

# THE BANKS PUBLIC INFRASTRUCTURE DEVELOPMENT

## LOT 28 GARAGE AND PARK

## B.P. #1 - GARAGE FOUNDATIONS AND SITE PREPARATION (ITB # 100-21)

NOVEMBER 5, 2021

### PROJECT TEAM:

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

**THP Limited, Inc.**  
ARCHITECT/STRUCTURAL ENGINEER  
100 East Eighth Street  
Cincinnati, Ohio 45202  
Phone: 513-241-3222

**Messer Construction/MBJ**  
CONSTRUCTION MANAGER  
643 West Court Street  
Cincinnati, Ohio 45203  
Phone: 513-242-1541

**Michael Mcinturf Architects**  
DESIGN ARCHITECT  
1116 Race Street  
Cincinnati, OH 45202  
Phone: 513-639-2351

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

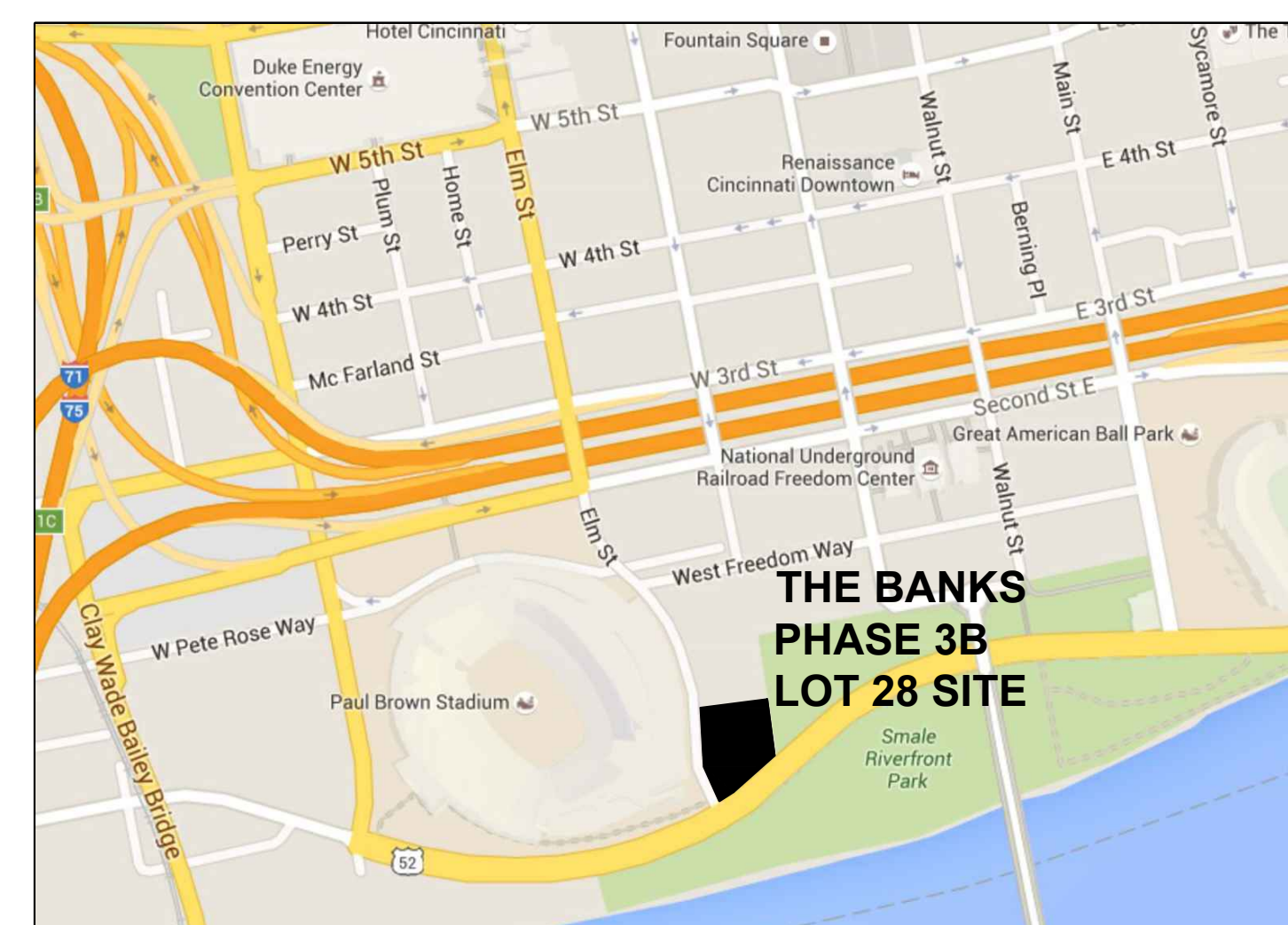
**DNK Architects**  
ARCHITECT/CODE CONSULTANT  
2616 Central Parkway  
Cincinnati, OH 45214  
Phone: 513-948-4146

**McGill Smith Punshon, Inc.**  
SURVEYOR  
3700 Park 42 Drive, Suite 190B  
Cincinnati, OH 45241  
Phone: 513-759-0004

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

**Terracon Consultants, Inc.**  
GEOTECHNICAL ENGINEER  
611 Lunken Park Drive  
Cincinnati, OH 45226  
Phone: 513-321-5816

**Burgess and Niple**  
CIVIL ENGINEER  
525 Vine Street  
Cincinnati, OH 45202  
Phone: 513-579-0042



LOCATION PLAN 

### DRAWING INDEX:

TITLE SHEET	
SURVEY: (MSP)	TOPOGRAPHIC SURVEY - LOWER LEVEL
CODE SUMMARY: (DNK)	G001 BUILDING CODE NOTES
CIVIL: (THP)	C101 SITE PLAN C102 SITE DETAILS
EROSION CONTROL: (KLEINGERS)	C110 EROSION CONTROL PLAN C111 EROSION CONTROL NOTES AND DETAILS C112 EROSION CONTROL NOTES AND DETAILS
DEMO: (THP)	D101 DEMOLITION PLAN D102 DEMOLITION - ELM STREET SITE STAIRS D103 DEMOLITION - ELM STREET SITE STAIRS DETAILS D104 DEMOLITION - ELM STREET SITE STAIR DETAILS
STORMWATER MANAGEMENT UTILITIES: (B&N)	SW101 SMU DRAINAGE PLAN
STRUCTURAL: (THP)	S301 GENERAL NOTES AND TYPICAL DETAILS S302 TYPICAL DETAILS S101 FOUNDATION PLAN S201 FOUNDATION DETAILS S301 PILE CAP AND COLUMN DETAILS
PLUMBING: (HEAPY)	P001 LEGEND AND INDEX P002 SCHEDULES DETAILS AND NOTES P100 UNDERGROUND PLUMBING PLAN P200 SANITARY DIAGRAM

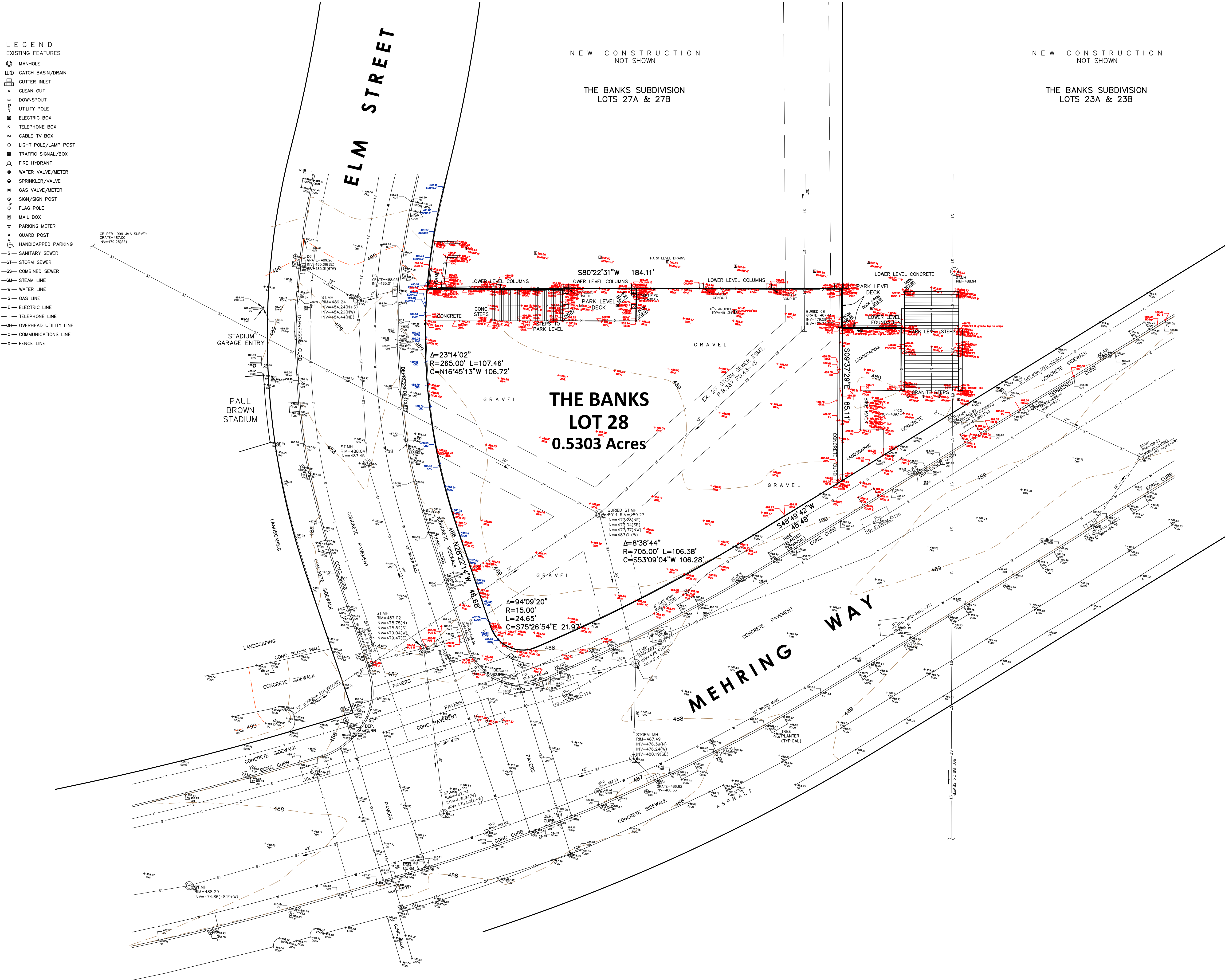
- LEGEND**  
**EXISTING FEATURES**
- MANHOLE
  - CATCH BASIN/DRAIN
  - GUTTER INLET
  - CLEAN OUT
  - DOWNSPOUT
  - UTILITY POLE
  - ELECTRIC BOX
  - TELEPHONE BOX
  - CABLE TV BOX
  - LIGHT POLE/LAMP POST
  - TRAFFIC SIGNAL/BOX
  - FIRE HYDRANT
  - WATER VALVE/METER
  - SPRINKLER/VALVE
  - GAS VALVE/METER
  - SIGN/SIGN POST
  - FLAG POLE
  - MAIL BOX
  - PARKING METER
  - GUARD POST
  - HANDICAPPED PARKING
- S — SANITARY SEWER  
 — ST — STORM SEWER  
 — SS — COMBINED SEWER  
 — SM — STEAM LINE  
 — W — WATER LINE  
 — G — GAS LINE  
 — E — ELECTRIC LINE  
 — T — TELEPHONE LINE  
 — OH — OVERHEAD UTILITY LINE  
 — C — COMMUNICATIONS LINE  
 — X — FENCE LINE

CB PER 1999 JMA SURVEY  
 GRATE=487.00  
 INV=478.25(±2)

NEW CONSTRUCTION  
 NOT SHOWN  
 THE BANKS SUBDIVISION  
 LOTS 27A & 27B

NEW CONSTRUCTION  
 NOT SHOWN  
 THE BANKS SUBDIVISION  
 LOTS 23A & 23B

**SURVEY NOTES:**  
 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 4, 2021
Scale	1" = 20'
Drawn By	RG Proj. Mgr. RG
Survey Database	99327
DWG	99327103-TOP-Base LOT28
X-Ref(s)	N/A
Project Number	99327.10
File No.	99327 Sheet No. 1 / 1

**MSP**  
 DESIGN  
 McGill Smith Punshon

Architecture 3700 Park 42 Drive  
 Engineering Suite 190B  
 Landscape Architecture Cincinnati OH 45241  
 Planning Phone 513.759.0004  
 Surveying www.mspsdesign.com

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**BUILDING CODE NOTES - LOT 28 PARKING GARAGE & PARK**

**PROJECT LOCATION**

- 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 Garage.
- 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 overbuild above.
  - Podium level is 3-hour-rated horizontal separation per 510.2 and 710.3.
  - 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:
  - Structural frame: 3 hours.
  - Exterior bearing walls: Refer to Table 602 notes below.
  - Interior bearing walls: 3 hours.
  - Exterior nonbearing walls and partitions: Refer to Table 602 notes below.
  - Interior nonbearing walls and partitions: 0 hour.
  - Floor construction including beams: 2 hours, except the podium slab is 3 hours.
  - Roof construction including girders and framing supporting roof only: 1 1/2 hours (the podium remains 3-hour-rated).
- Table 602 Fire-Resistance Rating Requirements For Exterior Walls Based on Fire Separation:
  - Type IA, Use Group S-2, (Less than 30 feet): 1 hour (\*).
  - 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: 0 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:
  - Vertical Exits & Passageways: Class C.
  - Exit Access Corridors: Class C.
  - 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 903.4.1.
- Class I dry-type standpipe system provided per 905.3.1, 905.3.5, 905.8, and NFPA 14.
  - Standpipe hose connections typically located in stairways, and where additional hose connections are required, they are located outside of stairways.
  - All areas within 200' of a hose connection.
  - 100 pounds of pressure (within a period of 60 seconds) provided at the hose connections with the help of fire pump.
  - 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:
  - 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)**

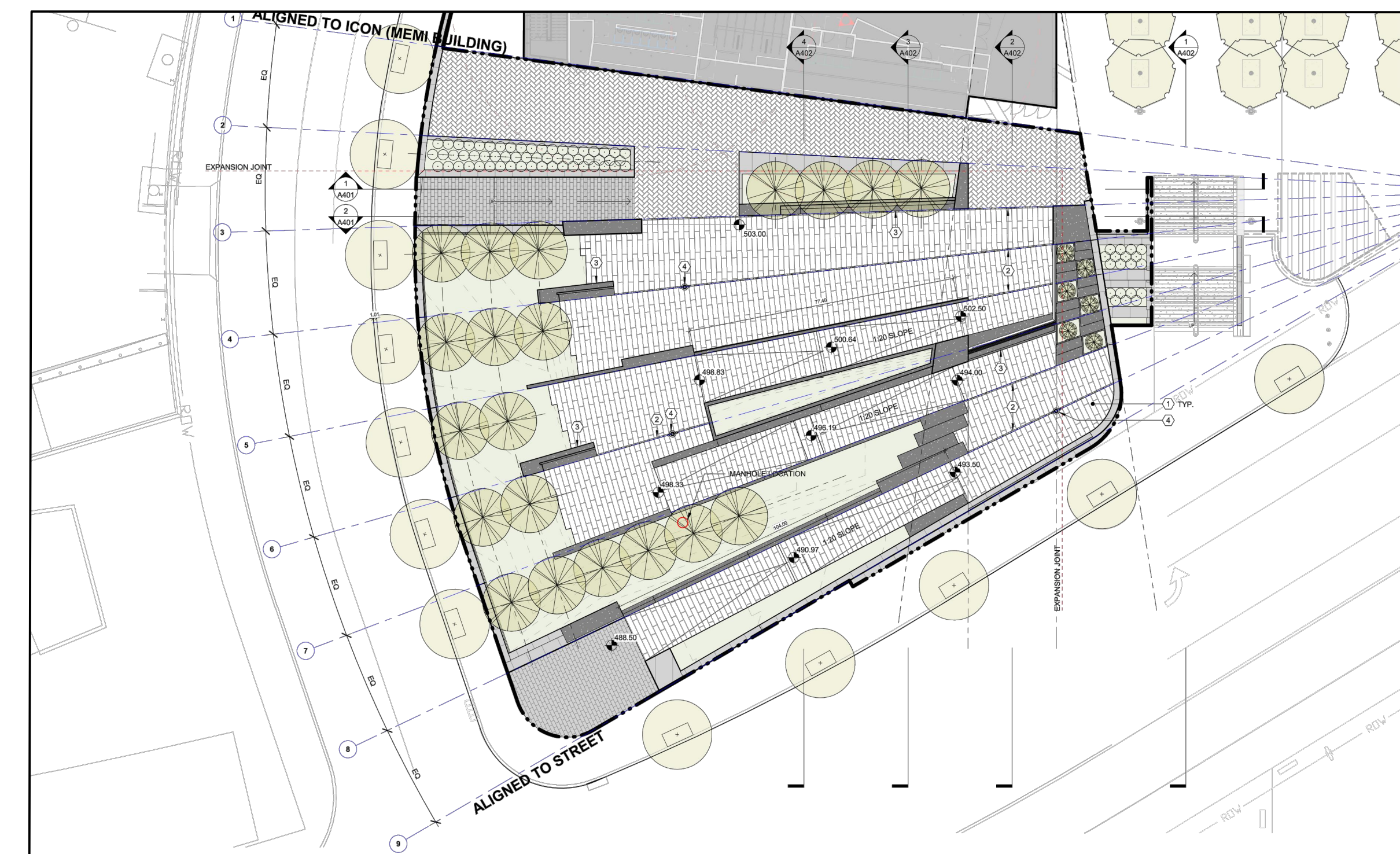
- Design occupant load per Table 1004.1.2:
  - Level 489: Lot 28: 23,100 SF total public parking / 5 NET SF per occupant = 4,620 occupants.
- Number of exits complies with Table 1006.3.1: Three sides of park open to public way. Three exits provided.
- Sloped walkway: complies with accessible means of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

**CHAPTER 11 - ACCESSIBILITY**

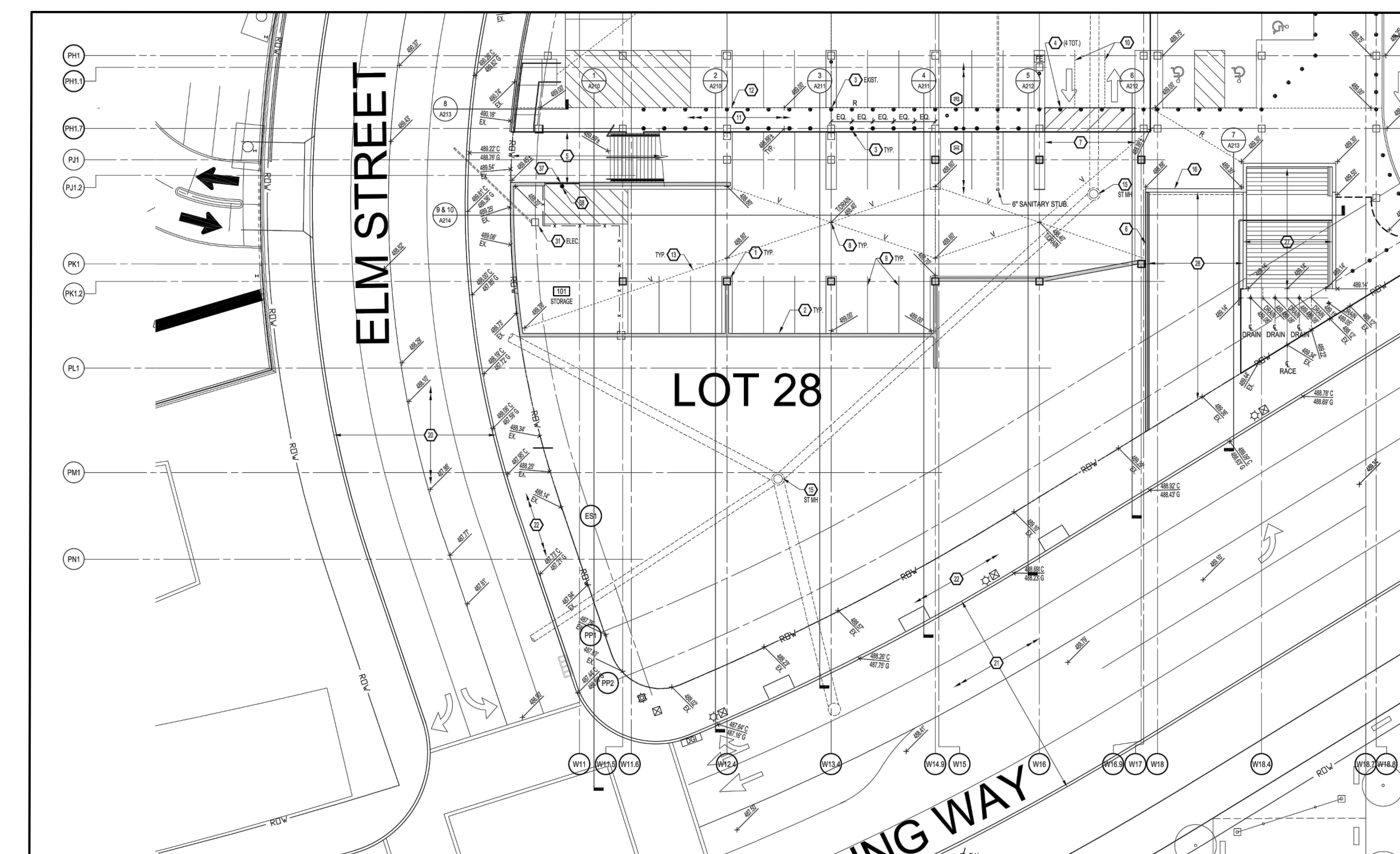
- All entrances, exits, egress ramps, elevators, route through building, and signage shall be accessible. Also refer to additional notes under Chapter 10 above.
- Numbers of accessible car and van spaces comply with Table 1106.1:
  - Parking Spaces: Lot 28: 18
  - Required Accessible Spaces (per Table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

**CHAPTER 12 - INTERIOR ENVIRONMENT**

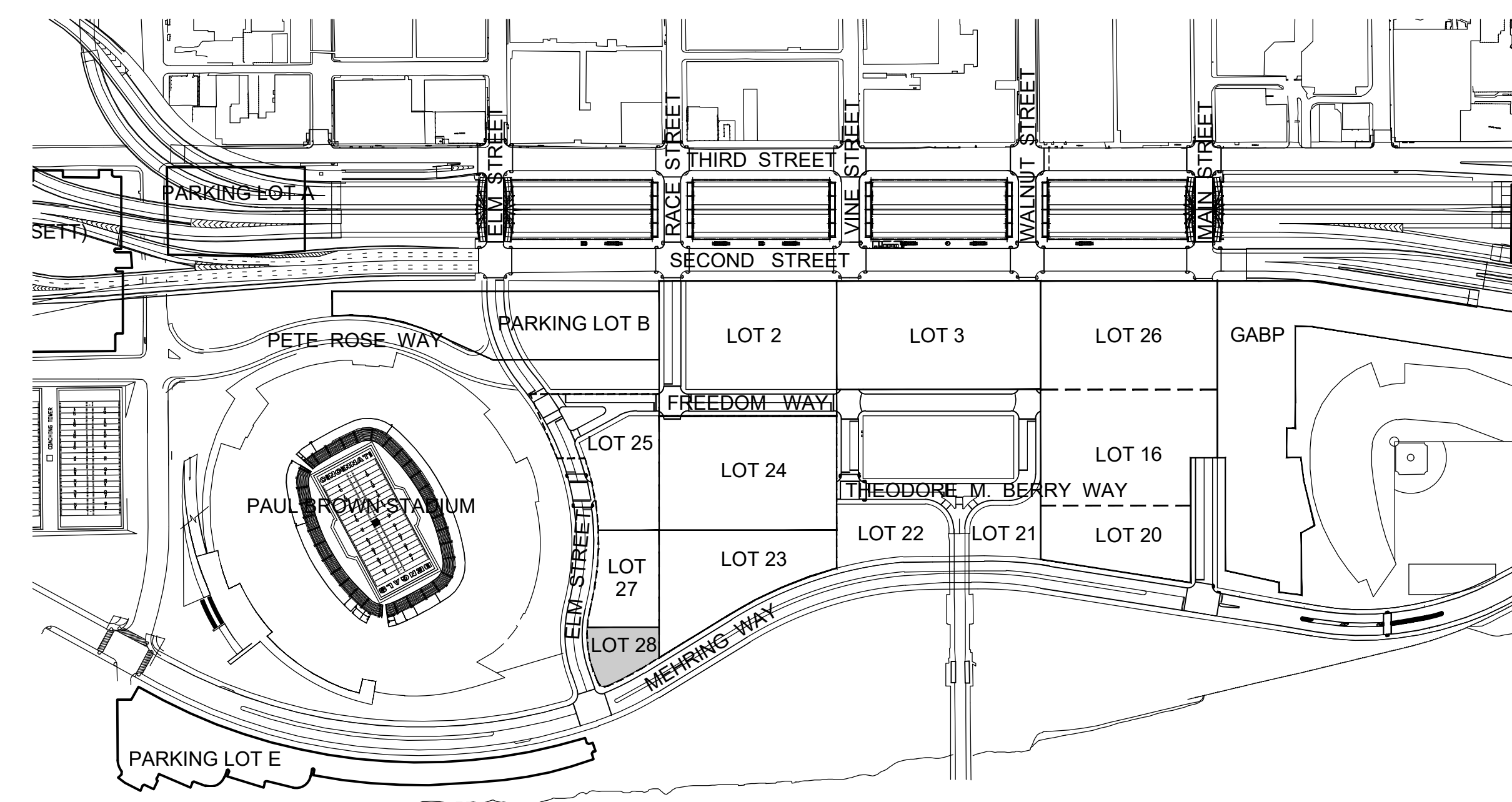
- Natural ventilation provided per 1203.4.
- Lighting provided per 1205.2 or 1205.3.
- Emergency egress lighting provided per 1205.5 and 1008.3.



**LEVEL TWO**



**LEVEL ONE**



**KEY PLAN**

HAMILTON COUNTY  
STATE OF OHIO

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

PRELIMINARY  
NOT FOR  
CONSTRUCTION

NO.	DATE	DESCRIPTION
1	11/05/2021	GARAGE FOUNDATIONS & SITE PREPARATION

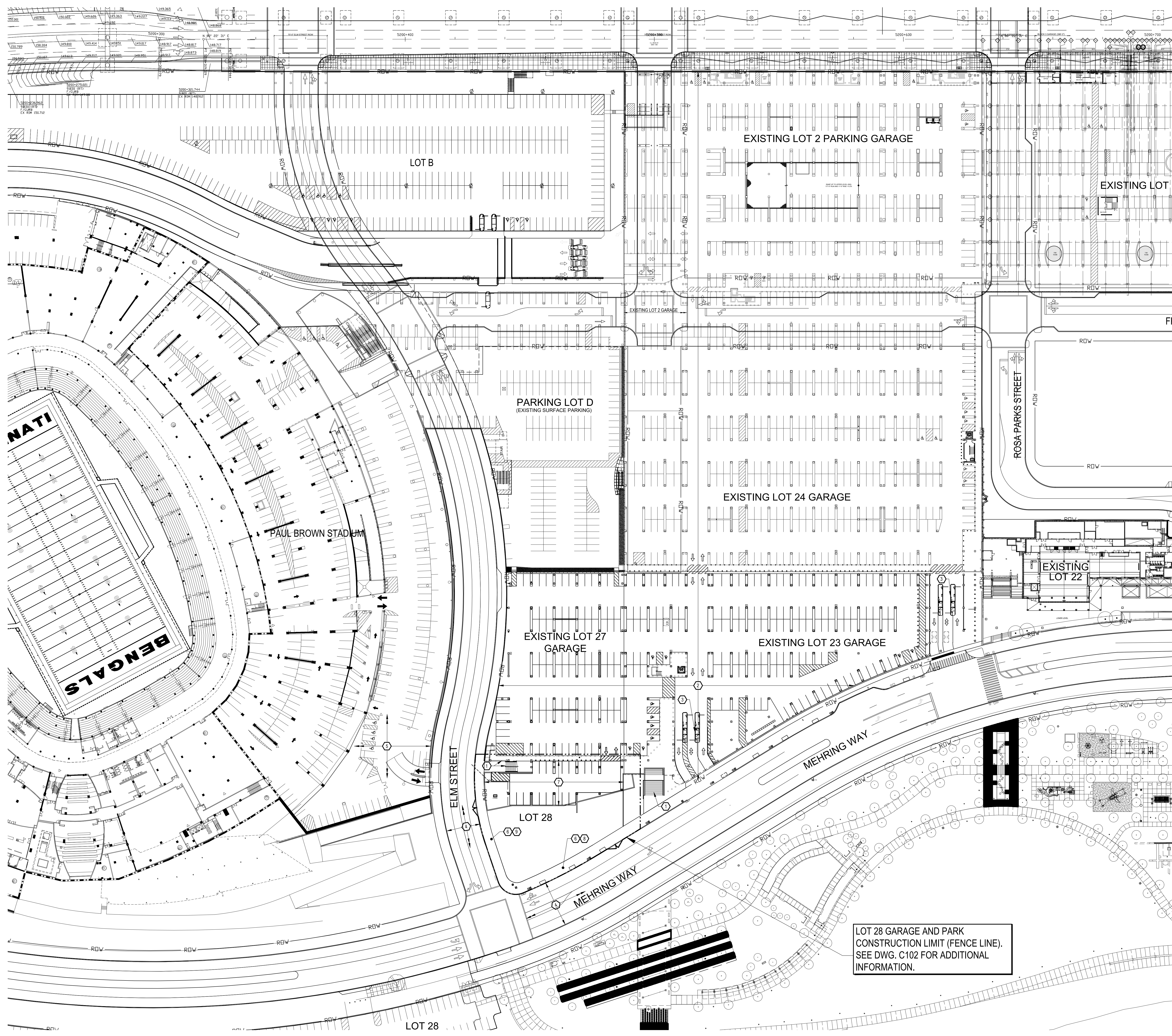
LOT 25	LOT 24
LOT 27	LOT 23
LOT 28	

DRAWN BY:	P.A.B.
ARCHITECT/ENGINEER:	M.S.M.
CHECKED BY:	M.S.M.

THE BANKS  
Public Partnership

LOT 28 GARAGE  
AND PARK

DRAWING TITLE	BUILDING CODE NOTES
JOB NUMBER	DATE
98090.40	11/05/2021
DRAWING NUMBER	G001



**PROJECT GENERAL NOTES:**

- A. UTILITIES**
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES RELATED TO UTILITY WORK.
  - CONTRACTOR SHALL INSPECT AND VIDEO CONDITION OF ALL SEWERS TO REMAIN PER MSD & SMJ REGULATIONS AND AS DIRECTED BY CONSTRUCTION MANAGER. PRIOR TO START AND AFTER COMPLETION OF CONSTRUCTION. ALL MATERIALS PERTAINING TO COMBINED OR SANITARY SEWERS MUST BE SUBMITTED TO MSD FOR APPROVAL. ALL MATERIAL PERTAINING TO STORM SEWERS MUST BE SUBMITTED TO STORMWATER MANAGEMENT FOR APPROVAL. PRIOR TO STARTING ANY WORK, VERIFY STATUS OF ALL SEWERS AFFECTED BY WORK OF THIS PROJECT WITH CONSTRUCTION MANAGER AND MSD FIELD ENGINEER AND SMJ FIELD ENGINEER. A STORMWATER MANAGEMENT UTILITY (SMU) PERMIT IS REQUIRED FOR WORK ON STORM SEWERS. AS-BUILT DRAWINGS SHALL BE SUBMITTED UPON THE COMPLETION OF ANY SANITARY AND STORM SEWER WORK. SEWERS INDICATED TO BE FILLED, SEALED AND ABANDONED, OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH ITEM 202 OF THE CITY OF CINCINNATI SUPPLEMENT. MANHOLES, CATCH BASINS, AND INLETS INDICATED TO BE REMOVED OR ABANDONED SHALL BE DONE SO IN ACCORDANCE WITH THE SAME. REFER TO SEWER DRAWINGS AND SPECIFICATIONS.
  - PRIOR TO EXCAVATION AND EARTHWORK, VERIFY LOCATIONS OF UNDERGROUND UTILITIES WITH THE UTILITY COMPANIES AND CONSTRUCTION MANAGER. SURVEY OR CAREFULLY EXCAVATE TO ESTABLISH EXACT UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON THE DRAWING ARE ONLY APPROXIMATE AND CANNOT BE USED TO ASSURE THE CONTRACTOR OF ADEQUATE CLEARANCE IN CASE OF CLOSE PROXIMITY. COORDINATE ALL WORK WITH THE UTILITIES TO ASSURE UNINTERRUPTED FUNCTION OF UTILITIES TO REMAIN.
  - 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 DEPTH INDICATED ON STAKES.
  - 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 ACCORDINGLY, IF APPLICABLE.
  - 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.
  - THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING OVERHEAD AND 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.
  - PROVIDE MONITORED, CONTROLLED EXCAVATION FOR ALL EXCAVATIONS.
  - THE FOLLOWING IS A LIST OF THE REPRESENTED UTILITY OWNERS ON OR ADJACENT TO THE SITE:
 

OHIO UTILITIES PROTECTION SERVICE (OUPS) PO BOX 729 1247 MANNING AVENUE NORTH JACKSON, OHIO 44451 (800) 362-2764	CITY OF CINCINNATI - DOTE CITY HALL RM. 425 801 PLUM STREET CINCINNATI, OHIO 45202-1979 (513) 352-3485 / (513) 352-3463
DUKE ENERGY CORPORATION (GAS & ELECTRIC) 139 E 4TH ST CINCINNATI, OH 45202 (513) 544-6500 / 1-800-262-3000	CINCINNATI BELL TELEPHONE 221 E. FOURTH STREET CINCINNATI, OHIO 45202 (513) 565-2210
METROPOLITAN SEWER DISTRICT (MSD) 1600 GEST STREET CINCINNATI, OHIO 45204 (513) 352-4900 / (513) 244-1300	CITY OF CINCINNATI STORMWATER MANAGEMENT UTILITY (SMU) 225 W. GALBRAITH ROAD CINCINNATI, OHIO 45216 (513) 352-4287
CINCINNATI WATER WORKS (CWW) 4747 SPRING GROVE AVENUE CINCINNATI, OH 45222 (513) 591-7700	

- 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 DA1-4.3 AND DA1-4.4.
  - BEST MANAGEMENT PRACTICES: THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN WILL BE REQUIRED TO DETAIL THE PROJECT SPECIFIC SOIL EROSION PREVENTION MEASURES. THE CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMPs) FOR SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION AND POST-CONSTRUCTION IN ACCORDANCE WITH THE ODOT CMS SECTION 107.19 AND SUPPLEMENTAL SPECIFICATIONS 832 DATED 6/8/09. ANY IN-PLACE EROSION CONTROL PROVISION THAT IS DAMAGED IS TO BE REPLACED/REPAIRED IMMEDIATELY BY THE CONTRACTOR CAUSING THE DAMAGE.
- C. BENCHMARKS**
- PROJECT CONTROL SHALL BE PROVIDED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL SET ADDITIONAL BENCHMARKS AS NECESSARY.
- D. SAFETY**
- 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.

