST PLUMBING			
Sheet Number	Sheet Name		
P001	LEGEND SCHEDULES & NOTES		
P101	LOWER LEVEL PLUMBING PLAN		
P101A	LOWER LEVEL PLUMBING PLAN (LOT 27)		
P102	UPPER TERRACE LEVEL PLUMBING PLAN		

| x | x | x | x |

HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**



Heapy Engineering

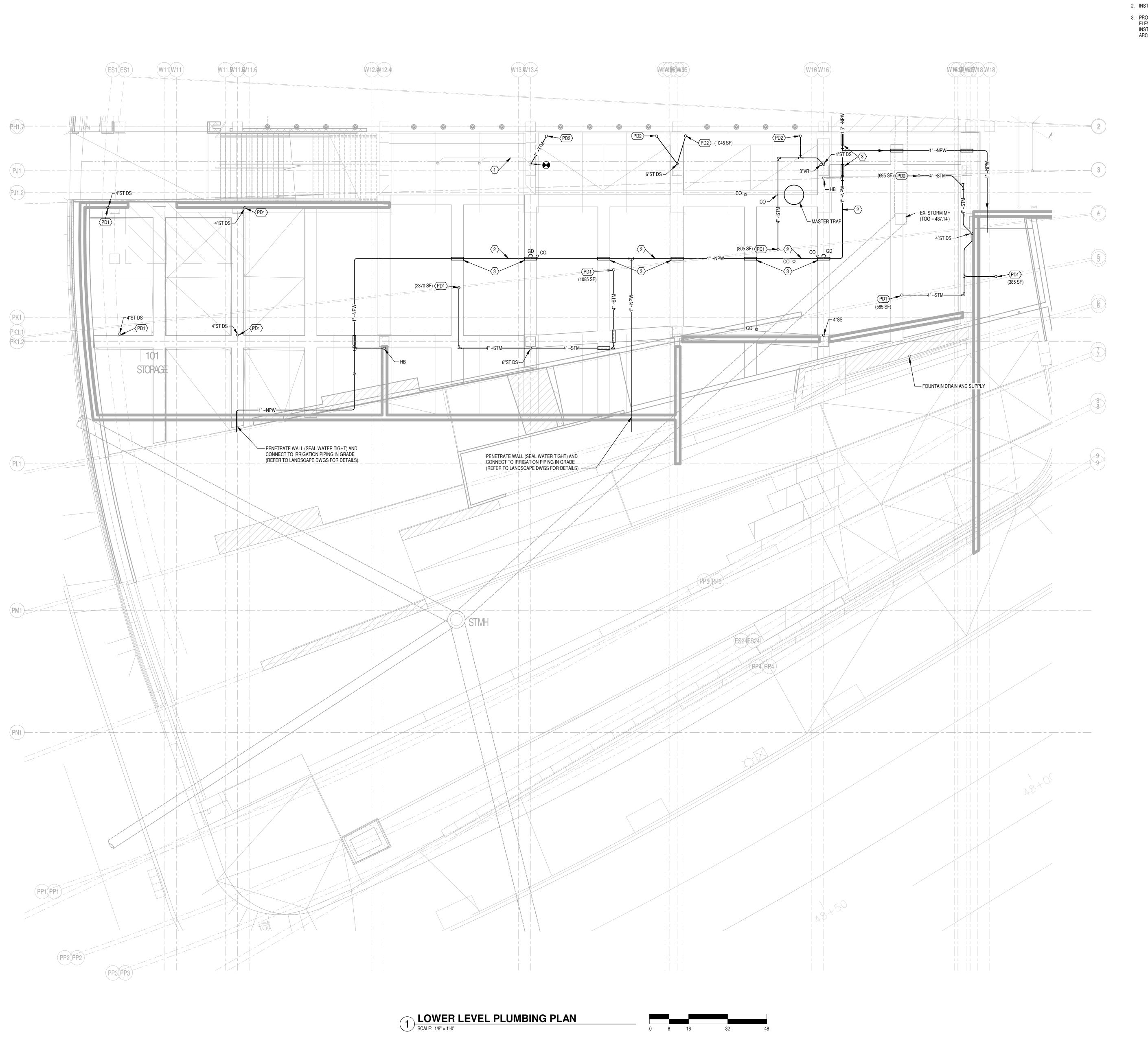
MEP Design Technology Planning Commissioning Energy 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com



BP#2 - PARK & GARAGE

LEGEND SCHEDULES &

JOB NUMBER 98090.40 12/17/2021 DRAWING NUMBER



○ PLAN NOTES

1. EXISTING PIPING TO REMAIN.

2. INSTALL PIPING AT 500.50' +/-.

3. PROVIDE SLEEVE CAST IN PLACE IN BEAM FOR ALL NON-POTA LE PIPING. CENTERLINE ELEVATION APPROXIMATELY 500.50'. COORDINATE FINAL SLEEVE ELEVATION AND INSTALLATION REQUIREMENTS WITH DECKING CONTRACTOR. COORDINATE WITH ARCHITETCURLA AND STRUCTURE DRAWINGS.



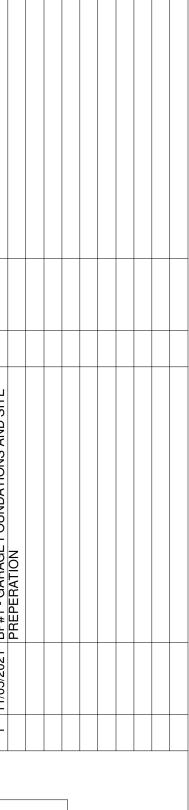
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



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LOT D LOT 24

LOT 27 23

LOT 28

NORTH

DRAWN BY:

ENGINEER:

DJT

CHECKED BY:

DNM

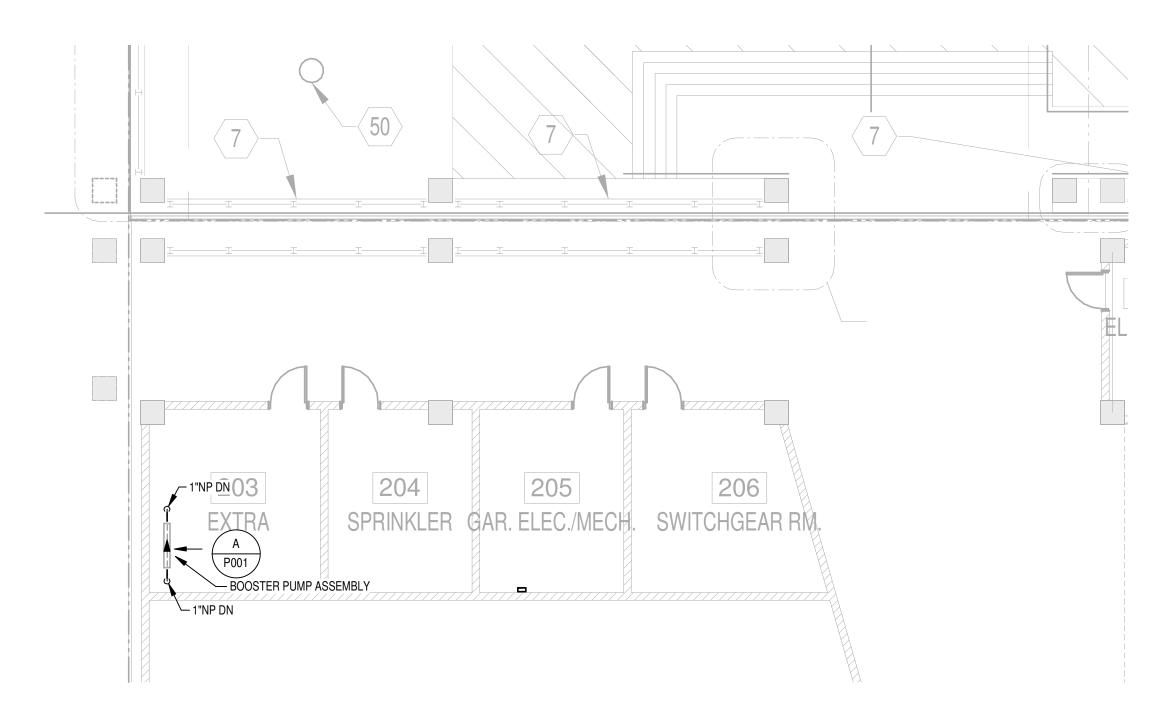


BP#2 - PARK & GARAGE

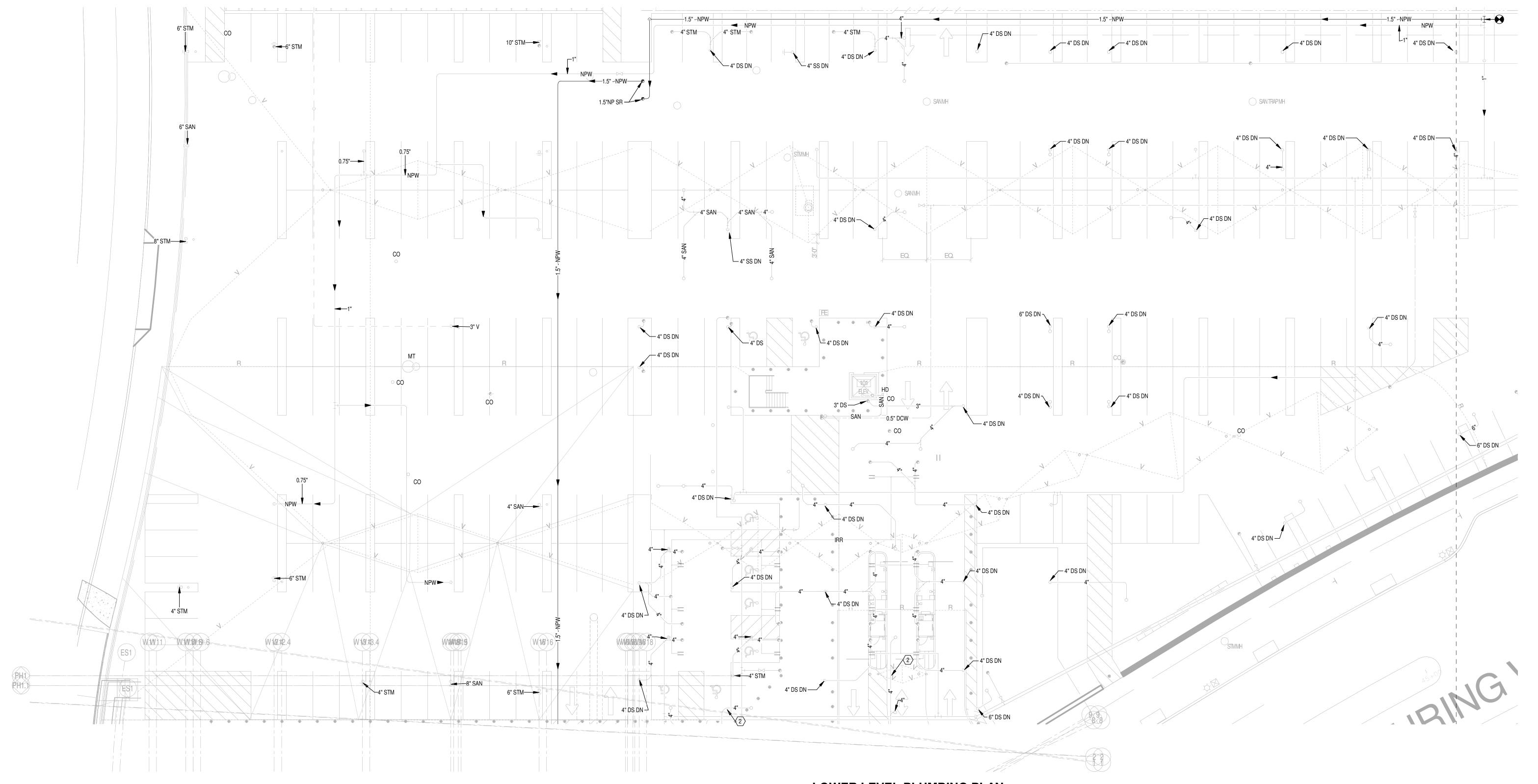
LOWER LEVEL PLUMBING
PLAN

JOB NUMBER
98090.40 12/17/2021
DRAWING NUMBER
P101

P101A



3 PARK LEVEL PLUMBING PLAN (LOT 23)
SCALE: 1/8" = 1'-0"

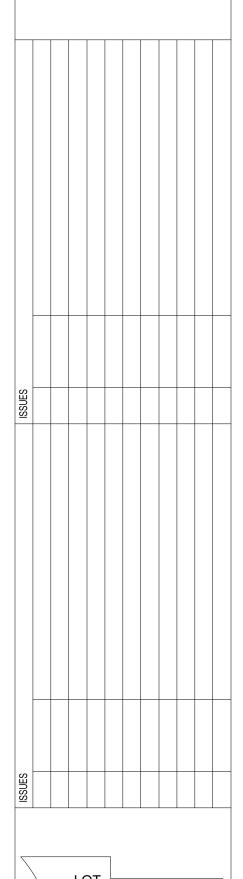


1 LOWER LEVEL PLUMBING PLAN
SCALE: 1/16" = 1'-0"





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NORTH
RAWN BY:
Authorities

Authorities

Authorities

Authorities

Authorities

Designe

DRAWN BY:

ENGINEER:

Designer

CHECKED BY:

Checker

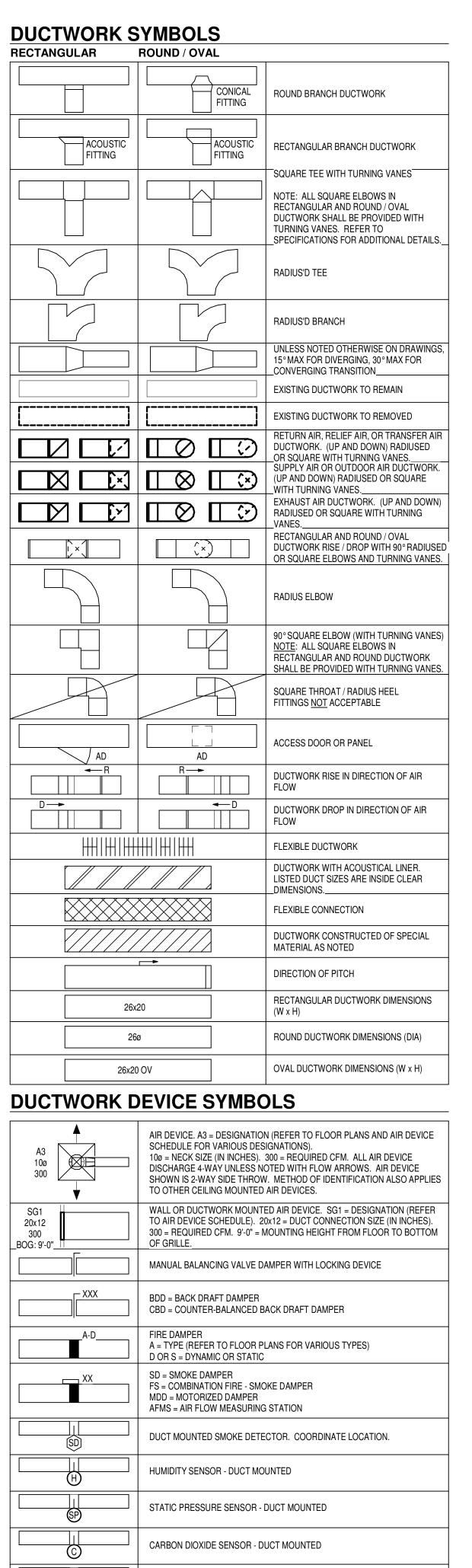


DRAWING TITLE

UPPER TERRACE LEVEL

PLUMBING PLAN

JOB NUMBER
98090.40 12/17/2021
DRAWING NUMBER
P102



TEMPERATURE SENSOR - DUCT MOUNTED

VALVES AND FITTINGS DOUBLE LINE SINGLE LINE CHECK VALVE BALL VALVE SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR $\longrightarrow \bigvee \longrightarrow$ REQUIRED TYPE BASED ON APPLICATIONS) BUTTERFLY VALVE _GATE VALVE__ COMBINATION SHUTOFF AND BALANCING VALVE **─**₩─ (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)_ \longrightarrow CONCENTRIC PIPE REDUCER ECCENTRIC PIPE REDUCER PRESSURE GAUGE TEMPERATURE GAUGE OR THERMOMETER STRAINER WITH A BLOW DOWN VALVE AND HOSE CONNECTION DRAIN VALVE WITH HOSE END CONNECTION $-\otimes$ AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN **EXPANSION JOINT** MANUAL AIR VENT AUTOMATIC AIR VENT PRESSURE REDUCING VALVE 2 PORT AUTOMATIC CONTROL VALVE - \forall -3 PORT AUTOMATIC CONTROL VALVE **─**─── AUTOMATIC PRESSURE INDEPENDENT CONTROL $- \bigcirc -$ VALVE QUICK OPENING MANUAL VALVE SAFETY RELIEF VALVE. FOR HYDRONIC SYSTEMS PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE. FOR STEAM SYSTEMS PIPE DISCHARGE TO OUTDOORS.__ VACUUM BREAKER **─**₩─ NEEDLE VALVE PRESSURE AND TEMPERATURE TEST PLUG VACUUM GAUGE WITH STOP END CAP **─**>**>** _____N ⊢ SHUTOFF VALVE AND BOX SHUTOFF VALVE ON RISER SOLENOID VALVE WATER METER FLOW METER BI-METALIC STEAM TRAP AND DRIP ASSEMBLY $-\otimes_{\overline{\mathsf{TD}}}$ THERMODYNAMIC STEAM TRAP AND DRIP ASSEMBLY INVERTED BUCKET STEAM TRAP AND DRIP ASSEMBLY FLOAT AND THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY $-\otimes_{\overline{\mathsf{TC}}}$ THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY PRESSURE GAUGE WITH COCK AND SIPHON LOOP **MISC SYMBOLS** CARBON DIOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT. CARBON MONOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH COMBINATION CARBON MONOXIDE / NITROGEN DIOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT. DIFFERENTIAL PRESSURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH HUMIDITY SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.

TEMPERATURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA

REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH

SPACE TEMPERATURE SENSOR / THERMOSTAT. WHEN WALL MOUNTED, MOUNTING HEIGHT 46" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH

EMERGENCY SHUTOFF STATION. 46" MOUNTING HEIGHT UNLESS NOTED OTHERWISE.

TEMPERATURE SENSOR MOUNTED IN CEILING PLENUM.

ARCHITECT.

STATIC PRESSURE SENSOR.

COORDINATE WITH ARCHITECT.