**DRAWING NOTES:**

- EXISTING STAIRS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
- 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 WORK TO MAINTAIN VEHICLE TRAFFIC AND PEDESTRIAN ACCESS. PROVIDE SIGNAGE, PAVEMENT MARKINGS AND TRAFFIC CONTROL MEASURES AS REQUIRED. COORDINATE MAINTENANCE OF TRAFFIC MEASURES WITH CONSTRUCTION MANAGER AND OWNER.
- 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 AND REPLACE EXISTING SIDEWALK AS REQUIRED FOR CONSTRUCTION. REMOVE AND REPLACE COMPLETE PANELS ALONG EXISTING CONTROL JOINTS. PROTECT FROM DAMAGE ALL TREES, LIGHT POLES, PULL BOXES, SIGNS, ETC.
- ALONG ELM STREET, REMOVE AND REPLACE EXISTING SIDEWALK AS REQUIRED FOR CONSTRUCTION. REMOVE AND REPLACE COMPLETE PANELS ALONG EXISTING CONTROL JOINTS. PROTECT FROM DAMAGE ALL TREES, LIGHT POLES, PULL BOXES, SIGNS, ETC.

LOT 28 GARAGE AND PARK CONSTRUCTION LIMIT (FENCE LINE). SEE DWG. C102 FOR ADDITIONAL INFORMATION.

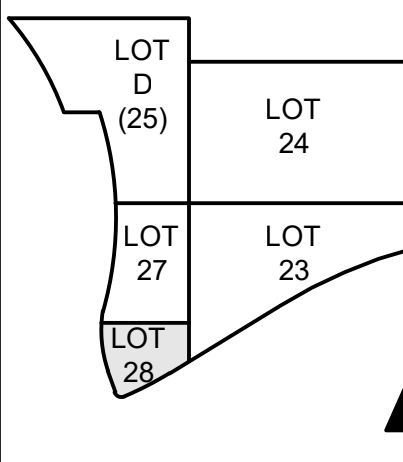
UNDERGROUND UTILITIES  
 TWO WORKING DAYS BEFORE YOU DIG  
 CALL TOLL FREE 800-362-2764  
 OHIO UTILITIES PROTECTION SERVICE (NONMEMBERS MUST BE CALLED DIRECTLY)



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



PRELIMINARY NOT FOR CONSTRUCTION



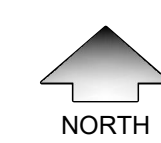
DRAWN BY: P.A.B.  
 ARCHITECT/ENGINEER: M.S.M.  
 CHECKED BY: M.S.M.



LOT 28 GARAGE AND PARK

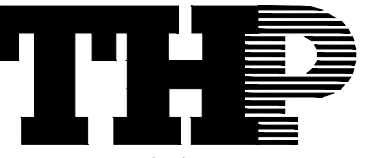
SITE PLAN

JOB NUMBER: 98090.40  
 DATE: 11/05/2021  
 DRAWING NUMBER:





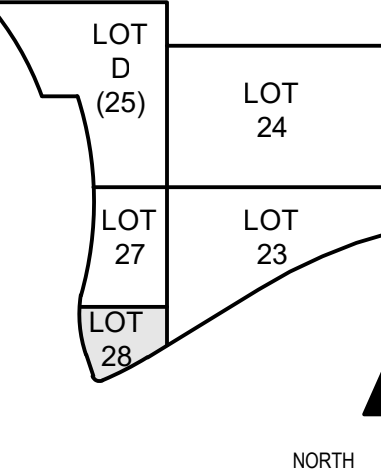
HAMILTON COUNTY  
RIVERFRONT PARKING  
AND INFRASTRUCTURE  
IMPROVEMENTS



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

PRELIMINARY  
NOT FOR  
CONSTRUCTION

ISSUES  
1 1/10/2021 08:41:00 AM BPH1 - GARAGE FOUNDATIONS & SITE PREPARATION



DRAWN BY: P.A.B.  
ARCHITECT/ENGINEER  
M.S.M.  
CHECKED BY: M.S.M.

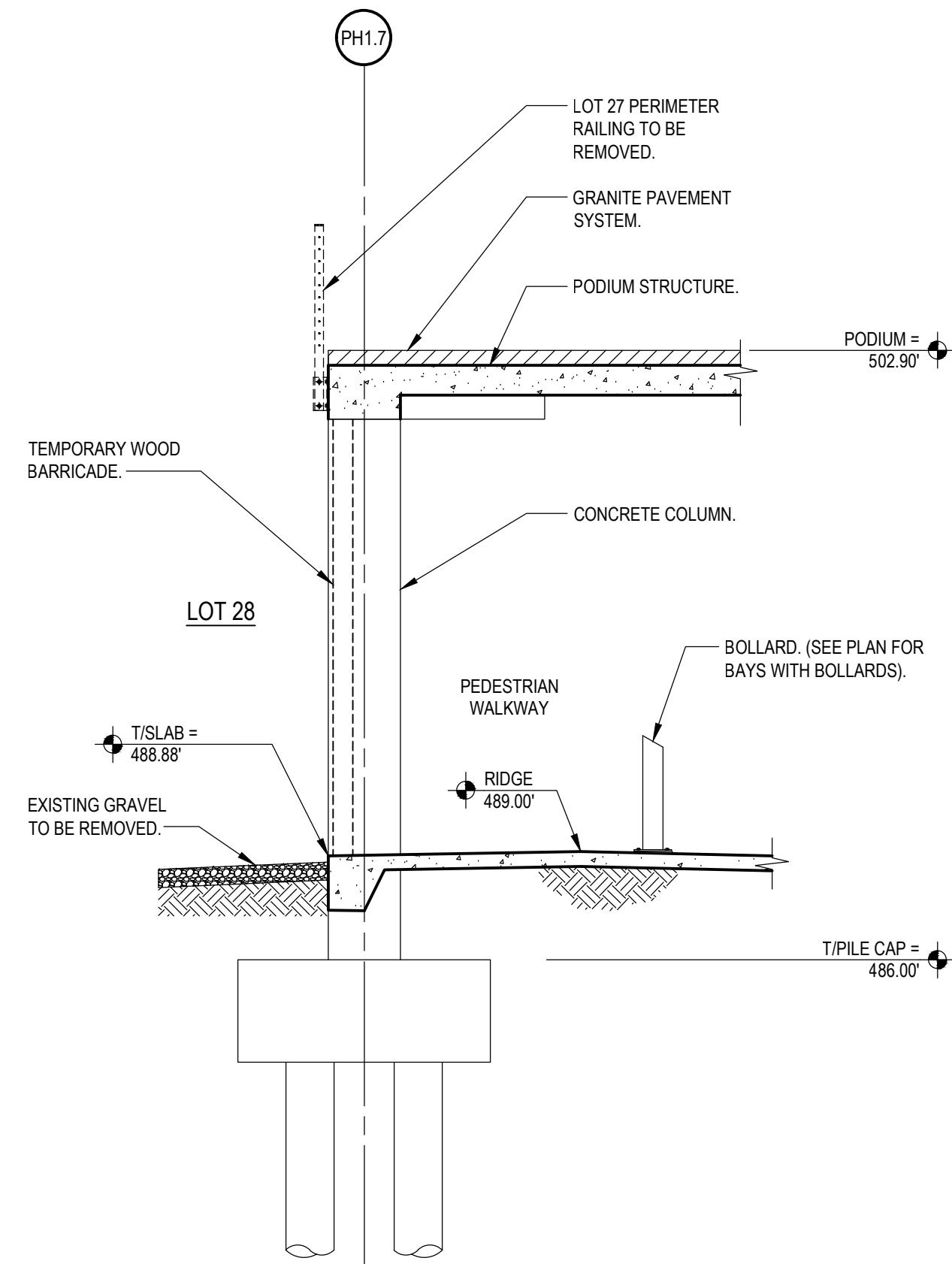


LOT 28 GARAGE  
AND PARK

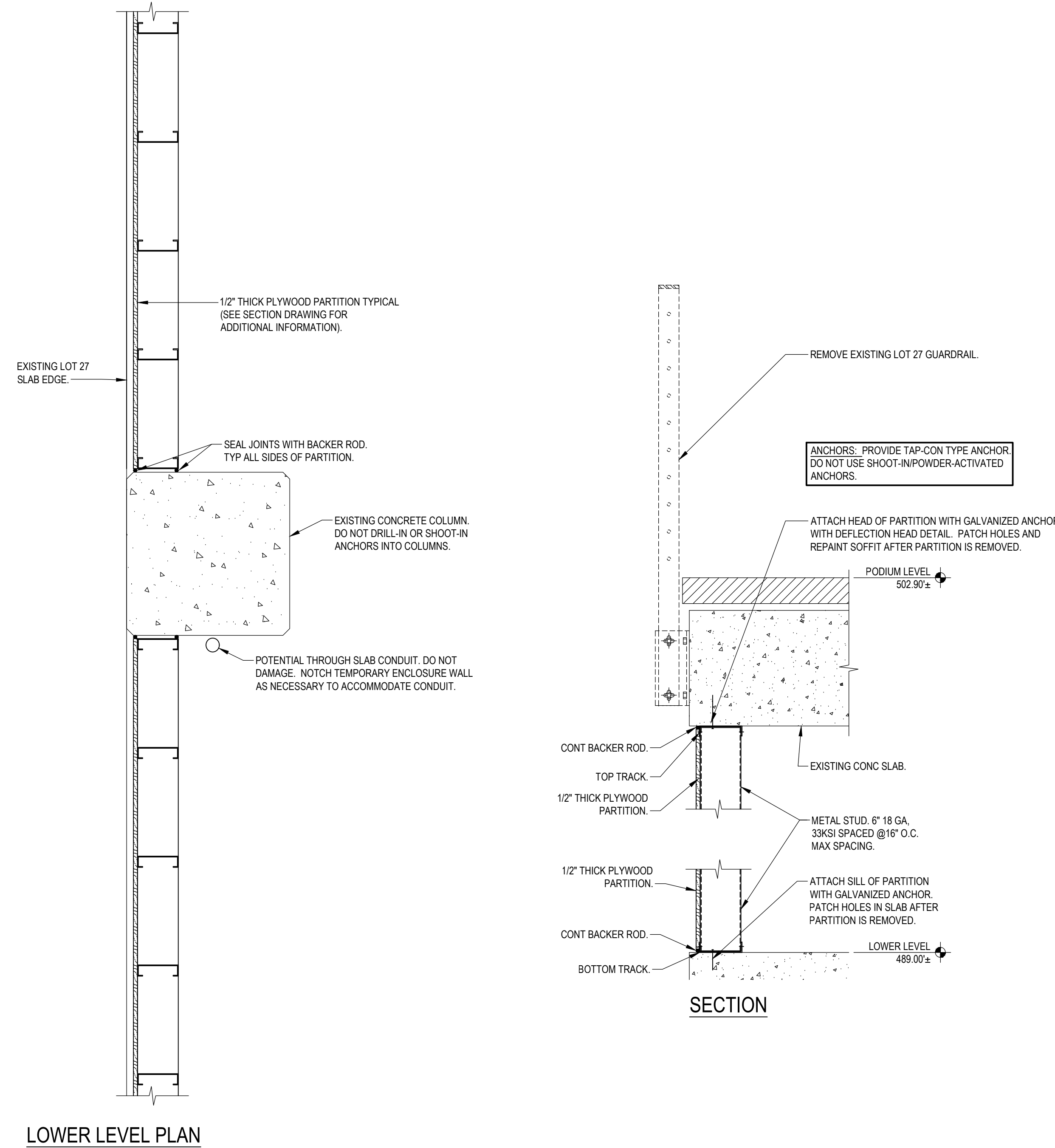
DRAWING TITLE  
SITE  
DETAILS

JOB NUMBER DATE  
98090.40 10/01/2021  
DRAWING NUMBER

C102



1 SECTION  
C102 1/4" = 1'-0"



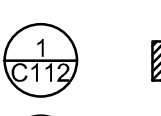
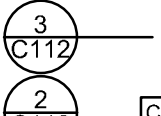
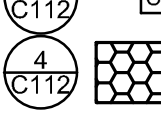


LOWER LEVEL PLAN

2 TEMPORARY PROTECTION  
C102 1" = 1'-0"

ANDREW J. BRADY ICON MUSIC CENTER

LOT 23

**PROPOSED EROSION CONTROL LEGEND**

-  INLET PROTECTION. PROVIDE IF EXISTING CATCH BASIN IS FOUND / REMAINS DURING CONSTRUCTION
-  SILT FENCE
-  CONCRETE WASHOUT. LOCATION T.B.D.
-  CONSTRUCTION ENTRANCE. PROVIDE & MAINTAIN AS NECESSARY
-  LIMITS OF DISTURBANCE / CONSTRUCTION FENCE. COORDINATE LOCATION WITH PHASING.

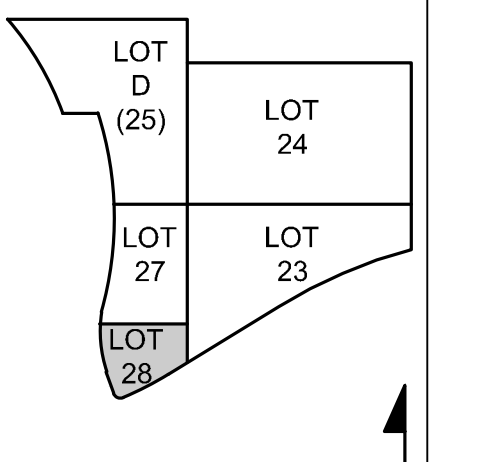


HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS

**THP**  
THP Limited, Inc.  
Consulting Engineers  
100 East Eighth Street  
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Phone: (513) 241-3232  
Fax: (513) 241-2981



NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS		



DRAWN BY: M.K.  
ENGINEER: M.K.  
CHECKED BY: S.K.



LOT 28 GARAGE AND PARK  
DRAWING TITLE:  
**EROSION CONTROL PLAN**  
JOB NUMBER: DATE: 11/05/2021  
**C110**

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**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 HARDCAPE, 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: 0.65 ACRES
TOTAL DISTURBED AREA: 0.65 ACRES

EXISTING IMPERVIOUS AREA: 0.65 ACRES
PROPOSED IMPERVIOUS AREA: 0.65 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION: 0.65 ACRES
INCREASE IN IMPERVIOUS AREA: 0%

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: U/O URBAN LAND, 0-12 PERCENT SLOPES, OCCASIONALLY FLOODED, U8UXF
URBAN LAND - UDORTMENTS 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
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

**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

PROJECT ENGINEER

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.

ADDITIONAL EMERGENCY CONTACT NUMBERS: 24 HOUR PHONE NO.:
OHIO EPA 614-728-3898

**GENERAL NOTES**

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 PLAN.

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 DISCRETION.

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 RAY 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 SWEEP 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
Table with columns: AREA REQUIRING PERMANENT STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS.

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
Table with columns: AREA REQUIRING TEMPORARY STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS.

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 STATE.

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
Table with columns: SEED TYPE, PER 1,000 SQ FT, PER ACRE.

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.

**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 7 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.

Table with columns: STABILIZATION TYPE, J, F, M, A, M, J, J, A, S, O, N, D. Rows: PERMANENT SEEDING, DORMANT SEEDING, TEMPORARY SEEDING, SODDING, MULCHING.

\* IRRIGATION NEEDED
\*\* IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOO IS APPLIED

**INSPECTIONS**

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:

- 1. THE INSPECTION DATE;
2. 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. VEGETATIVE COVER AND/MULCH - 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.

Table with columns: ADHESIVE, WATER DILUTION (ADHESIVE:WATER), NOZZLE TYPE, APPLICATION RATE (GAL/AC).

**PERMITTEE**

NAME
ADDRESS1
ADDRESS2
PHONE:
FAX:
CONTACT:
EMAIL:

GENERAL PERMIT: OHC000005

NPDES PERMIT:

DATE OF ISSUE:



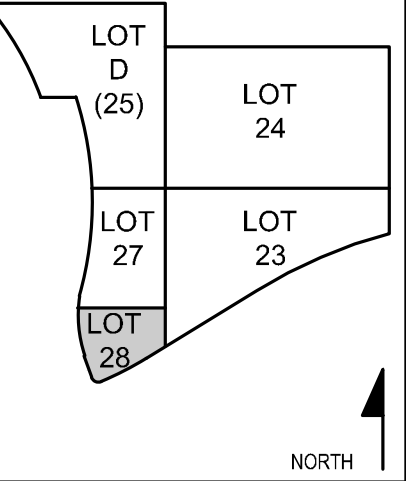
HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
IMPROVEMENTS



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Table with columns: ISSUES, DATE, TIME, BY, APPROVAL, and rows for 1-11.



DRAWN BY: M.K.
ENGINEER: M.K.
CHECKED BY: S.K.



LOT 28 GARAGE AND PARK

DRAWING TITLE
EROSION CONTROL
NOTES & DETAILS

JOB NUMBER DATE
11/05/2021

C111



HAMILTON COUNTY
RIVERFRONT PARKING
AND INFRASTRUCTURE
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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.
6. 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.

HAZARDOUS PRODUCTS:

- 1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
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 PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
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.

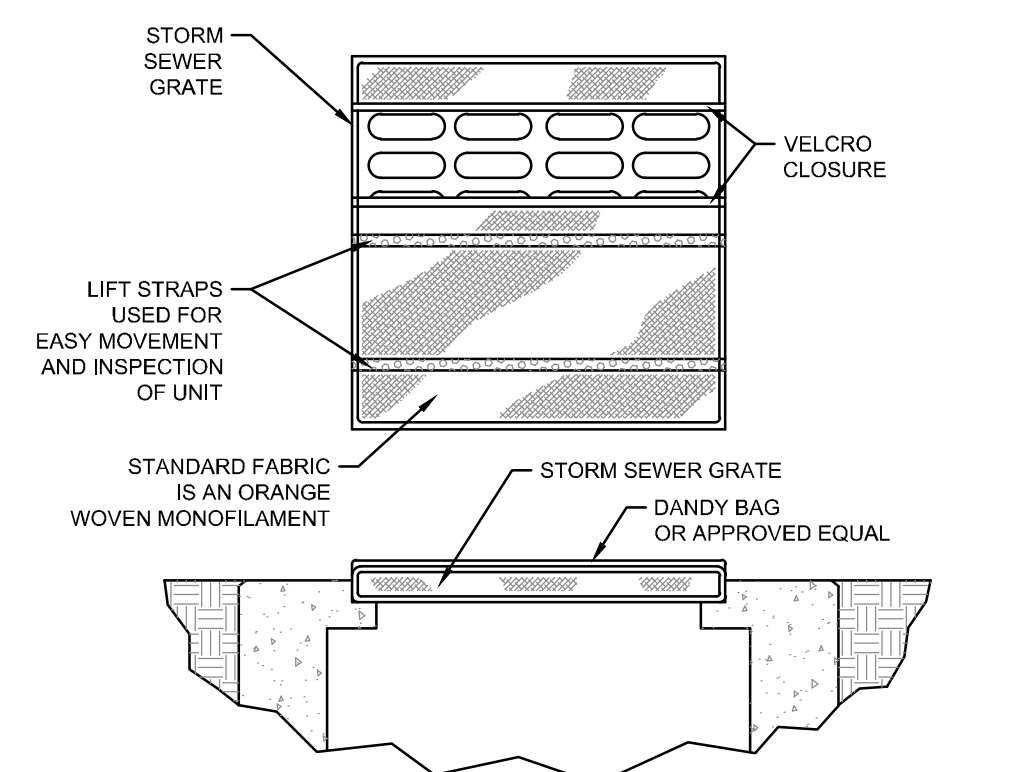
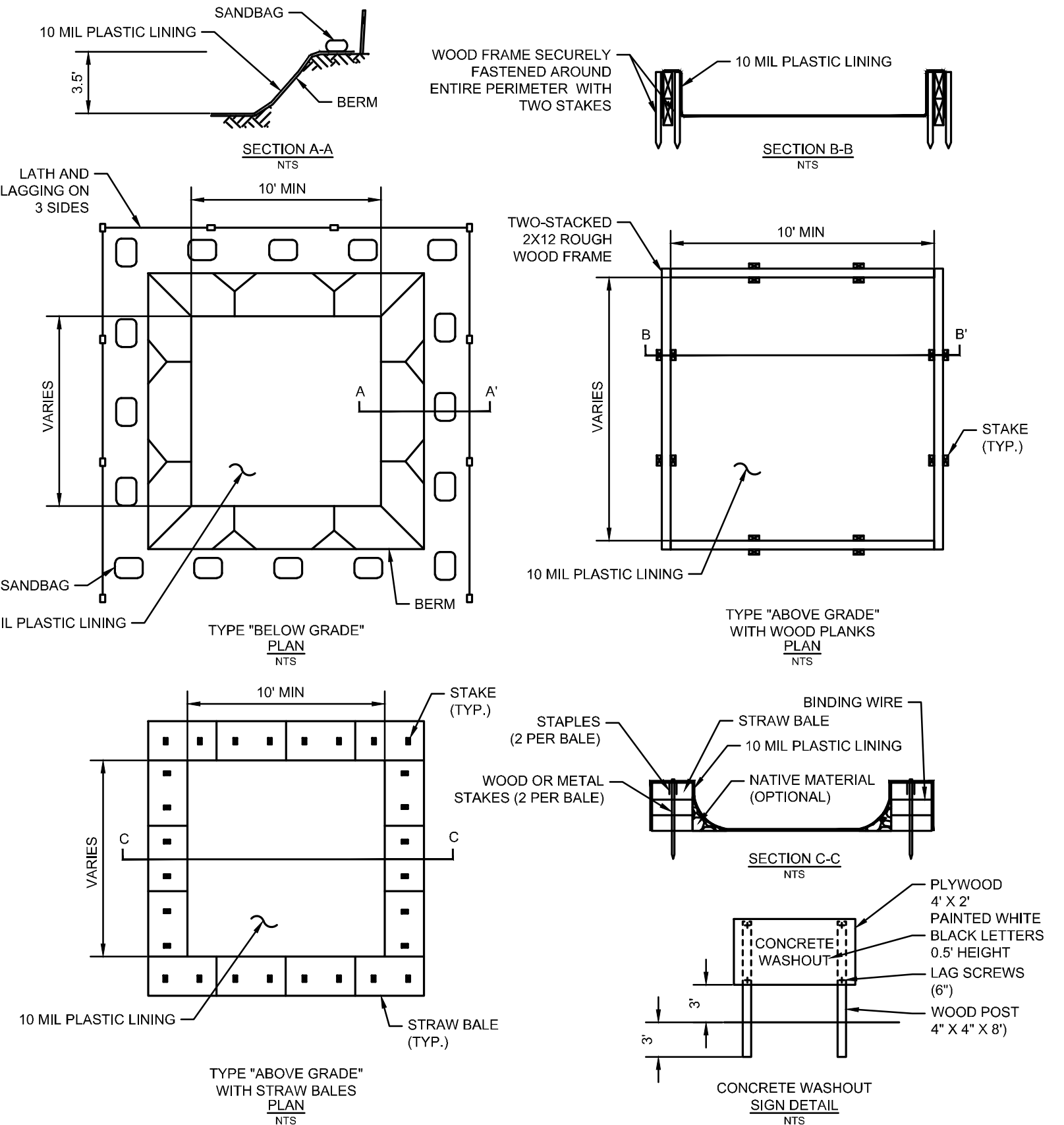


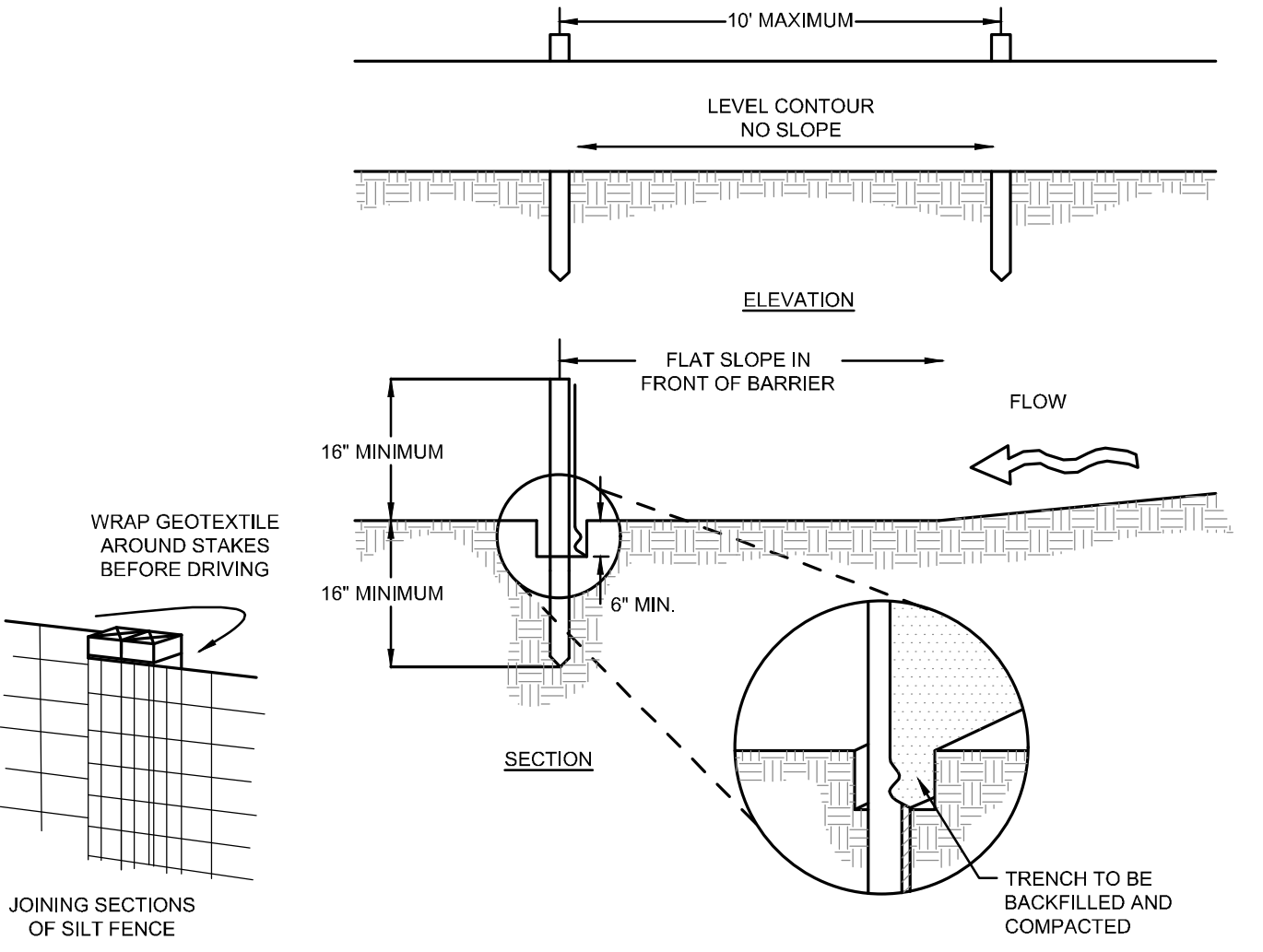
Table with 4 columns: MECHANICAL PROPERTIES, TEST METHOD, UNITS, MARV. Rows include Grab Tensile Strength, Grab Tensile Elongation, Puncture Strength, Miller Burst Strength, Tear Strength, UV Resistance, Apparent Opening Size, Flow Rate, and Permittivity.

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE) SIDE OF THE UNIT. ATTACH ABSORBENT PILLLOW TO TETHER LOOP. PLUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE 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 ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLLOW WHEN NEAR SATURATION.



- NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



- NOTES:
1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR 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.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 18 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 MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
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 8-INCH DEEP TRENCH - THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTIONS OR SILT FENCE SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN OVERLAP PRIOR TO DRIVING INTO THE GROUND.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.
SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

- CRITERIA FOR SILT FENCE MATERIALS
1. FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-3/4 INCH NOMINAL DIAMETER, 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 GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
2. SILT FENCE FABRIC - SEE CHART BELOW.

Table for Silts Fence Detail showing Fabric Properties, Values, and Test Method. Properties include Minimum Tensile Strength, Maximum Elongation, Minimum Puncture Strength, Minimum Tear Strength, Apparent Opening Size, and UV Exposure Strength Retention.



PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

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 MANUFACTURERS' 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

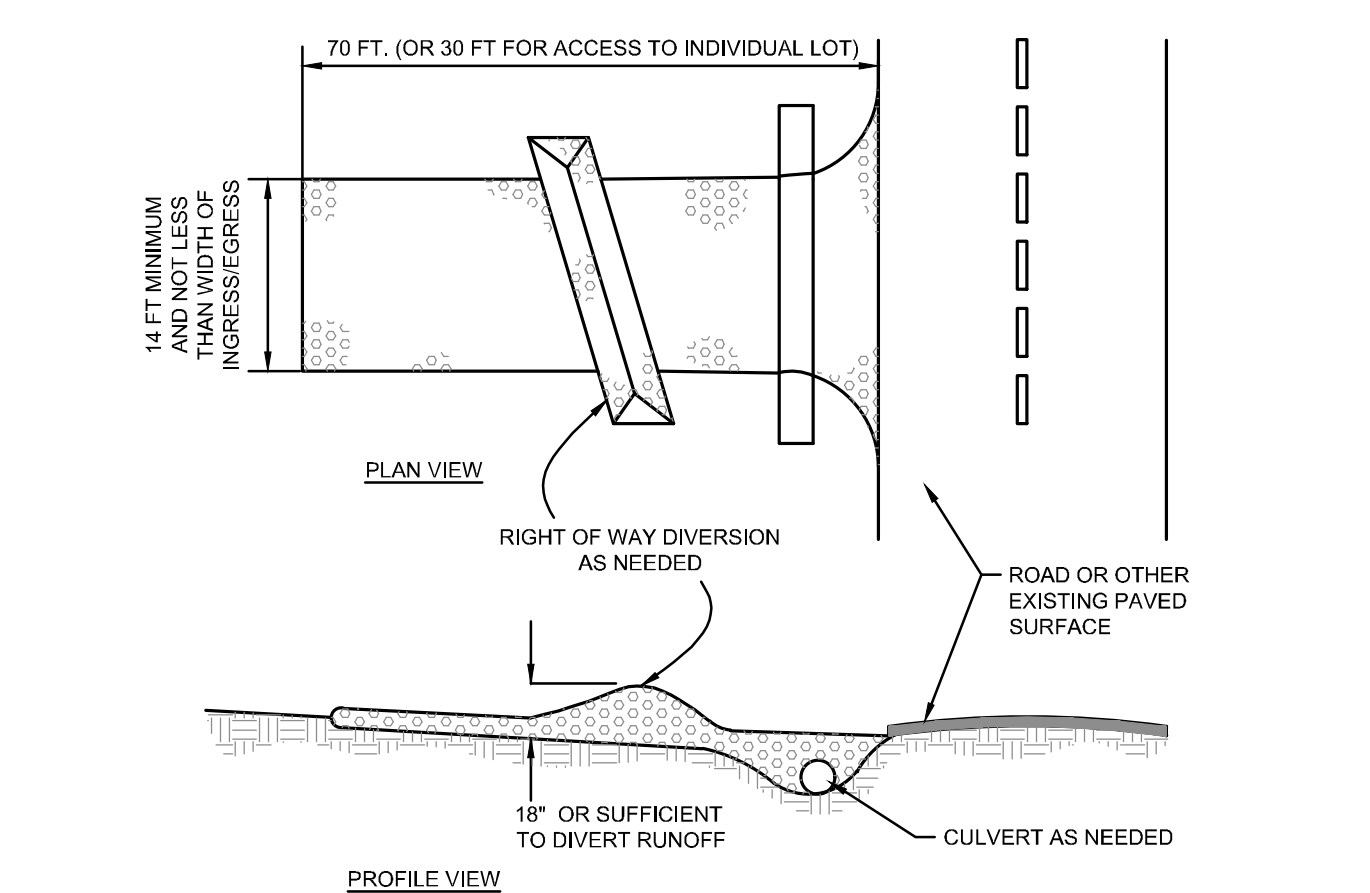
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER, ONCE APPLIED. FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE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

PAINTS

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.

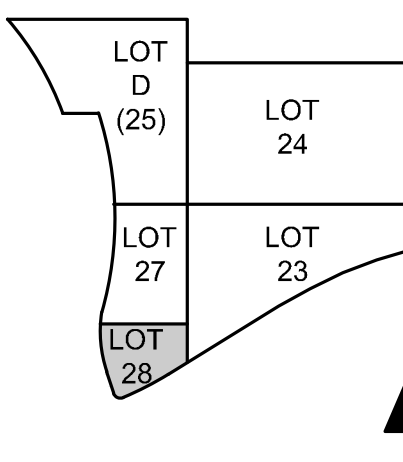


NOTES

- 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 THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA 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..... 20%
EQUIVALENT OPENING SIZE..... 60# 0.8MM
PERMIATIVITY..... 1X10^9 CM/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 NEEDED 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 SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
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 REPAIRS 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 CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. 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 AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



Table for drawing issues and revisions.



DRAWN BY: M.K.
ENGINEER: M.K.
CHECKED BY: S.K.



LOT 28 GARAGE AND PARK

EROSION CONTROL NOTES & DETAILS

JOB NUMBER DATE 11/05/2021





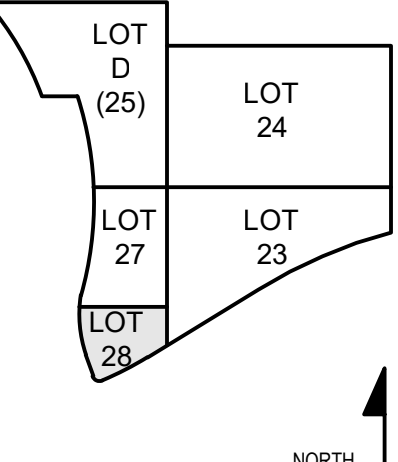
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NO.	DESCRIPTION
1	11/05/2021
2	11/05/2021
3	11/05/2021
4	11/05/2021
5	11/05/2021
6	11/05/2021
7	11/05/2021
8	11/05/2021
9	11/05/2021
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17	11/05/2021
18	11/05/2021
19	11/05/2021
20	11/05/2021
21	11/05/2021
22	11/05/2021



DRAWN BY: P.A.B.  
ARCHITECT/ENGINEER: M.S.M.  
CHECKED BY: M.S.M.



LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
EXISTING CONDITIONS  
& SITE DEMOLITION  
PLAN

JOB NUMBER: 98090.40  
DATE: 11/05/2021  
DRAWING NUMBER:

D101

**DEMOLITION NOTES:**

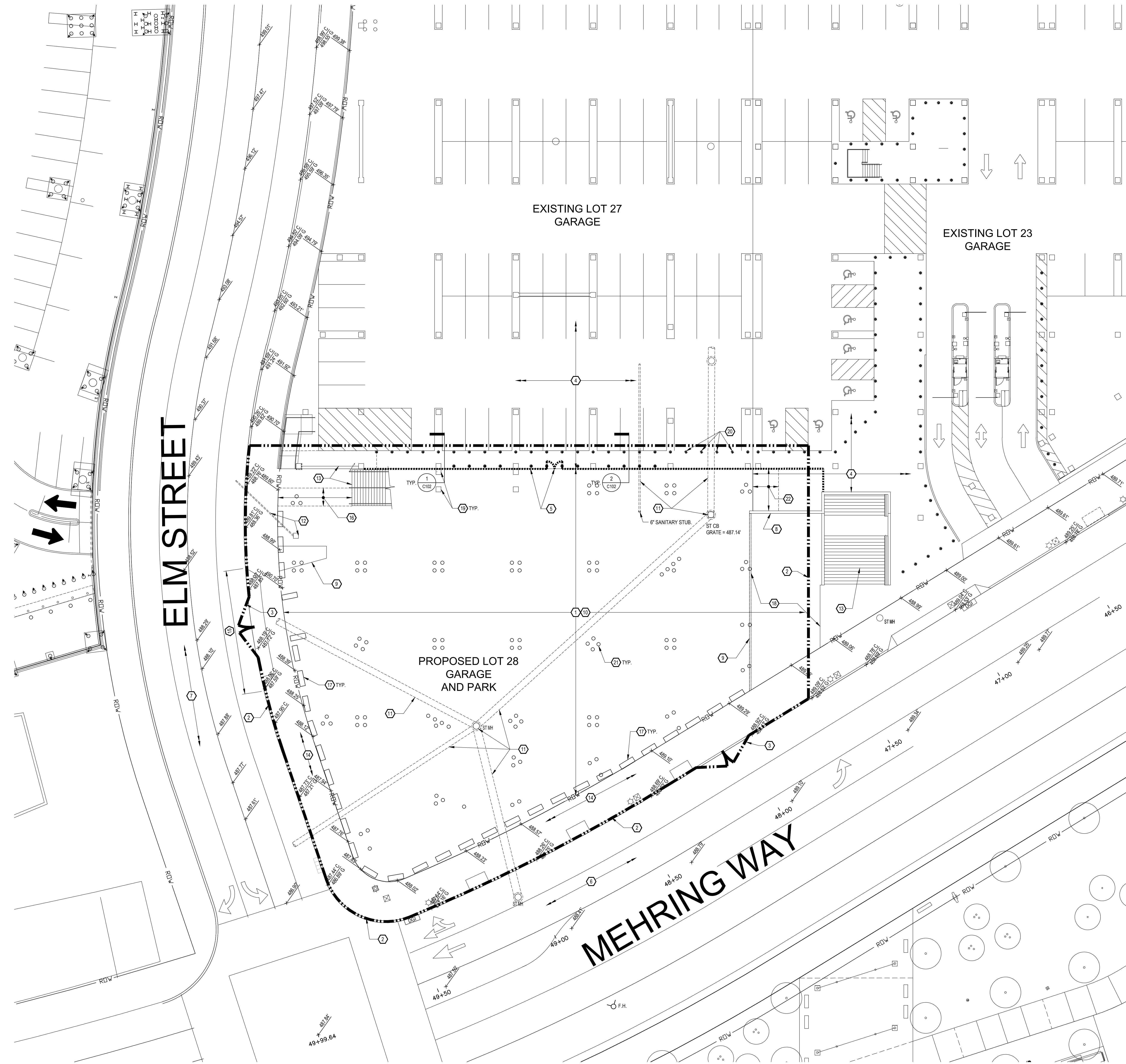
- LEGEND:**
- INDICATES EXISTING FOUNDATIONS (PILE CAPS, ETC) THAT ARE TO REMAIN.
  - EXISTING VERTICAL PILE LOCATION (BASED ON HISTORICAL DOCUMENTS).
  - EXISTING BATTERED PILE LOCATION (BASED ON HISTORICAL DOCUMENTS).
  - UTILITY TO BE REMOVED.
  - OVERHEAD POWER LINE.
  - UNDERGROUND CONDUIT AND POWER LINE.
  - EXISTING GAS.
  - EXISTING ELECTRIC.
  - EXISTING TELEPHONE.
  - EXISTING WATER.
  - EXISTING SANITARY.
  - EXISTING STORMWATER.
  - EXISTING SPOT ELEVATION.
  - EXISTING GRADE CONTOUR LINES.
  - CONSTRUCTION LIMIT LINE.
  - TEMPORARY PROTECTION.

**GENERAL NOTES:**

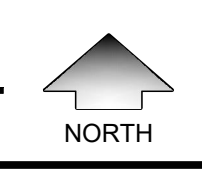
- A. CONTRACTOR SHALL VISIT THE SITE AND SHALL REVIEW REFERENCE DRAWINGS (ON FILE AT CONSTRUCTION MANAGERS OFFICE) TO BECOME THOROUGHLY FAMILIAR WITH CURRENT AND PAST CONDITIONS.
- B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. REPORT ANY SIGNIFICANT DISCREPANCIES TO CONSTRUCTION MANAGER AND ARCHITECT.
- C. THE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORD INFORMATION PROVIDED AND FIELD OBSERVATION. THE ACCURACY OF UTILITY LOCATIONS IS NOT GUARANTEED. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL CALL THE OHIO UTILITY PROTECTION SERVICE (OUPS) AT 1-800-362-2764 AND OWNERS OF UNDERGROUND UTILITIES NOT REGISTERED WITH OUPS AT LEAST TWO DAYS BEFORE PERFORMING ANY EXCAVATION WORK. PROTECT EXISTING UTILITY LINES THAT ARE TO REMAIN. REFER TO DRAWING C101, PROJECT GENERAL NOTES, SECTION A - UTILITIES, FOR ADDITIONAL UTILITY INFORMATION.
- D. CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH OWNERS OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF THE UTILITY PRIOR TO ABANDONMENT OR REMOVAL OF A UTILITY TO ENSURE THE OWNER HAS APPROPRIATELY DECOMMISSIONED THE LINE.
- E. SURFACE FEATURES, UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORD INFORMATION. THEREFORE, THEIR LOCATIONS AND SIZES SHOULD BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE DRAWINGS.
- F. PROTECT ALL STRUCTURES AND FACILITIES THAT ARE TO REMAIN. PROVIDE TEMPORARY RETENTION SYSTEMS AT EXCAVATIONS ADJACENT TO EXISTING WALLS, UTILITIES, FOUNDATIONS AND PAVEMENTS SCHEDULED TO REMAIN.
- G. ALL EXCAVATIONS SHALL BE BACKFILLED IN ACCORDANCE WITH SPECIFICATION SECTION 31000 - EARTHWORK.
- H. REFER TO DWG C101 - GENERAL NOTES PARAGRAPH 8, FOR REQUIRED EROSION CONTROL MEASURES PRIOR TO ANY EARTHWORK RELATED DEMOLITION.
- I. OUTSIDE OF CONSTRUCTION LIMITS, EXISTING SITE LIGHTING, STREET POLES, TREES, ETC. ARE TO REMAIN, UNLESS NOTED OTHERWISE.

**DRAWING NOTES:**

1. EXTENTS OF NEW LOT 28 GARAGE AND PARK STRUCTURE.
2. PROVIDE AND MAINTAIN CONSTRUCTION SAFETY FENCE (FULL LENGTH OF CONSTRUCTION FENCE LINE). ADJUST FENCE LINE BASED ON PHASING AND AS DIRECTED BY CONSTRUCTION MANAGER. SUBMIT FOR SIDEWALK CLOSURE.
3. PROVIDE (2) 24" WIDE, DOUBLE DOOR CONSTRUCTION ACCESS GATES. APPROXIMATE LOCATIONS SHOWN - COORDINATE EXACT LOCATIONS WITH CONSTRUCTION MANAGER.
4. EXISTING LOT 27 AND LOT 23 GARAGE STRUCTURE TO REMAIN. PROTECT THROUGHOUT DURATION OF PROJECT.
5. PROVIDE TEMPORARY PROTECTION AT PERIMETER OF LOT 23 AND 27 GARAGE. LOWER LEVEL. PER DETAILS 1 AND 2/C102. ERECT PROTECTION BARRICADE BEFORE START OF ANY NEW WORK. PROVIDE (1) SET OF DOUBLE DOORS WITH PAD-LOCK INTO EXISTING LOT 27 GARAGE AS DIRECTED BY CONSTRUCTION MANAGER.
6. EXISTING MEHRING WAY TO REMAIN. PROTECT THROUGHOUT DURATION OF PROJECT.
7. EXISTING ELM STREET TO REMAIN. PROTECT THROUGHOUT DURATION OF PROJECT.
8. EXISTING WALL TO REMAIN. PROTECT THROUGHOUT DURATION OF PROJECT.
9. REMOVE EXISTING CURB AND CONCRETE PAD.
10. REMOVE EXISTING SURFACE GRAVEL IN LOT 28 LIMITS (APPROXIMATE 8" IN DEPTH). COORDINATE SEQUENCE OF REMOVAL WITH CONSTRUCTION MANAGER. PROVIDE HAULING OF GRAVEL WITHIN ONE MILE RADIUS OF SITE AS DIRECTED BY CONSTRUCTION MANAGER.
11. PROTECT FROM DAMAGE AND MAINTAIN EXISTING SEWERS, AND ASSOCIATED MANHOLES AND CATCH BASINS. REFER TO CIVIL DRAWINGS FOR UNDERGROUND SEWER WORK.
12. EXISTING ELECTRICAL PULL BOX AND COMMUNICATION DUCTBANK FOR LOT 28. PROTECT DURING CONSTRUCTION.
13. EXISTING STAIRS TO REMAIN. PROTECT AND PROVIDE PEDESTRIAN ACCESS THROUGHOUT DURATION OF PROJECT.
14. EXISTING MEHRING WAY AND ELM STREET SIDEWALK. REMOVE ENTIRE SIDEWALK TO BACK OF CURB ALONG PERIMETER OF SITE. COORDINATE REMOVAL WITH SEQUENCE OF CONSTRUCTION. PROTECT ALL EXISTING LIGHT POLES, PULL BOXES, TREE GRATES, ETC. AFTER CONSTRUCTION, REPLACE PER CITY OF CINCINNATI STANDARDS. REVIEW SURVEY DRAWINGS FOR UNDERGROUND AND SURFACE UTILITY LOCATIONS.
15. EXISTING MEHRING WAY CURB CUT AND APRON. REMOVE AND REPLACE WITH CITY OF CINCINNATI STANDARDS STREET CURB AND SIDEWALK.
16. REMOVE AND REPLACE PORTION (APPROXIMATELY 7'-0" WIDTH) OF EXISTING SLAB ON GRADE FOR FOUNDATION WORK.
17. REMOVE AND SALVAGE EXISTING CONCRETE BARRICADES AROUND WEST AND SOUTH PERIMETER OF SITE. PROVIDE HAULING AND DELIVERY TO A FACILITY WITHIN ONE MILE RADIUS OF SITE AS DIRECTED BY CONSTRUCTION MANAGER.
18. EXISTING PLANTER.
19. EXISTING COLUMNS. PROTECT DURING CONSTRUCTION.
20. EXISTING BOLLARDS (4 TOTAL) TO BE REMOVED AND SALVAGED AS DIRECTED BY CONSTRUCTION MANAGER. CUT OFF EXISTING STAINLESS STEEL BOLLARDS FLUSH WITH CONCRETE AND REMOVE GROUT.
21. EXISTING 16" DIAMETER AUGER CAST PILES TO REMAIN.
22. REMOVE PORTION OF EXISTING SLAB ON GRADE FOR FOUNDATION WORK. REFER TO FOUNDATION DRAWING S101.



1  
C102  
EXISTING CONDITIONS & SITE DEMOLITION PLAN  
1" = 30'



**GENERAL NOTES:**

1. REFER TO RELATED STRUCTURAL DRAWINGS.

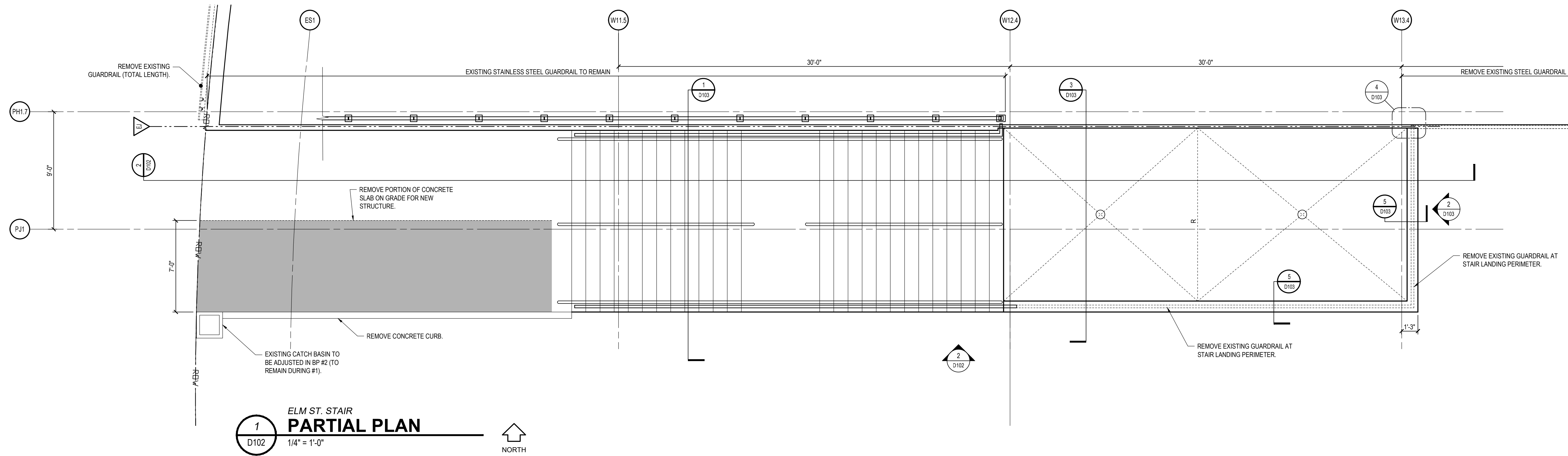


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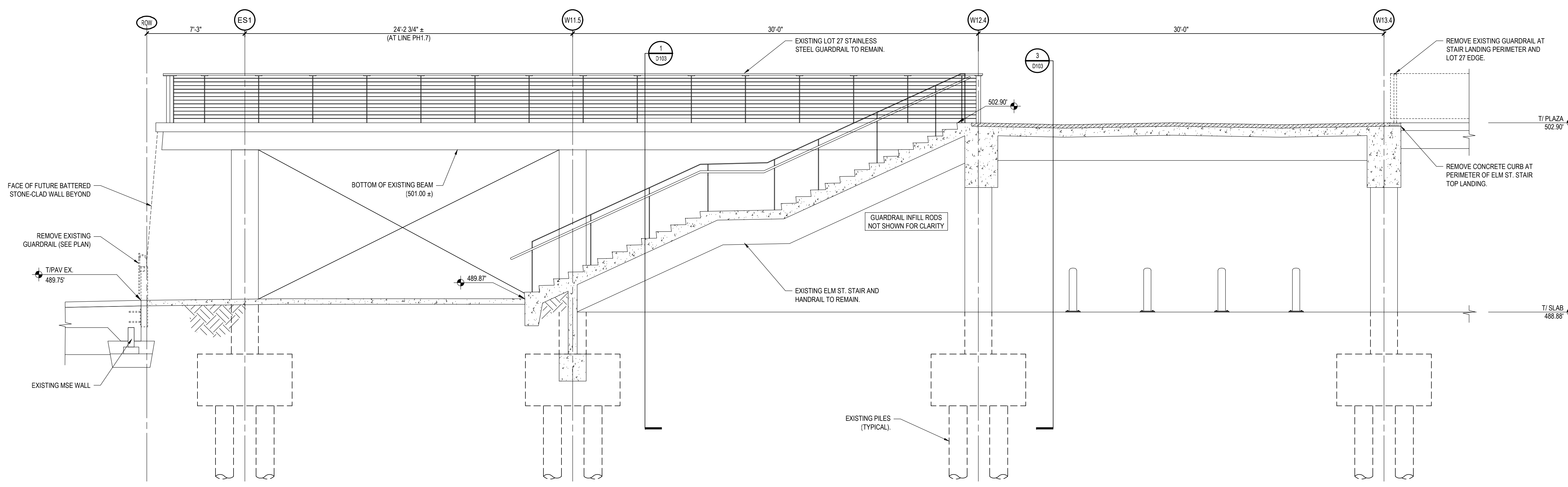


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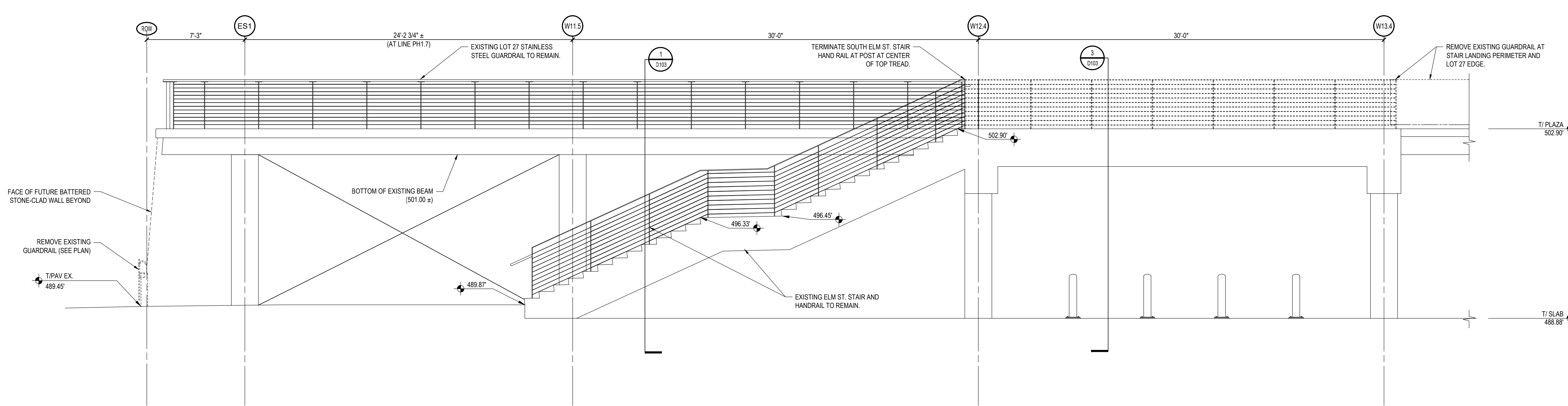
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**1**  
ELM ST. STAIR  
**PARTIAL PLAN**  
D102  
1/4" = 1'-0"

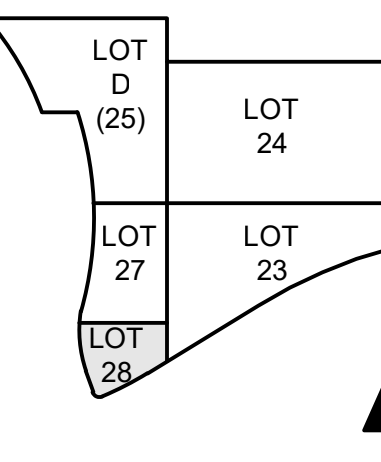


**2**  
ELM ST. STAIR  
**SECTION**  
D102  
1/4" = 1'-0"



**3**  
ELM ST. STAIR  
**ELEVATION**  
D102  
1/4" = 1'-0"

ISSUES  
1 11/05/2021 BP#1 - GARAGE FOUNDATIONS & SITE PREPARATION



DRAWN BY: P.A.B.  
ARCHITECT/ENGINEER: M.S.M.  
CHECKED BY: M.S.M.



LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
DEMOLITION  
ELM STREET  
SITE STAIRS

JOB NUMBER: 98090.40  
DATE: 11/05/2021  
DRAWING NUMBER:

D102



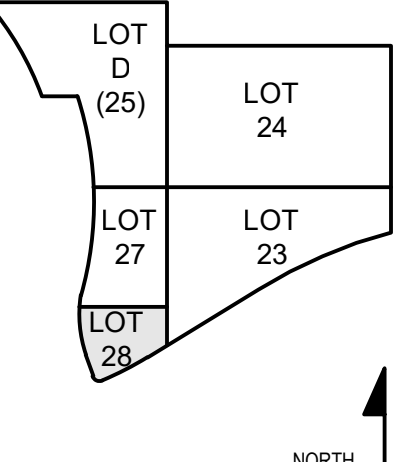
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ISSUES  
1 11/05/2021 BPH - GARAGE FOUNDATIONS & SITE PREPARATION



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ARCHITECT/ENGINEER: M.S.M.  
CHECKED BY: M.S.M.

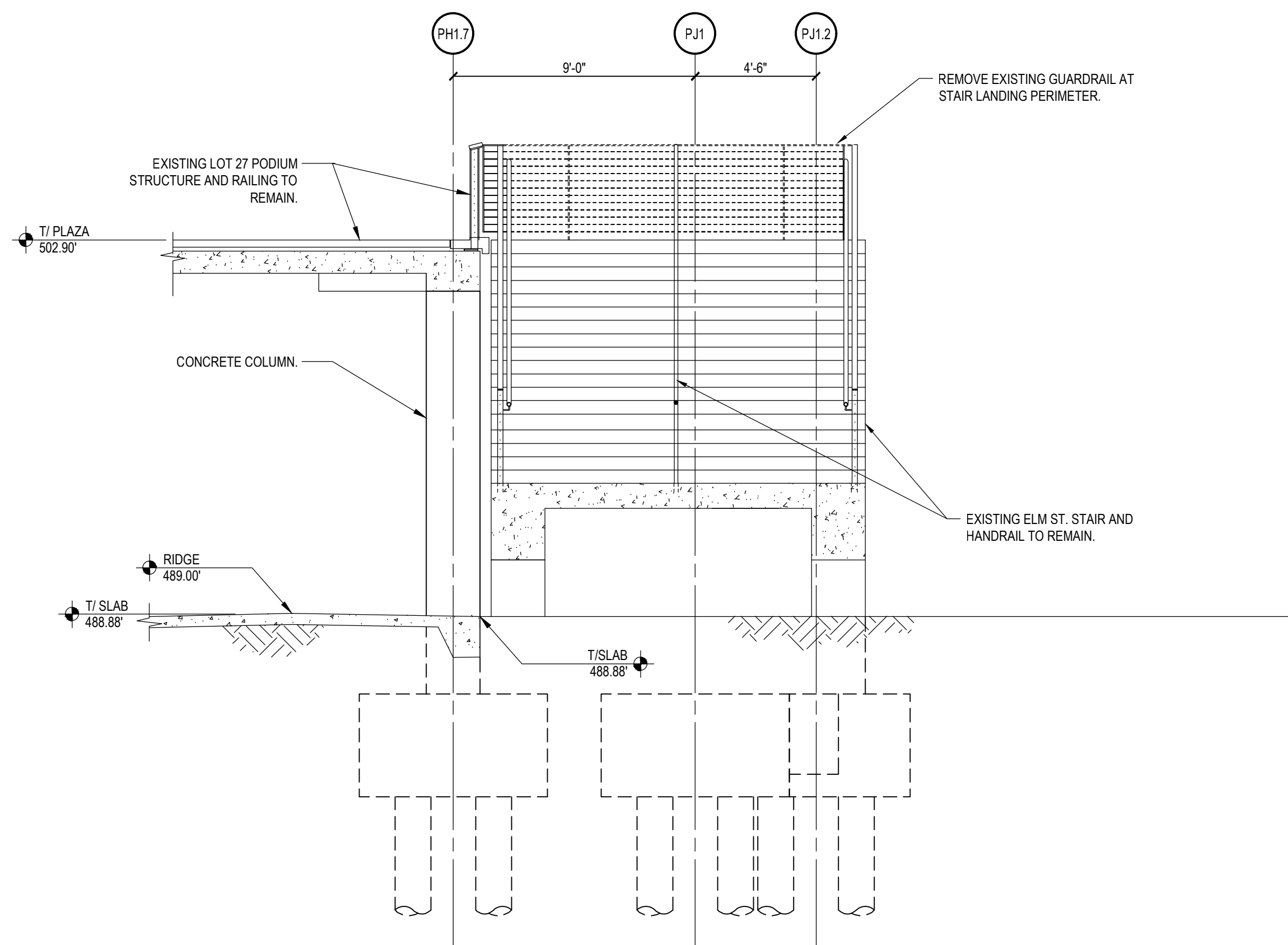


LOT 28 GARAGE  
AND PARK

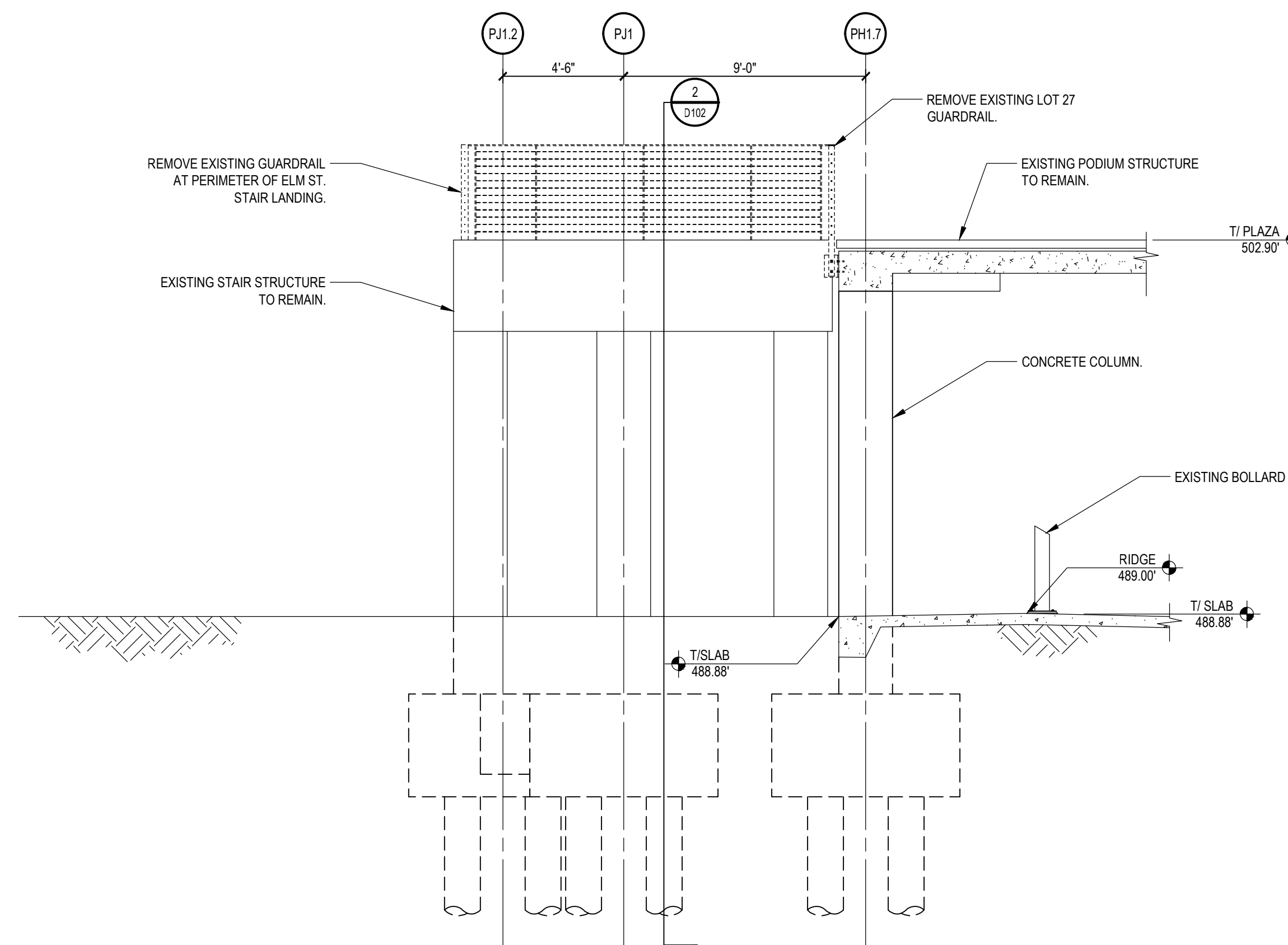
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ELM STREET  
SITE STAIRS DETAILS

JOB NUMBER: 98090.40  
DATE: 11/05/2021  
DRAWING NUMBER

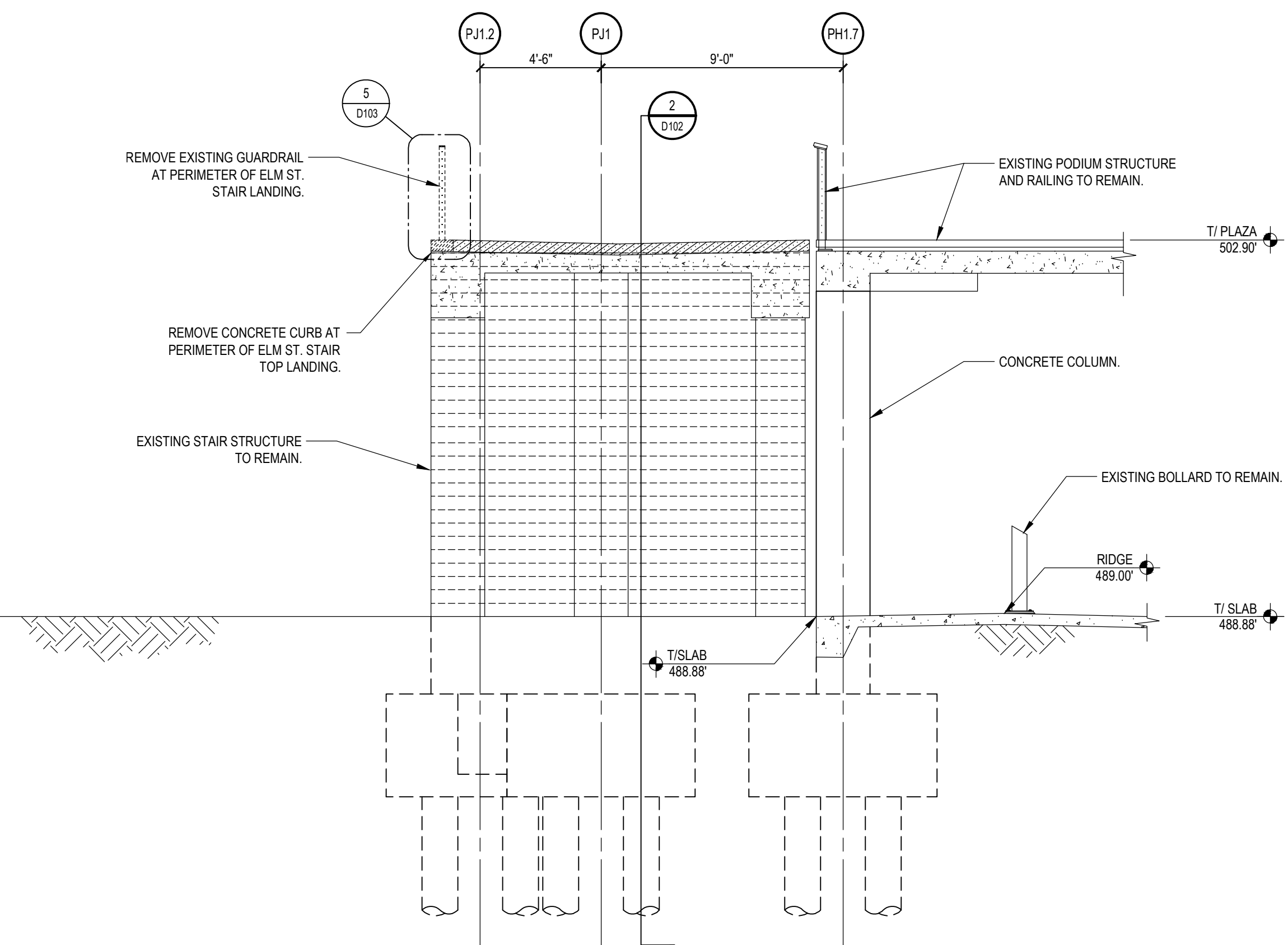
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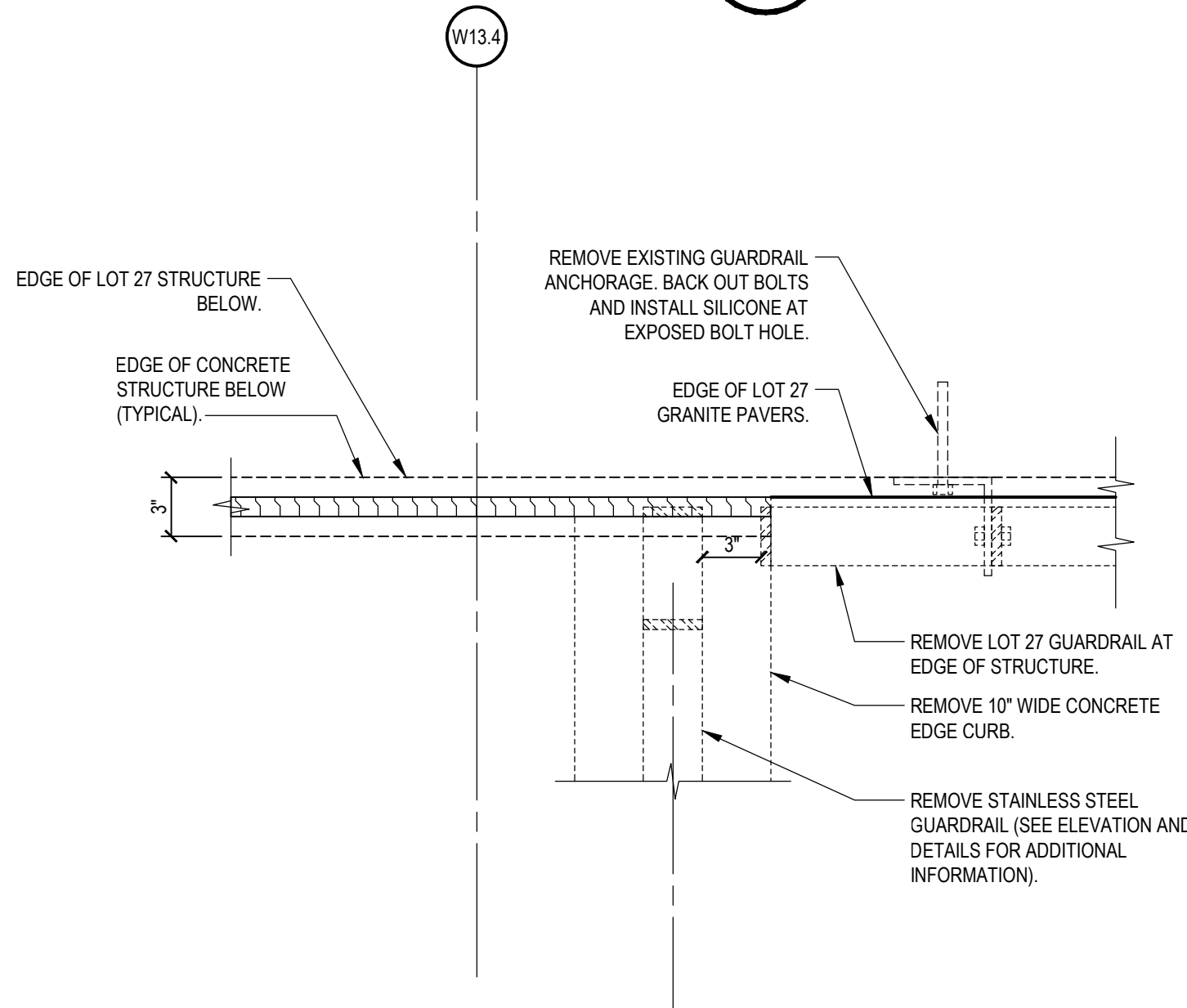
1  
ELM ST. STAIR  
SECTION  
D103 1/4" = 1'-0"