GENERAL FLOOR PLAN NOTES PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE. DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL. EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO H1 OR <u>H1</u> RISER OR STACK NUMBER DETAIL: B = DETAIL DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED SECTION: 1 = SECTION DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED $\langle A1 \rangle$ "UP TO" SYMBOL (ITEM ON FLOOR ABOVE) TOE: 3' - 0" APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE 10"—— | APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, ELEV: 8' - 0" | ELEV: 8' - 0" 20x20 TOD: 8' - 10" APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF DUCTWORK, UNLESS NOTED OTHERWISE 20x20 DOOR UNDERCUT. X = HEIGHT OF UNDERCUT IN INCHES; 0.75 INCH UNDERCUT IF NO HEIGHT IS NOTED. COORDINATE WITH GC. DOOR LOUVER. 1 = SQUARE FEET OF LOUVER. CONNECT TO EXISTING PIPING SYMBOLS DOUBLE LINE SINGLE LINE BOTTOM CONNECTION (45°) BOTTOM CONNECTION (90°) BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED) __ DIRECTION OF PITCH DROP D→ **ELBOW DOWN** ELBOW UP EXISTING PIPE TO BE REMOVED EXISTING PIPE TO REMAIN FLOW DIRECTION DESIGNATION **-**─R TOP CONNECTION (45°) TOP CONNECTION (90°) **HVAC PIPING DESIGNATIONS** CHILLED WATER RETURN PIPE CONDENSER WATER SUPPLY PIPE CONDENSER WATER RETURN PIPE CHILLED WATER GLYCOL SOLUTION SUPPLY PIPE DRAIN LINE. PITCH IN DIRECTION INDICATED HEATING HOT WATER RETURN PIPE ——HWR—— HEATING HOT WATER SUPPLY PIPE -----MU------WATER MAKE-UP PIPE **----** V**----** VENT PIPE EXPANSION TANK PIPE REFRIGERANT LIQUID LINE RS—RS—RS—REFRIGERANT SUCTION LINE HIGH PRESSURE CONDENSATE RETURN PIPE HPS—HPS—HIGH PRESSURE STEAM SUPPLY PIPE LOW PRESSURE CONDENSATE RETURN PIPE LOW PRESSURE STEAM SUPPLY PIPE MEDIUM PRESSURE CONDENSATE RETURN PIPE MEDIUM PRESSURE STEAM SUPPLY PIPE

PUMPED CONDENSATE RETURN PIPE

ABBREVIATIONS

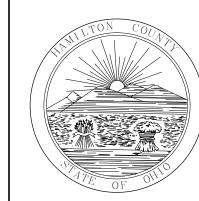
ACCU AD	- AIR COMPRESSOR OR AIR CONDITIONER - AIR COOLED CONDENSING UNIT - ACCESS DOOR OR AREA DRAIN	ID INV IN	- INSIDE DIAMETER - INVERT ELEVATION - INCHES
ADJ AFF	- ADJUSTABLE - ABOVE FINISHED FLOOR	KEC	- KITCHEN EQUIPMENT CONTRACTO
AFG	- ABOVE FINISHED GRADE		
AFMS ALT	- AIR FLOW MEASURING STATION - ALTERNATE	L LAT	- LENGTH - LEAVING AIR TEMPERATURE
AP	- ACCESS PANEL	LAV	- LAVATORY
	- APPROXIMATE - ARCHITECT OR ARCHITECTURAL	LBS LPC	- POUNDS - LOW PRESSURE CONDENSATE RE
ARCH ASSY	- ASSEMBLY	LPS	
ATC	- AUTOMATIC TEMPERATURE CONTROL	LWT	- LEAVING WATER TEMPERATURE
BDD BFP	- BACK DRAFT DAMPER - BACKFLOW PREVENTER	MAX MDD	- MAXIMUM - MOTORIZED DAMPER
BLDG	- BUILDING	MEZZ	- MEZZANINE
BOB	- BOTTOM OF BEAM - BOTTOM OF DUCT	MFR MH	- MANUFACTURER
BOD BOE	- BOTTOM OF DOCT - BOTTOM OF EQUIPMENT	MIN	- MANHOLE - MINIMUM OR MINUTE
BOF	- BOTTOM OF FOOTING	MISC	- MISCELLANEOUS
BOG BOP	- BOTTOM OF GRILLE - BOTTOM OF PIPE	MTD MTG	- MOUNTED - MOUNTING
BOT	- BOTTOM	MPC	- MEDIUM PRESSURE CONDENSATI
BTU BTUH	- BRITISH THERMAL UNIT - BRITISH THERMAL UNIT PER HOUR	MPS	RETURN - MEDIUM PRESSURE STEAM SUPP
CBD	- COUNTER BALANCED BACKDRAFT DAMPER	MU	- WATER MAKE-UP
CFCI	- CONTRACTOR FURNISHED CONTRACTOR	N/C	- NORMALLY CLOSED
CFM	INSTALLED - CUBIC FEET PER MINUTE	NIC N/O	- NOT IN CONTRACT - NORMALLY OPEN
CHS	- CHILLED WATER SUPPLY	NOM	- NOMINAL
CHR CHGR	- CHILLED WATER RETURN - CHILLED WATER GLYCOL SOLUTION RETURN	NPT NTS	- NATIONAL PIPE THREAD - NOT TO SCALE
CHGR	- CHILLED WATER GLYCOL SOLUTION RETURN - CHILLED WATER GLYCOL SOLUTION SUPPLY	NIO	
CLG	- CEILING	OA	- OUTDOOR AIR
CMU CO	- CONCRETE MASONRY UNIT - CLEAN OUT	OBD OD	- OPPOSED BLADE DAMPER - OUTSIDE DIAMETER
CO2	- CARBON DIOXIDE	OFCI	- OWNER FURNISHED CONTRACTO
CONN CONTR	- CONNECT OR CONNECTION - CONTRACTOR	OFOI	INSTALLED - OWNER FURNISHED OWNER INST
CTR	- CENTER		
CU CW	- COPPER - COLD WATER	P PC	- PROPANE GAS - PLUMBING CONTRACTOR (DIVISIO
CWR	- CONDENSER WATER RETURN		OR PUMPED CONDENSATE RETUR
CWS	- CONDENSER WATER SUPPLY	PLBG PRESS	- PLUMBING - PRESSURE
D	- DRAIN LINE	PRV	- PRESSURE REGULATING VALVE
	- DRY BULB	PSF	
	- DIRECT DIGITAL CONTROLS - DEIONIZED WATER	PSI PSIG	- POUNDS PER SQUARE INCH - POUNDS PER SQUARE INCH GAUG
DIA	- DIAMETER		
	- DIMENSION - DOWN	RA RAD	- RETURN AIR - RADIUS
	- DRAWING	RCP	- REFLECTED CEILING PLAN
EA	- EACH OR EXHAUST AIR	RD REC	- ROOF DRAIN - RECESSED
EAT	- ENTERING AIR TEMPERATURE	REQD	- REQUIRED
	- ELECTRICAL CONTRACTOR (DIVISION 26)	RI	- ROUGH IN
	- EXPANSION JOINT - ELECTRICAL	RL ROS	- REFRIGERANT LIQUID - REVERSE OSMOSIS WATER SUPP
ELEV	- ELEVATOR	ROR	- REVERSE OSMOSIS WATER RETU
	- EQUIPMENT - EXPANSION TANK	RPM RS	- REVOLUTIONS PER MINUTE - REFRIGERANT SUCTION
ETR	- EXISTING TO REMAIN		
EQS EWT	- EQUIPMENT SUPPLIER - ENTERING WATER TEMPERATURE	S SA	- SPRINKLER (WET) - SUPPLY AIR
EXH	- EXHAUST	SAN	- SANITARY OR SANITARY DRAIN
	- EXPANSION - EXTERIOR	SCH SCW	- SCHEDULE - SOFT COLD WATER
EXI	- EXISTING	SHT	- SHEET
		SPEC	- SPECIFICATIONS
	- FLOOR DRAIN - FINISHED FLOOR ELEVATION	SQ SR	- SQUARE - SUPPLY RISER
FLR	- FLOOR	SRV	- SAFETY RELIEF VALVE
	- FLAT ON BOTTOM	SS STD	- STAINLESS STEEL
	- FUEL OIL FLOW - FUEL OIL GAUGE	STD	- STANDARD - STORM OR STORM DRAINAGE
FOR	- FUEL OIL RETURN	STRUC	- STRUCTURAL OR STRUCTURE
FOS FOT	- FUEL OIL SUPPLY - FLAT ON TOP	SUC	- SITE UTILITY CONTRACTOR
FPM	- FEET PER MINUTE	TEMP	- TEMPERATURE
FSC FT	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21) - FEET	TOB TOD	- TOP OF BEAM - TOP OF DUCT
FTG	- FOOTING	TOE	- TOP OF EQUIPMENT
G	- GAS OR NATURAL GAS	TOF TOJ	- TOP OF FOOTING - TOP OF JOIST
GA	- GAUGE	TOP	- TOP OF PIPE
	- GALLON - GALVANIZED	TOS TYP	- TOP OF SLAB OR TOP OF STEEL - TYPICAL
GC	- GENERAL TRADES CONTRACTOR		
GPM	- GALLONS PER MINUTE	UNO	- UNLESS NOTED OTHERWISE
HB HC	- HOSE BIBB - HVAC CONTRACTOR (DIVISION 23)	V VAC	- VENT - VACUUM
HD	- HUB DRAIN	VEL	- VELOCITY
HG	- REFRIGERANT HOT GAS	VIB	- VALVE IN BOX
HP HPC	- HORSEPOWER - HIGH PRESSURE CONDENSATE RETURN	VOL VTR	- VOLUME - VENT THROUGH ROOF
HPS	- HIGH PRESSURE STEAM SUPPLY	VR	- VENT RISER
	- HOUR - HEAT TRACE	W/	- WITH
	- HEATER	W/O	- WITHOUT
	- HEATING, VENTILATING, AND AIR CONDITIONING - HOT WATER	WB WCO	- WET BULB
HVAC	IIVI WATIFII	VVCO	- WALL CLEANOUT
HTR HVAC HW HWR	- HEATING HOT WATER RETURN		
HVAC HW	- HEATING HOT WATER RETURN - HEATING HOT WATER SUPPLY		

INFORMATIONAL PURPOSES ONLY IN RELATION TO THIS PROJECT.

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

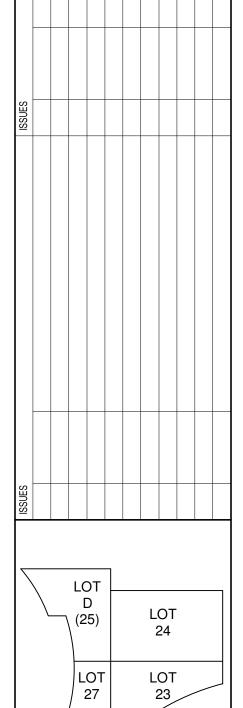
	SHEET LIST HVAC
Sheet Number	Sheet Name
H001	HVAC SYMBOLS, NOTES, LEGENDS
H101	LOWER LEVEL HVAC PLAN (LOT 28)
H301	CONTROL SCHEMATIC
H302	CONTROL SCHEMATIC

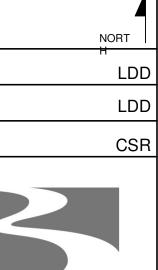


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



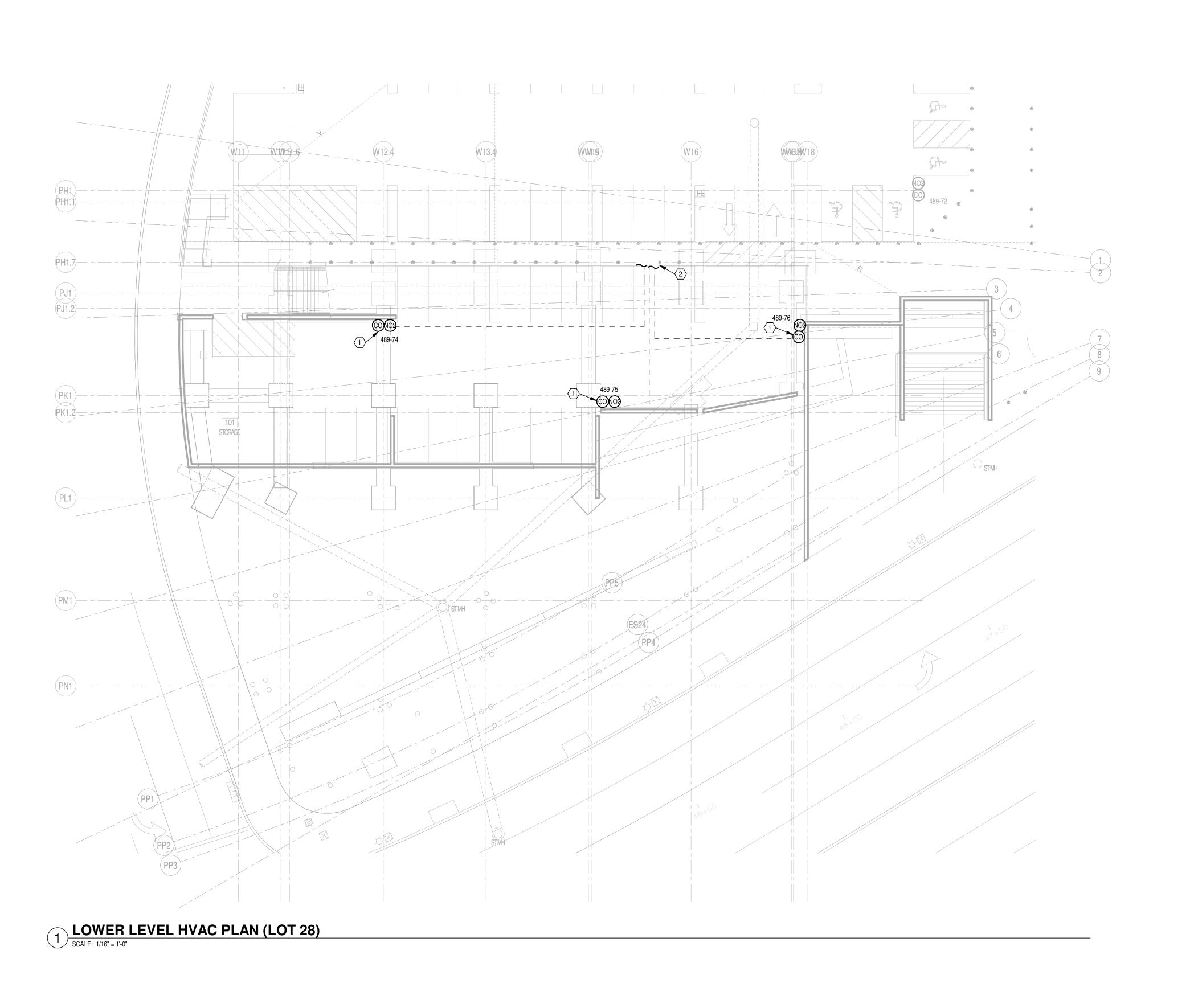
MMA michael mcinturf ARCHITEC 1116 RACE 51 CINCINNATI, OH 45202 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM







HVAC SYMBOLS, NOTES, LEGENDS

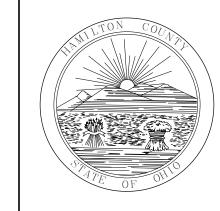


GENERAL NOTES

REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALL PAINTING REQUIREMENTS.

○ NOTES

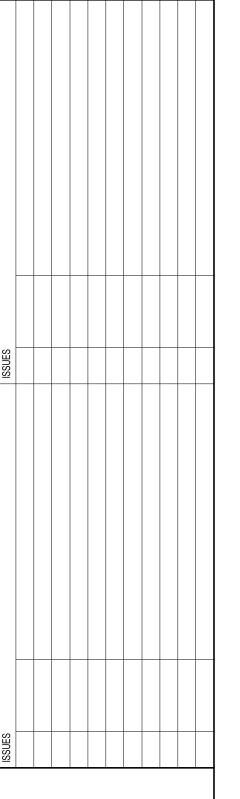
REFER TO DETAIL 1 ON SHEET H301 FOR CO/NO2 POINT INSTALLATION.
 APPOXIMATELY 820' TO LOT 24 WATER METER ROOM.



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



michael mcinturf ARCHITECTS 1116 RACE ST CINCINNATI, OH 45202 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM

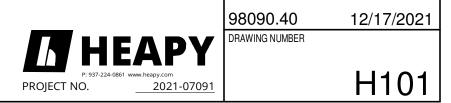


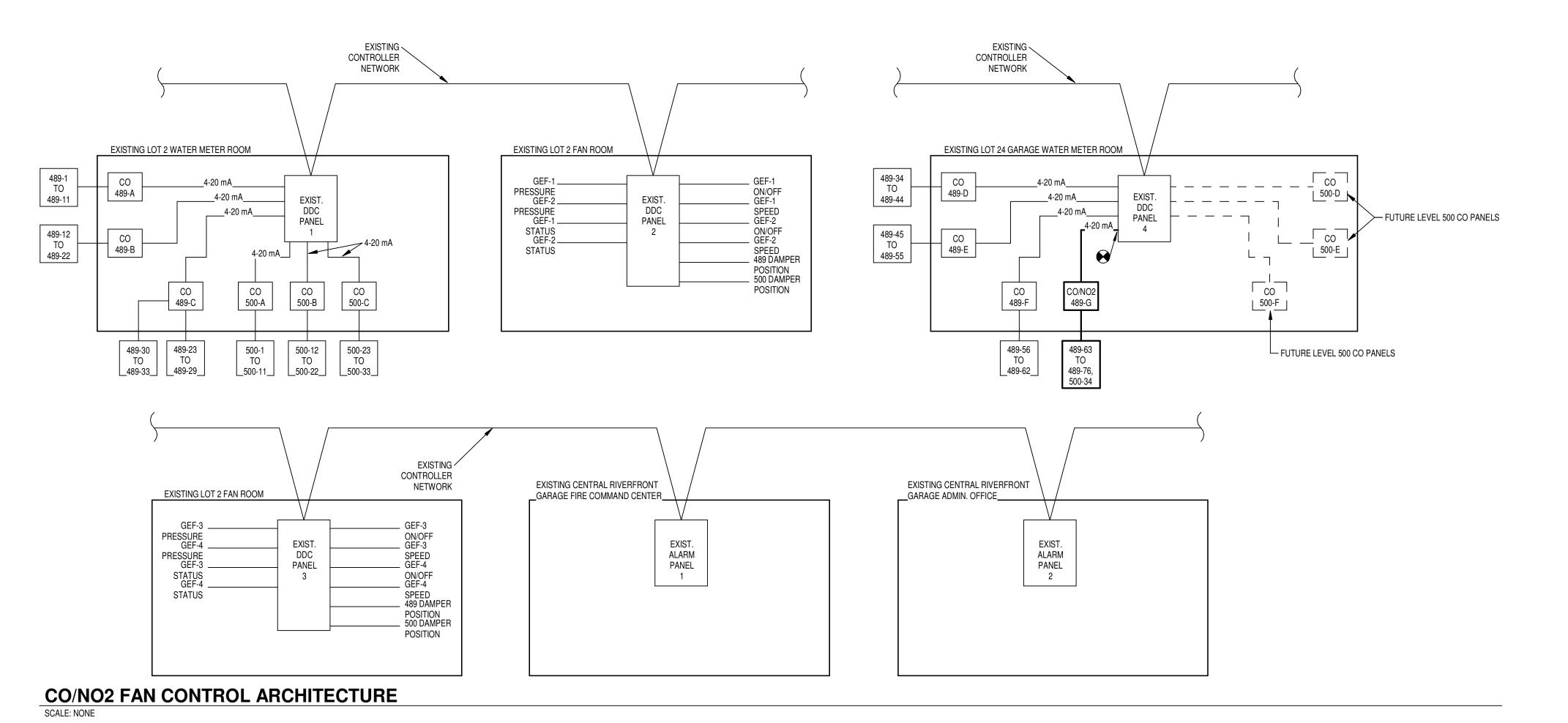


BP#2 - PARK & GARAGE

LOWER LEVEL HVAC PLAN (LOT 28)

H101





AT 500 LEVEL

3/4" IMC CONDUIT TO JUNCTION BOX IN LOT 24 WATER METER ROOM. HOLD CONDUIT TIGHT

— 3/4" IMC CONDUIT CONTAINING

- 4"x4"x2" J-BOX REMOVE SIDE AND

BOTTOM K/O PLUGS FOR AIRFLOW

TO CO/NO2 SENSOR WITHIN BOX

1/4"D POLY TUBING

TO STRUCTURE.

COMMAND CENTER TO WATER METER ROOM "APPROXIMATELY 1,150'

24 WATER METER ROOM AT 500 LEVEL

- ROUTING FROM CO/NOX SENSORS TO WATER METER ROOM APPROXIMATELY 820'

MECHANICAL LOWER LEVEL OVERVIEW

5 SCALE: 1" = 160'-0"

CO/NO2 SENSING LOCATION

SCALE: NONE

3/4" IMC CONDUIT CONTAINING 1/4"D

POLY TUBING FOR CO/NO2 SENSING —

LEVEL (503-507)

_LEVEL (489)____

EXISTING SEQUENCE OF OPERATION

FAN AND DAMPER MODULATION

GEF-1,2.3 AND 4 MODE SHALL BE DETERMINED BY THE POSITION OF THE ON-OFF-AUTO SWITCHES ON THE CENTRAL RIVERFRONT GARAGE ALARM PANELS. THE SWITCHES IN THE FIRE COMMAND CENTER SHALL OVERRIDE ALL OTHER CONTROL FUNCTIONS.

IN AUTOMATIC MODE, FANS GEF-1,2,3 AND 4 SHALL OPERATE CONTINUOUSLY. DDC SHALL VARY THE FAN SPEED FOR EACH FAN BETWEEN VFD MINIMUM AND FULL SPEED TO MAINTAIN NEGATIVE STATIC PRESSURE SETPOINT OF -1.5"WG (ADJUSTABLE) WITHIN THE EXHAUST AIRSHAFT BASED ON A STATIC PRESSURE SENSOR MOUNTED ON THE 489 AND 500 LEVELS FOR EACH SHAFT SHALL MODULATE BASED ON A SIGNAL FROM DDC. DDC SHALL SENSE CO/NO2 LEVELS THROUGH OUT THE GARAGE AND SHALL MODULATE THE DAMPERS FOR EACH LEVEL, IN UNISON. AS CO RISES ABOVE 35 PPM (ADJUSTABLE), THE DAMPER SHALL MODULATE OPEN FROM MINIMUM TO 100% OPEN AT 50 PPM

(ADJUSTABLE) AND ABOVE. ADDITIONALLY, AS NO2 RISES ABOVE 2 PPM (ADJUSTABLE), THE DAMPER SHALL MODULATE OPEN FROM MINIMUM TO 100% OPEN AT 5 PPM (ADJUSTABLE) AND ABOVE.

IN OFF MODE, GEF-1,2,3 AND 4 SHALL STOP AND THE DAMPERS ON THE 489 AND 500 LEVELS SHALL BE COMMANDED FULLY CLOSED.

IN ON MODE, GEF-1,2,3 AND 4 SHALL BE COMMANDED TO FULL SPEED AND THE DAMPERS ON THE 489 AND 500 LEVELS SHALL BE COMMANDED 100% OPEN.

A TWO POSITION PRESSURE SWITCH WITH A SETPOINT OF -3"WG (ADJUSTABLE) WIRED TO THE VFD DIRECTLY SHALL SHUT DOWN THE ASSOCIATED FAN ON TRIP. THIS SWITCH SHALL REQUIRE MANUAL RESET; AN ALARM SHALL BE INDICATED AT THE FIRE DEPARTMENT CONTROL PANEL AND THE GARAGE ADMIN ALARM PANEL IF THE PRESSURE SAFETY IS TRIPPED.