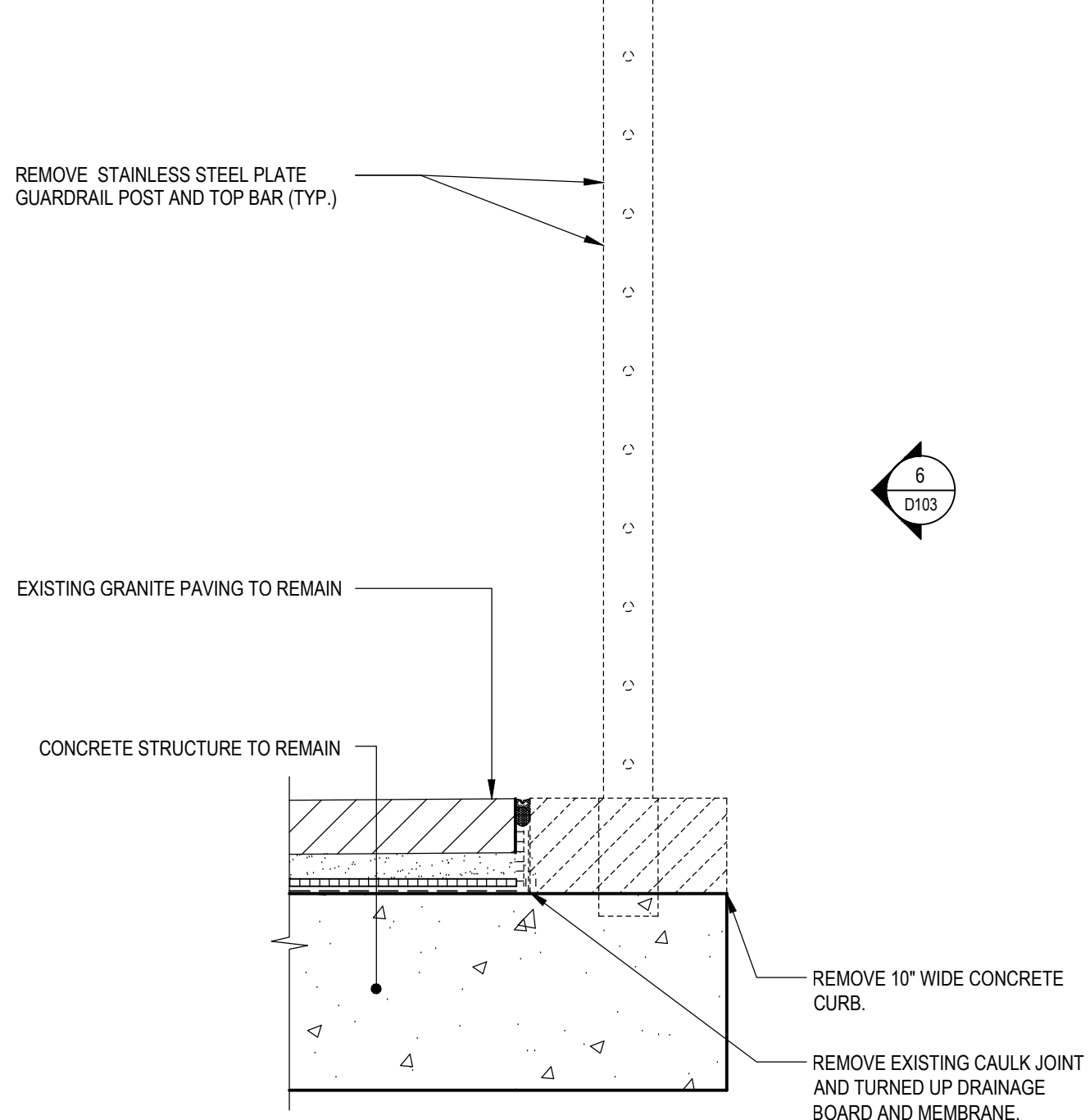
2  
ELM ST. STAIR  
ELEVATION  
D103 1/4" = 1'-0"



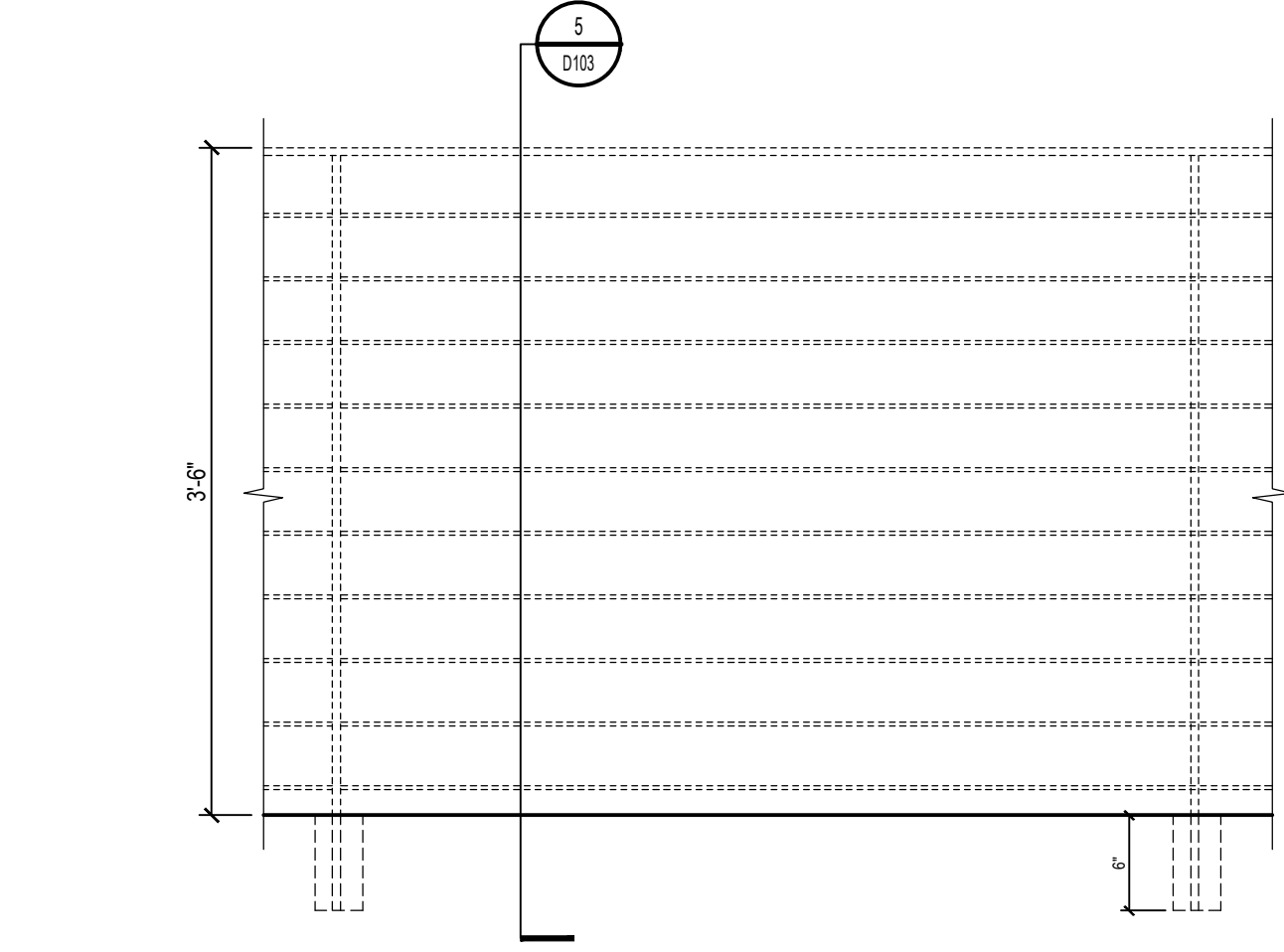
3  
ELM ST. STAIR  
SECTION  
D103 1/4" = 1'-0"



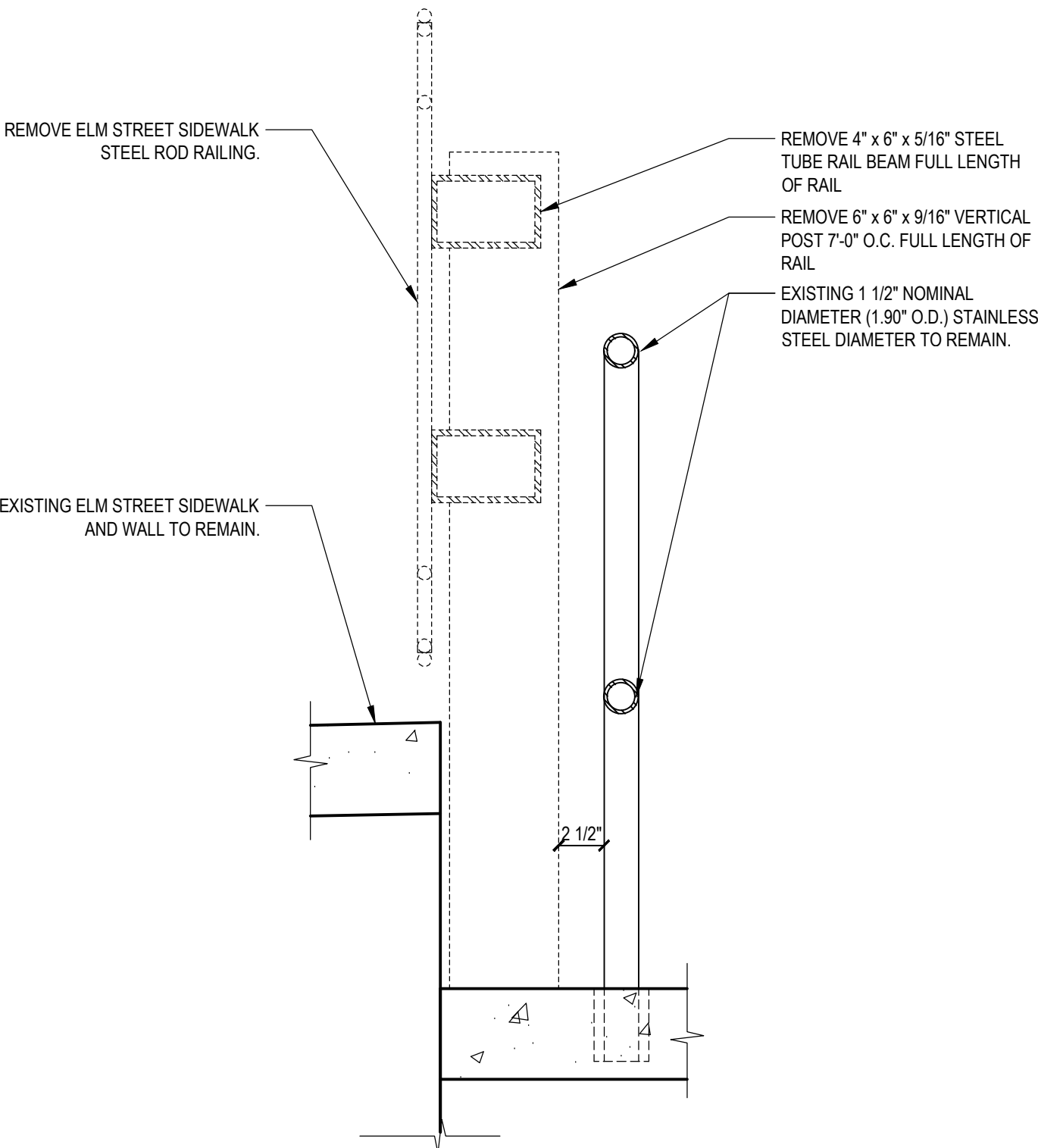
4  
PLAN DETAIL  
D103 1 1/2" = 1'-0"



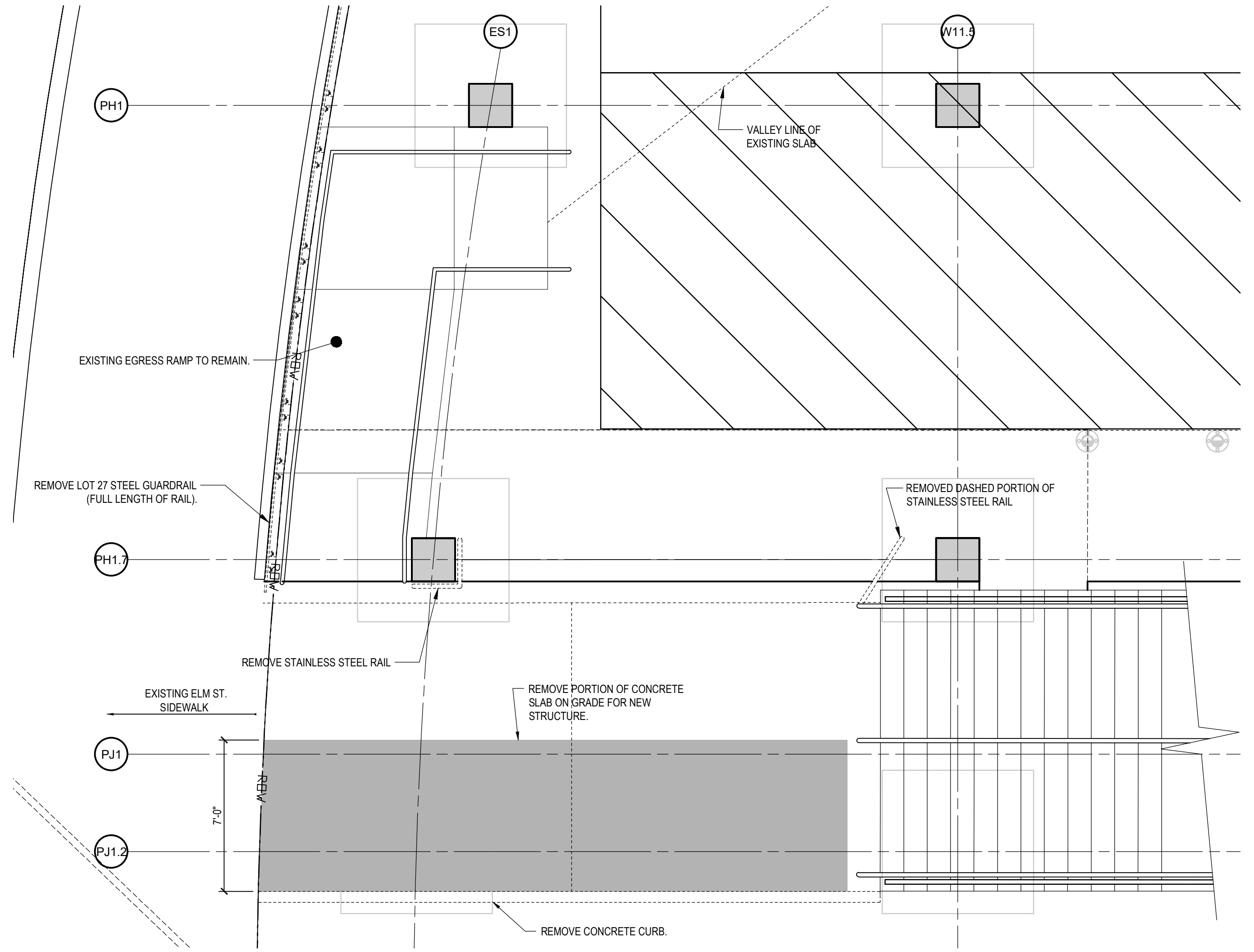
5  
TOP LANDING GUARDRAIL DEMOLITION  
SECTION  
D103 1 1/2" = 1'-0"



6  
TOP LANDING GUARDRAIL  
ELEVATION  
D103 1" = 1'-0"



7  
LOT 27 GUARDRAIL REMOVAL  
SECTION  
D103 1 1/2" = 1'-0"



8  
ELM ST. STAIR  
PARTIAL PLAN  
D103 1/4" = 1'-0"

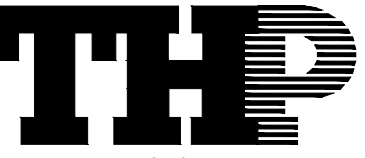


**GENERAL NOTES:**

1. REFER TO RELATED STRUCTURAL DRAWINGS.

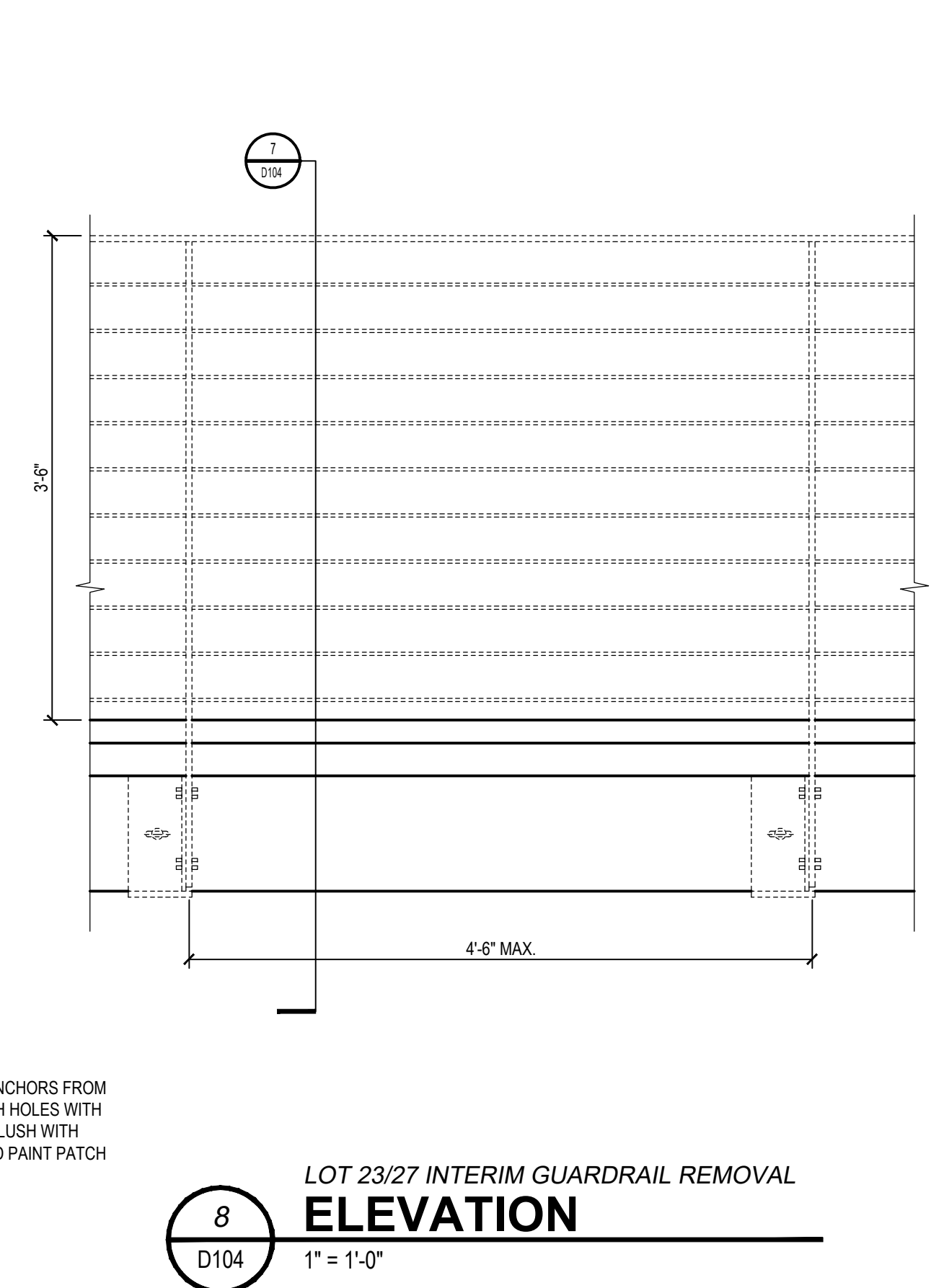
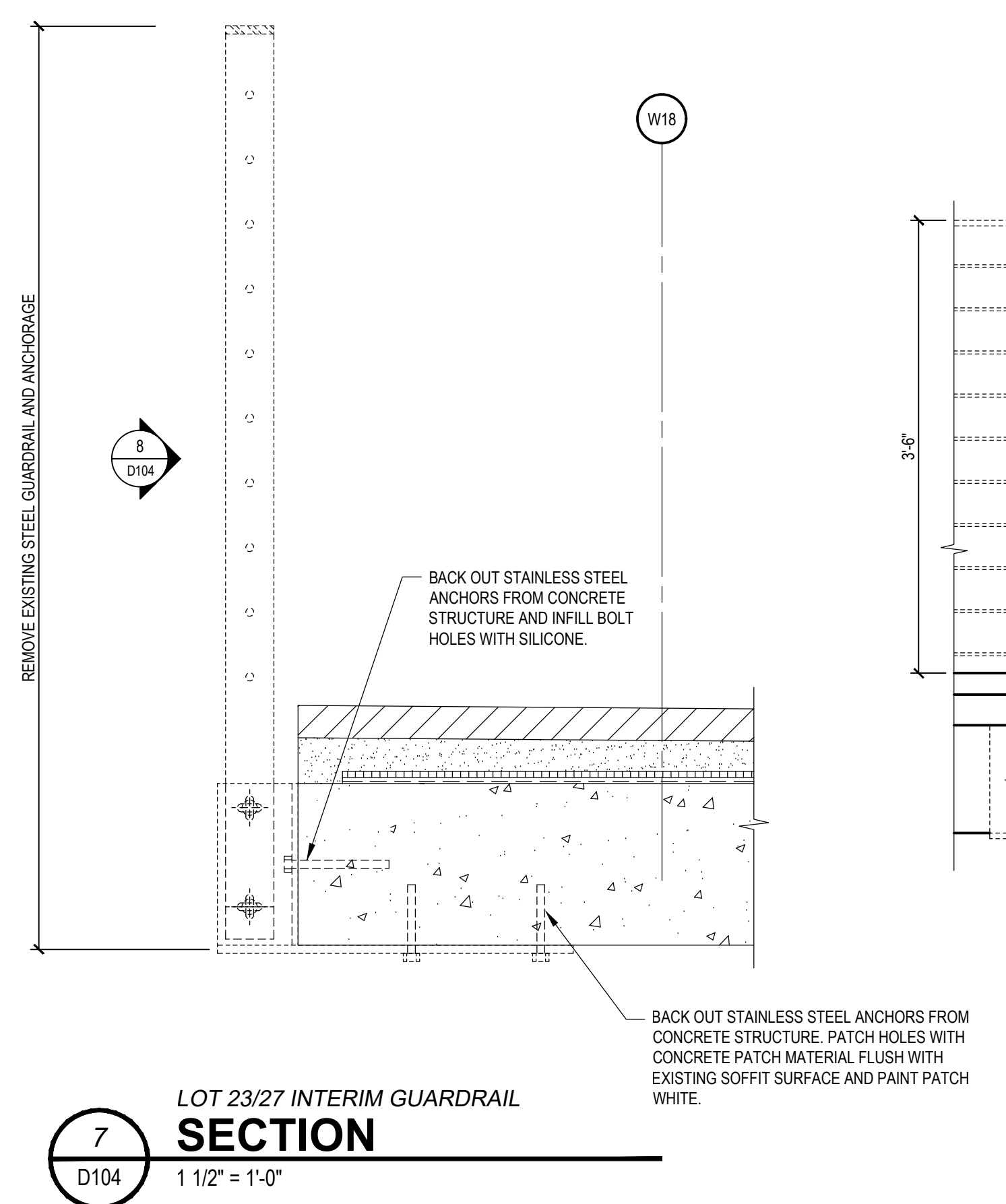
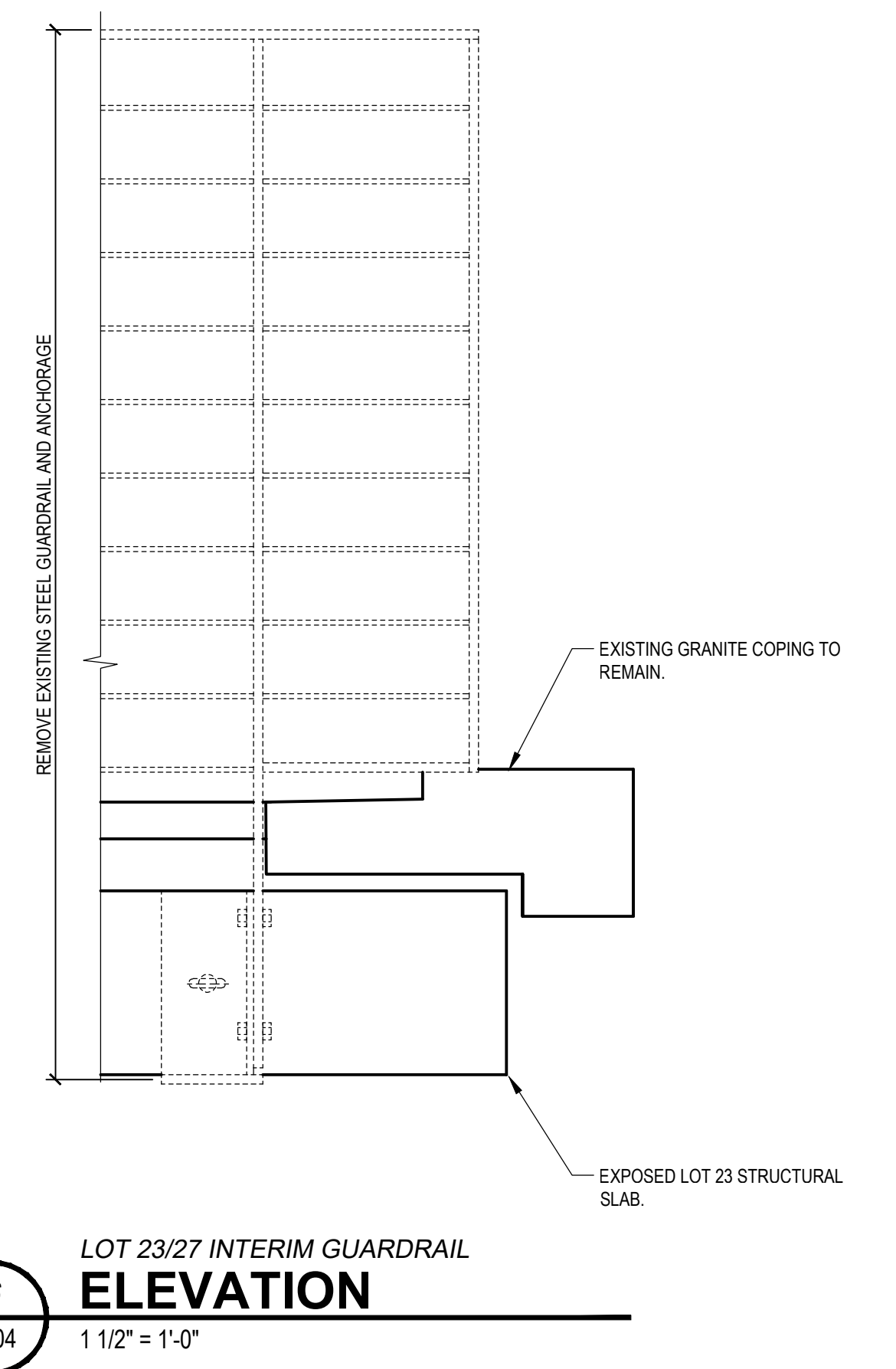
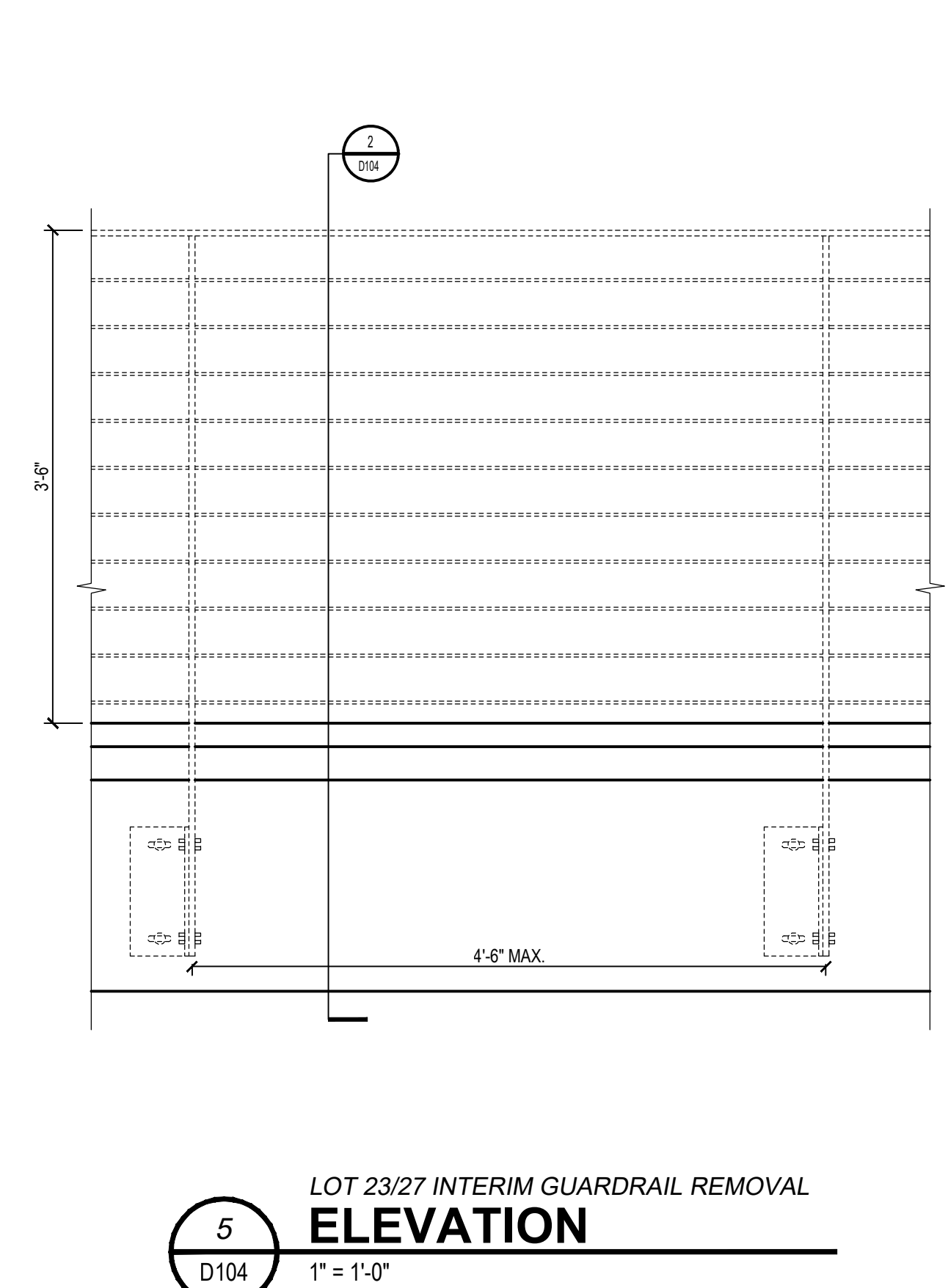
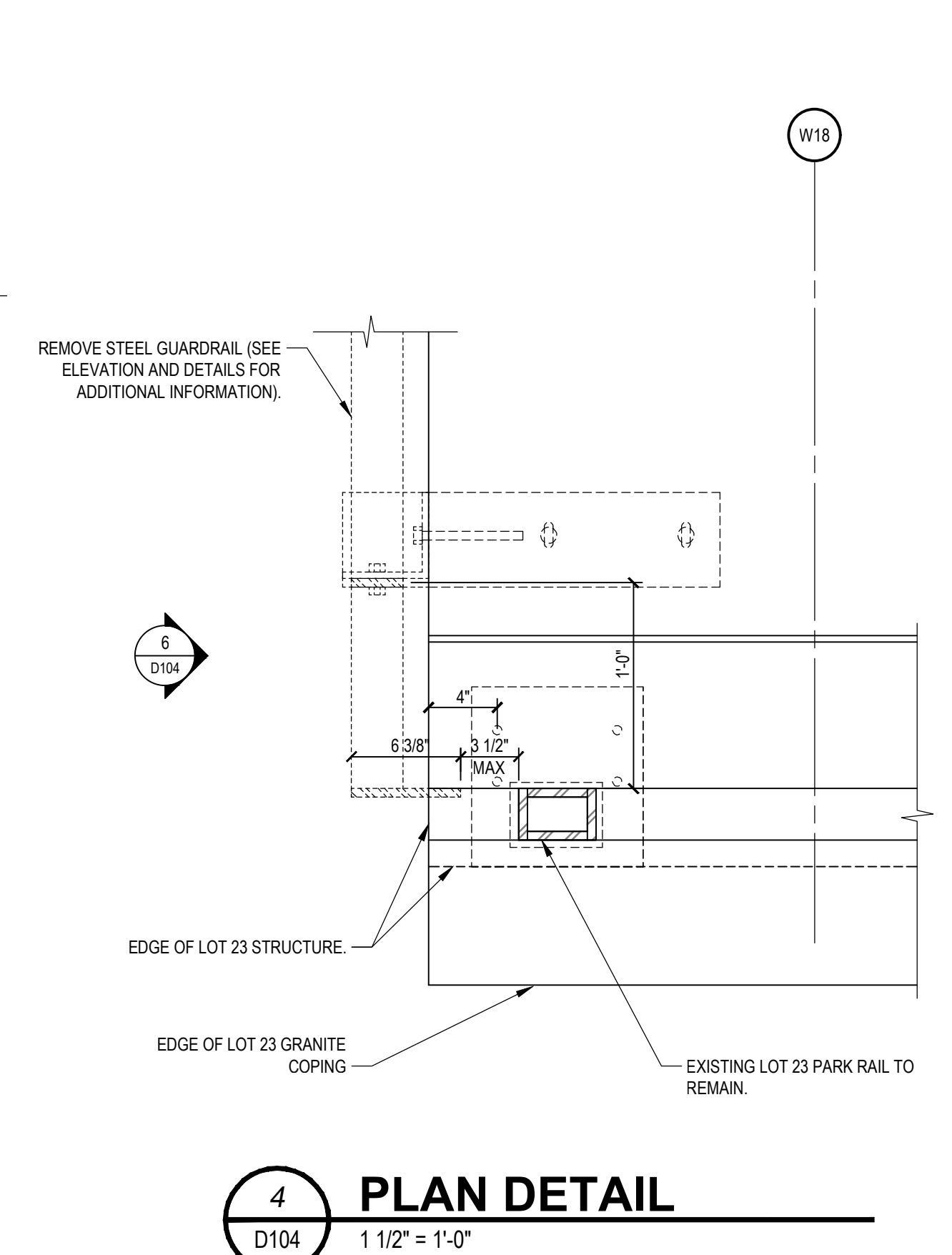
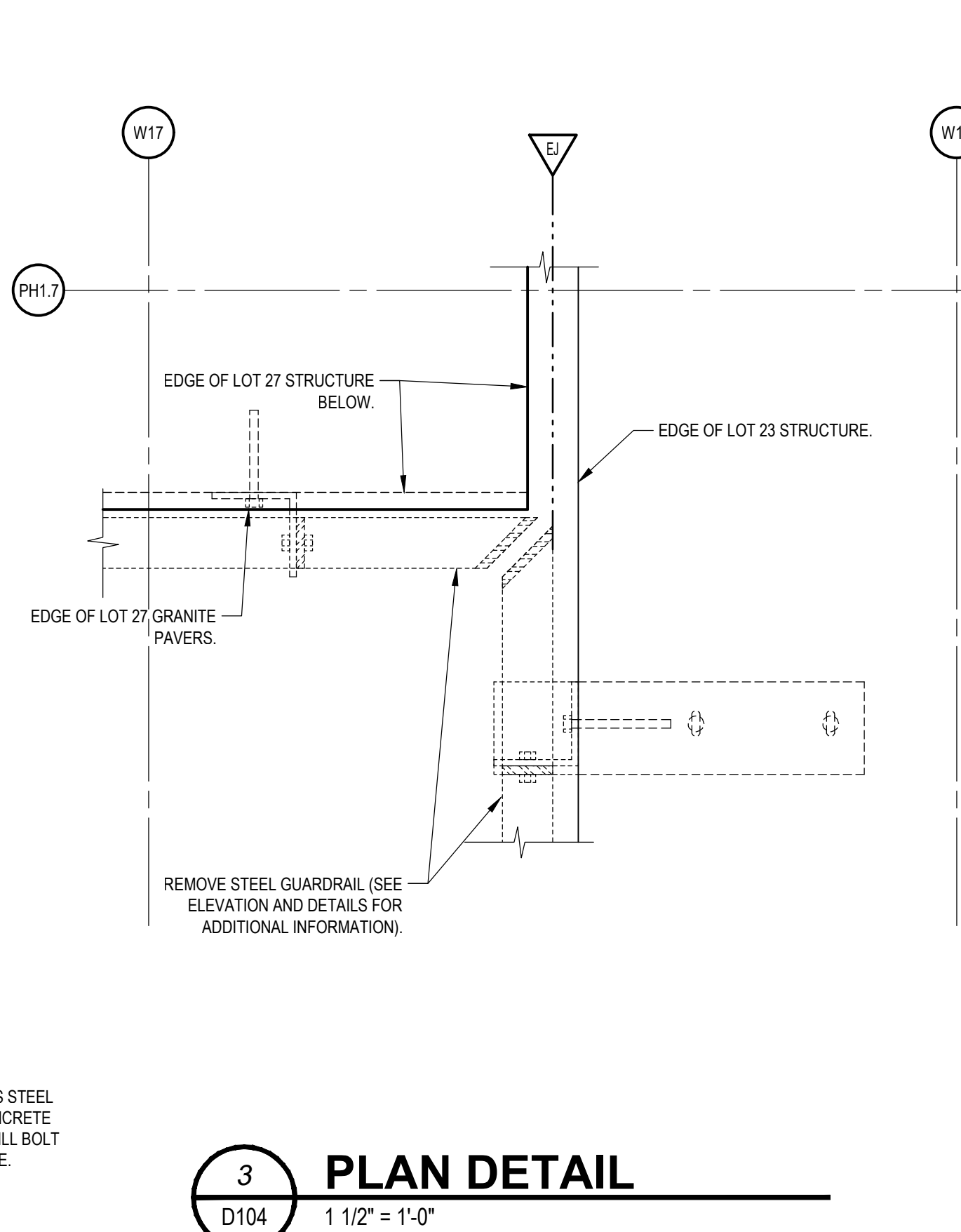
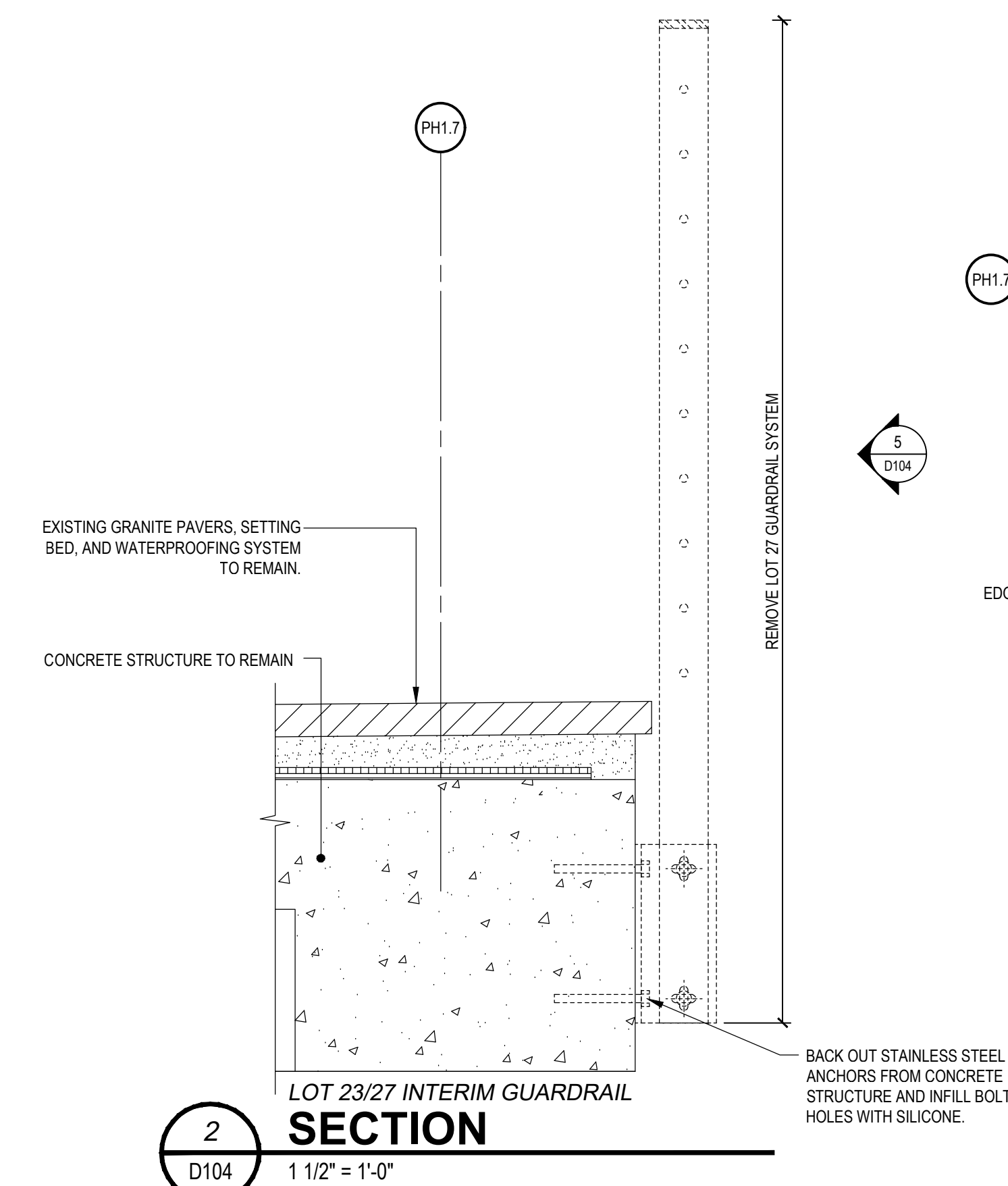