ALARM MODES

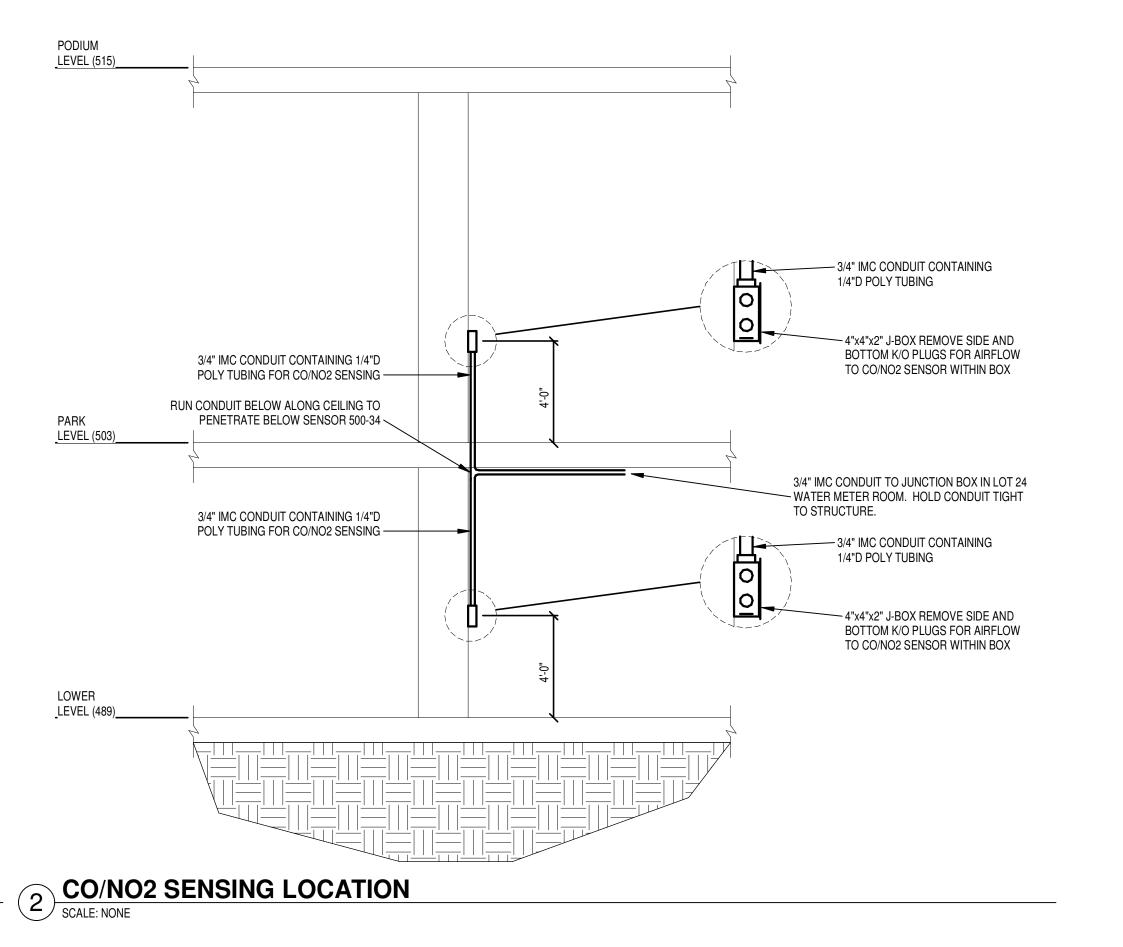
DDC SHALL INITIATE ALARMS VIA LIGHTS AND AUDIBLE HORN AT BOTH CENTRAL RIVERFRONT GARAGE ALARM PANELS. IF A CO/NO2 SENSOR PANEL HAS NO ALARM CONDITION, DDC SHALL TURN ON THE ASSOCIATED GREEN LIGHT FOR THAT ZONE. IF A CO SENSOR PANEL INDICATES ALARM IN ANY ZONE (ABOVE 50 PPM), OR NO2 INDICATES ALARM IN ANY ZONE (ABOVE 5 PPM), DDC SHALL INITIATE ALARMS VIA RED LIGHT AT BOTH CENTRAL RIVERFRONT GARAGE ALARM PANELS AND INITIATE THE HORN ON EACH CENTRAL RIVERFRONT GARAGE ALARM PANEL.

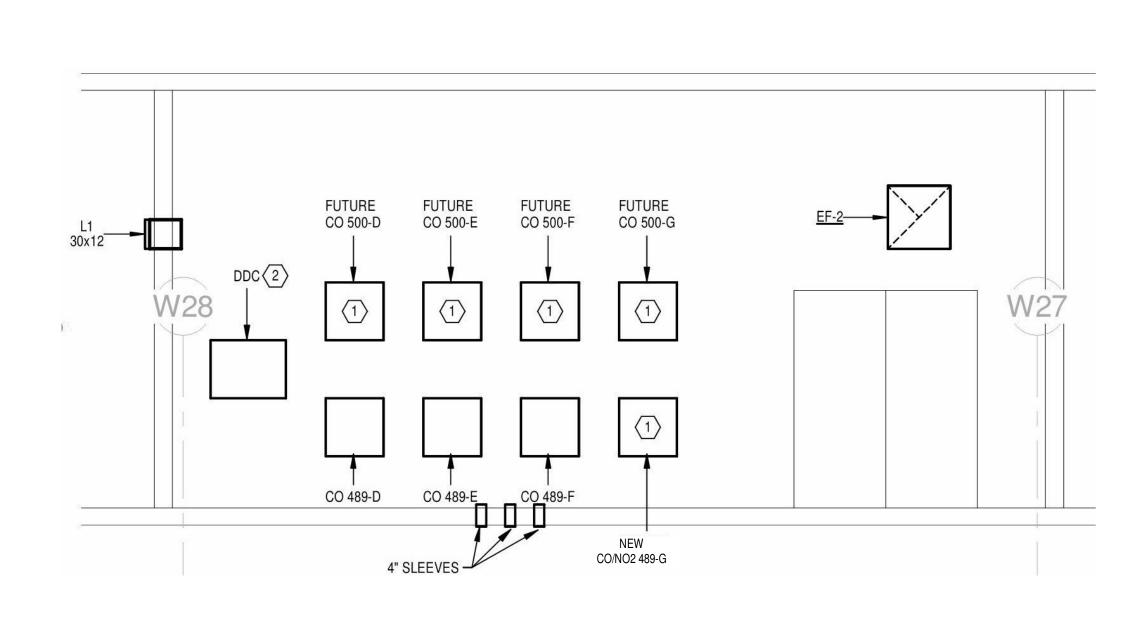
ONCE IN ALARM MODE, THE SILENCE BUTTON ON EITHER PANEL SHALL SILENCE BOTH HORNS FOR A PERIOD OF 1 HOUR. IF THE ALARM HAS NOT CLEARED IN THAT TIME, THE ALARM HORN SHALL BE RE-INITIATED. THE SILENCE FEATURE SHALL CONTINUE TO BE FUNCTIONAL.

FOR EACH FAN (GEF-1,2,3 AND 4), IF THE VFD FOR THE FAN INDICATES TROUBLE, DDC SHALL INITIATE A RED LIGHT ON BOTH CENTRAL RIVERFRONT GARAGE ALARM PANELS FOR THAT FAN. OTHERWISE, THE GREEN LIGHT FOR THE ASSOCIATED FAN SHALL BE INITIATED.

○KEYED NOTES

- 1. MAINTAIN THIS CLEAR SPACE FOR INSTALLATION OF FUTURE CO PANELS. COORDINATE WITH OTHER TRADES.
- 2. EXISTING DDC CONTROLLER AND CO PANELS.





4 LOT 24 WATER METER ROOM SECTION
SCALE: NONE

IMPROVEMENTS

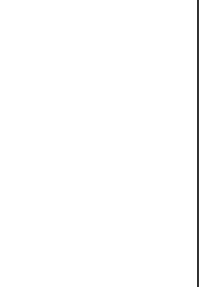
HAMILTON COUNTY

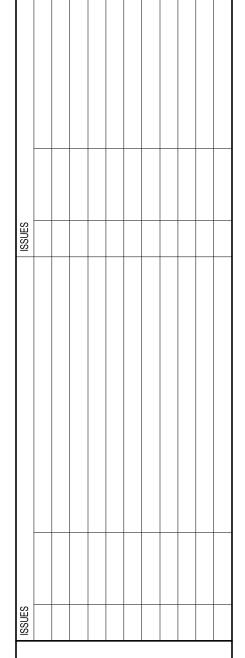
RIVERFRONT PARKING

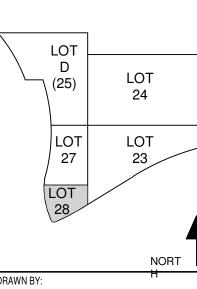
AND INFRASTRUCTURE

Cincinnati Cleveland 100 East Eighth Street Cincinnati, Ohio 45202 Phone: 513.241.3222 www.thpltd.com

MMA michael mcinturf ARCHITE 1116 RACE ST CINCINNATI, OH 45202 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM







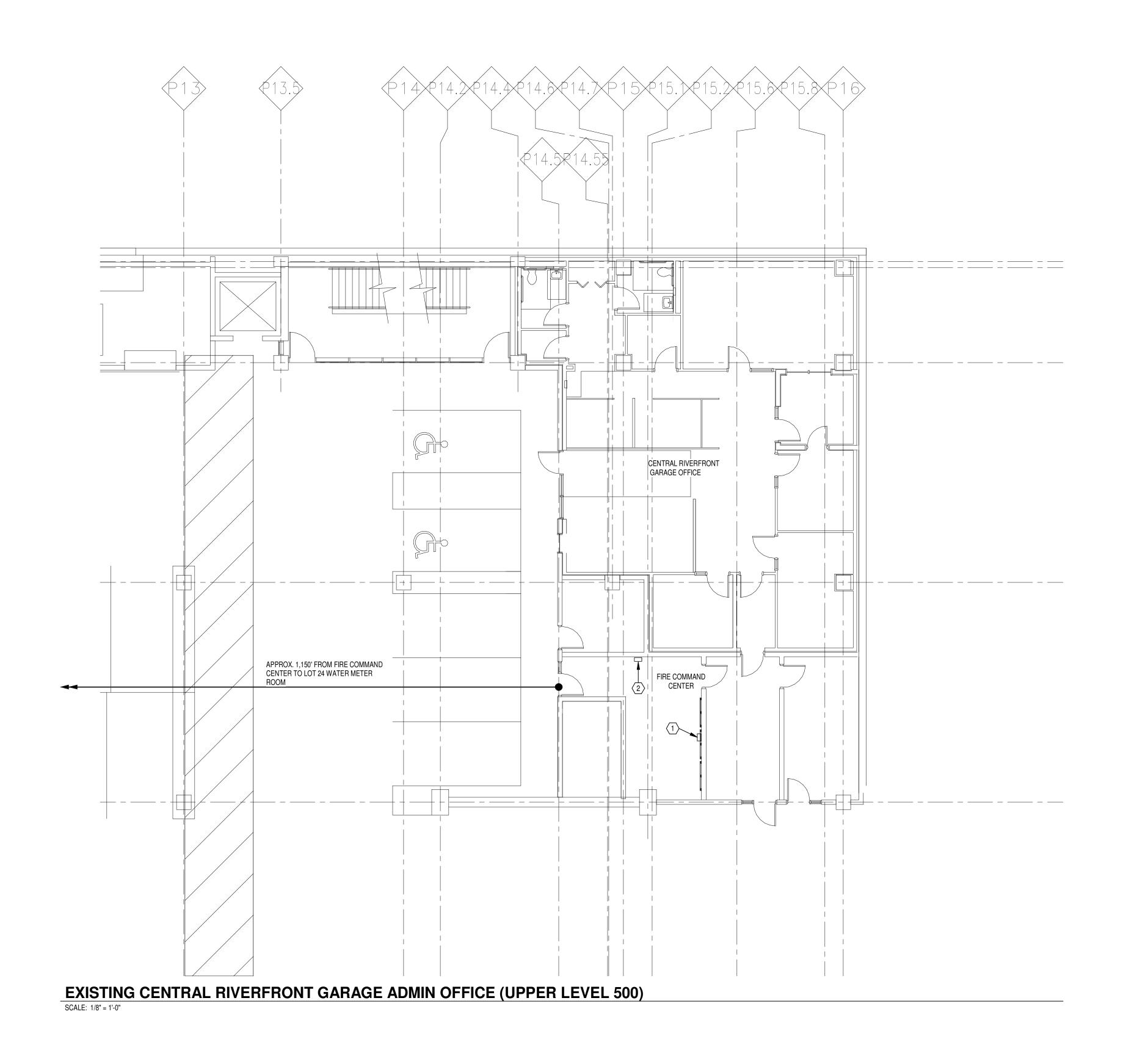
THE BANKS

Public Partnership

BP#2 - PARK & GARAGE

CONTROL SCHEMATIC

H301



○KEYED NOTES

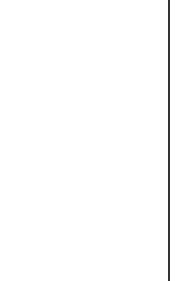
- EXISTING GARAGE ADMIN CO/NO2 MONITORING AND ALARM PANEL LOCATION TO REMAIN.
- 2. EXISTING FIRE DEPT. CO/NO2 MONITORING AND CONTROL PANEL LOCATION TO REMAIN.

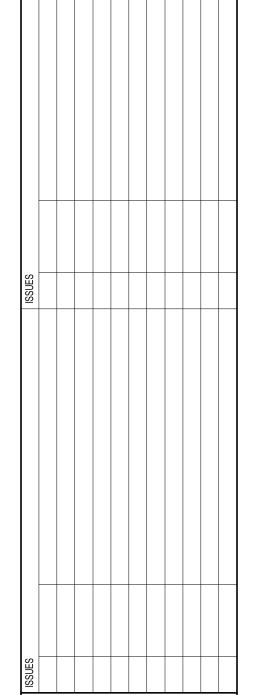


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



michael mcinturf ARCHITECTS 1116 RACE ST CINCINNATI, DH 452D2 513.639.2351 TEL 513.639.2353 FAX WWW.MCINTURF.COM



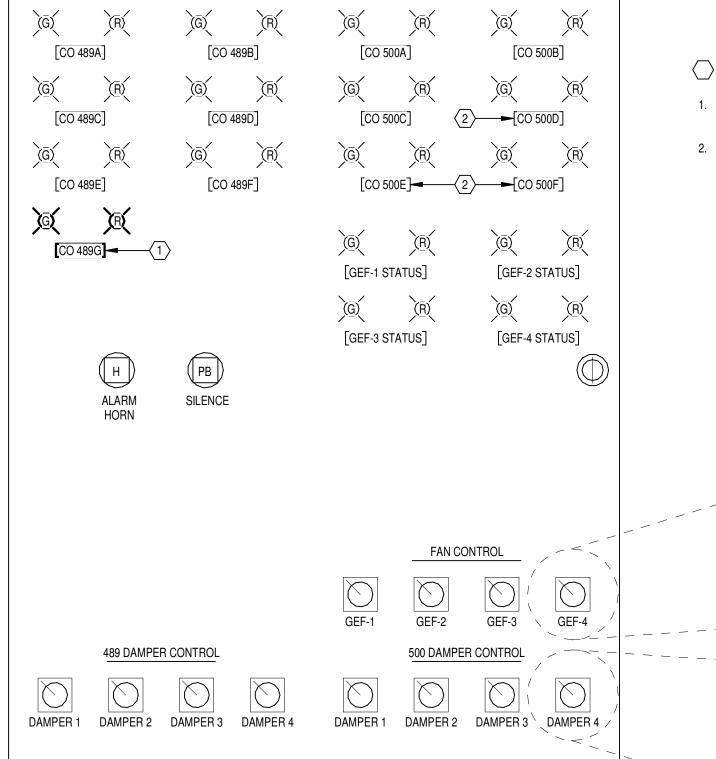




BP#2 - PARK & GARAGE

CONTROL SCHEMATIC

H302



QUANTITY: 2

EXISTING CENTRAL RIVERFRONT GARAGE ALARM PANEL LAYOUT

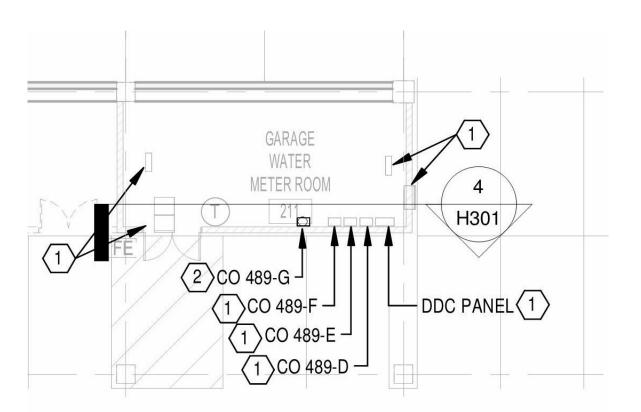
500 LEVEL

○KEYED NOTES

- MODIFY EXISTING ALARM PANEL TO INCLUDE CO/NO2 PANEL 489G AND RELATED INDICATORS.
- EXISTING INDICATORS SHALL REMAIN DECOMMISSIONED UNTIL USAGE REQUIRED.



1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. 2. NEW CARBON MONOXIDE/NITROGEN DIOXIDE MONITORING PANEL.



LOT 24 WATER METER ROOM PLAN

 WHEN SHOWN, RECEPTACLE TO HAVE "CONTROLLED" MARKINGS. □ 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE). ○ SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN. □ 20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY. 	ELEC1	TRICAL SYMBOLS
## STEUSTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING. ## 20A-125V DUPLEX RECEPTACLE. NEMA 5-20R (18" MH UNLESS NOTED OTHERWIS) ## SHOWN, RECEPTACLE. OF INAW 5-20R (18" MH UNLESS NOTED OTHERWIS) ## SHOWN, RECEPTACLE. OF INAW 5-20R (18" MH UNLESS NOTED OTHERWIS) ## 20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE. REFER TO NOTE ON PLAN. ## 20A-125V DUPLEX RECEPTACLE. NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWIS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 20A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISS) ## 30A-30A-125V DUPLEX RECEPTACLE, NE	(D) 3	
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O 20A 20A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE). O 30A 30A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE). O 50A 50A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE). O 20A 20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE). O 30A 30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE). O 30A 30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE). O 30A 30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE). S SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE). S SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE). P S SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE). L S LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE). L S LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED. R S SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED. R S SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) STANDARD TWO-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE). H P RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE). ELECTRICAL PANEL OR SWITCH BOARD PER DRAWINGS. P P PULL BOX. □ B LICHLINGTON MOTOR STARTER AND DISCONNECT SWITCH. □ COMBINATION MOTOR STARTER AND DISCONNECT SWITCH. □ COMBINATION MOTOR STARTER AND DISCONNECT SWITCH. □ COMBINATION MOTOR STARTER AND LUMINAIRE, PROVIDE 120 VOLT CIRCUIT. □ LINE VOLTAGE THERMOSTAT. P C U CONDENSING UNIT. □ LICHTING CONTACTOR. □ BLUE LIGHT PHONE AND LUMINAIRE, PROVIDE 120 VOLT CIRCUIT. □ LINE VOLTAGE THERMOSTAT. P C HULL BOX CILCHING MOUNTED OCCUPANCY SENSOR. □ S WALL MOUNTED OCCUPANCY SENSOR. □ S WALL MOUNTED DAYLIGHT SENSOR.	$ \Psi $	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH
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	φ ^{50A}	NOTED OTHERWISE).
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LC LIGHTING CONTACTOR. OS CEILING MOUNTED OCCUPANCY SENSOR. WALL MOUNTED OCCUPANCY SENSOR. DS CEILING MOUNTED DAYLIGHT SENSOR.	T	
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WALL MOUNTED OCCUPANCY SENSOR. ©S CEILING MOUNTED DAYLIGHT SENSOR.	$\overline{}$	
©S CEILING MOUNTED DAYLIGHT SENSOR.	-	
	\vdash	
OP OCCUPANCY SENSOR POWER PACK.		
	OP	OCCUPANCY SENSOR POWER PACK.

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

FIRE ALARM SYMBOLS

	
FACP	FIRE ALARM CONTROL PANEL.
RAP	REMOTE ANNUNCIATOR PANEL.
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL.
ASSD	AIR SAMPLING SMOKE DETECTOR BASE UNIT.
15 F ⊠	FIRE ALARM SPEAKER & SIGNAL LIGHT (80" AFF), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL B RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
- ♦ ¹⁵ _F	FIRE ALARM SIGNAL LIGHT (80" AFF), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
ĒΚ	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
<u>\$</u>	CEILING MOUNTED SMOKE DETECTOR.
Œ	CEILING MOUNTED HEAT DETECTOR.
S _{S/R}	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
HS/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
FS	WATER FLOW SWITCH.
V	VALVE SUPERVISORY SWITCH.
W R	CEILING MOUNTED REMOTE TEST STATION AND ALARM INDICATOR LIGHT FOR DUCT DETECTOR. SUBSCRIPT "W" INDICATES WALL MOUNTED.
SD	SMOKE DAMPER.
FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
	PRESSURE SWITCH.
PS	THEOGOTE OWNOT.
PS AM C/	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
AM	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C"

LUMINAIRE SYMBOLS

Ω ο A a	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
90	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
፟ 🕏 🕏	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.