HAMILTON COUNTY  
RIVERFRONT PARKING  
AND INFRASTRUCTURE  
IMPROVEMENTS



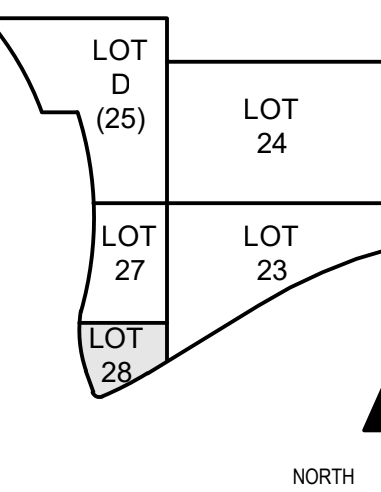
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Cincinnati, Ohio 45202  
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NOT FOR  
CONSTRUCTION



ISSUES

1	11/05/2021	SPH - GARAGE FOUNDATIONS & SITE PREPARATION
---	------------	---



DRAWN BY: P.A.B.  
ARCHITECT/ENGINEER: M.S.M.  
CHECKED BY: M.S.M.



LOT 28 GARAGE AND PARK

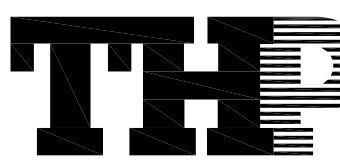
DRAWING TITLE: DEMOLITION ELM STREET SITE STAIRS DETAILS

JOB NUMBER: 98090.40 DATE: 11/05/2021  
DRAWING NUMBER:

D104



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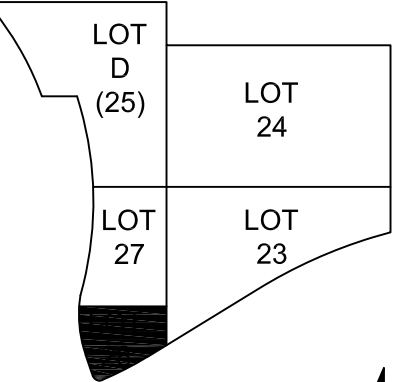
**GENERAL NOTES:**

- A. CONTRACTOR SHALL VISIT THE SITE AND SHALL REVIEW REFERENCE DRAWINGS (ON FILE AT CONSTRUCTION MANAGER'S OFFICE) TO BECOME THOROUGHLY FAMILIAR WITH CURRENT AND PAST CONDITIONS.
- B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING ANY WORK. REPORT ANY SIGNIFICANT DISCREPANCIES TO CONSTRUCTION MANAGER AND ARCHITECT.
- C. FOR EXISTING STORM INVERTS SEE TOPOGRAPHIC SURVEY SHEETS

**DRAWING NOTES:**

- 1. EXISTING STORM SEWER FROM PBS.
- 2. EXISTING STORM SEWER FROM PBS TO BE ABANDONED.
- 3. RECONSTRUCT MANHOLE TO GRADE PER ODOT CONSTRUCTION AND MATERIALS SPECIFICATION (2019) 611.10
- 4. EXISTING STORM SEWER
- 5. RECONSTRUCT EXISTING CATCH BASIN TO GRADE. PROP GRATE ELEVATION = 488.75. PROPOSED GRATE AND FRAME SHALL BE NEEHAH R-1078-A7L (SOLID LID) OR APPROVED EQUAL. NEOPRENE GASKET SHALL BE PROVIDED IN LID OR FRAME AS NECESSARY TO PROVIDE A WATERTIGHT SEAL.

ISSUES	NO.	DESCRIPTION	DATE
	1	ISSUE	
	2	ISSUE	



DRAWN BY: SCS  
 ARCHITECT/ENGINEER: SCS  
 CHECKED BY: --



LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
LOWER LEVEL (489)  
SMU DRAINAGE PLAN

JOB NUMBER: 98090.40  
 DATE: 11/05/2021  
 DRAWING NUMBER:

SW101

# EXISTING LOT 27 GARAGE

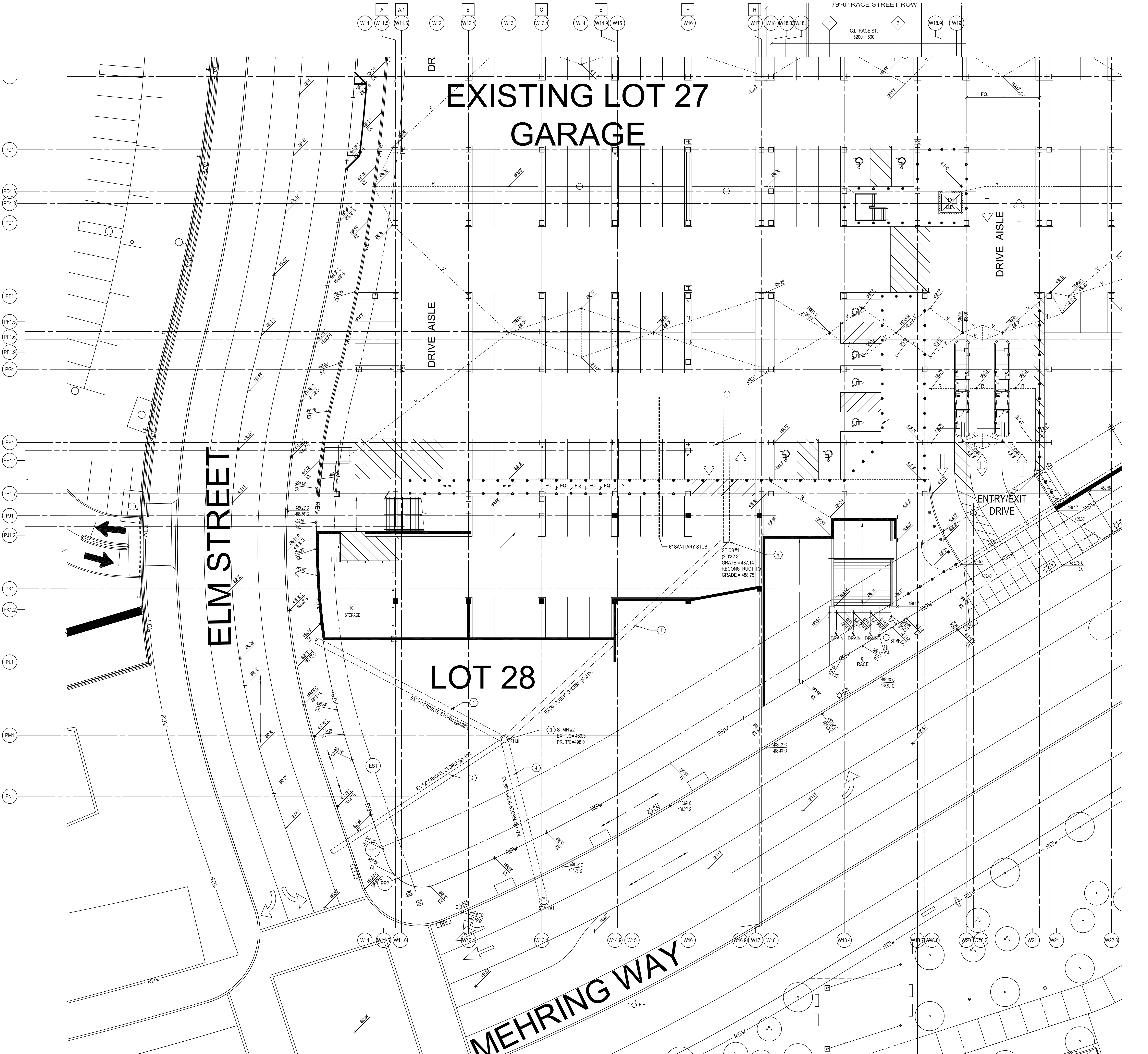
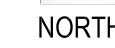
# LOT 28

## ELM STREET

## MEHRING WAY

### LOT 28 LOWER LEVEL PARKING PLAN (489)

1/8" = 1'-0"





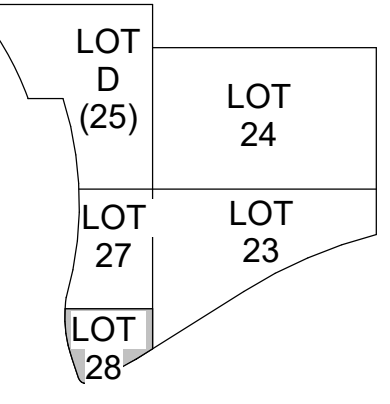
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ISSUES/REVISIONS - ISSUES/REVISIONS (CONTINUED)  
1. 11/05/2021 (BPH) - GARAGE FOUNDATIONS AND SITE PREPARATION



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



DRAWING TITLE  
GENERAL NOTES AND  
TYPICAL DETAILS

JOB NUMBER DATE  
98090.40 11/05/2021

DRAWING NUMBER  
**S001**

**GENERAL STRUCTURAL NOTES:**

**A. CODES AND SPECIFICATIONS**

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

**B. FOUNDATIONS**

- THE FOUNDATION DESIGN IS BASED UPON THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON, DATED MARCH 10, 2015 AND SEPTEMBER 10, 2021.
- FOUNDATION ELEVATIONS SHOWN ARE ESTIMATED AND ARE FOR BIDDING PURPOSES ONLY, AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS.
- FOUNDATIONS DESIGNED FOR 16" DIAMETER, AUGERED, CAST-IN-PLACE CONCRETE PILES WITH MINIMUM 125 TON CAPACITY.
- 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 DESIGN BEARING ELEVATION WITH LEAN CONCRETE.
- ALL BEARING SURFACES SHALL BE UNDISTURBED, LEVEL (WITHIN 1 IN 12), AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
- 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.
- SET COLUMN DOWELS WITH TEMPLATE PRIOR TO CONCRETING.

**C. CONCRETE**

- CONCRETE STRENGTHS:
  - 4500 PSI: FOOTINGS, PILE CAPS, AND GRADE BEAMS.
  - 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.
  - 5000 PSI (AE) COLUMNS AND SHEAR WALLS.
  - 1500 PSI: BACKFILL CONCRETE.
- PROVIDE 3/4" BEVELS AT CORNERS OF ALL COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
- LENGTH OF SLAB POUR BETWEEN CONSTRUCTION JOINTS SHALL NOT EXCEED 120 FEET. MAXIMUM AREA OF SLAB POURS NOT TO EXCEED 14,000 SF.
- JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY STRUCTURAL ENGINEER. LOCATIONS OF ALL CONSTRUCTION JOINTS TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL.
- PERMANENT LOADS, SUCH AS MASONRY WALLS, SHALL NOT BE PLACED ON SUPPORTED SLABS UNTIL CONCRETE HAS REACHED SPECIFIED STRENGTH AND ALL SHORING HAS BEEN REMOVED.
- 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.
- PROVIDE CLASS "B" TENSION SPLICES UNLESS OTHERWISE NOTED.
- 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.
- 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.
- 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**

- 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. COORDINATION**

- 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.
- UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES ON THE STRUCTURAL DRAWINGS ARE INTENDED TO APPLY TO SIMILAR SITUATIONS ELSEWHERE.
- ALL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
- ALL FRAMING MEMBERS PROVIDED FOR MECHANICAL TRADES, EQUIPMENT SUPPORT, ELEVATOR SUPPORT BEAMS, LINTELS, ROOF OPENINGS, ETC., ARE FOR BIDDING PURPOSES ONLY. SUBMIT MANUFACTURERS DATA FOR THE ACTUAL PROPOSED EQUIPMENT TO STRUCTURAL ENGINEER FOR VERIFICATION OR REDESIGN OF SUPPORTS PRIOR TO PREPARING SHOP DRAWINGS.
- 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.

- SHOP DRAWINGS AND INSTALLATION DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR 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.
  - FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT FABRICATION AND SHOW ON SHOP DRAWINGS.
  - AND SHOW EXACT SIZE AND LOCATION OF ALL FLOOR, WALL AND ROOF OPENINGS, SLAB EDGES, EMBEDDED ANCHORS AND OTHER ITEMS.
  - 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.
  - COMPLETE SHOP DRAWINGS WITH MANUFACTURERS DATA, ETC. SHOW ALL CONNECTIONS AND DETAILS NECESSARY TO FULLY DESCRIBE AND PROPERLY INSTALL THE WORK.
  - ENGINEER'S REVIEW SHALL BE FOR GENERAL ARRANGEMENT AND CONFORMANCE WITH THE STRUCTURAL INTENT ONLY.
- THE SPECIFICATIONS AND STRUCTURAL DRAWINGS TYPICALLY REFER TO THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT PRESCRIBE THE METHOD OF CONSTRUCTION.
- BRACE ENTIRE STRUCTURE AND PORTIONS THEREOF AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWEEN BASEMENT SLABS AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE IN PLACE.
- BRACE WALLS WHICH ARE TIED TO SLAB ON GRADE FOR TOP LATERAL SUPPORT BEFORE BACKFILLING AND UNTIL SLAB ON GRADE HAS ATTAINED SPECIFIED STRENGTH.
  - 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 ENGINEER.
  - WHERE BEAMS OF VARIOUS DEPTHS FRAME INTO A COLUMN, PROVIDE A CONSTRUCTION JOINT AT THE BOTTOM OF THE LOWEST BEAM.
  - ALL CONDUITS IN GARAGE ARE TO BE SURFACE MOUNTED.
- 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.
- THE ARCHITECT'S AND ENGINEER'S OBSERVATION AND REVIEW OF CONTRACTORS' PERFORMANCE DOES NOT INCLUDE REVIEW OF ADEQUACY OF CONTRACTORS' SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

**G. CONSTRUCTION**

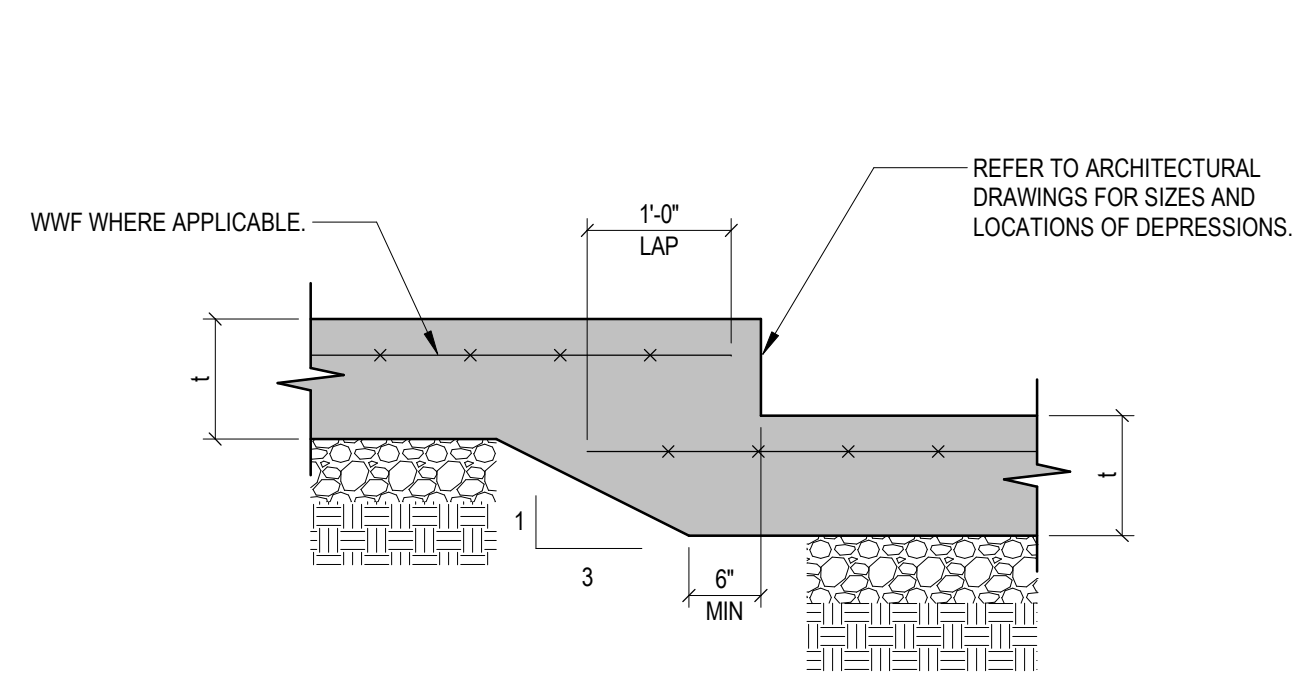
- BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- DO NOT BACKFILL FOUNDATION WALLS SPANNING BETWEEN BASEMENT SLABS AND STRUCTURAL FLOORS UNTIL SUPPORTING SLABS ARE IN PLACE.
- BRACE WALLS WHICH ARE TIED TO SLAB ON GRADE FOR TOP LATERAL SUPPORT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

**H. DESIGN LOADS**

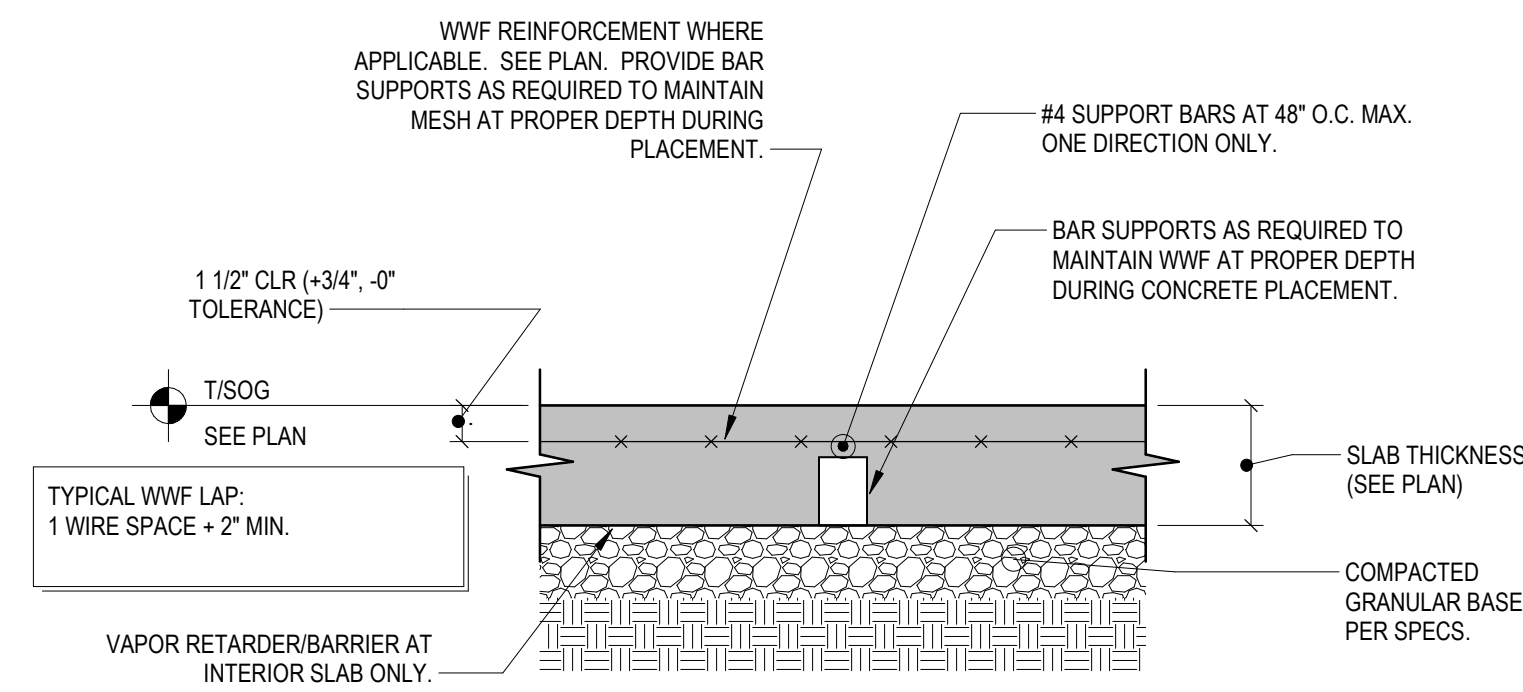
- LIVE LOAD  
PODIUM LEVEL: 100 PSF.
- SUPERIMPOSED DEAD LOADS  
CEILING AND MECHANICAL ALLOWANCE: 5 PSF  
SUPERIMPOSED DEAD LOAD: 180 PSF TYPICAL  
480 PSF AT PLANTER PIT
- SNOW LOAD  
GROUND SNOW LOAD:  $P_f = 20$  PSF  
FLAT ROOF SNOW LOAD:  $P_f = 20$  PSF  
SNOW EXPOSURE FACTOR:  $C_e = 1.0$   
SNOW LOAD IMPORTANCE FACTOR:  $I_s = 1.10$   
THERMAL FACTOR:  $C_t = 1.2$
- WIND LOAD  
BASIC WIND SPEED (3 SECOND GUST):  $V_{ult} = 120$  MPH;  $V_{std} = 93$  MPH  
RISK CATEGORY: II  
WIND EXPOSURE: C  
INTERNAL PRESSURE COEFFICIENT: ENCLOSED BUILDING,  $GCFI = \pm .18$
- EARTHQUAKE DESIGN DATA  
RISK CATEGORY: II  
SEISMIC IMPORTANCE FACTOR:  $I_e = 1.0$   
MAPPED SPECTRAL RESPONSE ACCELERATION:  $S_M = 0.145$   
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:  $C_R = 0.0516$   
DESIGN BASE SHEAR: 186 KIPS  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PER ASCE 7.
- FLOOD DESIGN DATA  
ZONE AE PER FLOOD INSURANCE RATE MAP (FIRM) NUMBER 39061C0307D  
DESIGN FLOOD ELEVATION: 499.2' (DFE)  
ELEVATION OF LOWEST FLOOR: 507'  
FOR FULLY ENCLOSED AREA BELOW DFE, ENGINEERED OPENING IS DESIGNED TO PROVIDE EQUALIZATION OF HYDROSTATIC FLOOD FORCES PER ASCE 24, SECTION 2.6.2.2.

**I. QUALITY ASSURANCE**

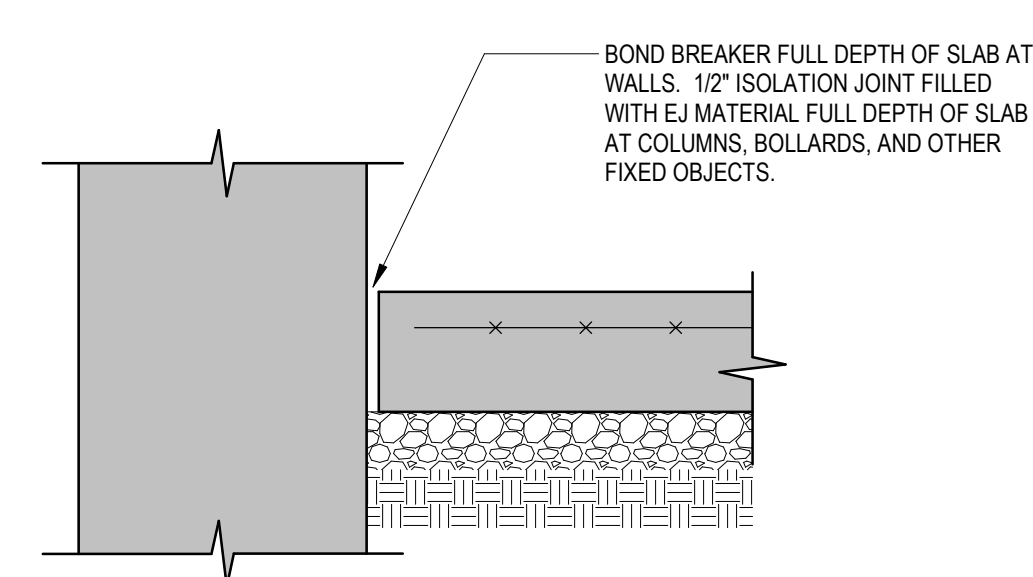
- THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH OBC CHAPTER 17 AS A MINIMUM. THE ITEMS REQUIRING SPECIAL INSPECTION ON THIS PROJECT INCLUDE THE FOLLOWING:
  - AUGER CAST PILING: ALL PILING WORK. SEE SPEC SECTION 316310.
  - CONCRETE: ALL CONCRETE WORK. SEE SPEC SECTION 033000.
  - REINFORCING: ALL REINFORCING WORK. SEE SPEC SECTION 033000.
- 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 DOCUMENTS.
- THE STRUCTURAL ENGINEER WILL GENERALLY REVIEW THE PROGRESS OF THE WORK, BUT HIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION.