GENERAL NOTE

1. BRANCH CIRCUIT WIRE SIZING CHART (APPLIES TO PHASE, NEUTRAL AND GROUND CONDUCTORS) TO BE UTILIZED AS GUIDELINE FOR VOLTAGE DROP COMPENSATION. INCREASE CONDUIT SIZING PER WIRE SIZE.

(APPLIES TO ALL SHEETS)

A) 20A - 120V CIRCUITS

1) #12 WIRE - 75' LENGTH MAX. 2) #10 WIRE - 125' LENGTH MAX. 3) #8 WIRE - 190' LENGTH MAX.

B) 20A - 277V CIRCUITS
1) #12 WIRE - 173' LENGTH MAX.
2) #10 WIRE - 288' LENGTH MAX.
3) #8 WIRE - 443' LENGTH MAX.

GENERAL FLOOR PLAN NOTES

GENERALIE	OR PLAN NOTES
B E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
T2 1	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
3>	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS
3	SHOWN. DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
3	LIGHTING CONTROL DETAIL NOTE. APPLIES TO THE LIGHTING CONTROL SEQUENCE OF OPTERATIONS SCHEDULE FOR ROOM
	CONTROL LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
4"——	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
===4":===	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
4"	CONDUIT TO BE REMOVED.
EX	EXISTING WIRE & CONDUIT TO REMAIN.
DAT	CONDUIT FOR DATA CIRCUITRY.
EM	WIRE & CONDUIT FOR EMERGENCY CIRCUITRY.
FA=	WIRE & CONDUIT FOR FIRE ALARM CIRCUITRY.
	WIRE & CONDUIT FOR INTERCOM SYSTEM CIRCUITRY.
NC	WIRE & CONDUIT FOR NURSE CALL CIRCUITRY.
	WIRE & CONDUIT FOR NIGHT LIGHT CIRCUITRY.
PHO	CONDUIT FOR PHONE CIRCUITRY.
S	WIRE & CONDUIT FOR SOUND SYSTEM CIRCUITRY.
SEC=	WIRE & CONDUIT FOR SECURITY SYSTEM CIRCUITRY.
TV=	WIRE & CONDUIT FOR TELEVISION SYSTEM CIRCUITRY.
W	WIRE RUN IN SURFACE WIREWAY.
——СМ——	CABLE MANAGEMENT SYSTEM PATHWAY.
X - 1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

ABBREVIATIONS

ווטטא	EVIATIONS		
AAP -	- AREA ALARM PANEL - MEDICAL GAS	ID	- INSIDE DIAMETER
	- ACCESS	IN	- INCHES
	- ADJUSTABLE		
AF	- ARC FAULT CIRCUIT INTERRUPTER	KEC	- KITCHEN EQUIPMENT CONTRACTOR
	- ARC FAULT CIRCUIT INTERRUPTER		
		L	- LENGTH
	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM	LBS	- POUNDS
	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM	250	1 001120
	- ALTERNATE	MAP	- MASTER ALARM PANEL (MEDICAL GAS)
AP	- ACCESS PANEL	MAX	- MAXIMUM
APPROX	C - APPROXIMATE		- MEZZANINE
ARCH	- ARCHITECT OR ARCHITECTURAL	MEZZ	
ASSY	- ASSEMBLY	MFR	- MANUFACTURER
ATS ·	- AUTOMATIC TRANSFER SWITCH	MH	- MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
		MIN	- MINIMUM OR MINUTE
BLDG	- BUILDING		
30E -	- BOTTOM OF EQUIPMENT	MTD	- MOUNTED
	- BOTTOM	MTG	- MOUNTING
BTWN			
J		NIC	- NOT IN CONTRACT
CEC!	- CONTRACTOR FURNISHED CONTRACTOR	NOM	- NOMINAL
NSTALL		NTS	- NOT TO SCALE
		_	
	- CIRCUIT	OD	- OUTSIDE DIAMETER
	- CEILING	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
_	- CONCRETE MASONRY UNIT	OFOI	- OWNER FURNISHED OWNER INSTALLED
CONN		OI OI	- OWNER I ORNISHED OWNER INSTALLED
CONTR -	- CONTRACTOR	DC	DI LIMDING CONTRACTOR (DIVIGIONI 99)
CORR	- CORRIDOR	PC	,
CTR ·	- CENTER	PLBG	- PLUMBING
		DAD	DADUIG
D .	- DEPTH	RAD	- RADIUS
DET ·	- DETAIL		- RECESSED
OIA .	- DIAMETER		- REQUIRED
	- DIMENSION	RI	- ROUGH-IN
	- DIVISION		
ON.	- DOWN	S	- SURFACE MOUNTED
	- DRAWING	SC	- SECURITY CONTRACTOR
/VV CI	DIAWING	SCH	- SCHEDULE
- _^	TACII.	SHT	- SHEET
EA C	- EACH	SMS	
ΞC	- ELECTRICAL CONTRACTOR (DIVISION 26)	SPEC	- SPECIFICATIONS
	- EXPANSION JOINT	SQ	
	- ELECTRICAL		- STAINLESS STEEL
	- ELEVATION OR ELEVATOR		
	- EMERGENCY		- STRUCTURAL OR STRUCTURE
	- EQUAL		
EQS -	- EQUIPMENT SUPPLIER	300	- SITE UTILITY CONTRACTOR
EQUIP	- EQUIPMENT	TO	TEOLINOLOGY CONTRACTOR
	- EXISTING TO REMAIN	TC	- TECHNOLOGY CONTRACTOR
	- EXISTING	TEMP	
	- EXPANSION		- TOP OF EQUIPMENT
	- EXTERIOR	TYP	- TYPICAL
./ \ 1			
FCE -	- FIRE CONTROL EQUIPMENT	UNO	- UNLESS NOTED OTHERWISE
	- FINISHED FLOOR ELEVATION		
	- FLOOR	VFD	- VARIABLE FREQUENCY DRIVE
		VOL	- VOLUME
	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)		
	- FEET	W/	- WITH
FTG ·	- FOOTING	W/O	- WITHOUT
0.0	OFNEDAL CONTRACTOR	WP	- WEATHERPROOF
GC .	- GENERAL CONTRACTOR	V V I	WEATHER HOOF
GF	- GROUND FAULT CIRCUIT INTERRUPTER	ZVC	- ZONE VALVE CABINET
	- GROUND FAULT CIRCUIT INTERRUPTER OR	۷۷	- ZOINE VALVE CADIINET
GOVERN	NMENT FURNISHED CONTRACTOR		
INSTALL	ED		
GFFT	- GROUND FAULT FEED THRU		

	SHEET LIST LOT 28 ELECTRICAL	
Sheet Number	Sheet Name	
E001	LEGEND AND INDEX	
E002	SCHEDULES	
E003	PANELBOARDS	
E004	SINGLE-LINE	
E005	DETAILS	
E201	LIGHTING PLANS LOT 28	
E201	POWER BLANS LOT 28	

- HVAC CONTRACTOR (DIVISION 23)

HVAC - HEATING, VENTILATING, AND AIR CONDITIONING

HP - HORSE POWER OR HÌGH POINT

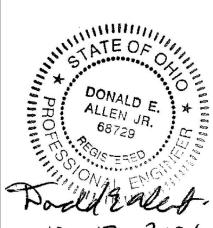


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



Heapy Engineering

MEP Design Technology Planning Commissioning Energy 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com

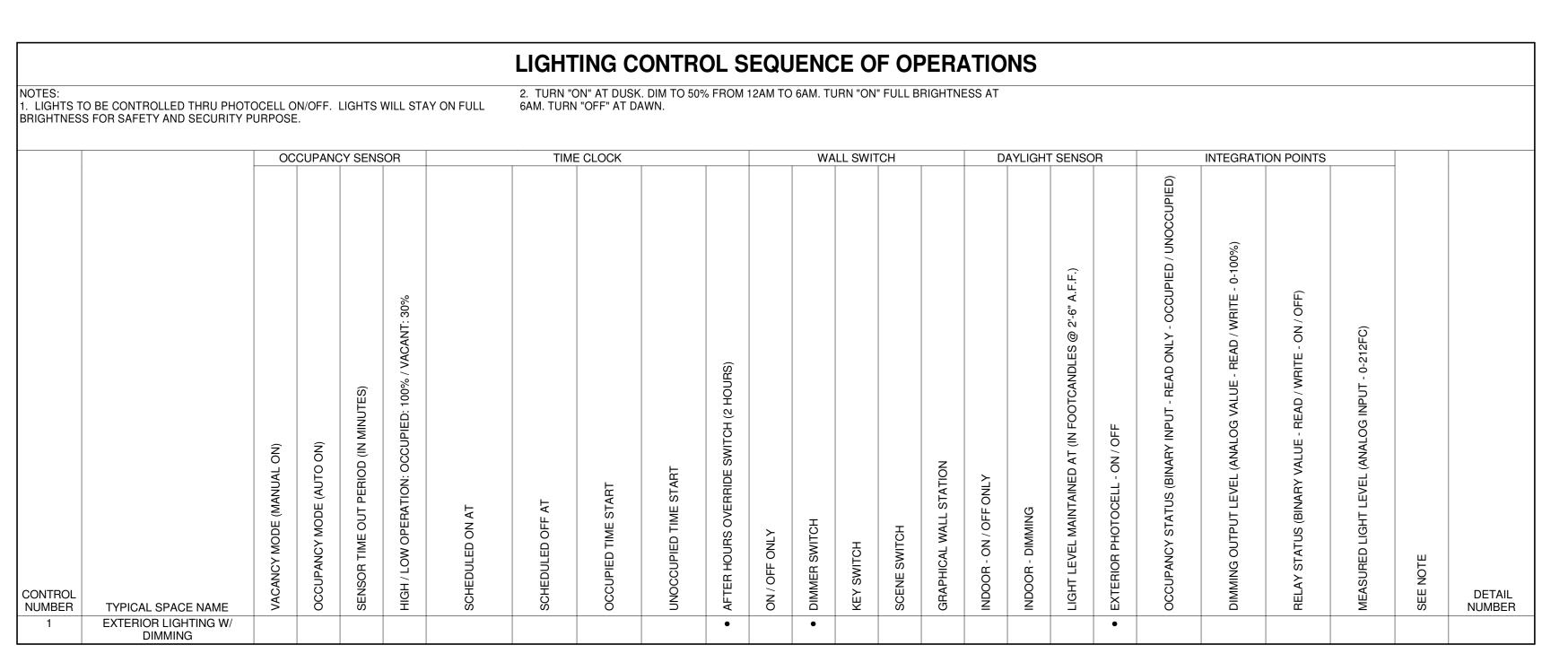




LEGEND AND INDEX

BP#2 - PARK &

98090.40 12/17/2021 DRAWING NUMBER



									MC	TORS	S, ST	AR	ΤE	RS,	DI	ISC	CON	INE	EC	rs ·	& C	ON	TR	OL	S												
NOTES: 1. COOF	RDINATE EQUIPMENT L	OCATION	WITH PO	Э.																																	
				1	мото	R										STA	ARTEF	?							OISCOI	NNEC.	ГМЕА	NS			T	CONT	ROL		I	FEEDE	R
			С	HARAC	TERIS	STICS	;			LOCATIO	N			TY	PE.			LOC	CATIO	N				TYPE			L	OCAT	ION		U.						
MARK	NAMEPLATE	HORSEPOWER (HP)	LOAD (KVA)	120V-1PH	208V-3PH		240V-3PH 277V-1PH	480V-1PH	ROOM NUMBER	ROOM	I NAME	NEMA SIZE	MANUAL	MAGNETIC BUILT-IN MOTOR O/L	2-SPEED	VFD	SEE NOTE NEAR MOTOR	MOTOR CONT CENTER		SEE NOTE	FURNISHED BY		MANUAL STARTER	FEEDER SW OR BREAKER	NEMA TYPE	FUSE SIZE	NEAR MOTOR	ONT PAN	PANELBOARD	SEE NOTE FURNISHED BY	농	MANUAL AT STARTER INTEGRAL WITH EQUIPMENT	FURNISHED BY	SEE NOTE	NUMBER OF CONDUCTORS	WIRE SIZE GROUND SIZE	
3P-1	BOOSTER PUMP 1	5 HP	6.32					•	•			0		•			•				PC	•			1 3	0	•			EC	;	•	PC		3	12 12	0.75

								LUMINAIRES									
				LAMPS								TRIM C	COLOR	MOUNTING		SIZE	
MARK	FLUORESCENT DATE OF THE PROPERTY OF THE PROPER	H.I.D. L.E.D.	WATTS / LAMP	VA / LINEAR FOOT	DELIVERED LUMENS	COLOR	LOAD (VA)	US PLAN TO THE CATALOG NO. DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	E DIFFUSING MEDIA	WHITE	BLACK	BRONZE STANDARD	S-SURFACE R-RECESSED SM-STEM MTD WM-WALL MTD C-CHAIN MTD UC-UNDER CAB UCS-CEIL SURFACE PM-POLE MOUNT	DIAMETER	WIDTH	DEPTH SEE NOTE
C1		LED	41	INCLUDED		5000K	41	277 KURTZON SERIES "WL-A" ALUMINUM HOUSING, WHITE POWDER COAT FINISH, FULLY GASKETED, UL LISTED, IP65 IP55 & HD85 RATED, 80 CRI, UNIVERSAL VOLTAGE DRIVER			•			S	3	3.699" 49.37	75" 4.5" 1, 3
H1		LED	77	INCLUDED		5000K	58	MCGRAW-EDISON SERIES ONE PIECE CAST ALUMINUM HOUSING, POWDER COAT FINISH, LM-80, UL LISTED, IP66 & 3G VIBRATION RATED, -40 DEG TO 104 DEG TEMPRATURE RATING, DIMMING OCCUPANCY SENSOR, UNIVERSAL VOLTAGE DRIVER	LITHONIA, GARDCO, BEACON	ACYLIC LENS WITH WAVESTEAM OPTICS	•			S	18.375"		4.438" 1, 2, 3
H1A		LED	77	INCLUDED		5000K	58	MCGRAW-EDISON SERIES ONE PIECE CAST ALUMINUM HOUSING, POWDER COAT FINISH, LM-80, UL LISTED, IP66 & 3G VIBRATION RATED, -40 DEG TO 104 DEG TEMPRATURE RATING, DIMMING OCCUPANCY SENSOR, UNIVERSAL VOLTAGE DRIVER, PENDANT MOUNT	LITHONIA, GARDCO, BEACON	ACYLIC LENS WITH WAVESTEAM OPTICS	•			PENDANT	18.375"		4.438" 1, 2, 3
K1		1	40	INCLUDED		4000K	0	208 LIGMAN LIGHTING ULEW-30021-T3-W40-XX LED WALL PACK -208V	LITHONIA, COLUMBIA	TYPE 3 DIST.			•	WM		12" 17.12	25" 6"
PL6		3	40	INCLUDED		4000K	120	FIXTURE: KIM LIGHTING; POLE: STRUCTURA XX-CC-CLR; POLE: REED-M-1-C-3-GALV-ST D	BEGA, INSIGHT, HYDREL	ACRYLIC LENS			•	PM - 18' ROUND POLE		12" 17.12	25" 6"
S1		1	0	9 INCLUDED		RGBW	0	277 INSIGHT LIGHTING MER-MO-RGBWQ-1060- LINEAR WALL MOUNT LED XX-XX"-DMXSY-CC	ARCHITECT APPROVED	10 X 60 DIST.			•	S		2"	1.852"
S2		1	0	4 INCLUDED		RGBW	0	OSRAM TRAXON PROPOINT KONTOUR RXX-B-X-0-0-44-0-1-3 LED COLOR CHANGING STRIP LIGHTING	ARCHITECT APPROVED	IP67 LENS			•	S		9" 312	2" 9"
X2		LED	3	INCLUDED			3	POLYCARBONATE HOUSING, UL LISTED, DAMP LOCATION LISTED, UNIVERSAL FACE PLATE DOUBLE SIDED WITH RED STENCIL LETTERS AND UNIVERSAL MOUNTING BRACKETS, MULTI-VOLTAGE	SURE LITE, CHLORIDE, LITHONIA,	WHITE HOUSING WITH RED STENCIL LETTERS, FACES AND DIRECTIONAL ARROWS PLAN				S (PER PLAN)		9" 13"	2.375" 1,3
X4		LED	3	INCLUDED			3	277 BEGEHELLI PACO SERIES "PX" POLYCARBONATE HOUSING, UL LISTED, DAMP LOCATION LISTED, UNIVERSAL FACE PLATE SINGLE SIDED WITH RED STENCIL LETTERS AND UNIVERSAL MOUNTING BRACKETS, MULTI-VOLTAGE	SURE LITE, CHLORIDE, LITHONIA, BARRON, COMPASS	WHITE HOUSING WITH RED STENCIL LETTERS, FACES AND DIRECTIONAL ARROWS PLAN				S (PER PLAN)		9" 13"	2.375" 1, 3

LUMINAIRE SCHEDULE NOTES:

LUMINAIRE MOUNTING TO MATCH THAT OF LOT 27 GARAGE.
 INTEGRAL OCCUPANCY SENSOR AT LUMINAIRE TO REDUCE LUMEN OUTPUT BY 50%.
 LUMINAIRE TO MATCH THAT OF LOT 27.

HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS



	Heapy Engineering MEP Design Technology Planning Commissioning Energy
١	Nationally Recognized Leader in Sustainability
	1400 W Dorothy Lane, Dayton, OH 45409-1310

		PROFE	// * · · · · · · · · · · · · · · · · · ·		20	NA	LD	F		*	66898388	
	1	70	t	L	1	Z	A	L		J	-/	
		1	L		1	7	_	2	00	7-1	(

ISSUES						
ISSUES						

LOT	
D (25)	LOT 24
LOT 27	LOT 23
LOT 28	

	NORTH
DRAWN BY:	JJT
ENGINEER:	JJT
CHECKED BY:	DA



Public Partners	ship
BP#2 - PAR	K &

SCHEDULES

JOB NUMBER
98090.40 12/17/2021
DRAWING NUMBER

Supp	.ocation: LOT 23 ELECTR lly From: EL-24 Voltage: 480/277 Wye-			Mounting: Surface Enclosure: Type 1 1 A							A.I.C. Rating: 10,000 Mains Type: MB Mains Rating: 125 A						
СКТ	Circuit Description	Trip	Poles		4	E	3	(Poles	Trip	Circu	it Description	СК			
1	EXITS LOT 23	20 A	1	34 VA	29 VA					1	20 A	ΕX	LL LOT 23	2			
3	EX POD LOT 23	20 A	1			112 VA	3054			1	20 A	EX	ENTRANCE	4			
5	EX LL LOT 23	20 A	1					58 VA	348 VA	1	20 A	ΕX	LL LOT 23	6			
7	EX LL LOT 23	20 A	1	1042	902 VA					1	20 A	ΕX	LL LOT 23	8			
9	EX LL LOT 23	20 A	1			984 VA	28 VA			1	20 A	E	X Lighting	10			
11	EX LOT 27 EXIT	20 A	1					52 VA	2058	1	20 A	EX EN	TRANCE AREA	12			
13	EX LL LOT 27	20 A	1	662 VA	1102					1	20 A	ΕX	LL LOT 27	14			
15	EX LL LOT 27	20 A	1			1312	756 VA			1	20 A	EX	ENTRANCE	16			
17	EX LOT 27 STAIRS	20 A	1					150 VA						18			
19	EX LOT 23 ELEC	20 A	1	360 VA	0 VA					1	20 A		Spare	20			
21							0 VA			1	20 A		Spare	22			
23	Space		1						0 VA	1	20 A		Spare	24			
25	Space		1		0 VA					1	20 A		Spare	26			
27	Space		1				0 VA			1	20 A		Spare	28			
29	Space		1						0 VA	1	20 A		Spare	30			
		Total	Load:	4.13	kVA	6.25	kVA	2.67	kVA					-			
Load	Classification		C	onnecte	ed D	emand F	actor	Estimat	ed			Panel	Totals				
Lightir	ng			13042 V	/A	125.00	%	16303	VA								
										Tota	l Conn	. Load:	13042 VA				
										Total	Est. D	emand:	16303 VA				
											Total	Conn.:	16 A				
										Total	Est. D	emand:	20 A				
Notes	: 1) "EX" IN PANEL SC	HEDUI	LE IND	ICATES	AND EX	ISTING E	BREAKE	R AND B	RANCH	CIRCU	IT SEF	RVED.					

13.04 kVA

16.3 kVA (20 A)

Description sistive Heat sistive Heat CEPTACLE EX FA T TRACE ecceptacle	20 A 20 A 20 A 20 A 20 A 20 A	Poles 2 2 1 1	1450	A 1450	ı	В		C					
sistive Heat sistive Heat CEPTACLE X FA T TRACE eceptacle	20 A 20 A 20 A 20 A 20 A 20 A	2 2 1	1450	1450					Poles	Trip	Circu	it Description	(
CEPTACLE X FA T TRACE eceptacle	20 A 20 A 20 A 20 A	2 1							2	20 A		Resistive Heat	
CEPTACLE X FA T TRACE eceptacle	20 A 20 A 20 A	 1			1450	1450							
X FA T TRACE eceptacle	20 A 20 A 20 A	1					1450	901 VA	3	20 A	[EX DAC-3	\top
X FA T TRACE eceptacle	20 A 20 A	-	1450	901 VA									\top
T TRACE	20 A	1			45 VA	901 VA							\top
eceptacle							0 VA	45 VA	1	20 A	EX F	RECEPTACLE	
	00.4	1	180 VA	180 VA					1	20 A	EX	ELEV SUMP	\top
	20 A	1			720 VA	180 VA			1	20 A	EX	Receptacle	$^{+}$
B LIGHTS	20 A	1					0 VA	408 VA	1	20 A		EX EF	
RECEPT	20 A	1	1440	180 VA					1	30 A		EX Power	
RECEPT	20 A	1			1260	180 VA			1	30 A		EX Power	
Spare	20 A	1					0 VA	0 VA	1	20 A		Spare	T
Spare	20 A	1	0 VA	0 VA					1	20 A		Spare	T
Spare	20 A	1			0 VA	0 VA			1	20 A		Spare	
Spare	20 A	1					0 VA	0 VA	1	20 A		Spare	\top
	Total	Load:	7.23	kVA	6.19	kVA	2.80	kVA				-	
ation		C	onnecte	ed D	emand F	actor	Estimat	ed	!		Panel	Totals	_
			2790 V	A	125.00)%	3488	VA					
			3110 V	A	121.72	2%	3785	VA	Tota	I Conn	. Load:	16220 VA	
			0 VA		0.00%	6	0 V	4	Total	Est. De	emand:	17593 VA	
			360 V	4	100.00)%	360 \	/A		Total	Conn.:	45 A	
			1080 V	A	100.00)%	1080	VA	Total	Est. De	emand:	49 A	
			8880 V	A	100.00)%	8880	VA					
IN PANEL SO	CHEDUL	E IND	ICATES	AND EX	(ISTING E	BREAKE	R AND E	BRANCH	CIRCU	IT SER	RVED.		
	TED									EST	ГІМАТЕІ	D DEMAND	_
		AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED	AL CONNECTED EST		AL CONNECTED ESTIMATED DEMAND

Supp	ocation: LOT 24 ELECTR ly From: Voltage: 480/277 Wye-				ng: Surf ire: Type 1 A		A.I.C. Rating: 10,000 Mains Type: MB Mains Rating: 200 A						
СКТ	Circuit Description	Trip	Poles	Α		В			С		Trip	Circuit Description	СКТ
1	EX DPAP	20 A	3	1109	1109					3	20 A	EX DAC2	2
3						1109	1109						4
5								1109	1109				6
7	EX JP1	20 A	3	1386	6651					3	30 A	EX EUH-1	8
9						1386	6651						10
11								1386	6651				12
13	EX EUH-3	25 A	3	4988	4988					3	25 A	EX EUH-2	14
15						4988	4988					==	16
17								4988	4988				18
19	EX MOTOR	20 A	3	1109	3570					3	45 A	EX T10	20
21						1109	3540						22
23								1109	1990				24
25	EX Spare	20 A	3	0 VA						1		Space	26
27						0 VA				1		Space	28
29								0 VA		1		Space	30
31	EX Spare	20 A	1	0 VA						1		Space	32
33	EX Spare	20 A	3			0 VA				1		Space	34
35								0 VA		1		Space	36
37				0 VA						1		Space	38
39	EX Spare	20 A	1			0 VA				1		Space	40
41	EX Spare	20 A	1					0 VA		1		Space	42

41	EX Spare	20 A	1					0 VA		1		Space	42
·		Total	Load:	24.91	kVA	24.88	3 kVA	23.33	3 kVA		•		•
lotes	s: 1) EXISTING PANE 2) "EX" IN PANEL										JIT SE	RVED.	
	TOTAL CONNE	CTED									ES	TIMATED DEMAND	

Supp	ocation: LOT 23 ELECTR ly From: T10 Voltage: 120/208 Wye-				Mounting: Surface Enclosure: Type 1 1 A						A.I.C. Rating: 10,000 Mains Type: MB Mains Rating: 100 A						
СКТ	Circuit Description	Trip	Poles		4	E	3	(С	Poles	Trip	Circuit Description		CK			
1	EX Blue Light	20 A	1	180 VA	360 VA	1				1	20 A	EX	K Blue Light	2			
3	EX Security	20 A	1			1000	1000			1	20 A	E	X Security	4			
5	EX Blue Light	20 A	1					180 VA	500 VA	1	20 A	E	X Security	6			
7	EX Blue Light	20 A	1	360 VA	1180					1	20 A	Е	X Security	8			
9	EX Power	20 A	1			180 VA	1000			1	20 A	Е	X Security	10			
11	Spare	20 A	1					0 VA	1310	2	20 A		EX CU-1	12			
13	EX Receptacle	20 A	1	180 VA	1310									14			
15	EX PAY STATION	20 A	1			180 VA	180 VA			1	20 A	EX E	LEV L LOT 23	16			
17	Space		1											18			
19	Space		1											20			
		Total	Load:	3.57	kVA	3.54	kVA	1.99	kVA					•			
Load	Classification			Connecte	ed [Demand F	actor	Estimat	ed			Panel	Totals				
Motor				2621 V	Α	124.21	%	3255 \	VA								
Power	•			5760 V	Α	100.00	%	5760 \	VA	Tota	I Conn	. Load:	9101 VA				
Recep	otacle			720 V	4	100.00	%	720 V	/A	Total	Est. De	emand:	9735 VA				
											Total	Conn.:	25 A				
										Total	Est. De	emand:	27 A				
			•				'										
Notes	: 1) "EX" IN PANEL SC	CHEDUI	LE IND	ICATES	AND EX	(ISTING E	BREAKE	R AND B	BRANCH	CIRCU	IT SER	VED.					
	TOTAL CONNEC	TED									EST	IMATE	D DEMAND				
	9.1 kVA										9.	74 kVA	(27 A)				

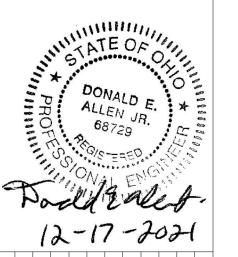
	Poles 1		ircuit Description	CKT
	1 1	20 A	EX LL LOT 23	2
	1	20 A	EX LL LOT 23	4
34 VA 428 VA	1	20 A EX	STORAGE LOT 23	6
	1	20 A		8
	1	20 A	EX LL LOT 27	10
275 1275	3	20 A	EX UH2	12
				14
				16
2162 2440	1	20 A	Lighting	18
	1	20 A	• •	20
	1	20 A		22
2106 0 VA	1	20 A		24
	1	20 A	Spare	26
	1	20 A	Spare	28
0 VA 0 VA	1	20 A	Spare	30
9.77 kVA				
stimated		Pa	nel Totals	
15425 VA				
22073 VA	Tota	l Conn. Lo	ad: 32792 VA	
	Total	Est. Dema	nd: 37498 VA	
		Total Co	nn.: 39 A	
	Total	Est. Dema	nd: 45 A	
			1	
21 0 S	62 2440 06 0 VA VA 0 VA 9.77 kVA timated 5425 VA	1 1 275 1 1 275 3 3 62 2440 1 1 1 06 0 VA 1 1 1 1 VA 0 VA 1 1 9.77 kVA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 A 275 1275 3 20 A 62 2440 1 20 A 06 0 VA 1 20 A 1 20 A VA 0 VA 1 20 A 9.77 kVA timated Pa 5425 VA 2073 VA Total Conn. Lo Total Est. Dema Total Col	1 20 A EX LL LOT 27 275 1275 3 20 A EX UH2



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LOT D LOT 24

LOT 27 23

LOT 28

DRAWN BY:

JJT

ENGINEER:

JJT

CHECKED BY:

DA



BP#2 - PARK & GARAGE

PANELBOARDS

JOB NUMBER
98090.40 1
DRAWING NUMBER

R 40 12/17/2021 UMBER



Consulting Engineers 100 East Eighth Street Cincinnati, Ohio 45202 Phone: (513) 241-3222 Fax: (513) 241–2981

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(25) 27

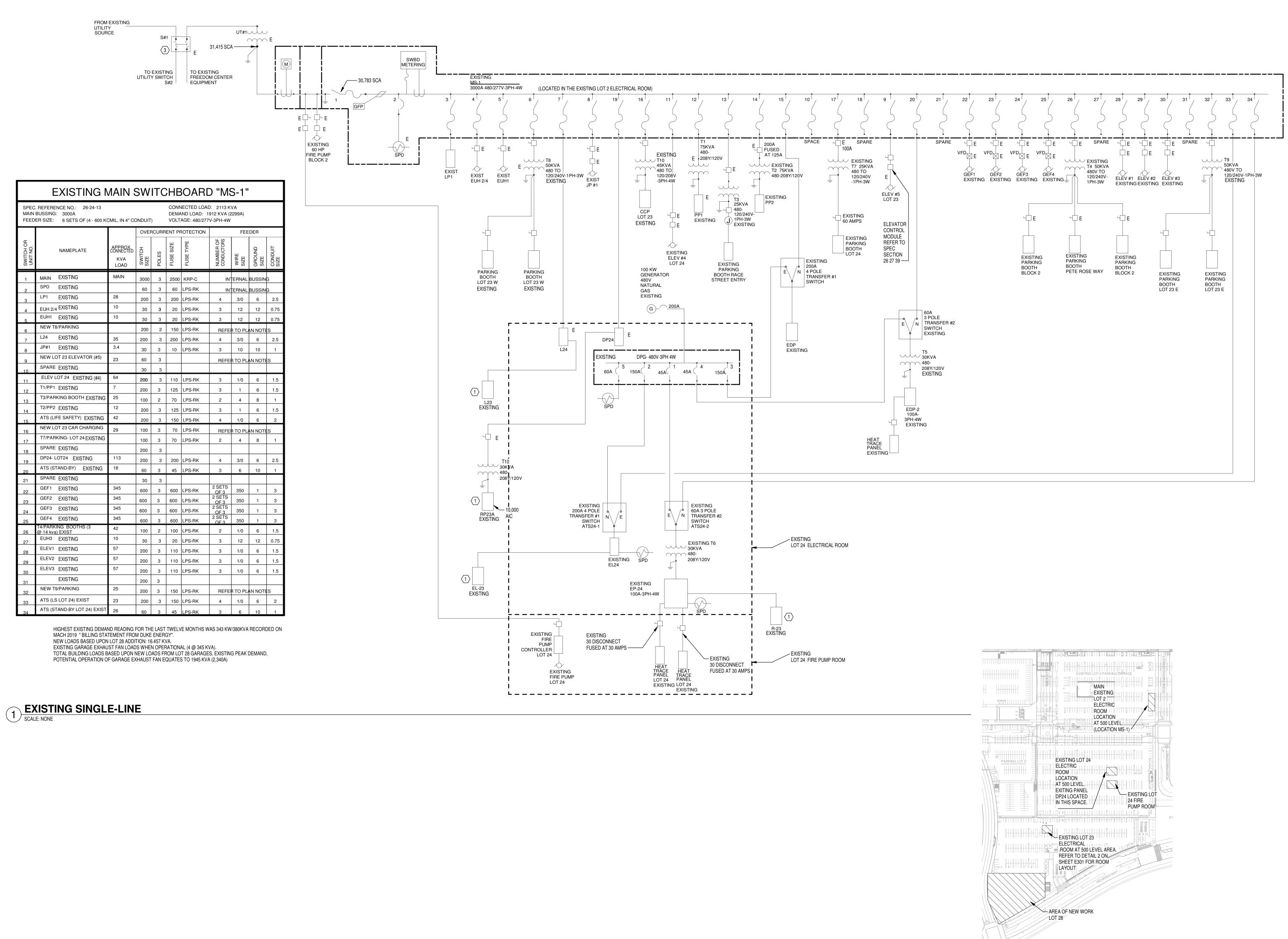
THE BANKS Public Partnership

> BP#2 - PARK & GARAGE

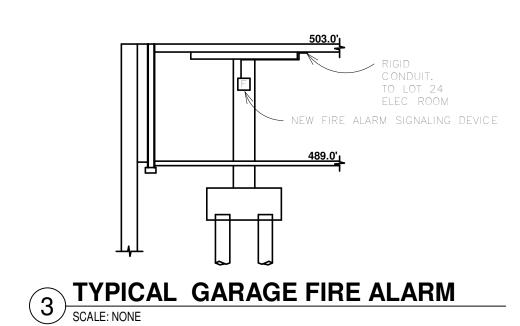
SINGLE-LINE

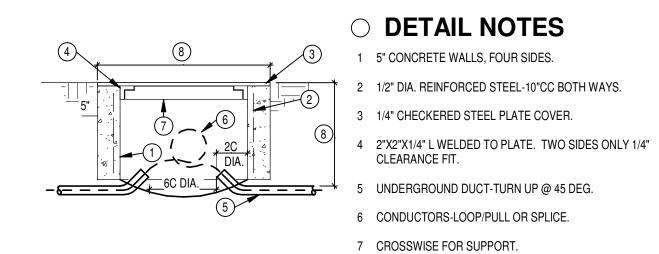
3 ELECTRICAL LOWER LEVEL OVERVIEW
SCALE: 1" = 160'-0"

98090.40 12/17/2021 DRAWING NUMBER



1 EXPANSION JOINT LOT 28 SCALE: NONE





8 SIZE PULL BOX PER NEC.

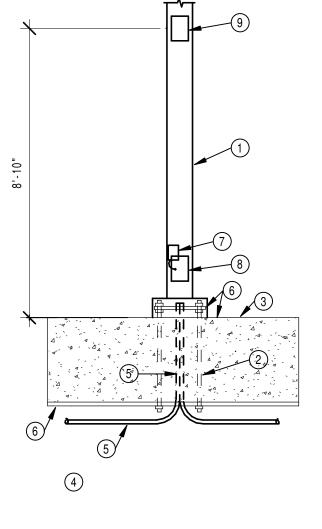
GROUND PULLBOX
SCALE: NONE

PARKING GARAGE TREE PIT AREA PARKING GARAGE

O DETAIL NOTES

- 1 CONCRETE STRUCTURAL SLAB
- 2 CONCRETE TREE PIT.
- 3 SLEEVE FOR CONDUIT LOCATED HIGH AT STRUCTURAL SLAB, REFER TO PLANS FOR SIZES AND QUANTITIES. IN AREAS OF MULTIPLE SLEEVES, THE SLEEVES SHALL BE PLACED NO CLOSER THAN 6" APART TO ALLOW FOR WATERPROOFING MATERIAL INSTALLATION.
- 4 RIGID METAL CONDUIT, REFER TO PLANS AND SPECIFICATIONS FOR SIZES.
- 5 TRANSITION FROM RIGID METAL CONDUIT TO PVC CONDUITS IN TREE PIT AREAS.
- 6 THREADED COUPLING.
- 7 PROVIDE WATERTIGHT SEAL BETWEEN SLEEVE AND CONDUIT RACEWAY.

2 SLEEVE DETAIL FOR TREE PITS
SCALE: NONE



O DETAIL NOTES

- 1 SEE FIXTURE SCHEDULE FOR POLE AND FIXTURE ASSEMBLY.
- 2 ANCHOR BOLTS BY E.C., WELD TO REBARS. REFER TO STRUCTURAL DRAWINGS FOR ANCHOR BOLTS
- INFORMATION. 3 CONCRETE SLAB.
- 4 EXISTING PARKING GARAGE
- 5 RIGID GALVANIZED STEEL CONDUIT.
- 6 EXISTING PARKING GARAGE CEILING. (TYPICAL)
- 7 LIGHTNING ARRESTOR. EXTEND TO THE BUILDING GROUNDING LOOP PROVIDED UNDER BID PACK #5 WITH #2/0
- 8 HANDHOLE.
- 9 PROVIDE WEATHERPROOF DUPLEX RECEPTACLE WITH TAYMAC OR EQUAL BY HUBBEL OR LEVITON COVERPLATE DIRECTLY ABOVE HANDHOLE FOR ALL LOCATIONS AS INDICATED ON PLAN. REFER TO LEGEND FOR ADDITIONAL REQUIREMENTS. PROVIDE BRANCH CIRCUITRY AS INDICATED ON PLANS.

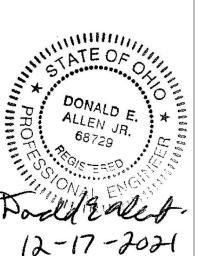
GENERAL NOTE: REFER TO POLE BASES WITH STRUCTURAL DRAWING SHEETS AND PROVIDE ACCORDINGLY. AVOID CUTTING PRETENSION STRANDS AND REBAR. THIS DETAIL IS FOR SCHEMATIC IN NATURE AND DOES NOT INCLUDE ALL PIECES AND ACCESSORIES FOR A COMPLETE SYSTEM. THIS SCHEMATIC IS MEANT TO SHOW INTENT AND SHALL NOT BE USED FOR A BOM. E.C. IS RESPONSIBLE TO COORDINATE AND PROVIDE ALL COMPONENTS TO MEET THE INTENT OF THIS SCHEMATIC AND FOR A COMPLETE AND OPERATIONAL INSTALLATION.

5 TYPE PL6 POLE BASE SCALE: NONE

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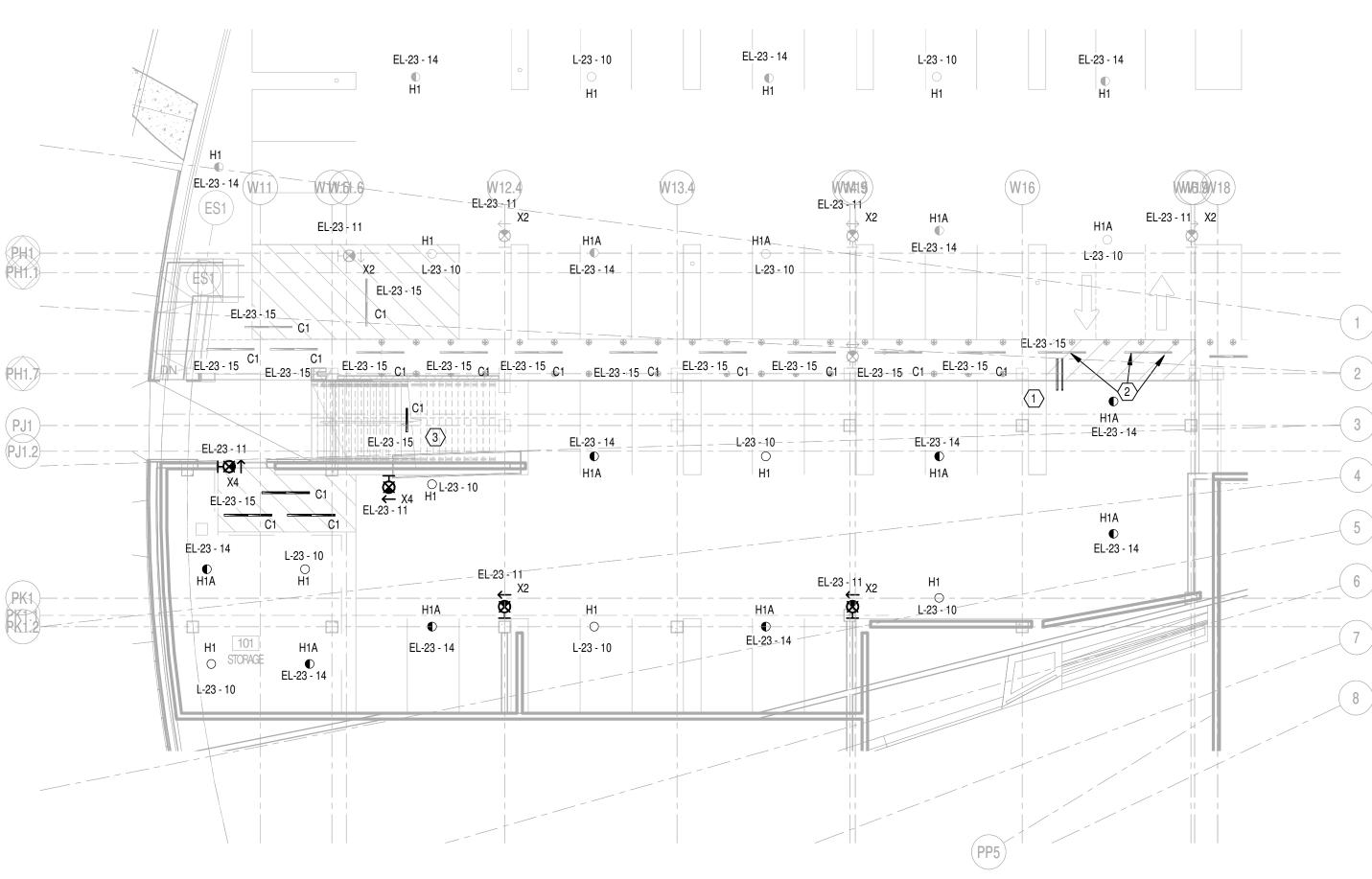