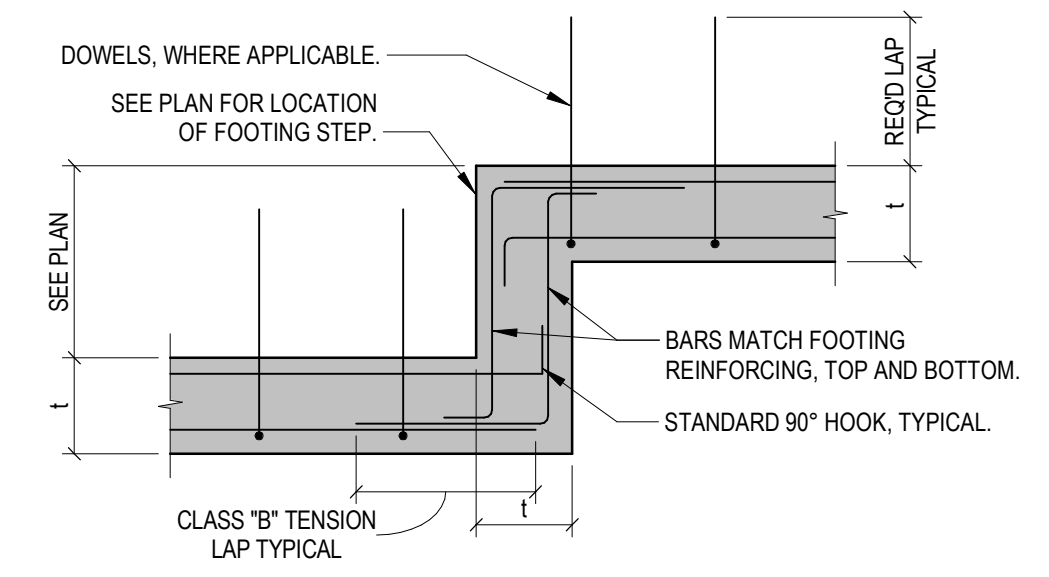
**S.O.G. DEPRESSION**



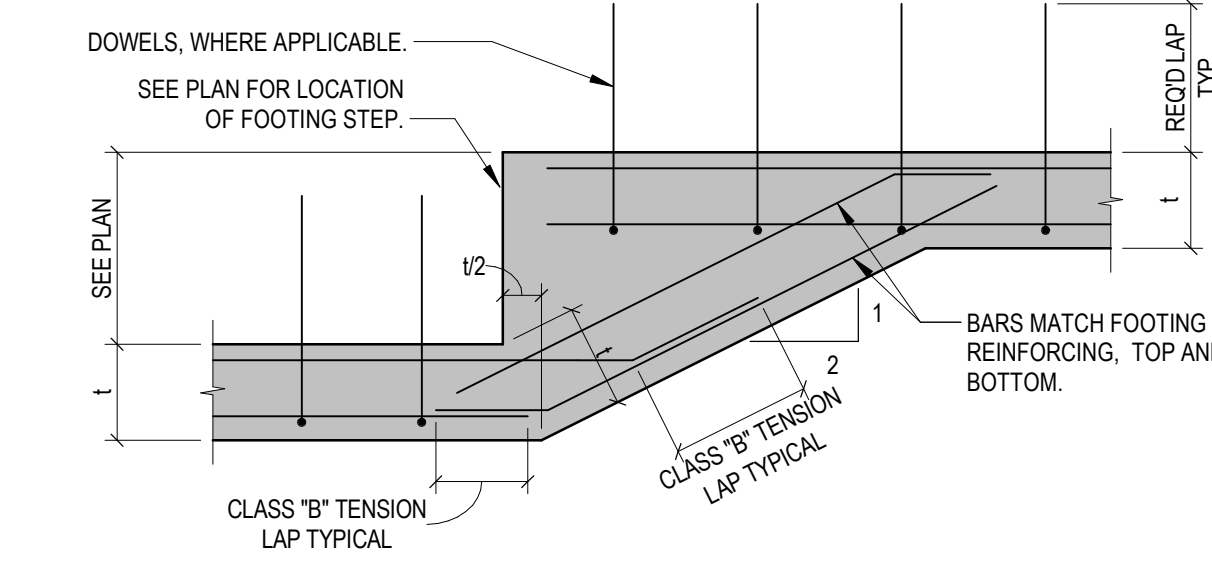
**TYPICAL S.O.G.**



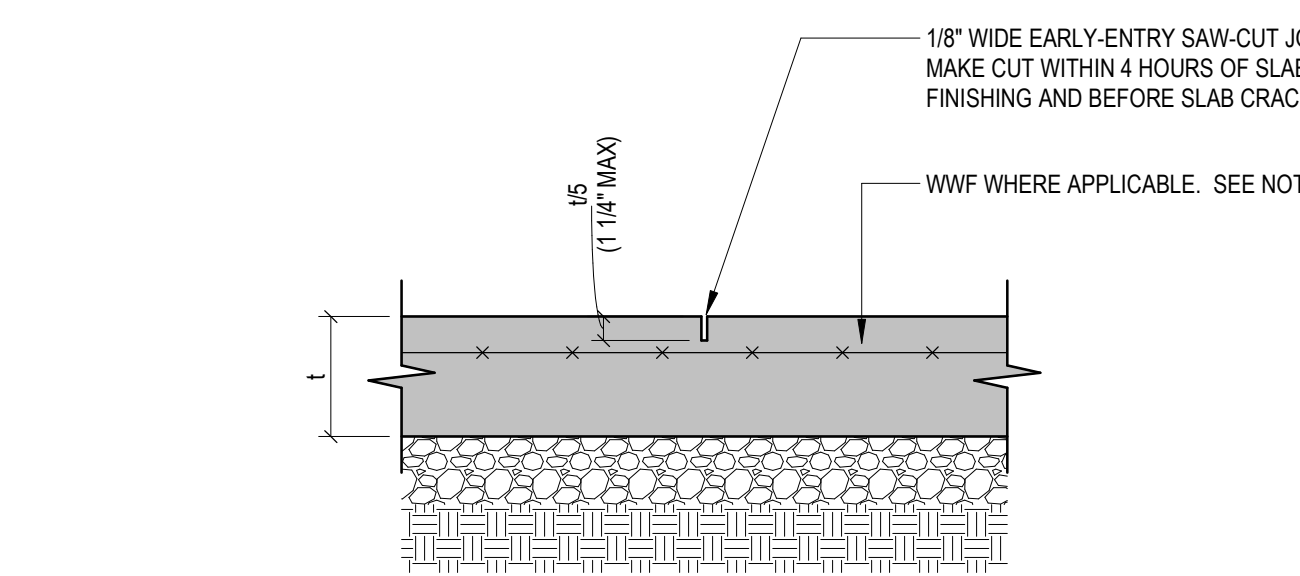
**ISOLATION JOINT AT WALLS AND COLUMNS**



**TYPICAL FOOTING STEP IN ROCK (8 KSF OR GREATER BEARING MATERIAL)**

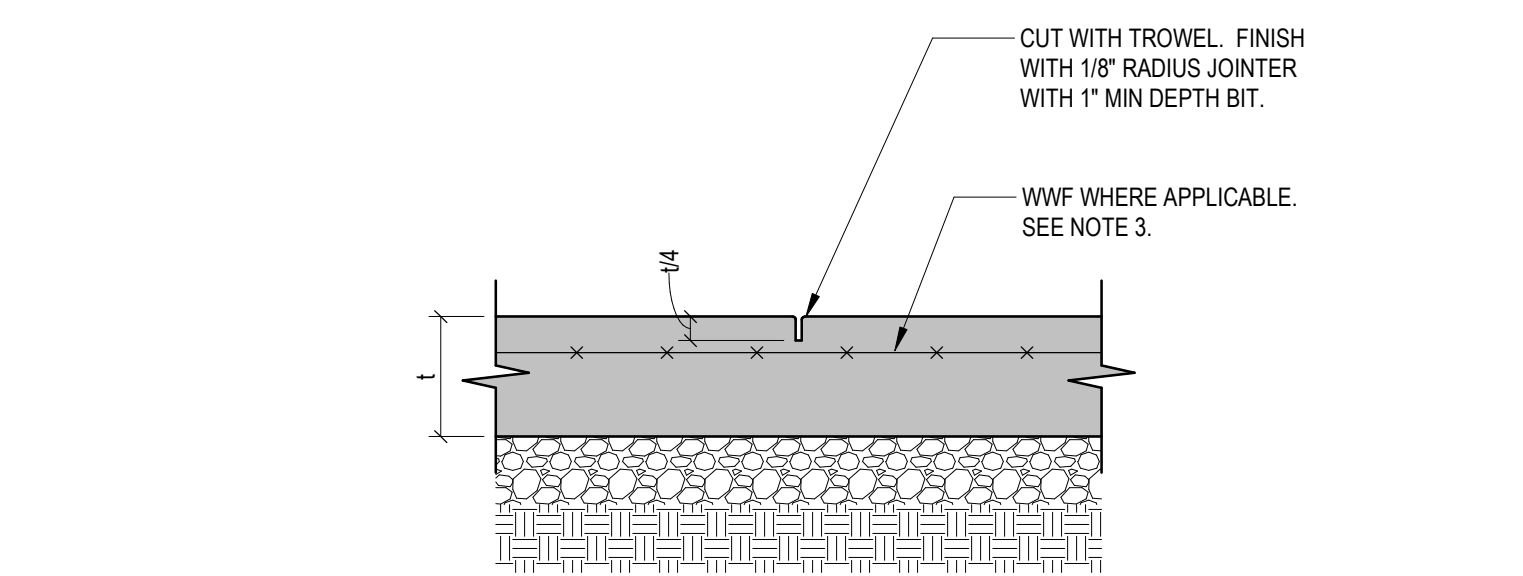


**TYPICAL FOOTING STEP IN CLAY OR FILL**  
**TYPICAL FOOTING STEPS**



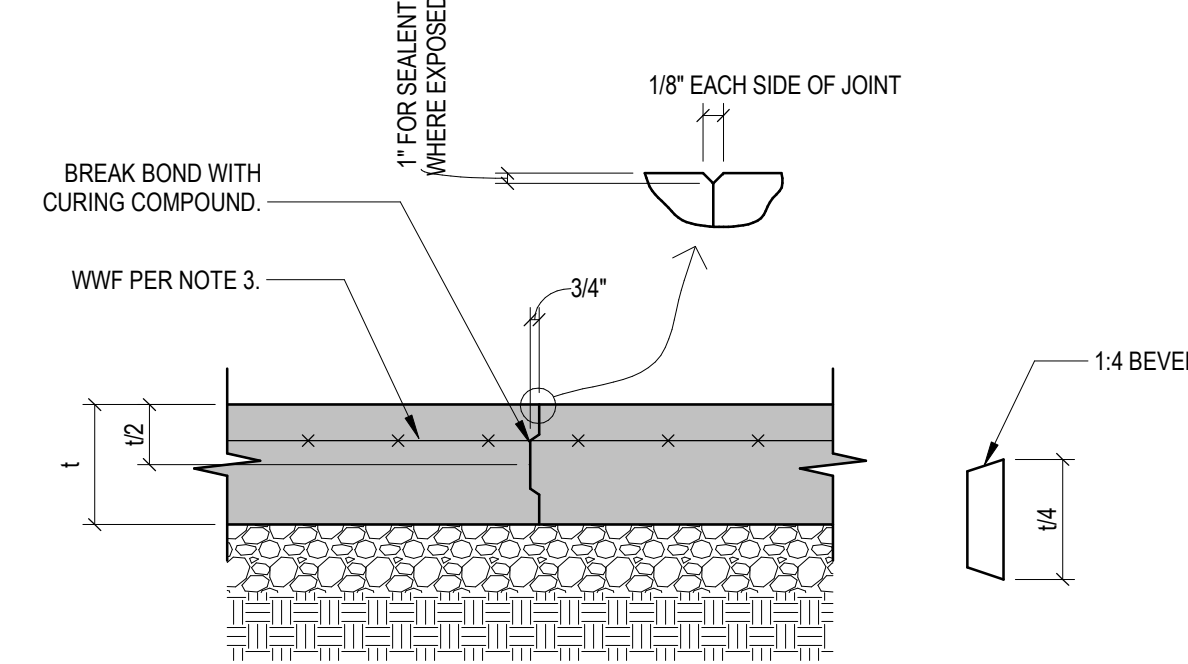
**SAWED CONTROL JOINT**

(APPLIES TO INTERIOR SLABS UNLESS NOTED OTHERWISE)



**TOOLED CONTROL JOINT**

(APPLIES TO EXTERIOR SLABS UNLESS NOTED OTHERWISE. ALTERNATIVELY USE SAW-CUT JOINT WITH PRIOR APPROVAL)

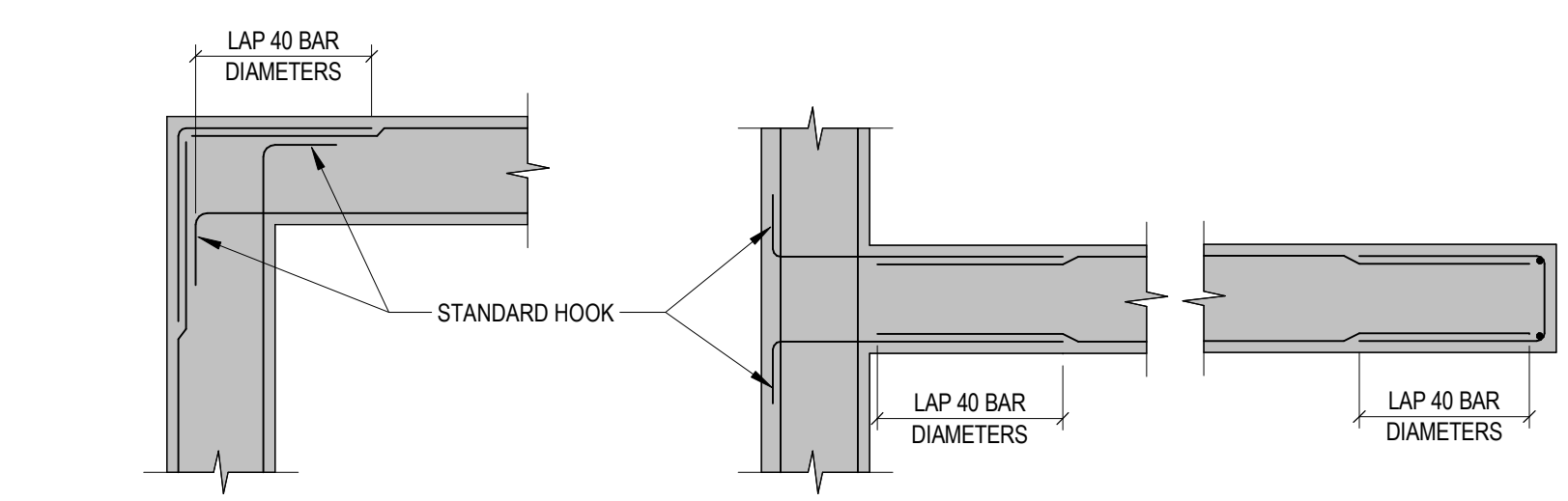


**KEYED CONSTRUCTION JOINT**

(APPLIES TO SLABS REINFORCED WITH WWF)

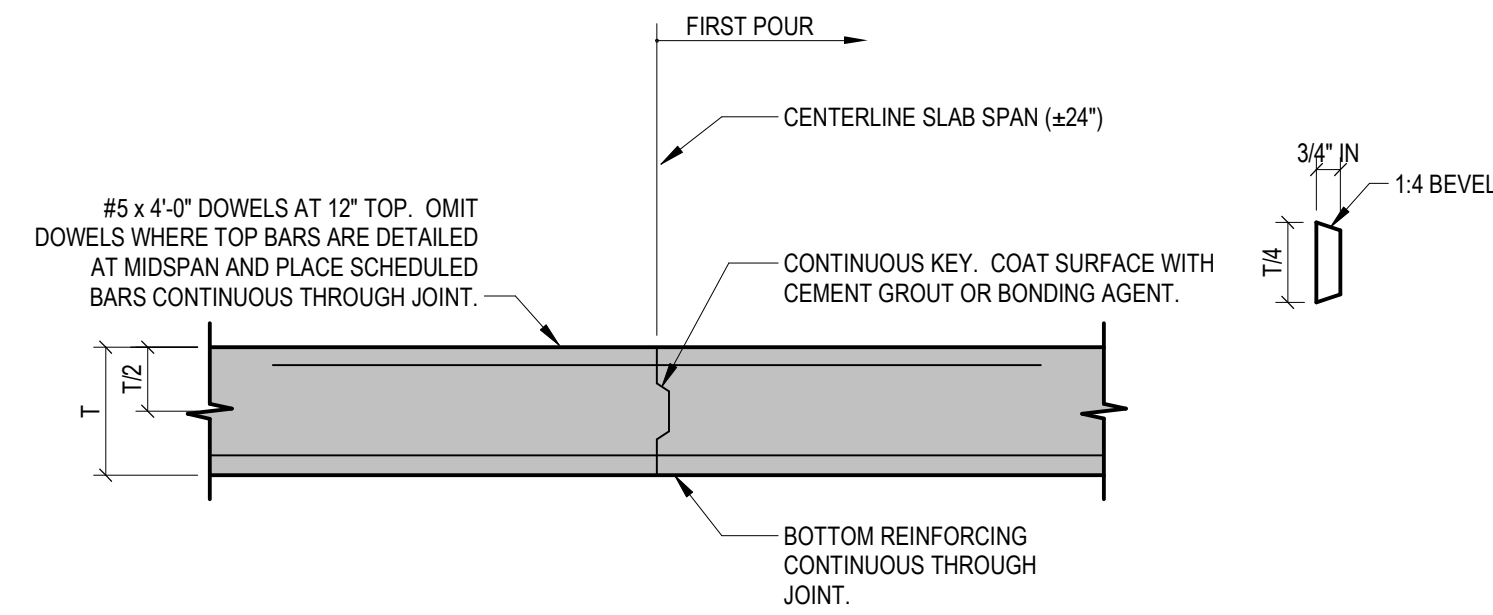
- NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR JOINTS AT EXTERIOR PAVEMENTS.
  - PROVIDE CONTROL (OR CONSTRUCTION) JOINTS AT ALL COLUMN LINES. ADDITIONALLY PROVIDE CONTROL JOINTS AT MAXIMUM SPACING OF 15'-0" EACH WAY UNLESS OTHERWISE NOTED. ALIGN CONTROL JOINTS WITH RE-ENTRANT CORNERS WHEREVER POSSIBLE. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO ARCHITECT FOR REVIEW.
  - CUT OUT 4" LENGTH OF EVERY OTHER WIRE AT ALL LOCATIONS WHERE WWF CROSSES CONTROL JOINTS AND KEYED CONSTRUCTION JOINTS.
  - WHERE APPLICABLE, CONTROL AND CONSTRUCTION JOINTS SHALL BE ALIGNED WITH TILE JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
  - REFER TO SPECIFICATIONS FOR GRANULAR BASE AND VAPOR RETARDER/BARRIER REQUIREMENTS.

**SLAB ON GRADE DETAILS**

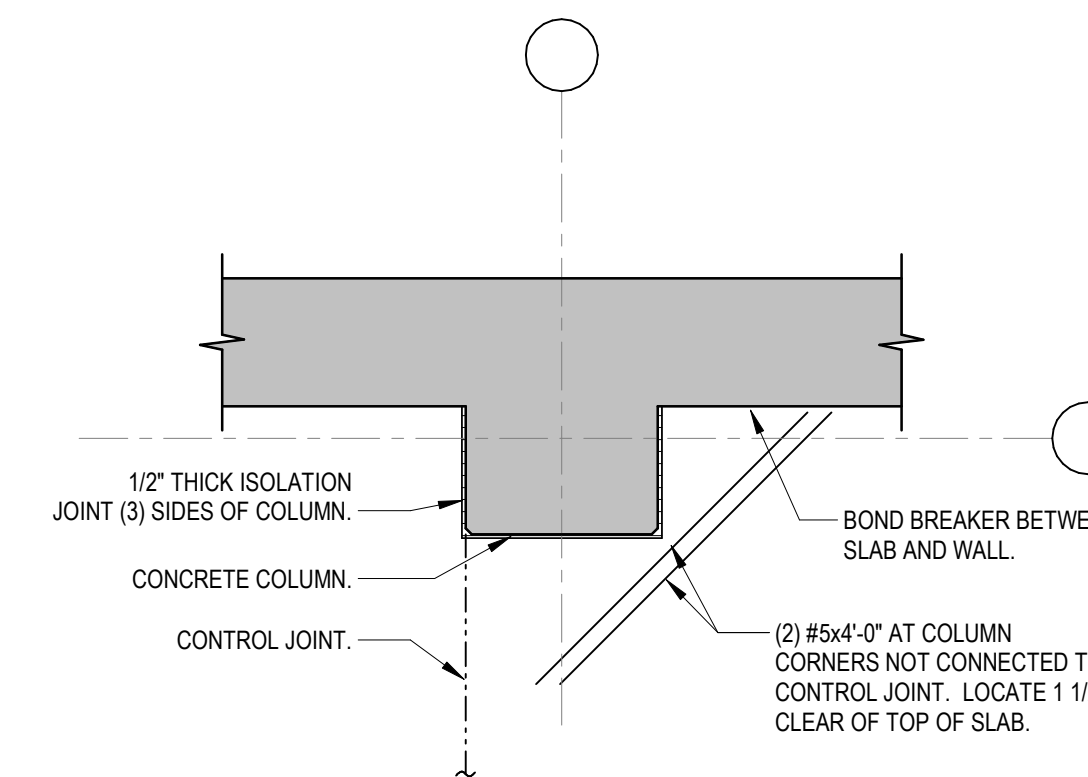


**TYPICAL BARS AT WALL AND FOOTING CORNERS AND INTERSECTIONS**

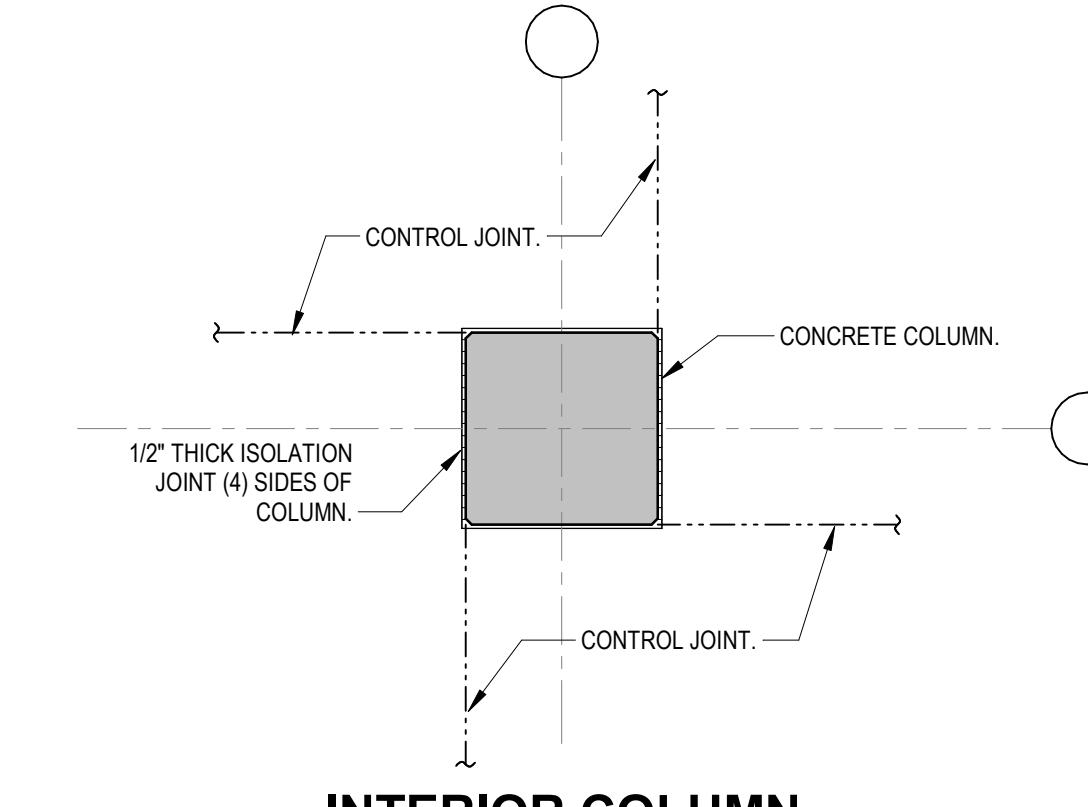
- NOTES:**
- CORNER, HOOK, AND U-BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.
  - FOR SINGLE LAYER WALLS USE SINGLE BARS AS SHOWN.



**SLAB CONSTRUCTION JOINT**

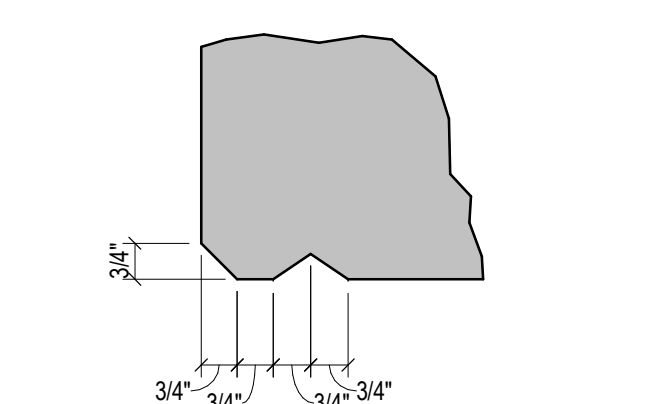


**PERIMETER COLUMN**



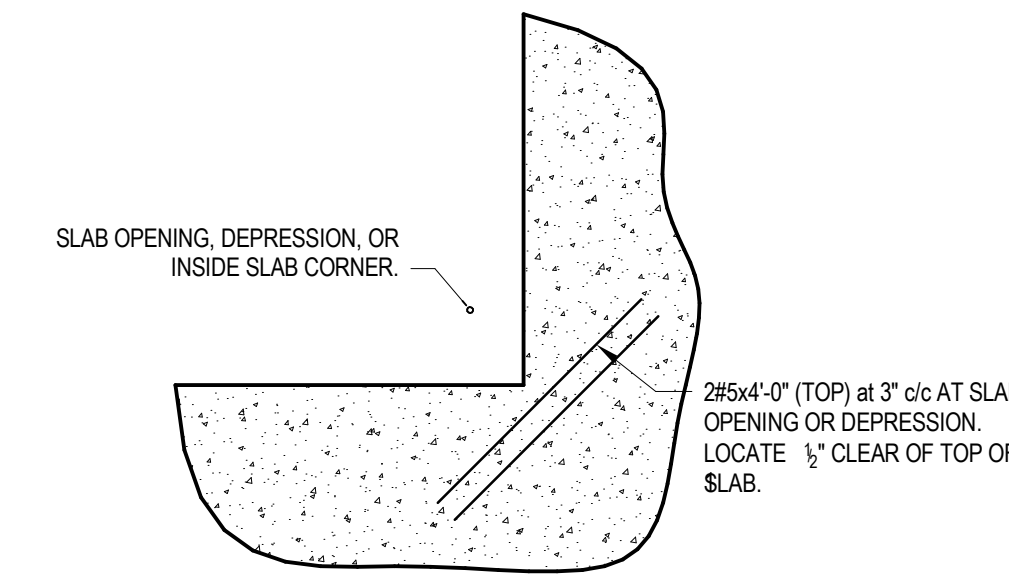
**INTERIOR COLUMN**

**SLAB ON GRADE CONTROL JOINTS AT COLUMNS**



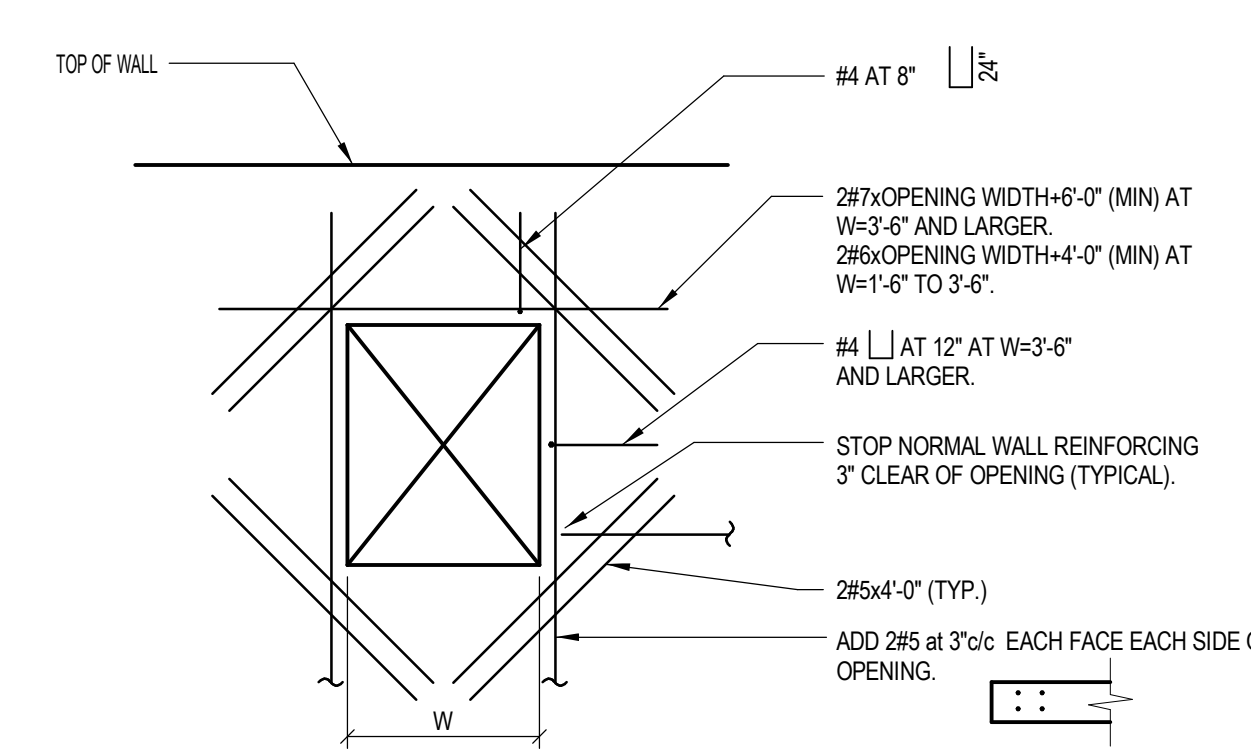
- NOTE:**
- CHAMFER IS REQUIRED AT ALL FORMED CORNERS OF EXPOSED CONCRETE.
  - DRIP IS REQUIRED AT BOTTOM EDGES OF ALL SLABS AND BEAMS WHERE VERTICAL SURFACE IS EXPOSED TO RAIN AND AT OTHER LOCATIONS AS NOTED.

**TYPICAL CHAMFER AND DRIP EDGE**



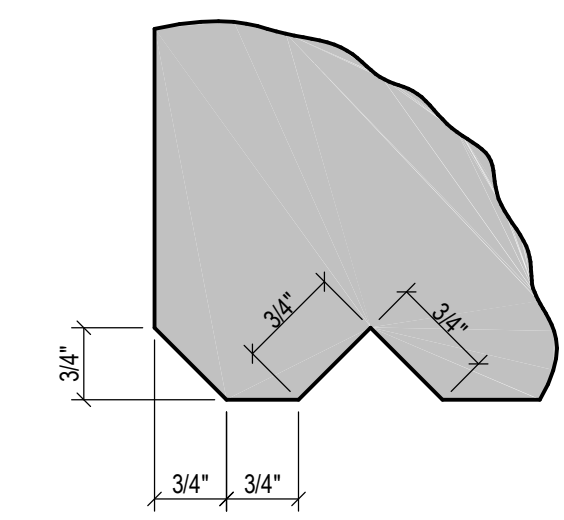
**TYPICAL BARS AT SLAB CORNER**

NOTE: DETAIL APPLIES AT BOTH ELEVATED SLABS AND SLABS ON GRADE U.N.O.



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

**WALL OPENING REINFORCEMENT**



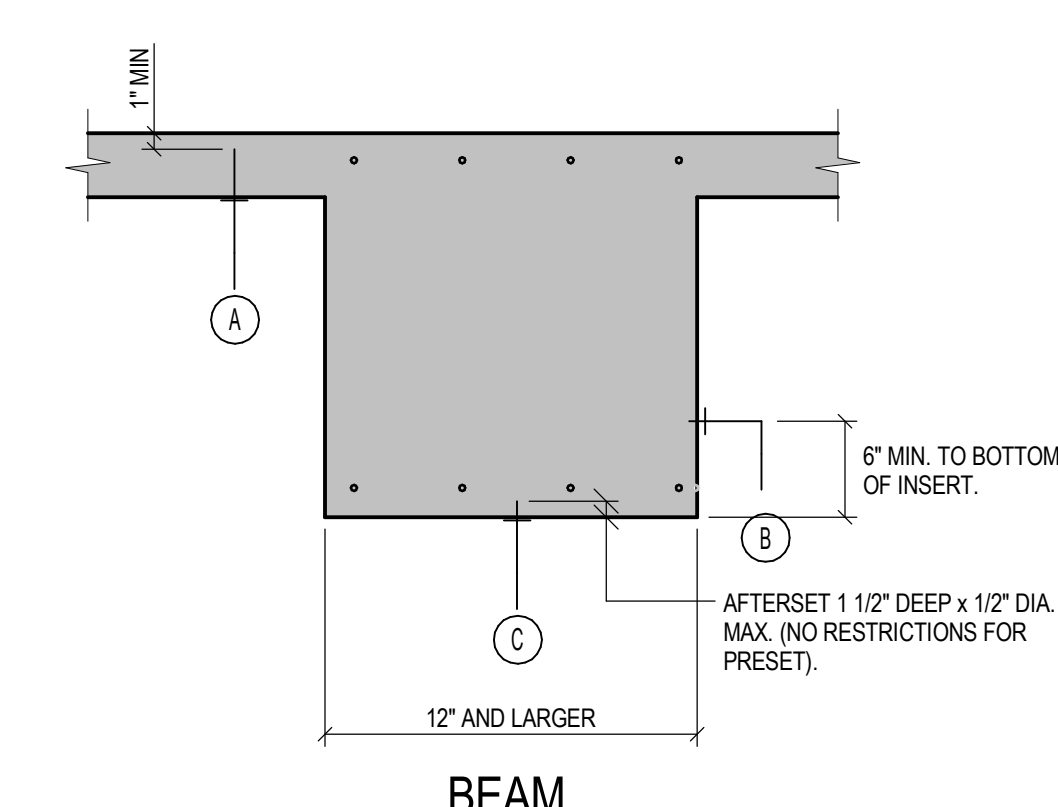
REQUIRED AT BOTTOM EDGES OF ALL EXPOSED SOFFITS AND BEAMS IN PARKING GARAGE AND AS NOTED.

**TYPICAL CHAMFER AND DRIP EDGE**

LINTEL SCHEDULE	
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

- LINTEL SCHEDULE NOTES:**
- LINTELS FOR 8" CMU ARE 8" CMU BOND BEAM WITH REINFORCEMENT AS SHOWN.
  - 2#5/DIAGONAL LINTEL IS CLEAR SPAN PLUS 6" BEARING AT EACH END.