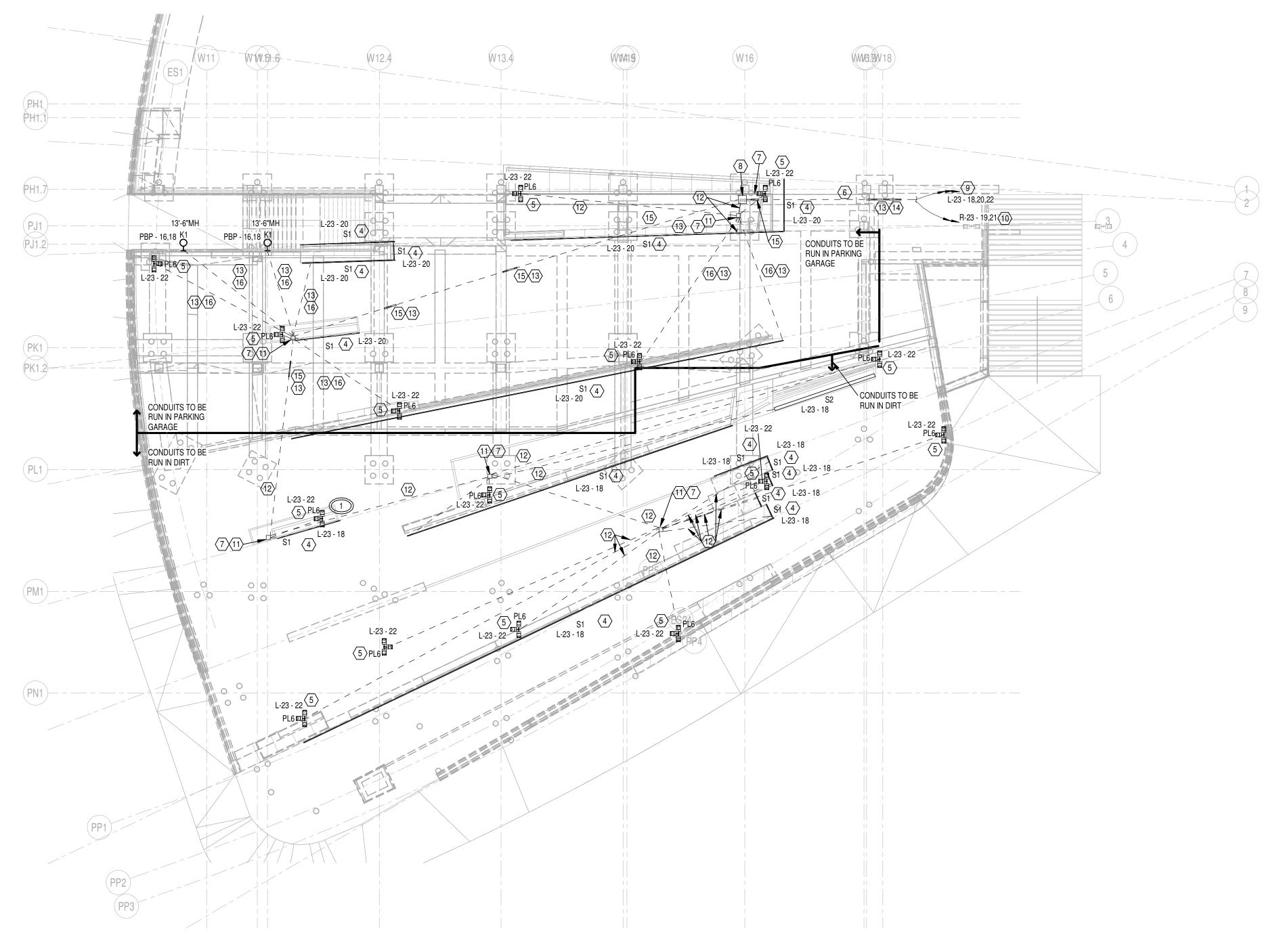
BP#2 - PARK & GARAGE

DETAILS

98090.40 12/17/2021 DRAWING NUMBER



1 LOWER LEVEL LIGHTING PLAN (LOT 28 & PARTIAL LOT 27)
SCALE: 1/16" = 1'-0"



2 UPPER LEVEL LIGHTING PLAN (LOT 28 & PARTIAL LOT 27)
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

- A. ALL UNDERGROUND CONDUITS AND DUCTBANKS SHALL BE DIRECT BURIED PER DETAILS, ON SHEET E005 UNLESS INDICATED OTHERWISE. ALL CONDUITS BURIED UNDER DRIVEWAYS AND PARKING AREAS WHERE AUTOMOBILE TRAFFIC PASSES THROUGH AND ANY BENDS IN CONDUIT SHALL BE CONCRETE ENCASED. PROVIDE ALL CONDUITS WITH PULLWIRE; ALL CONDUITS SHALL BE 1.5" UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL UTILIZE COMMON TRENCH(ES) WHERE EVER FEASIBLE.
- B E.C. IS RESPONSIBLE FOR ALL CUTTING, PATCHING AND RESURFACING OF ANY/ALL HARD SURFACES DISTURBED TO FACILITATE THIS WORK. E.C. SHALL REFER TO CIVIL DRAWINGS SHEET FOR EXACT ROUTING OF ALL UNDERGROUND UTILITIES.
- C THIS SITE WILL BE REGRADED AND RENOVATED UNDER THIS PROJECT; REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR AREA WHERE NEW WORK WILL OCCUR. E.C. SHALL REMOVE ALL ELECTRICAL DEVICES. LIGHT POLES, UNDERGROUND CONDUITS AND OTHER EQUIPMENT ASSOCIATED WITH DIV 26 TO ACCOMMODATE ALL NEW CONSTRUCTION ON SITE. ONLY EXISTING DEVICES SERVING EXISTING EQUIPMENT TO REMAIN AND DEVICES INDICATED AS EXISTING SHALL BE MAINTAINED.
- D ALL STREET LIGHT POLES ON ELM ST AND OHIO RIVER SCENIC BYWAY SHALL

○ NOTES:

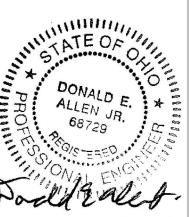
- 1. PROVIDE 3-1.5" SLEEVES FOR LIGHTING, FIRE ALARM AND POWER RACEWAYS, CLOSELY COORDINATE SLEEVE LENGTHS WITH ALL STRUCTURAL DRAWINGS.
- 2. EXISTING LUMINAIRE SHALL BE REMOVED AT DRIVE AISLE.
- 3. LOCATE "C1" FIXTURE BELOW LANDING AT STAIR FOR SECURITY LIGHTING.
- 4. MOUNT "S1" FIXTURES UNDERNEATH CONCRETE BENCH/LIP, AND AIM AT DOWN AT PATHWAY. COORDINATE EXACT AIMING WITH ARCHITECT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
- 5. COORDINATE EXACT AIMING OF "PL6" FIXTURE'S INDIVIDUAL LIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
- 6. E.C. SHALL PROVIDE CONTROL WIRING FROM C-BOX LOCATION AT GRADE INTO PARKING GARAGE AND TO THE LUMEN TOUCH 2.0 CONTROLLER. MOUNT CONTROLLER IN EXISTING ELECTRICAL ROOM. RUN CONDUIT AND WIRING THROUGH EXISTING PARKING GARAGE OVER TO ELECTRICAL ROOM TO LUMENTOUCH 2.0 CONTROLLER. CONDUIT SHALL BE .75".
- 7. PROVIDE WEATHERPROOF BOX MOUNTED IN PLANTER BED. BOX SHALL HOUSE THE C-BOX CONTROLLER FOR COLOR CHANGING LIGHTS. EXTEND CONDUIT AND CONTROL WIRING TO FIXTURES AND TO LUMENTOUCH CONTROLLER FROM THIS LOCATION. (E.C. SHALL THE OPTION TO PROVIDE EXTERIOR RATED C-BOX IN LIEU OF WEATHERPROOF ENCLOSURE).
- 8. 24"X24" FLUSH GRADE PULL BOX ENCLOSURE WITH GREEN GASKET COVER WITH APPROPRIATE LOGO. PER DETAIL 4, SHEET E005. PULLBOX CONTAINS ALL EXTERIOR LIGHTING (AND RECEPTACLE) CONDUITS; EXTEND (2)-4" CONDUITS FROM THIS PULLBOX TO ELECTRIC ROOM TO SERVE EXTERIOR LIGHTING AND EXTERIOR RECEPTACLE CIRCUITS. PROVIDE DIVIDER PLATE INSIDE TO SEGREGATE THE LIGHTING AND RECEPTACLE CIRCUITS AND PROVIDE LABEL ON WIRING TO INDICATE BRANCH CIRCUITS. REFER TO NOTES ON THIS SHEET.
- 9. RUN 20A, 277V-1PH LIGHTING CIRCUIT WITH 2-#8, 1-#8 GRD., IN COMMON 1.5" CONDUIT WITH RECEPTACLE CIRCUIT TO EXTERIOR LIGHTING PULLBOX (NOTE 8, THIS SHEET. EXTEND FROM PULLBOX TO PANEL IN ELECTRICAL ROOM AS INDICATED. RUN LIGHTING BRANCH CIRCUITS THROUGH EXTERIOR LIGHTING CONTROLS PER DETAILS ON SHEET E005.
- 10. RUN 20A, 120V-1PH RECEPTACLE CIRCUIT WITH 2-#8, 1-#8 GRD., IN COMMON 1.5" CONDUIT WITH LIGHTING CIRCUIT TO PULLBOX (NOTE 8, THIS SHEET). EXTEND FROM PULLBOX AND TO PANEL IN PARKING GARAGE. RUN RECEPTACLE BRANCH CIRCUITS THROUGH EXTERIOR LIGHTING/RECEPTACLE CONTROL RELAY PER DETAIL ON SHEET E005.
- 11. FLUSH GRADE PULLBOX ENCLOSURE WITH GREEN GASKETED COVER WITH APPROPRIATE LOGO, PER DETAIL 4, ON SHEET E005. 12. CONDUIT MOUNTED IN DIRT.
- 13. CONDUIT MOUNTED UNDER STRICTURE IN PARKING GARAGE.
- 14. PROVIDE 1-.75" & 2-1.5" SLEEVES. COORDINATE EXACT LOCATION WITH STRUCTURAL/ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY. REFER TO DETAIL 1, ON SHEET E005 FOR ADDITIONAL INFORMATION.
- 15. PROVIDE SLEEVES. COORDINATE EXACT LOCATION WITH STRUCTURAL/ARCHITECT AND CONSTRUCTION MANAGER PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY. REFER TO DETAIL 2 ON SHEET E005 FOR ADDITIONAL INFORMATION.
- 16. PROVIDE 1-.75" & 2-1.5" SLEEVES. COORDINATE EXACT LOCATION WITH STRUCTURE/ARCHITECT PRIOR TO ROUGH IN AND PROVIDE ACCORDINGLY.

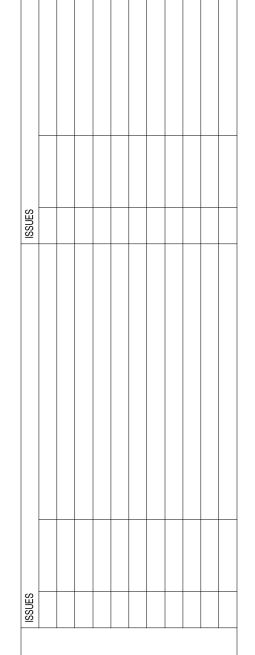


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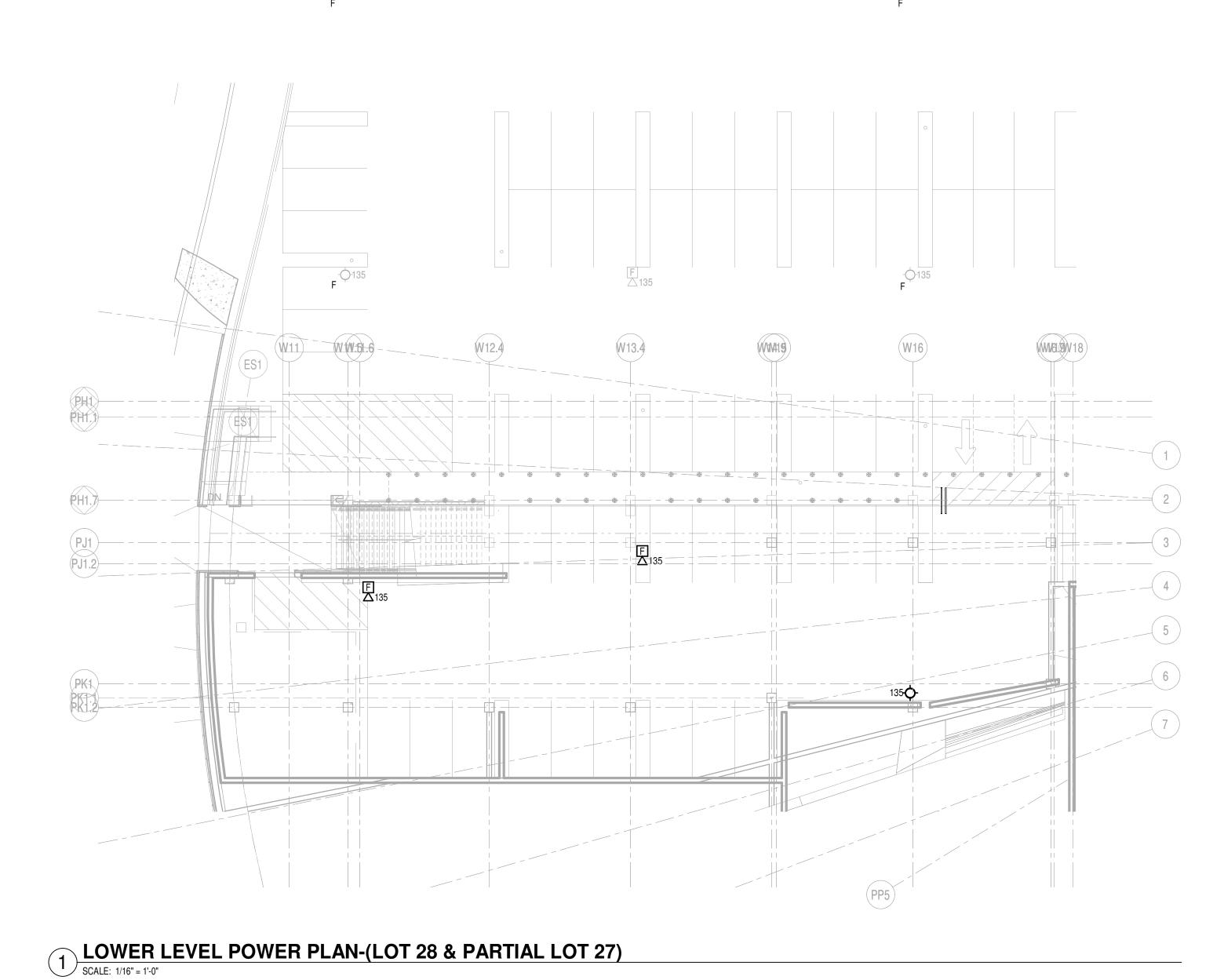






LIGHTING PLANS LOT 28

98090.40



○ PLAN NOTES

2 EXISTING (LOT 23) ELECTRIC ROOM ENLARGED

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

 PROVIDE NEW LUMENPULSE LUMEN TOUCH 2.0 (LT02) OR EQUAL. S1 AND S2 FIXTURES DMX TO BE DAISY CHAINED. PROVIDE DMX COMPATIBILITY WIRING FROM S1 AND S2 TO THE LT02. PROVIDE ALL THE COMPONENTS NECESSARY TO MAKE A COMPLETE AND OPERATIONAL SYSTEM AND INSTALLATION.



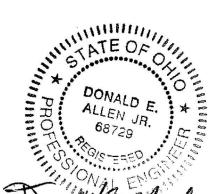
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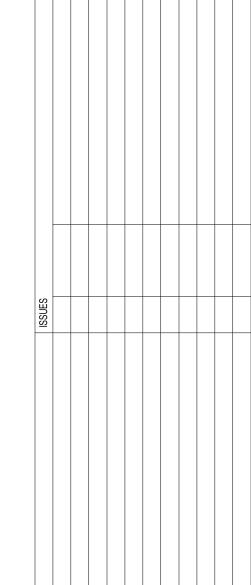
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12-17-2021



LOT D LOT 24

LOT 27 23

LOT 28

DRAWN BY:

UNDERSY:

JJT

CHECKED BY:

DA



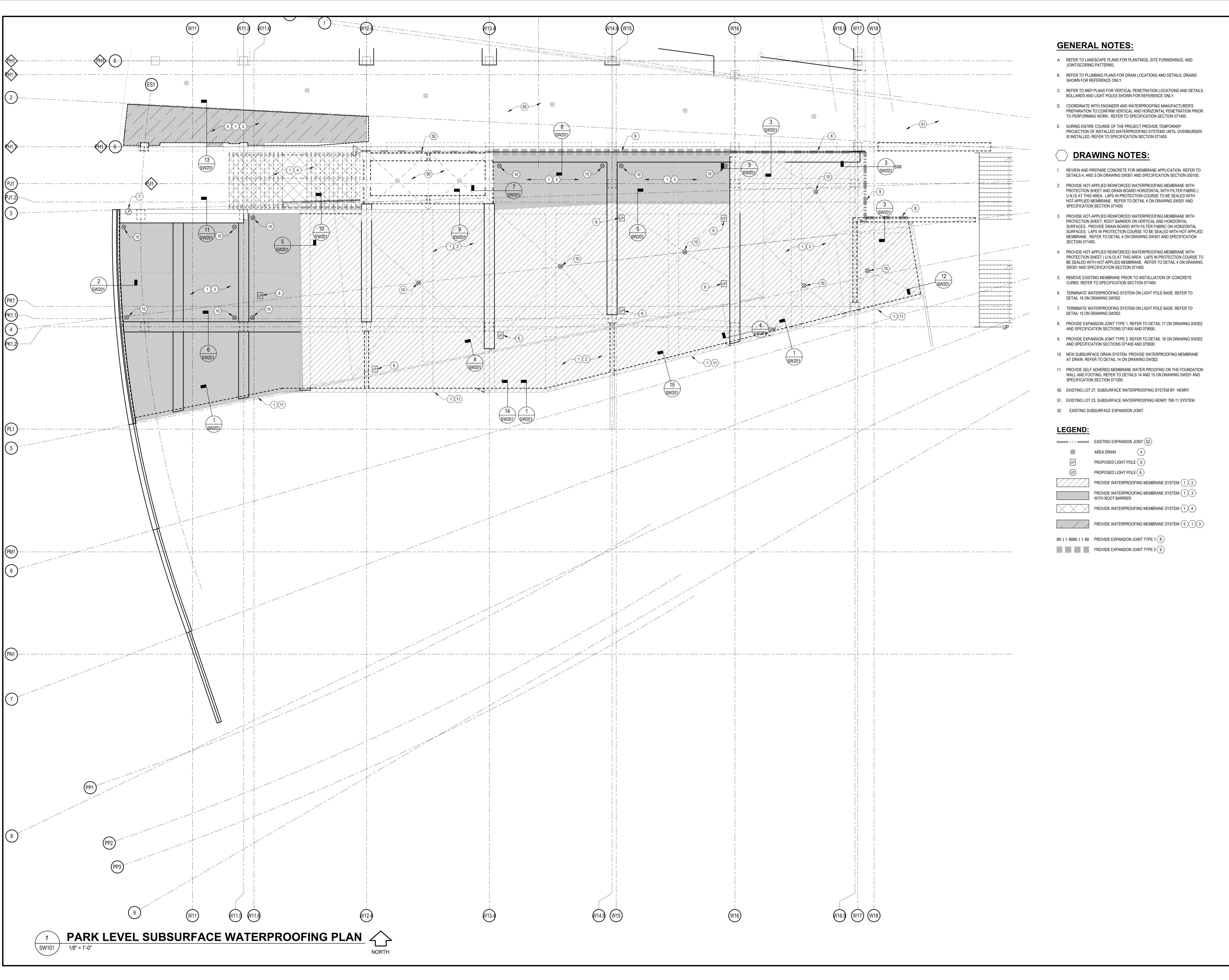
GARAGE

POWER PLANS LOT 28

JOB NUMBER
98090.40 12/17/2021

DRAWING NUMBER

F301

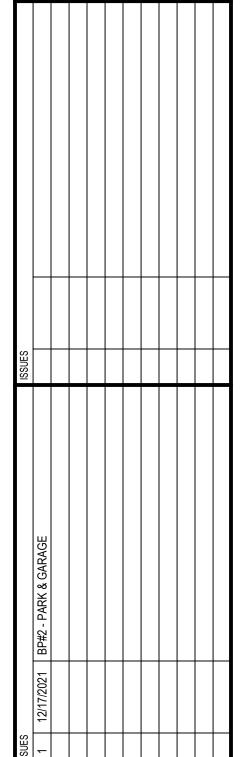




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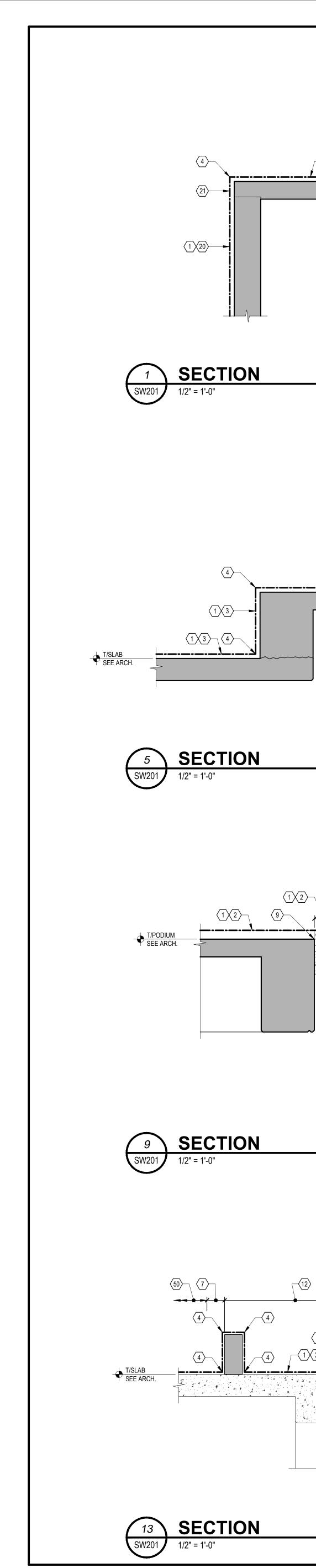