**TYPICAL LINTEL SUPPORT**

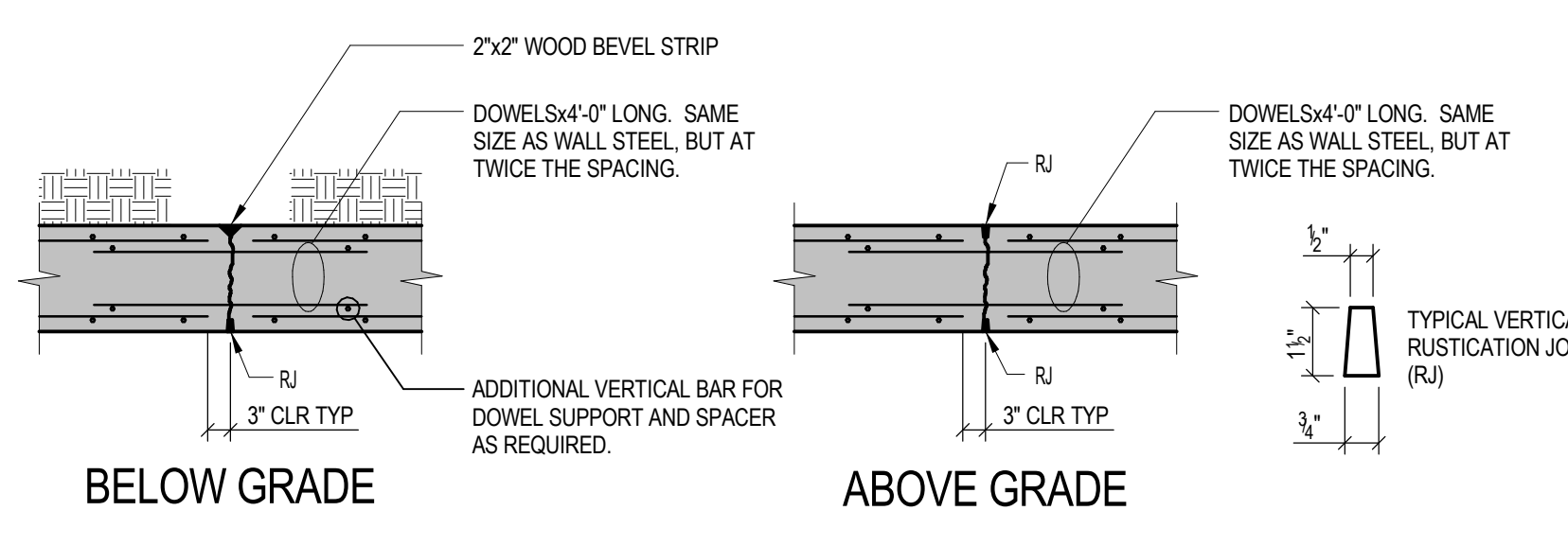


**BEAM**

MAXIMUM ALLOWABLE LOADING WITHOUT SPECIAL APPROVAL		
MARK	PRESET INSERTS - EMBEDDED (MAXIMUM LOAD)	AFTERSSET INSERTS - DRILLED OR SHOT (MAXIMUM LOAD)
(A)	300 POUNDS	200 POUNDS
(B)	2000 POUNDS	200 POUNDS
(C)	1500 POUNDS	150 POUNDS

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

**TYPICAL HANGING LOADS**



**BELOW GRADE**

**ABOVE GRADE**

- NOTES:**
- FORM TIES TO BE WITHIN 8" OF ANY JOINT.
  - UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN PERIMETER FOUNDATION WALLS AT MAXIMUM 30'-0" O.C.
  - REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING REQUIREMENTS.
  - DETAIL CONTROL JOINTS ON SHOP DRAWINGS. 5. LOCATE CONSTRUCTION JOINTS AT CONTROL JOINTS.

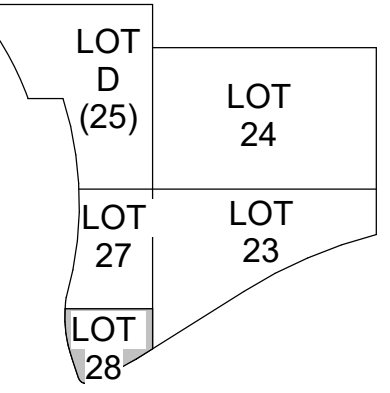
**TYPICAL VERTICAL WALL CONTROL JOINTS**



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ISSUES/REVISIONS - ISSUES/REVISIONS (CONTINUED)  
1. 11/05/2021 (BPH) - GARAGE FOUNDATIONS AND SITE PREPARATION



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PROJECT MANAGER  
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Checker



DRAWING TITLE  
FOUNDATION PLAN

JOB NUMBER DATE  
98090.40 11/05/2021  
DRAWING NUMBER

S101

**DRAWING NOTES**

- REFER TO S300 SERIES FOR GENERAL NOTES AND TYPICAL DETAILS.
- REFER TO DRAWINGS S200 SERIES FOR FOUNDATION AND FRAMING DETAILS.
- REFER TO DRAWINGS S301 FOR COLUMN AND PILE CAP DETAILS.
- TOP OF SLAB VARIES FOR DRAINAGE. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS.

**PLAN NOTES**

- EXISTING UNDERGROUND UTILITY LINES TO REMAIN. FIELD LOCATE. DO NOT DAMAGE.
- TYPICAL SLAB ON GRADE CONTROL JOINT PATTERN.
- EXISTING PARK WALL.
- PROVIDE TEMPORARY RETENTION SYSTEM AS REQUIRED TO AVOID UNDERMINING EXISTING SIDEWALK ALONG MEHRING WAY AND ELM STREET.
- 1" THICK SHEAR WALL REINFORCED WITH #4 AT 12" EACH FACE. EACH WAY. PROVIDE MATCHING DOWELS AT BOTTOM. HOOK WALL HORIZONTALS INTO COLUMN. AT END WITHOUT COLUMN PROVIDE ADDITIONAL REINFORCEMENT PER PLAN DETAIL S3201.
- BATTERED REINFORCED CONCRETE WALL. HEIGHT VARIES.
- ROUGHEN THE CONTACT SURFACE. DRILL AND EPOXY #8x5'-0" DOWELS 1" INTO EXISTING PILE CAP. PLACE DOWELS IN TWO ROWS, WITH 1'-0" SPACING EACH WAY CENTERED AT GRADE BEAM.
- PROTECT EXISTING SLAB ON GRADE TO INSTALL PILE CAP. PROVIDE TEMPORARY RETENTION SYSTEM TO AVOID UNDERMINING EXISTING WALL AND COLUMNS/PILE CAP.

**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
- SEE DRAWINGS S301 FOR PILE AND PILE CAP REINFORCING. ALL PILES REINFORCED WITH (#9) CENTER BAR UNLESS MODIFIED BELOW. LETTERS IN PARENTHESES FOLLOWING CAP MARK MODIFY CAP OR PILE REINFORCING:
  - (A) ADD #47 (LENGTH = CAP THICKNESS + 20") AND (20) #3 TIES AT 6" AT TOP, BALANCE AT 12" PROVIDE CENTRALIZERS AT TOP AND BOTTOM OF CAGE TO CENTER IN PILE.
  - (B) ADD #47 (LENGTH = CAP THICKNESS + 20") AND (20) #3 TIES 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.
- SLAB STEP
- FOOTING STEP
- WALL CONTROL JOINT
- T/F=XXX'-XX" INDICATES TOP OF FOOTING ELEVATION
- EXISTING DRILLED PIER

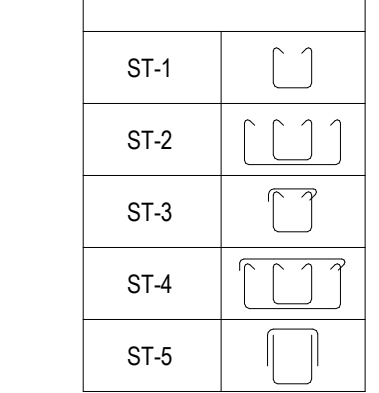
**LOT 28 GRADE BEAM SCHEDULE**

MARK	SIZE	REINFORCING	STIRRUPS
GB1	48"x48"		
GB2	45"x48"		
GB3	45"x48"		
GB4	45"x48"		
SEE GRADE BEAM DIAGRAM ON S301			
GB5	45"x48"	8#7 TOP	#5 (ST-4)
		8#11 BOTTOM	10 AT 12" LEFT END
		4#9 BOTTOM 2nd LAYER	10 AT 6" RIGHT END
GB6	36"x36"	4#5 FACE, (2) EACH SIDE	BALANCE AT 16"
		6#8 TOP	#5 (ST-4)
		6#7 BOTTOM	AT 12" C/C TYPICAL
GB7	45"x48"	2#5 FACE, (1) EACH SIDE	AT 8" THROUGH SOUTH PILE CAP
		6#7 TOP	#5 (ST-4)
		6#7 BOTTOM	AT 16" C/C TYPICAL
GB8	24"x24"	4#5 FACE, (2) EACH SIDE	AT 12" C/C TYPICAL
		3#7 TOP AND BOTTOM	#4 (ST-3) AT 12" C/C

**GRADE BEAM SCHEDULE NOTES:**

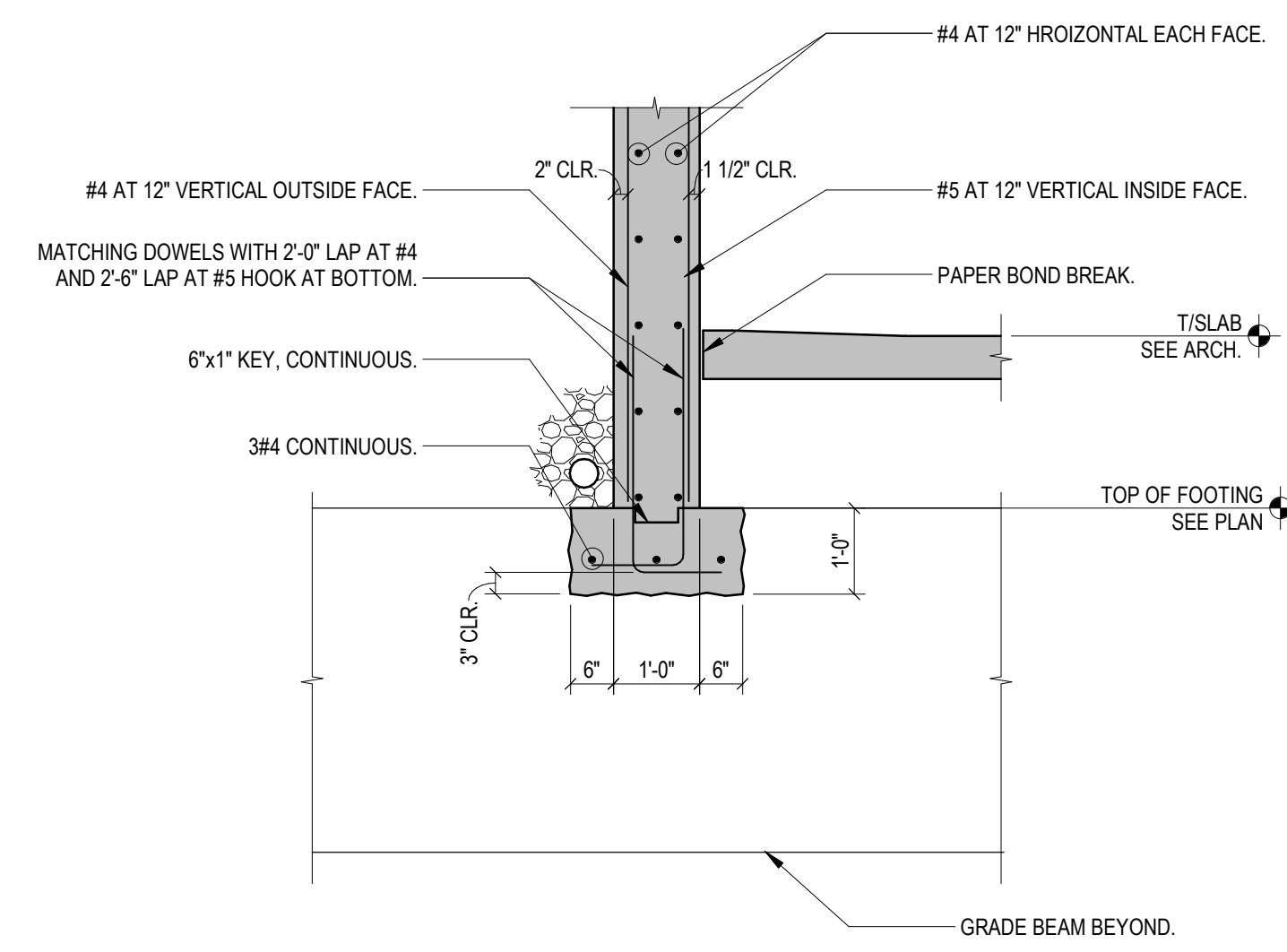
- LAP TOP AND FACE BARS AT MID SPAN, UNLESS NOTED OTHERWISE.
- HOOK ALL BARS AT FAR EDGE OF PILE CAP EXCEPT 2ND LAYER BOTTOM BARS.
- BEAM STIRRUP STARTS FROM CENTERLINE OF FIRST ROW OF PILES.

**STIRRUP TYPES**

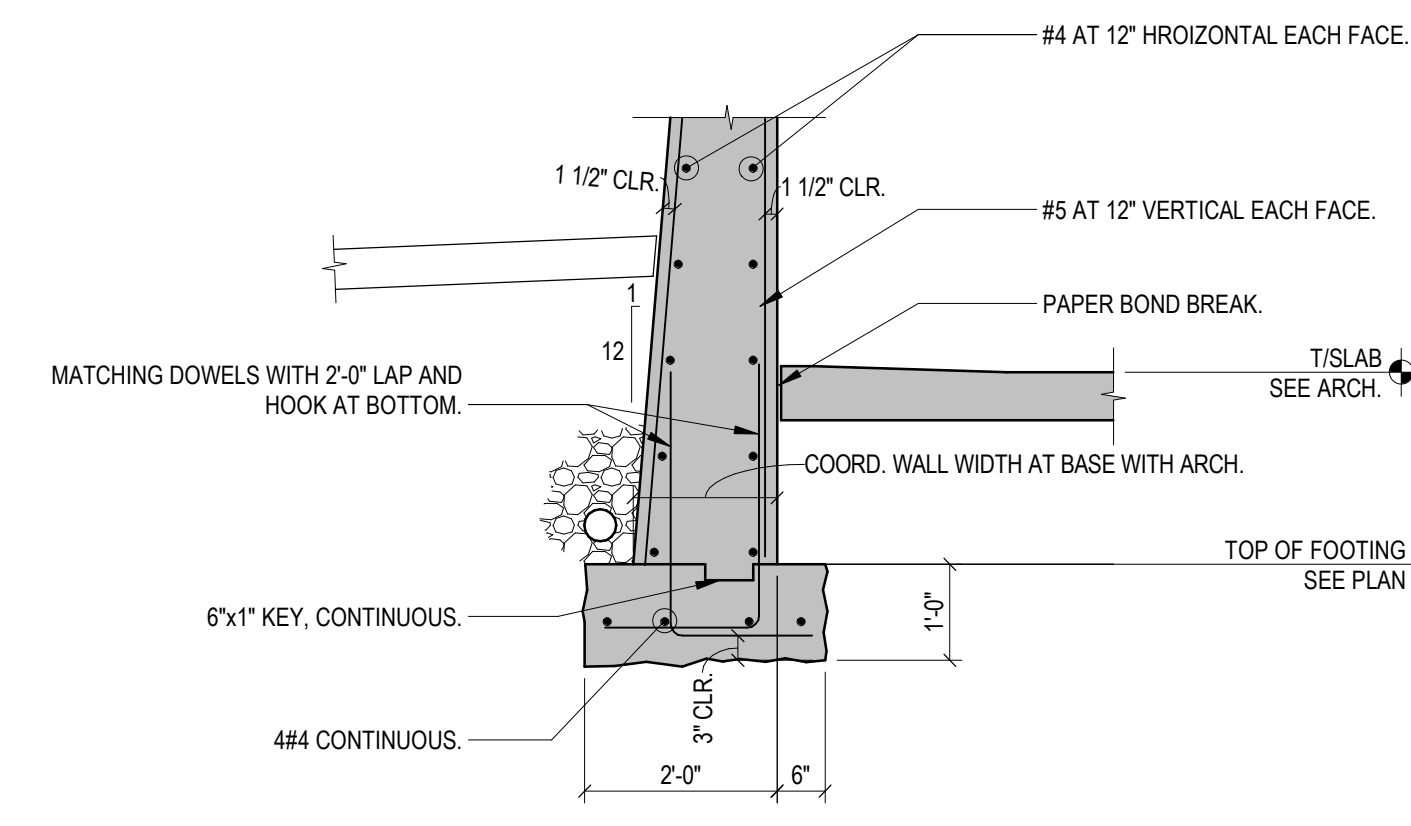


**1 LEVEL 1 FOUNDATION PLAN**  
S101 3/32" = 1'-0" NORTH

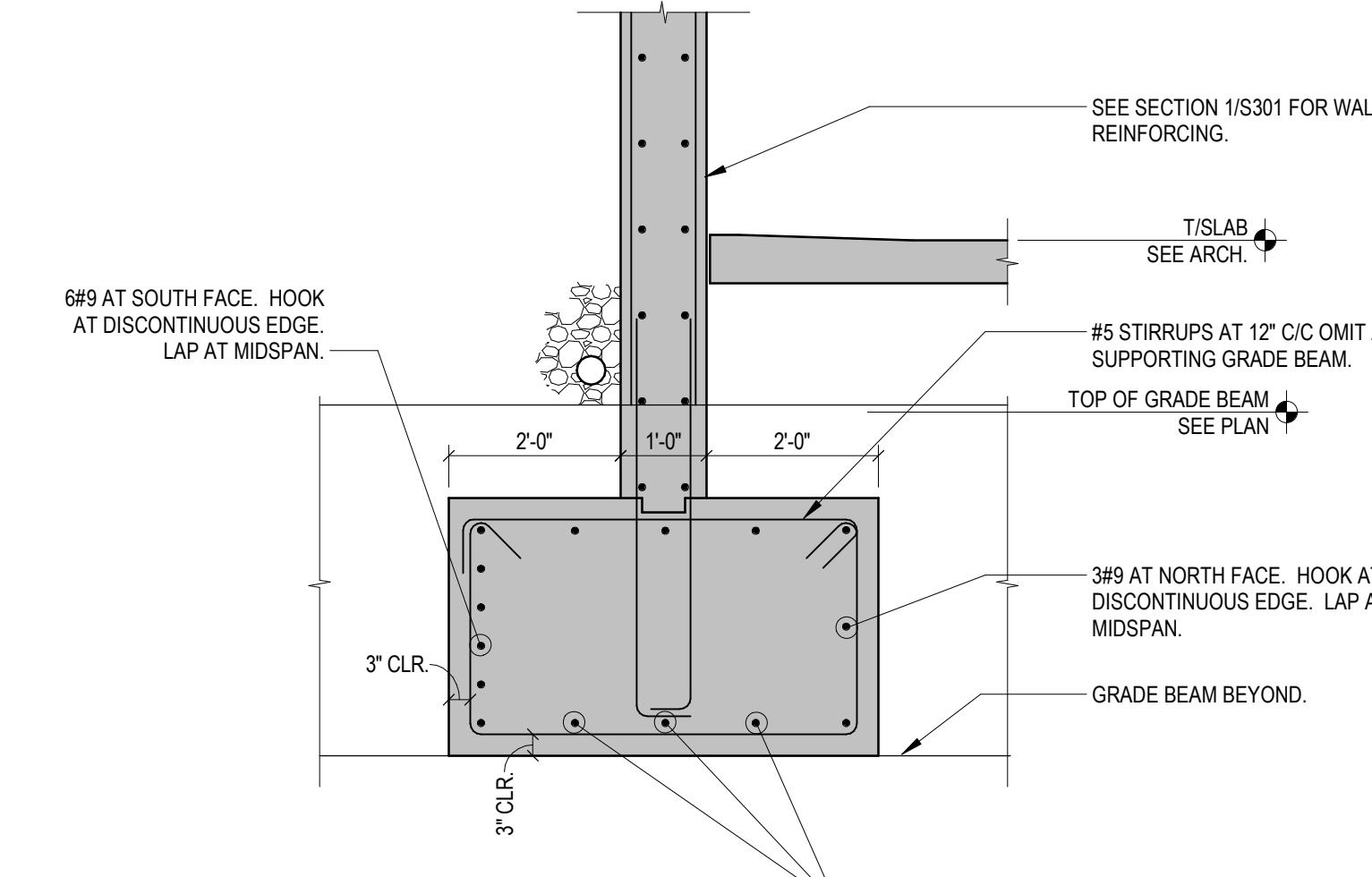




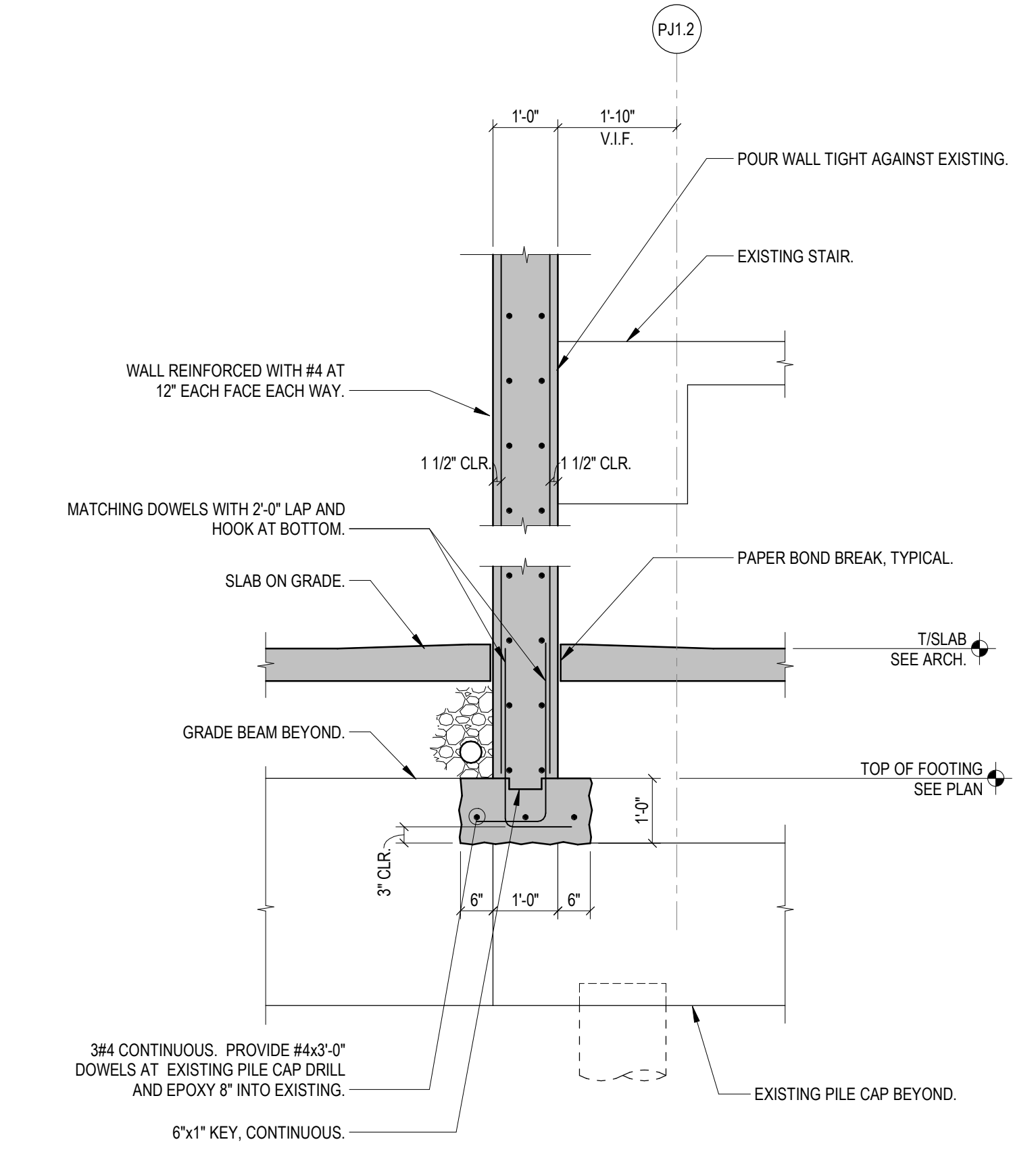
**1 SECTION**  
S201 1/2" = 1'-0"



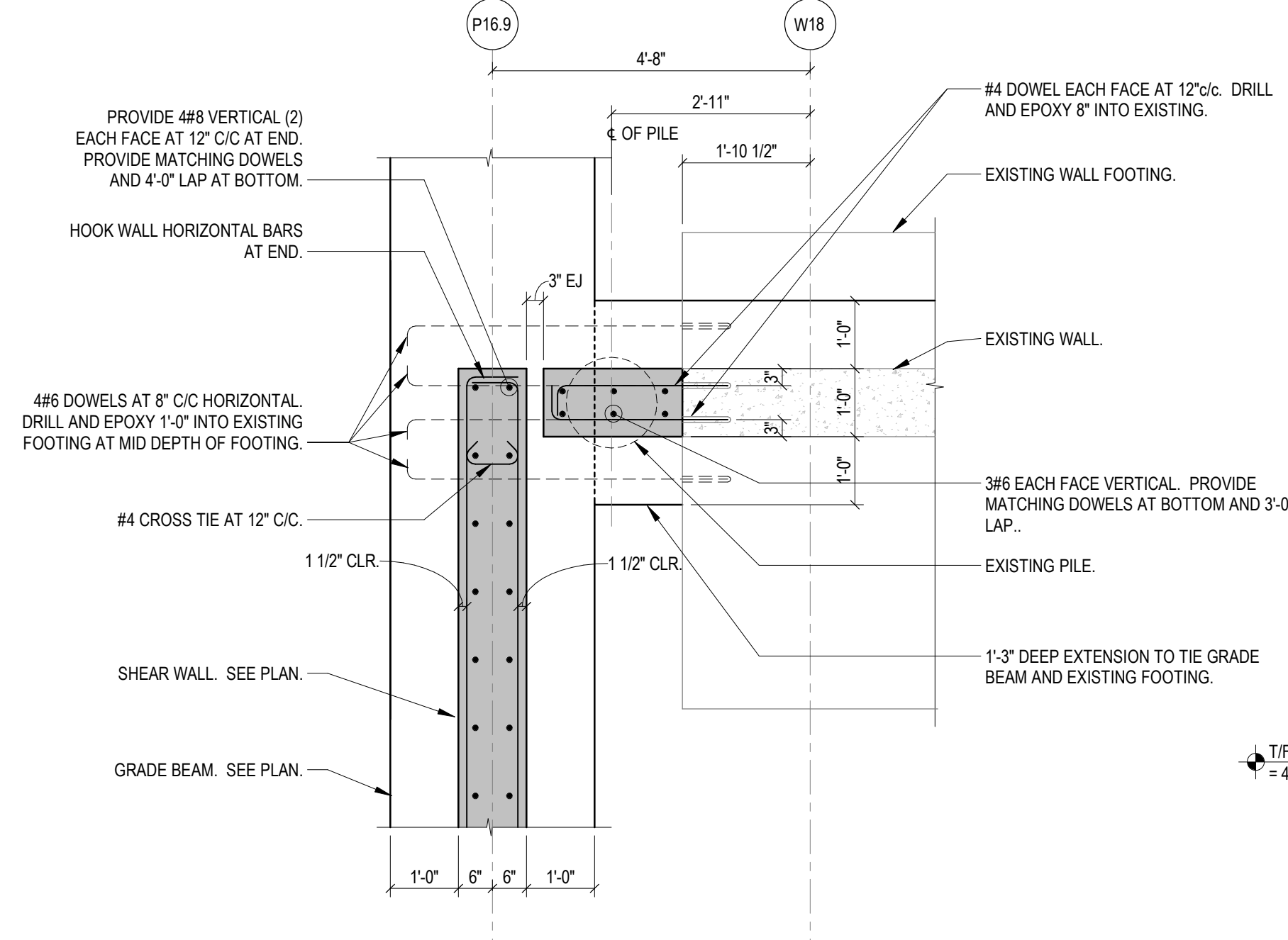
**2 SECTION**  
S201 1/2" = 1'-0"



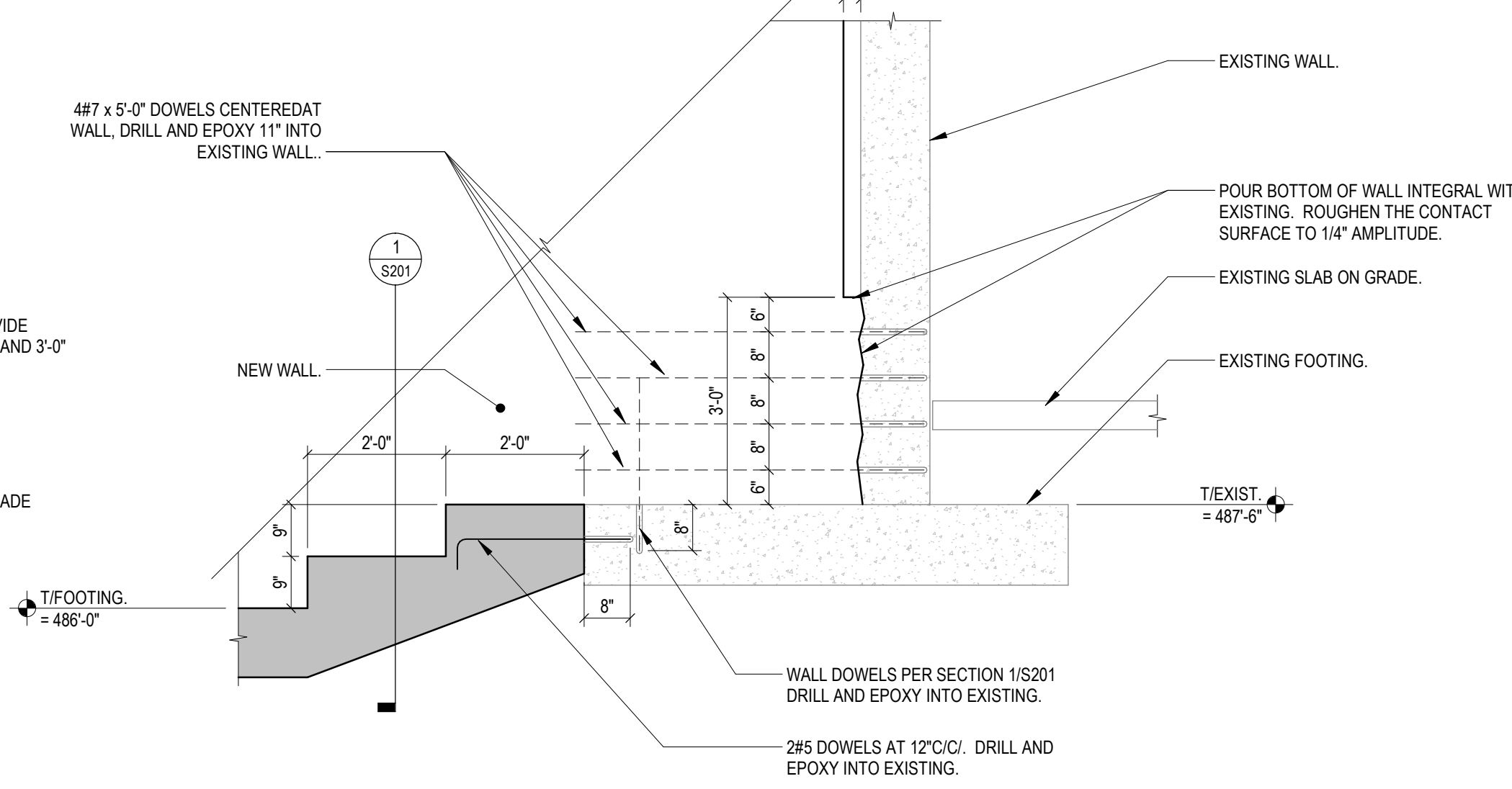
**3 SECTION**  
S201 1/2" = 1'-0"



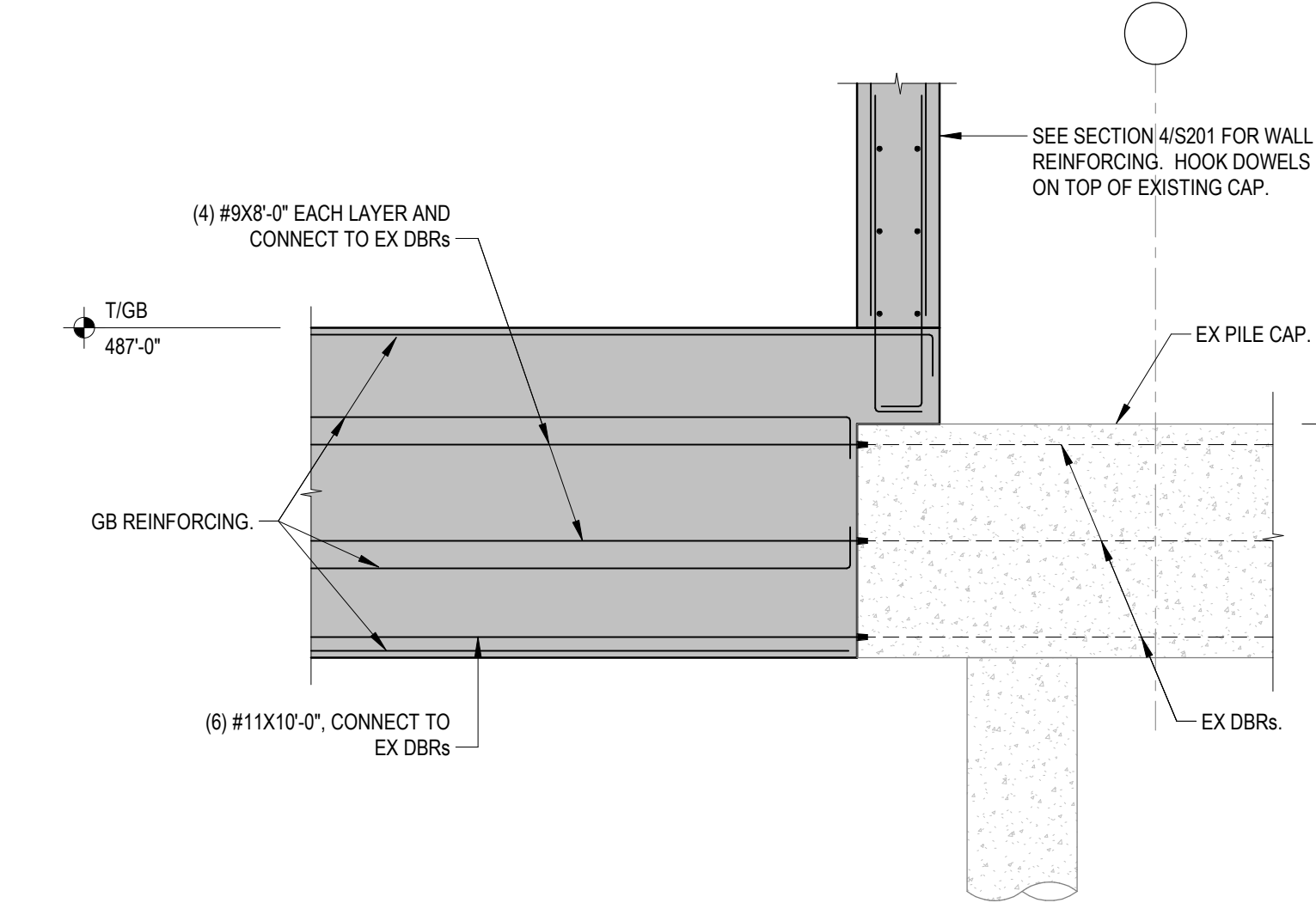
**4 SECTION**  
S201 1/2" = 1'-0"



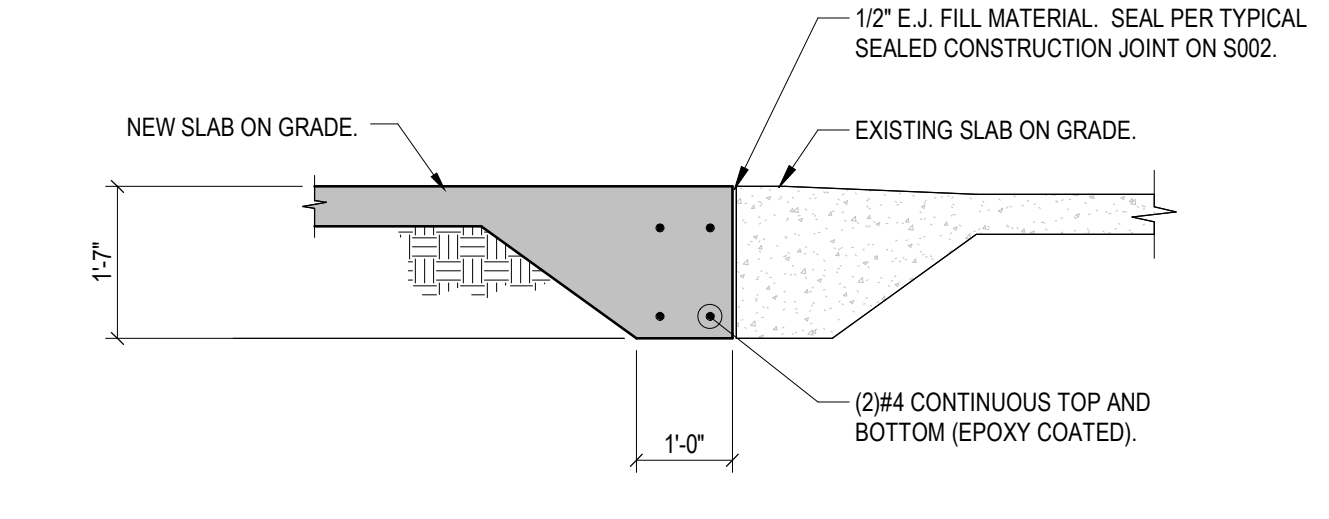
**5 PLAN DETAIL**  
S201 1/2" = 1'-0"



**6 SECTION**  
S201 1/2" = 1'-0"

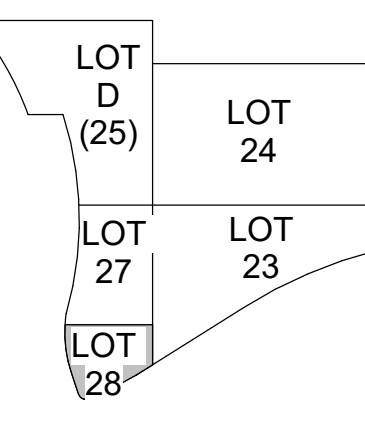


**7 SECTION**  
S201 1/2" = 1'-0"



**8 SECTION**  
S201 1/2" = 1'-0"

ISSUES/REVISIONS (CONTINUED)



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



DRAWING TITLE  
FOUNDATION DETAILS

JOB NUMBER 98090.40 DATE 11/05/2021  
DRAWING NUMBER

**S201**

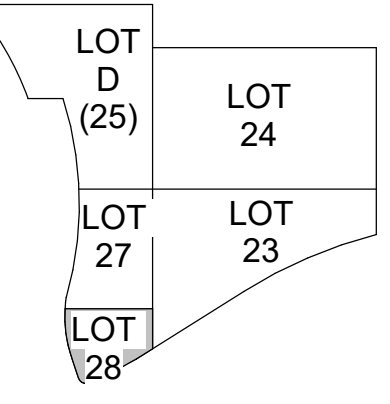


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ISSUES/REVISIONS - ISSUES/REVISIONS (CONTINUED)  
1. 11/05/2021 (BPH) - GARAGE FOUNDATIONS AND SITE PREPARATION.