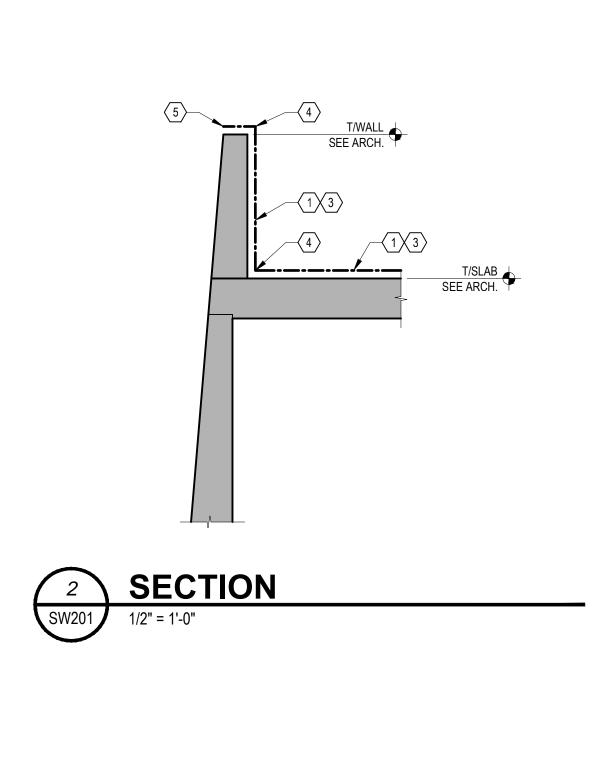


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PARK LEVEL

SW101

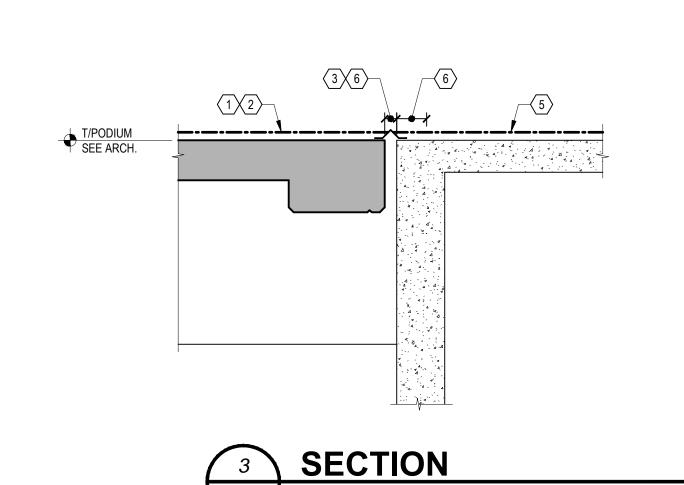


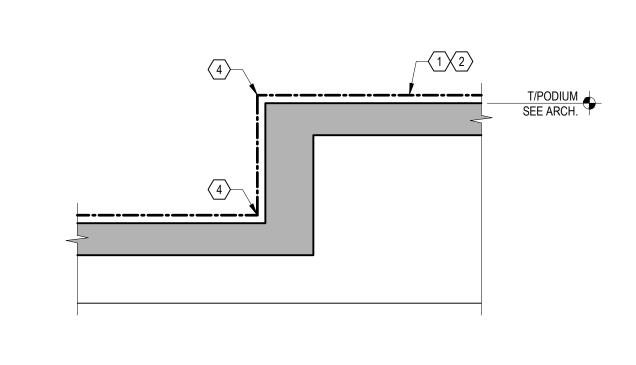


SECTION

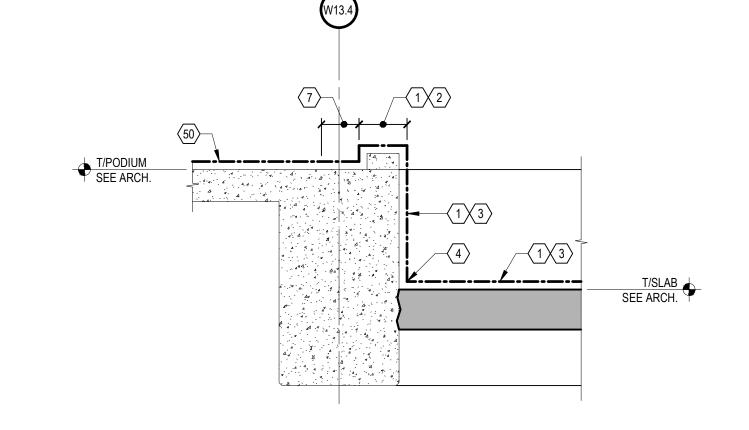
10 SECTION

SECTION

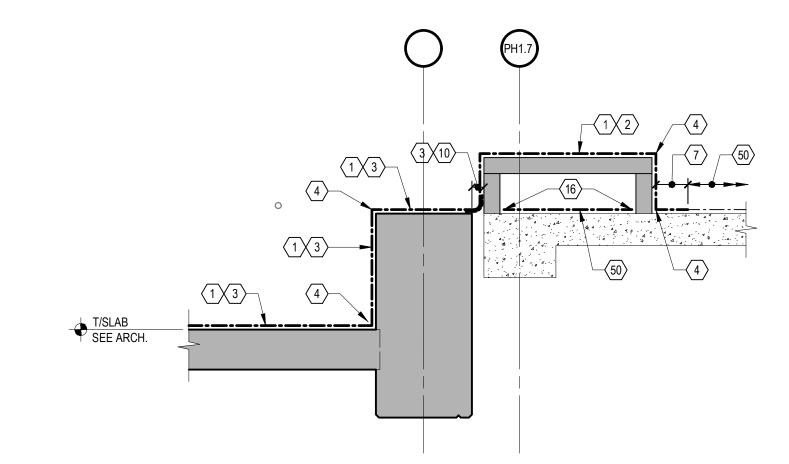




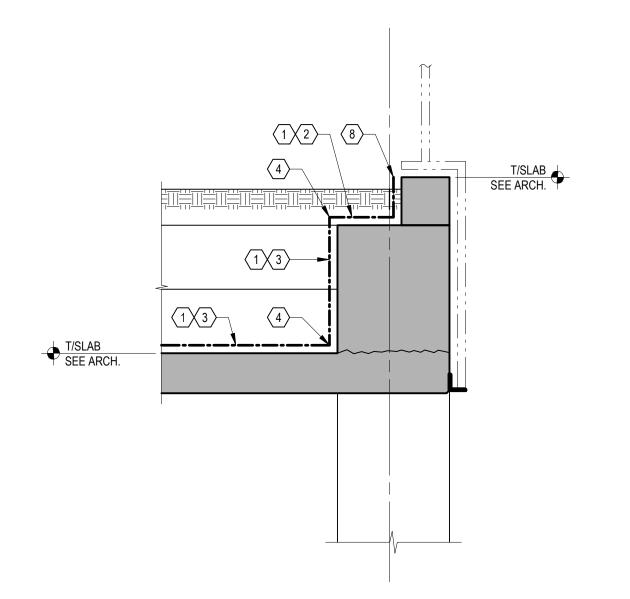


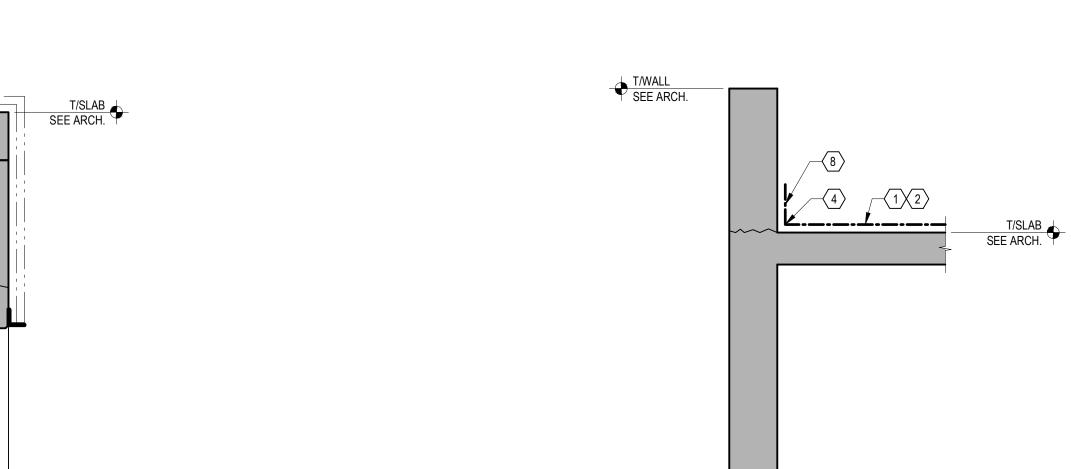


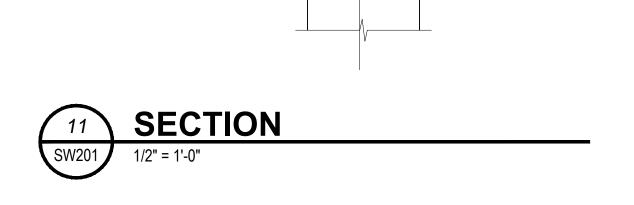
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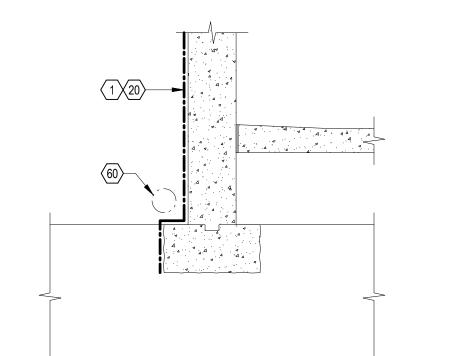
SECTION

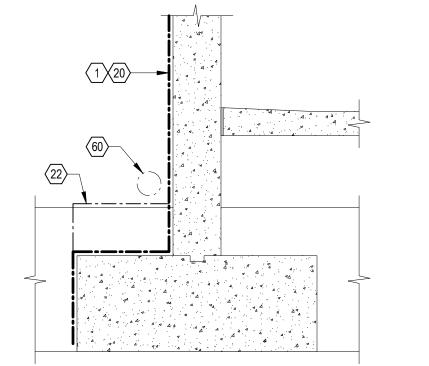












9. PROVIDE SEALANT JOINT AT COLD JOINT BETWEEN NEW AND EXIST STRUCTURES. REFER TO DETAIL 5 ON DRAWING SW301. SECTION

- 1. REVIEW AND PREPARE CONCRETE FOR MEMBRANE APPLICATION. REFER TO 11. PRIOR TO INSTALLATION OF CONCRETE OVER BUILD STRUCTURE REMOVE EXISTING MEMBRANE AT NEW CONCRETE WALL BASE. REFER TO DETAILS 3, AND 4 ON DRAWING SW301 AND SPECIFICATION SECTION 030100. 2. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH
- PROTECTION SHEET AND DRAIN BOARD HORIZONTAL WITH FILTER FABRIC (U.N.O) AT THIS AREA. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED MEMBRANE. REFER TO DETAIL 4 ON DRAWING SW301 AND MEMBRANE AT NEW CONCRETE WALL BASES AND PLANTER AREA. REFER TO SPECIFICATION SECTION 071400. SPECIFICATION SECTION 071400.
- 3. PROVIDE HOT-APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET, ROOT BARRIER ON VERTICAL AND HORIZONTAL SURFACES. PROVIDE DRAIN BOARD WITH FILTER FABRIC ON HORIZONTAL SPECIFICATION SECTION 071300. SURFACES. LAPS IN PROTECTION COURSE TO BE SEALED WITH HOT-APPLIED
- MEMBRANE. REFER TO DETAIL 4 ON DRAWING SW301 AND SPECIFICATION SECTION 071400. 4. PROVIDE MEMBRANE INSIDE/OUTSIDE CORNER DETAIL THIS AREA. REFER TO

DRAWING NOTES:

5. PROVIDE MEMBRANE TERMINIATION. REFER TO DETAIL 6 ON DRAWING SW301

DETAILS 8, 9, AND 10 ON DRAWING SW301 AND SPECIFICATION SECTION

AND SPECIFICATION SECTIONS 071400 AND 079000.

- AND SPECIFICATION SECTION 071400.
- 7. PROVIDE MEMBERANE TIE IN TO EXISTING SYSTEM. REFER TO DETAIL 7 ON
- DRAWING SW301 AND SPECIFICATION SECTION 071400. 8. EXTEND NEW MEMBRANE 12" FROM CONCRETE SLAB AND TERMINATE. REFER
- TO DETAIL 11 ON DRAWING SW301.
- 10. PROVIDE EXPANSION JOINT TYPE 2. REFER TO DETAIL 18 ON DRAWING SW302 AND SPECIFICATION SECTIONS 071400 AND 079000.

- SPECIFICATION SECTION 071400.
- PRIOR TO INSTALLATION OF CONCRETE PLANTER WALLS REMOVE EXISTING
- 20. PROVIDE SHEET MEMBRANE WATERPOOFING SYSTEM. REFER TO

SPECIFICATION SECTIONS 071300 AND 071400.

- 21. AT TOP OF WALL BURN OFF 3" OF SHEET MEMBRANE WATERPROOFING FACER SHEET. LAP HOT APPLIED REINFORCED WATERPROOFING MEMBRANE WITH PROTECTION SHEET AND DRAIN BOARD OVER SHEET MEMBRANE. REFER TO
- 22. AT INTERSECTION OF GRADE BEAM EXTEND SHEET MEMBRANE WATERPROOFING UP AND OVER BEAM. REFER TO SPECIFICATION SECTION
- 6. PROVIDE EXPANSION JOINT TYPE 1. REFER TO DETAIL 17 ON DRAWING SW302 50. EXISTING LOT 27. SUBSURFACE WATERPROOFING SYSTEM BY HENRY.
 - 51. EXISTING LOT 23. SUBSURFACE WATERPROOFING HENRY 790-11 SYSTEM.
 - 60. NEW FOOTING DRAIN. REFER TO CIVIL DRAWINGS.

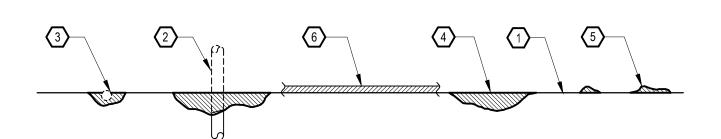


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WATERPROOFING SECTIONS

SW201



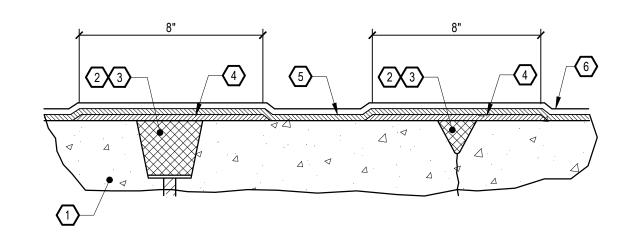
EXPOSED METAL

SURFACE DEFECTS

- 1 EXISTING CONCRETE SLAB.
- 2 CUT OFF NON-FUNCTIONAL METALS 1" BELOW CONCRETE SURFACE. PREPARE CONCRETE AND PATCH WITH EPOXY AND SAND MIXTURE. NO FLAME CUTTING PERMITTED. REFER TO SPECIFICATION SECTION 030100.
- (3) EXPOSED SLAB REINFORCEMENT AND OR WIRE MESH. CUT AND REMOVE SUFFICIENT AMOUNT OF REINFORCEMENT TO PROVIDE 1/2" COVER AT CUT ENDS. PREPARE AND PATCH WITH EPOXY AND SAND MIXTURE. CONSULT WITH ENGINEER PRIOR TO CUTTING
- REPAIR MINOR EXISTING SURFACE DEFECTS CAUSED BY AGGREGATE POP-OUTS, SURFACE SCALING, AND FREEZE-THAW DAMAGE IN A MANNER ACCEPTABLE TO THE ENGINEER AND MEMBRANE MANUFACTURER. REFER TO SPECIFICATION SECTION 030100.
- GRIND SMOOTH OR OTHERWISE REMOVE EXISTING EXCESS CONCRETE AND/OR MATERIAL EPOSITED (LEFT ON SLAB) FROM CONSTRUCTION ACTIVITIES. WHERE THE EXISTING SLAB CONCRETE IS MOUNDED OR OTHERWISE PROTRUDES MORE THAN 1/16" ABOVE THE DECK, GRIND IT SMOOTH, OR GRIND A TRANSITION SLOPE OF 1:4 (MAXIMUM) WITH BLENDING RADII AT PERIMETER OF LARGE AREAS.
- 6 NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071400.

DETAIL

SUPPLEMENTAL SURFACE PREPARATION (HORIZONTAL AND VERTICAL)

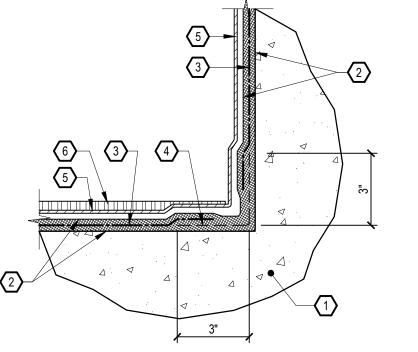


- 1 CONCRETE STRUCTURE.
- 2 PREPARE ALL SURFACES INTENDED FOR NEW SEALANT. REFER TO SPECIFICATION
- PRIME SUBSTRATE AND PROVIDE NEW SEALANT. INSTALL SEALANT FLUSH WITH ADJOINING SURFACE BENEATH MEMBRANE. REFER TO SPECIFICATION SECTION
- PROVIDE REINFORCEMENT FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE MIN. 8" WIDE. REFER TO SPECIFICATION SECTION 071400 AND MANUFACTURE'S RECOMMENDATIONS.
- 5 PROVIDE CONTINUOUS HOT APPLIED MEMBRANE. REFER TO DETAIL 9 ON THIS DRAWING FOR COMPLETE SYSTEM. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION

TYPICAL MEMBRANE OVER CJ's OR CRACKS (REFERENCE)



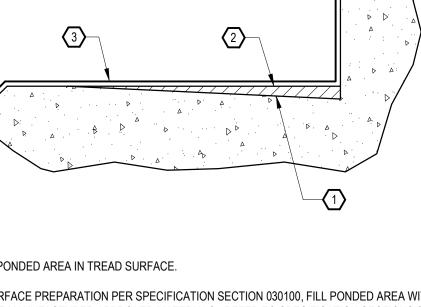
DETAIL



- CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO
- SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING. PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING
- MEMBRANE. REFER TO SPECIFICATION SECTION 071400. PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET
- INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400. PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC.

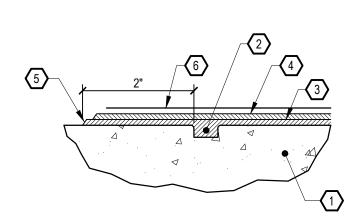
REFER TO SPECIFICATION SECTION 071400. TYPICAL MEMBRANE AT INSIDE CORNER





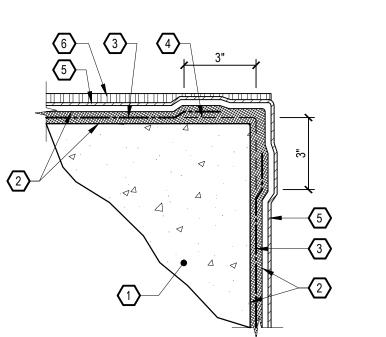
- 1 EXISTING PONDED AREA IN TREAD SURFACE.
- AFTER SURFACE PREPARATION PER SPECIFICATION SECTION 030100, FILL PONDED AREA WITH MEMBRANE MANUFACTURER APPROVED MATERIALS. REFER TO SPECIFICATION SECTIONS 030100
- NEW MEMBRANE SYSTEM. REFER TO SPECIFICATION SECTION 071400.





- 1 CONCRETE SLAB.
- SAWCUT 1/4" WIDE x 1/8" DEEP.
- PROVIDE MEMBRANE BASECOAT. ENSURE BASE COAT COMPLETELY FILLS SAWCUT. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE MEMBRANE TOP COAT. REFER TO SPECIFICATION SECTION 071400.
- MASK STRAIGHT LINE FOR TERMINATION. PERIMETER SHALL BE PARALLEL TO ADJACENT WALLS AND/OR
- PERPENDICULAR TO ADJACENT WALLS AS REQUIRED TO OBTAIN CLEAN AND NEAT SYSTEM INSTALLATION. PROVIDE NEW PROTECTION SHEET OR ROOT BARRIER DIRECTLY INTO TOP COAT WHILE STILL HOT. DO NOT

TYPICAL HORIZONTAL MEMBRANE TERMINATION

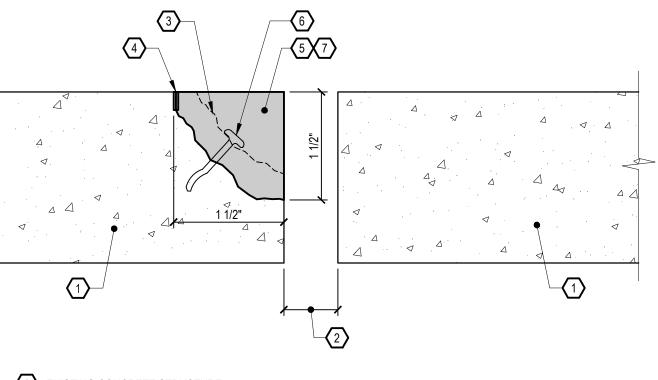


- CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
- PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET
- INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

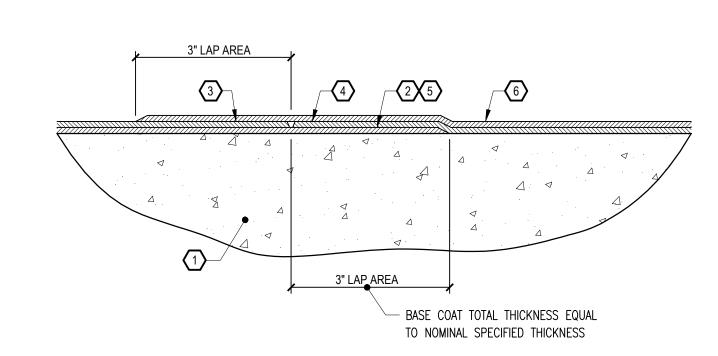


TYPICAL MEMBRANE AT OUTSIDE CORNER



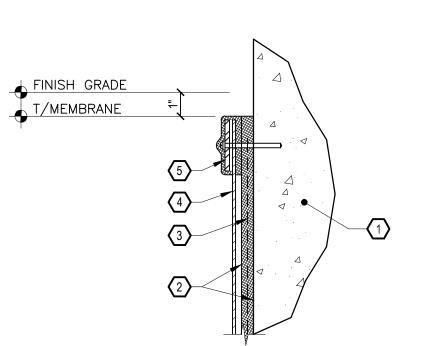
- 1 EXISTING CONCRETE STRUCTURE.
- 2 EXPANSION JOINT OPENING. PROVIDE FORMS TO MAINTAIN EXISTING DIMENSION.
- 3 EXISTING DELAMINATION PLANE.
- PROVIDE 3/4" SAWCUT AROUND PERIMETER OF REPAIR AREA.
- REMOVE ALL CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
- PROVIDE 1/4" DIA. x 3" LONG PATCH ANCHORS 1'-0" O.C. REFER TO SPECIFICATION SECTION
- 7 PREPARE CAVITY SURFACES AND PROVIDE PATCH MATERIAL. REFER TO SPECIFICATION

EXPANSION JOINT EDGE REPAIR



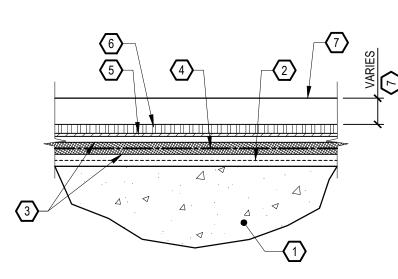
- CONCRETE STRUCTURE. PREPARE AND PRIME PER MEMBRANE MANUFACTURER'S REQUIREMENTS.
- WATERPROOFING MEMBRANE BASE COAT WITH INTEGRAL REINFORCEMENT FOR PHASE 1 INSTALLATION.
- (3) WATERPROOFING MEMBRANE TOP COAT FOR PHASE 1 INSTALLATION.
- 4 MEMBRANE BASE COAT WITH INTEGRAL REINFORCEMENT FOR PHASE 2 INSTALLATION.
- WHERE NEW WATERPROOFING AREAS ARE TO TIE INTO ALREADY INSTALLED WATERPROOFING AREAS, PROCEED AS FOLLOWS: -PREPARE EXISTING BASE COAT PER MANUFACTURER REQUIREMENTS.
- -LAP NEW BASE COAT ONTO EXISTING BASE COAT AND PROCEED AS NOTED ABOVE. 6 WATERPROOFING TOP COAT FOR PHASE 2 INSTALLATION.

TYPICAL MEMBRANE TIE-IN **DETAIL**



- CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING
- PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE
- PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE STAINLESS STEEL TERMINATION BAR ALONG TOP OF MEMBRANE. SECURE TO CONCRETE AT 12" O.C. ENCAPSULATE ALL EXPOSED ANCHOR HEADS WITH WATERPROOFING MEMBRANE FOR WATERTIGHT INSTALLATION. REFER TO SPECIFICATION SECTION 071400.

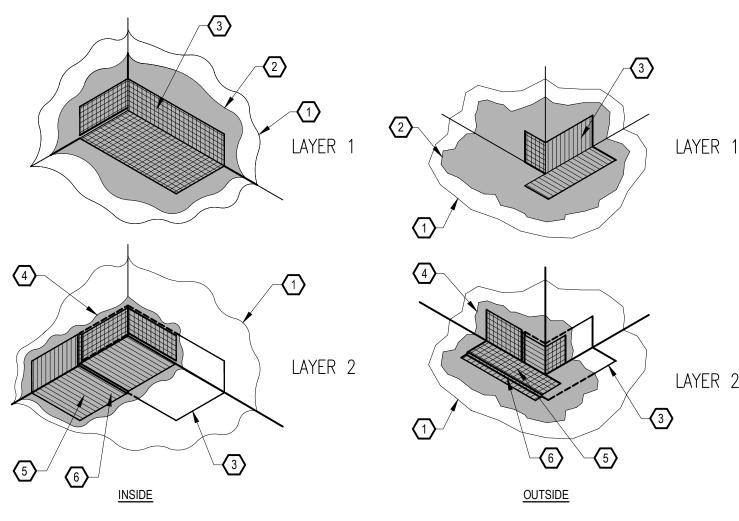
TYPICAL MEMBRANE TERMINATION ON VERTICAL SURFACE



- (1) CONCRETE SLAB. SURVEY STRUCTURAL SLAB FOR DETERIORATED CONCRETE. REPAIR TO WATERPROOFING MANUFACTURER'S REQUIREMENTS. REFER TO DETAILS 1, 2, AND 3 ON THIS
- PROVIDE SURFACE CONDITIONER. REFER TO SPECIFICATION SECTION 071400.
- (3) PROVIDE HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE REINFORCING SHEET. FULLY ENCAPSULATE REINFORCING SHEET MEMBRANE. REFER TO SPECIFICATION SECTION 071400.
- PROVIDE PROTECTION SHEET OR ROOT BARRIER. REFER TO SPECIFICATION SECTION 071400.

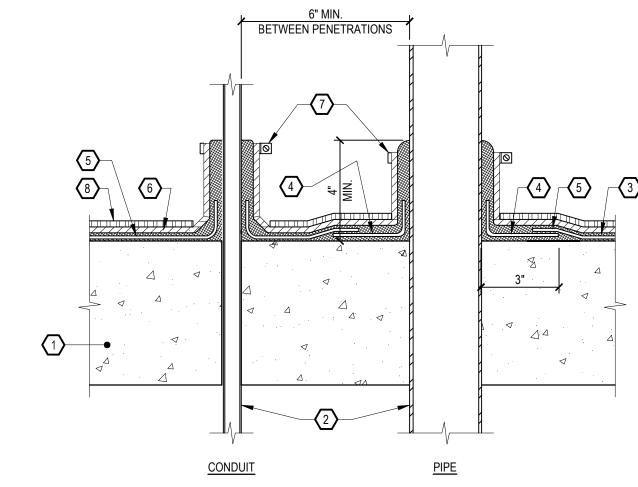
PROVIDE DRAIN BOARD, U.N.O. REFER TO SPECIFICATION SECTION 071400. 7 TOPPING SLAB . REFER TO ARCHITECT DRAWING FOR MORE INFORMATION.





- PRIMER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATION SECTION 071400.
- 7 FIRST COAT OF WATERPROOFING SYSTEM. REFER TO SPECIFICATION SECTION 071400 FOR THICKNESS.
- REINFORCEMENT SHEET FIRST LAYER. REFER TO SPECIFICATION SECTION 071400.
- SECOND COAT OF WATERPROOFING SYSTEM. REFER TO SPECIFICATION SECTION 071400.
- (5) REINFORCEMENT SHEET SECOND LAYER. REFER TO SPECIFICATION SECTION 071400.
- 6 APPLY A TOP COAT COMPLETELY COVERING ALL EXPOSED REINFORCING MATERIAL.





- CONCRETE STRUCTURE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO
- SPECIFICATION SECTION 071400. 2 EXISTING PIPE PENETRATION/VENT AND/OR CONDUIT. PREPARE SURFACE TO RECEIVE NEW
- WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION
- SECTION 071400. EXTEND MEMBRANE ONTO PIPE/VENT AND/OR CONDUIT. PROVIDE UNCURED NEOPRENE FLASHING AROUND PENETRATION. FULLY ENCAPSULATE IN MEMBRANE
- PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.
- 6 PROVIDE PROTECTION SHEET OVER WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION
- 7 PROVIDE STAINLESS STEEL WORM DRIVE HOSE CLAMP.

MATERIAL. REFER TO SPECIFICATION SECTION 071400.

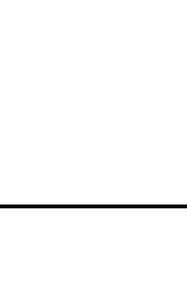
(8) PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400.

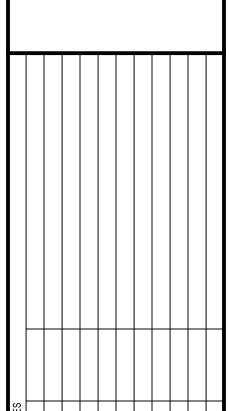
TYPICAL CAST-IN-PLACE PENETRATIONS (VERTICAL AND HORIZONTAL)

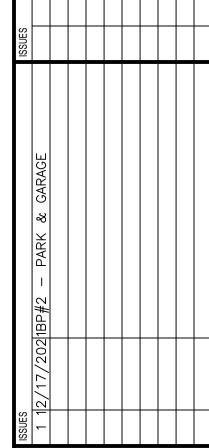


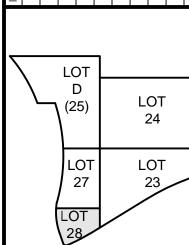
HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE **IMPROVEMENTS**

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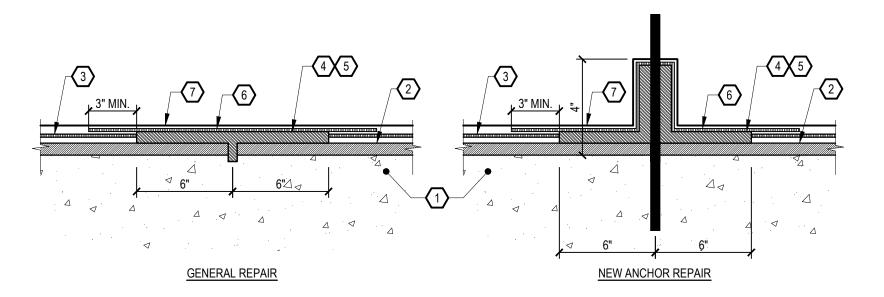








WATERPROOFING DETAILS



1 CONCRETE SLAB.

DAMAGED MEMBRANE DURING CONSTRUCTION. FOR DAMAGE LARGER THAN 3" OR WHERE MEMBRANE MUST BE REMOVE FROM THE SUBSTRATE, CONSULT WITH THE ENGINEER AND

EXISTING PROTECTION SHEET. REMOVE AND EXPOSED MIN. 12" AROUND DAMAGE AREA. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.

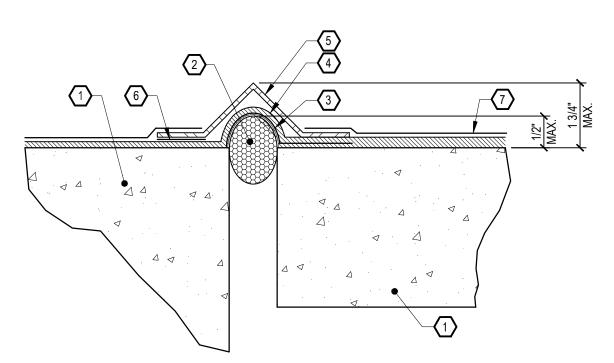
NEW HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. HEAT EXISTING MEMBRANE AND PROVIDE NEW HOT FLUID MEMBRANE. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.

PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE TO COVER THE DAMAGE AREAS. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400. EXTEND FABRIC 3" MIN. BEYOND THE DAMAGE AREA ON ALL DIRECTION.

PROVIDE NEW PROTECTION SHEET. EXTEND PROTECTION SHEET 3" MIN. BEYOND THE DAMAGE AREA ON ALL DIRECTION REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400.

7 REINSTALL ROOT BARRIER / DRAINAGE BOARD WITH FILTER FABRIC ABOVE DAMAGED AREAS AT LOCATIONS AS SHOWN ON PLAN ONLY. REFER TO MANUFACTURE AND SPECIFICATION SECTION 071400 AND DETAIL 9/SW301.

TYPICAL REPAIR TO HOT APPLIED WATERPROOFING MEMBRANE



1 CONCRETE STRUCTURE.

PROVIDE CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.

PROVIDE PREFORMED REINFORCING STRIP. REFER TO SPECIFICATION SECTION 071400.

PROVIDE WATERPROOFING SYSTEM.

5 PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN.

ADHERE NEW STAINLESS STEEL PROTECTION COVER TO PROTECTION SHEET WITH HOT ASPHALT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ADHESIVE ON THE HIGH SIDE OF THE JOINT.

PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.

EXPANSION JOINT - TYPE "3" **DETAIL**

(1) CONCRETE STRUCTURE.

PREPARE CONCRETE SURFACE. REFER TO PLUMBING DRAWINGS FOR DRAIN.

PROVIDE HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. .TERMINATE MEMBRANE ON DRAIN CASTING.

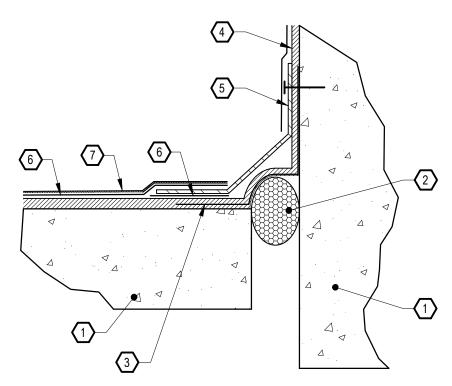
PROVIDE REINFORCING SHEET FULLY ENCAPSULATE IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400

5 PROVIDE UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

6 PROVIDE NEW PROTECTION BOARD OR ROOT BARRIER, AND DRAINAGE BOARD WITH FILTER FABRIC PER PROJECT SPECIFICATION SECTION 071400.

7 TOP SOIL BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.

WATERPROOFING SYSTEM AT PD1 DRAIN DETAIL



1 CONCRETE STRUCTURE.

PROVIDE NEW CLOSED CELL BACKER ROD. DIMENSION TO BE 1.5 x JOINT WIDTH.

PROVIDE PREFORMED REINFORCING STRIP. REFER TO SPECIFICATION SECTION 071400.

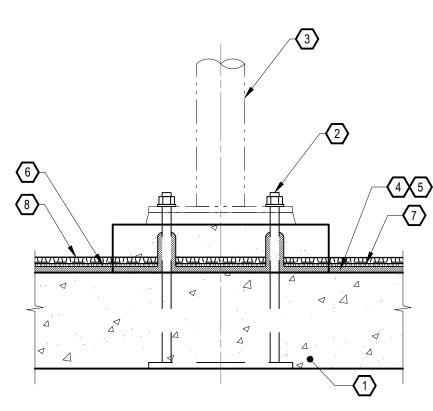
PROVIDE NEW WATERPROOFING SYSTEM.

PROVIDE NEW 16 GA. STAINLESS STEEL PROTECTION COVER TO BE ATTACHED AT ONE SIDE ONLY AS SHOWN. SECURE WITH STAINLESS STEEL ANCHORS AT 12" O.C.

PROVIDE NEW PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.

PROVIDE CONTINUOUS DRAINAGE BOARD WITH FILTER FABRIC U.N.O. REFER TO SPECIFICATION SECTION 071400.

EXPANSION JOINT - TYPE "2" **DETAIL**



1 CONCRETE SLAB.

(4) 3/4" DIA BOLT, REFER TO STRUCTURAL DRAWINGS DOR MORE INFORMATION.

3 LIGHT POLE, REFER TO ELECTRIC DRAWING FOR MORE INFORMATION.

PROVIDE HOT FLUID APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

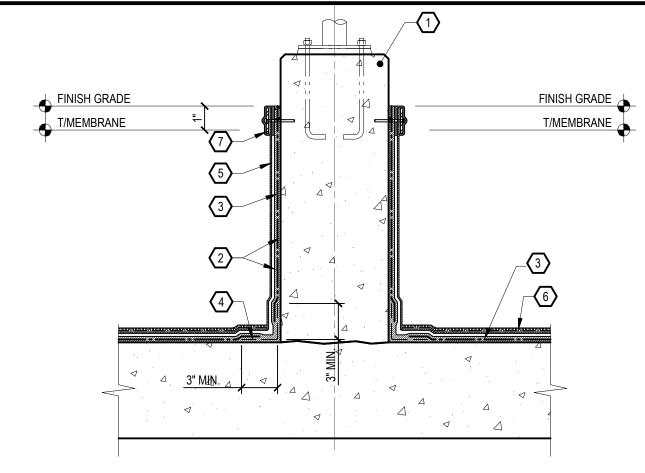
5 PROVIDE REINFORCING FABRIC ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE FLASHING.

6 PROVIDE PROTECTION SHEET. REFER TO SPECIFICATION SECTION 071400.

PROVIDE ROOT BARRIER AT LOCATIONS AS SHOWN ON PLAN ONLY. REFER TO SPECIFICATION SECTION 071400.

8 PROVIDE DRAINAGE BOARD WITH FILTER FABRIC U.N.O. REFER TO SPECIFICATION SECTION

TYPICAL MEMBRANE AT LIGHT POLE TYPE PL-1



CONCRETE STRUCTURE FOR LIGHT POLE. PREPARE SURFACE TO RECEIVE NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION

PROVIDE NEW HOT APPLIED REINFORCED WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

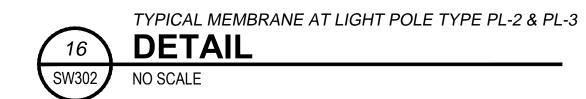
PROVIDE REINFORCING FABRIC ENCAPSULATED IN NEW WATERPROOFING MEMBRANE. REFER TO SPECIFICATION SECTION 071400. OVERLAP FABRIC ONTO NEOPRENE REINFORCING SHEET.

PROVIDE CONTINUOUS UNCURED NEOPRENE FLASHING ENCAPSULATED IN WATERPROOFING MEMBRANE. REFER TO SPECIFICATION

PROVIDE PROTECTION SHEET AND ROOT BARRIERS OVER WATERPROOFING MEMBRANE. INSTALL PROTECTION SHEET INTO HOT MEMBRANE. REFER TO SPECIFICATION SECTION 071400.

SPECIFICATION SECTION 071400.

PROVIDE DRAIN BOARD. WRAP EXPOSED EDGES OF DRAIN BOARD CORE WITH FILTER FABRIC. REFER TO SPECIFICATION SECTION 071400. PROVIDE STAINLESS STEEL TERMINATION BAR ALONG TOP OF MEMBRANE. SECURE TO CONCRETE AT 12" O.C WITH MINIMUM (2) ANCHORS PER SIDE. ENCAPSULATE ALL EXPOSED ANCHOR HEADS WITH WATERPROOFING MEMBRANE FOR WATERTIGHT INSTALLATION. REFER TO

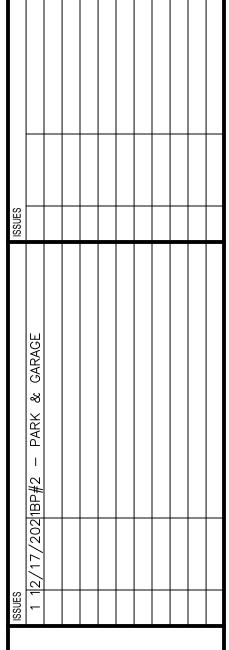


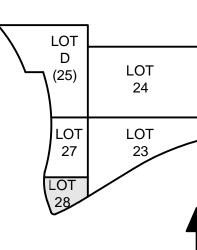


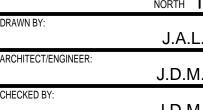


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WATERPROOFING DETAILS

SW302