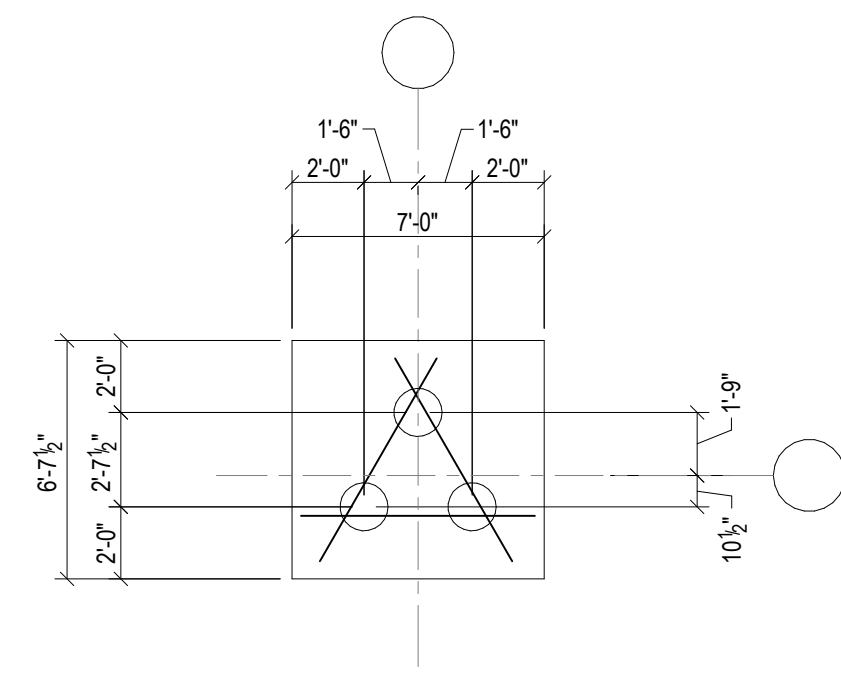
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DRAWING TITLE  
**PILE CAP AND COLUMN  
DETAILS**

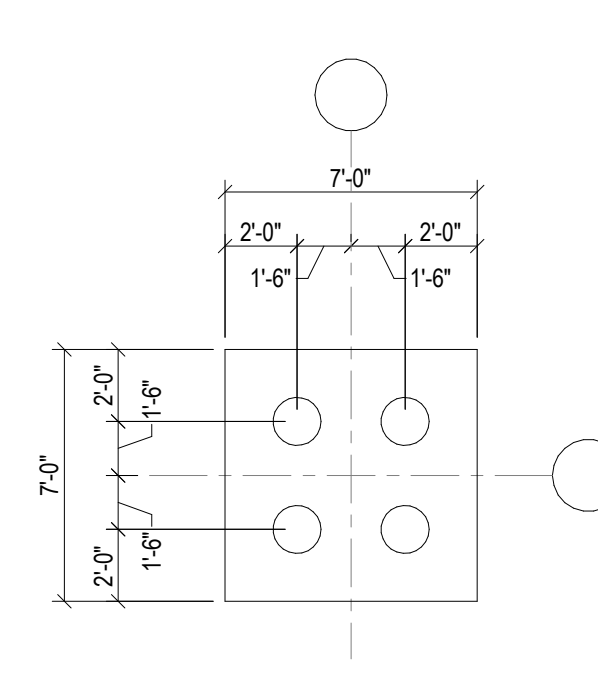
JOB NUMBER  
98090.40  
DATE  
11/05/2021  
DRAWING NUMBER

**S301**



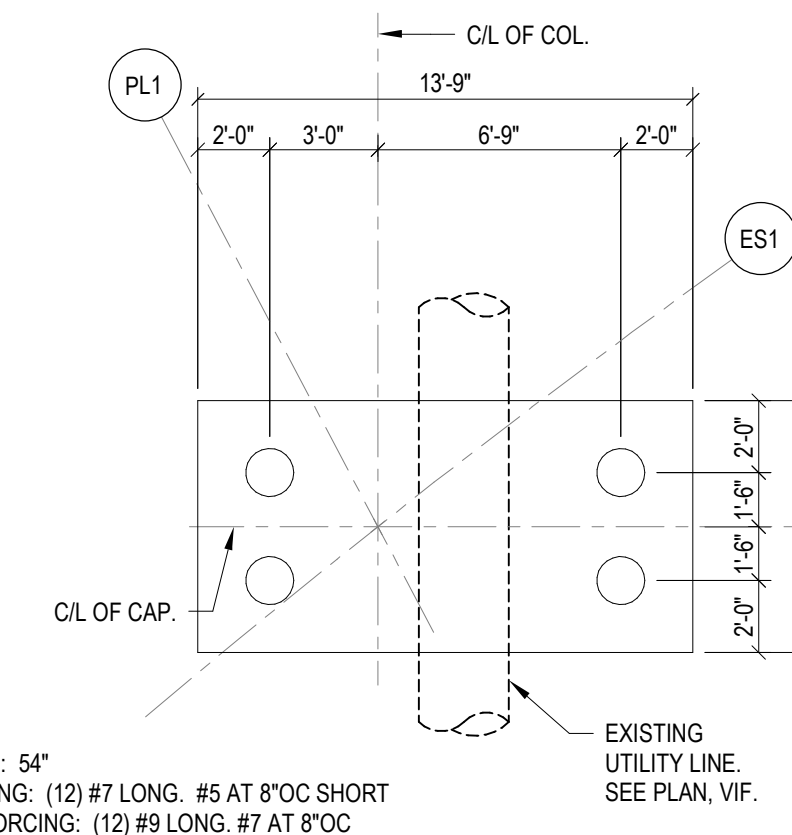
CAP THICKNESS: 34" AT TYP, 46" AT TYPE 3A  
TOP REINFORCING: NONE  
BOTTOM REINFORCING: (12) #6 IN 3 DIRECTIONS.

**3A 3 PLAN DETAIL**  
S301 S301 3/16" = 1'-0"



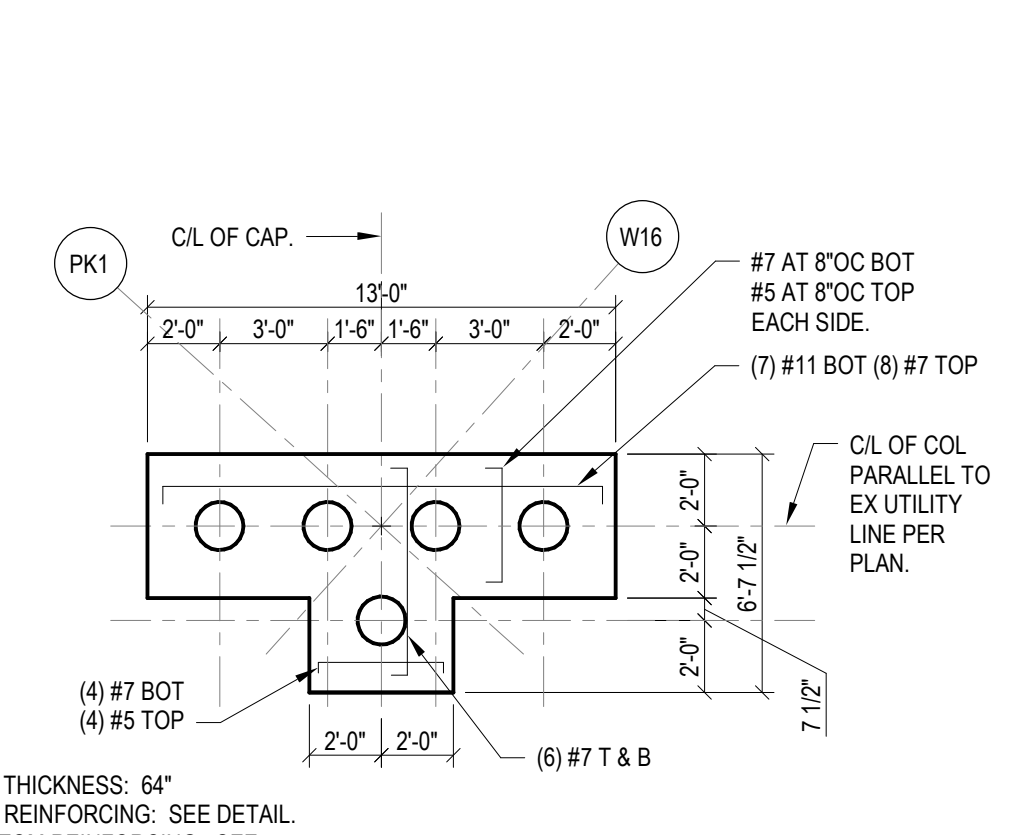
CAP THICKNESS: 38" AT TYP 4 AND 50" AT TYPE 4A  
TOP REINFORCING: NONE  
BOTTOM REINFORCING: (13) #7 EACH WAY.

**4A 4 PLAN DETAIL**  
S301 S301 3/16" = 1'-0"



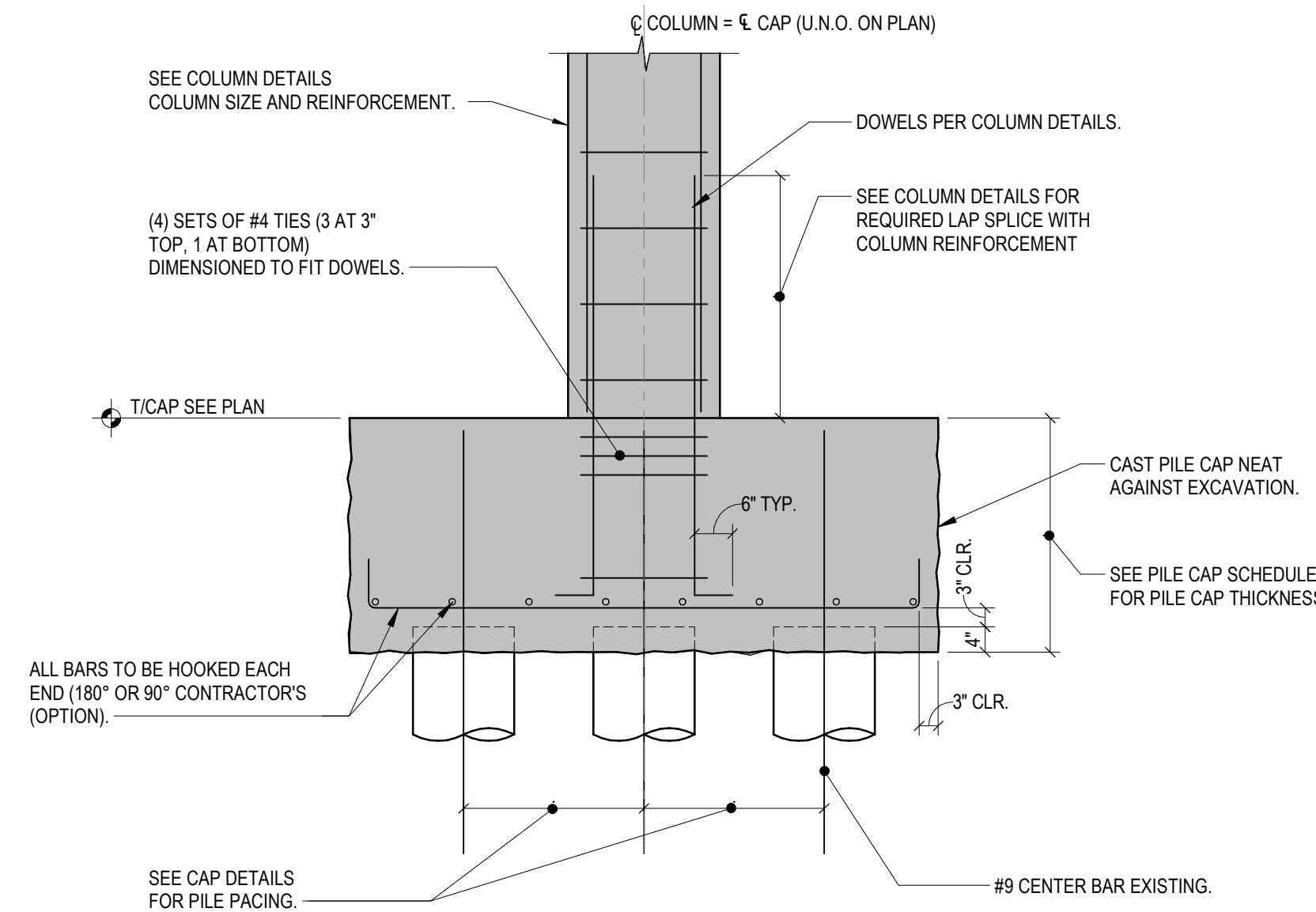
CAP THICKNESS: 54"  
TOP REINFORCING: (12) #7 LONG, #5 AT 8'0" SHORT  
BOTTOM REINFORCING: (12) #9 LONG, #7 AT 8'0" SHORT

**4B PLAN DETAIL**  
S301 3/16" = 1'-0"

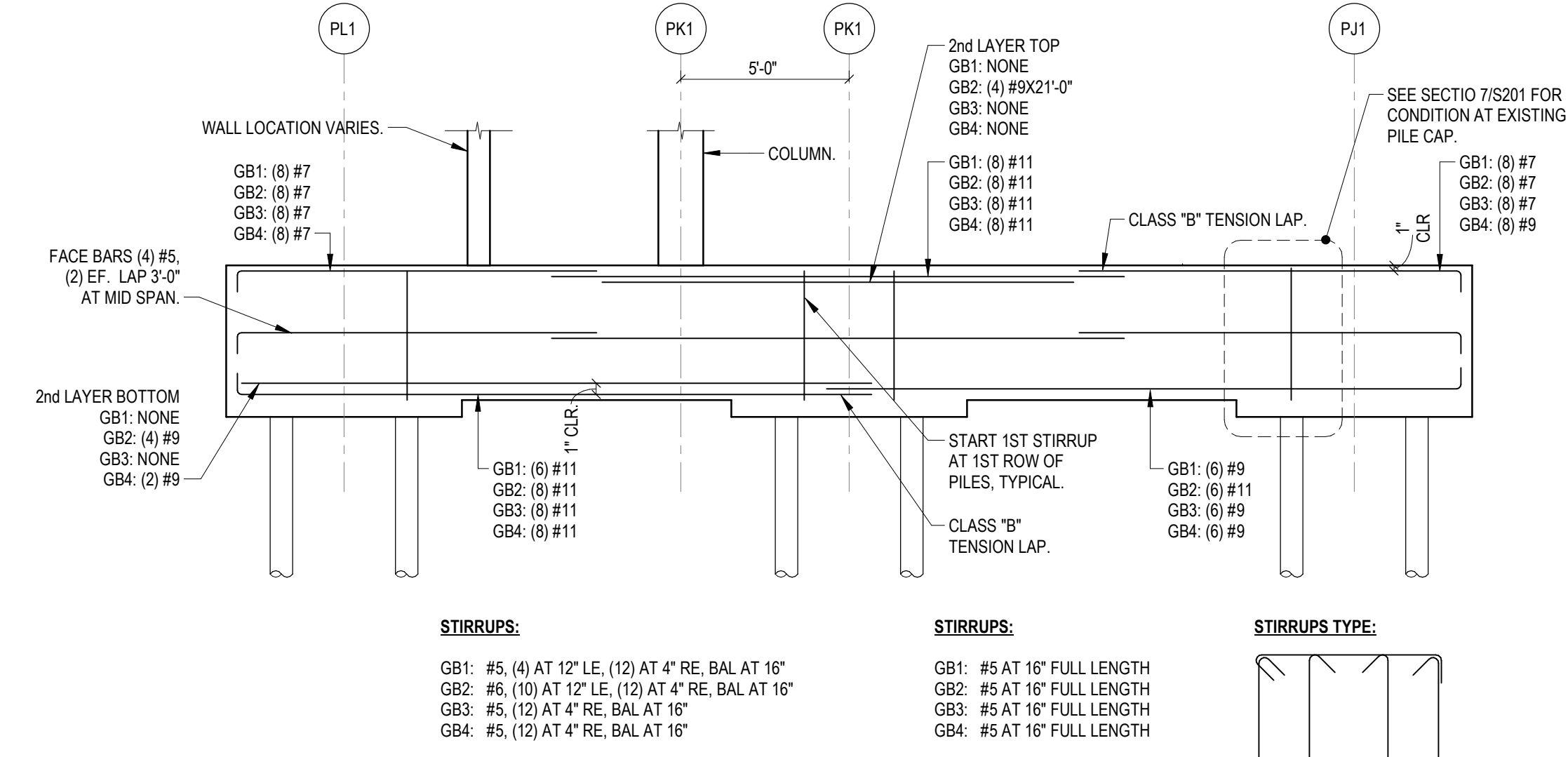


CAP THICKNESS: 64"  
TOP REINFORCING: SEE DETAIL  
BOTTOM REINFORCING: SEE DETAIL

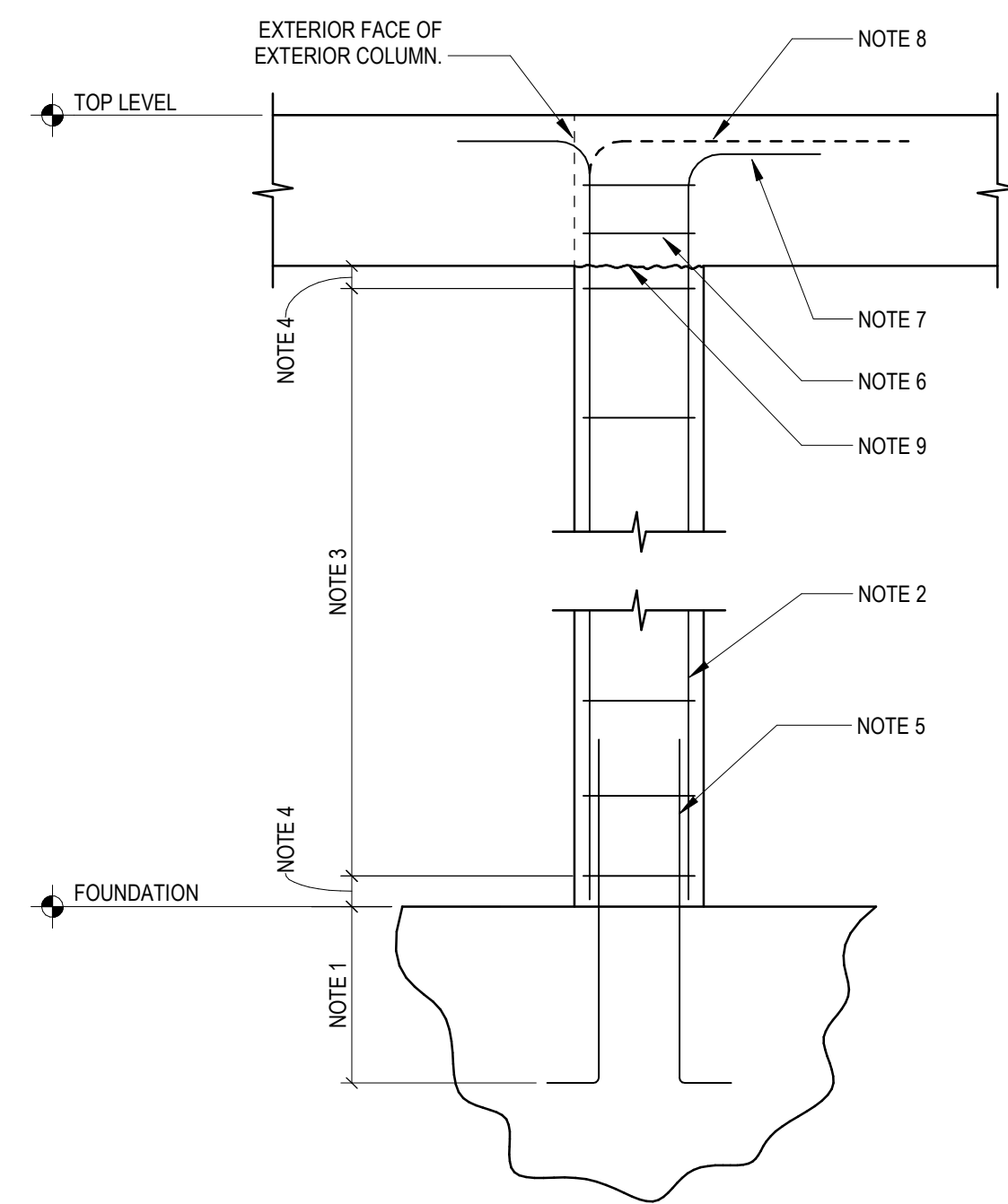
**5A PLAN DETAIL**  
S301 3/16" = 1'-0"



**A TYPICAL PILE CAP SECTION**  
S301 1/2" = 1'-0"



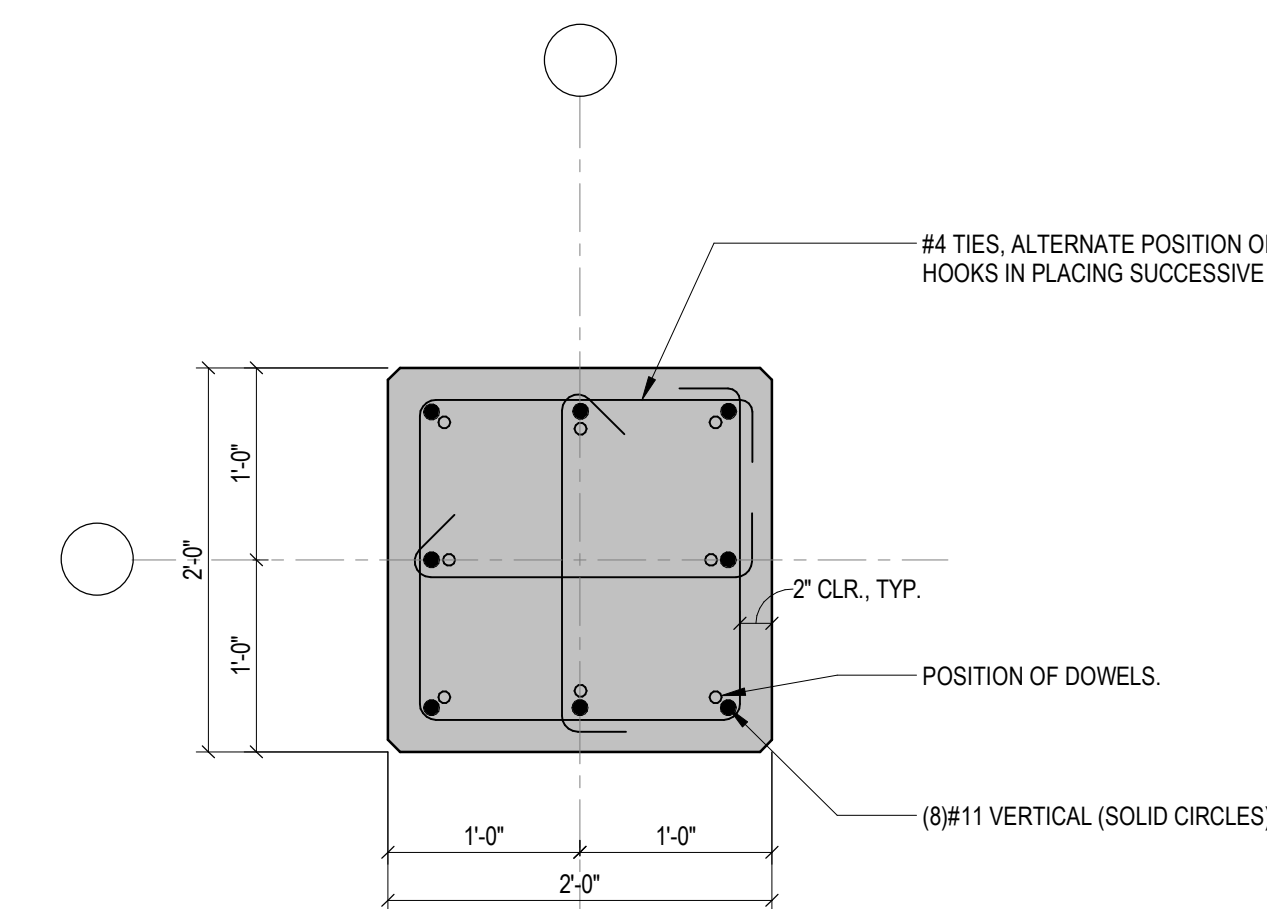
**GBD GRADE BEAM DIAGRAM**  
S301 1/2" = 1'-0" N.T.S.



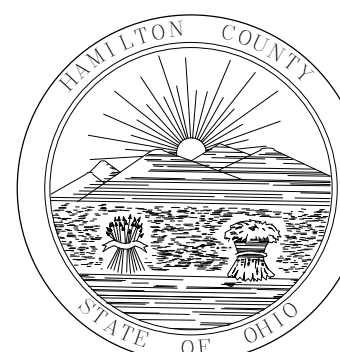
**CONCRETE COLUMN DETAIL**

**CONCRETE COLUMN NOTES:**

1. EXTEND DOWELS TO BOTTOM OF GRADE BEAM OR PILE CAP AND HOOK. SEE TYPICAL PILE CAP DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.
2. #11 COLUMN VERTICAL BARS. SEE COLUMN PLAN DETAIL FOR LAYOUT INFO.
3. #4 TIES AT 10" C/C. SEE COLUMN PLAN DETAIL FOR LAYOUT INFO.
4. LOCATE FIRST TIE 3" +/- FROM CONSTRUCTION JOINT (TYPICAL).
5. #9 DOWELS TO LAP 5'-0" WITH COLUMN VERTICAL BARS. PROVIDE TEMPLATES TO HOLD DOWELS IN PROPER POSITION DURING CONCRETE PLACEMENT. REFER TO COLUMN PLAN DETAIL FOR LOCATIONS OF DOWELS WITHIN COLUMNS.
6. UNLESS OTHERWISE DETAILED, PROVIDE TIES AT NORMAL SPACING THROUGH BEAMS OR FLOOR SYSTEM, BUT NOT GREATER THAN 1/2 LEAST COLUMN DIMENSION, WITH A MINIMUM OF TWO (2) SETS OF TIES WITHIN BEAM OR SLAB DEPTH.
7. TOP OF COLUMN BARS TO BE 1" BELOW LOWEST LAYER OF BEAM OR SLAB STEEL, UNLESS OTHERWISE DETAILED. TERMINATE ALL COLUMN BARS WITH STANDARD 90 DEG HOOK, UNLESS OTHERWISE DETAILED.
8. HOOK OUTSIDE FACE BARS IN EXTERIOR COLUMN FACES 36 BAR DIAMETERS INTO BEAM OR SLAB (2-FACES AT CORNER COLUMNS, 1-FACE AT PERIMETER COLUMNS).
9. CONSTRUCTION JOINT. LOCATE NO MORE THAN 1/2" HIGHER THAN BOTTOM OF LOWEST BEAM OR SLAB SUPPORTED BY COLUMN.



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



HAMILTON COUNTY  
RIVERFRONT PARKING  
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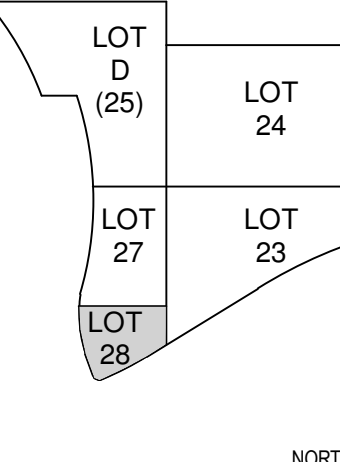


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ISSUES	
NO. 1	11/15/2021 BPS1 - GARAGE FOUNDATIONS AND SITE PREPARATION



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ARCHITECT: MM  
CHECKED BY: DJT



LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
LEGEND AND INDEX

JOB NUMBER: 98090.40  
DATE: 11/05/2021  
DRAWING NUMBER: P001



PROJECT NO. 2021-07091

**ABBREVIATIONS**

AFF - ABOVE FINISHED FLOOR	FPM - FEET PER MINUTE	SAN - SANITARY OR SANITARY DRAIN
AFG - ABOVE FINISHED GRADE	FT - FEET	SCH - SCHEDULE
ALT - ALTERNATE	FTG - FOOTING	SHT - SHEET
APPROX - APPROXIMATE	G - GAS OR NATURAL GAS	SPEC - SPECIFICATIONS
ARCH - ARCHITECT OR ARCHITECTURAL	GA - GAUGE	SQ - SQUARE
ASSY - ASSEMBLY	GAL - GALLON	SS - SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
BLDG - BUILDING	GALV - GALVANIZED	STD - STANDARD
BOB - BOTTOM OF BEAM	GD - GARAGE DRAINAGE	STM - STORM OR STORM DRAINAGE
BOF - BOTTOM OF FOOTING	GPM - GALLONS PER MINUTE	STRUC - STRUCTURAL OR STRUCTURE
BOP - BOTTOM OF PIPE	HD - HUB DRAIN	SUC - SITE UTILITY CONTRACTOR
BOT - BOTTOM	HP - HORSEPOWER OR HIGH POINT	TOB - TOP OF BEAM
BTU - BRITISH THERMAL UNIT	ID - INSIDE DIAMETER	TOF - TOP OF FOOTING
BTUH - BRITISH THERMAL UNIT PER HOUR	INV - INVERT ELEVATION	TOP - TOP OF PIPE
BTWN - BETWEEN	IN - INCHES	TOS - TOP OF SLAB OR TOP OF STEEL
CB - CATCH BASIN	L - LENGTH	TYP - TYPICAL
OFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED	LBS - POUNDS	UNO - UNLESS NOTED OTHERWISE
CFM - CUBIC FEET PER MINUTE	MAX - MAXIMUM	V - VENT OR SANITARY SEWER VENT
CI - CAST IRON	MFR - MANUFACTURER	VEL - VELOCITY
CMU - CONCRETE MASONRY UNIT	MH - MANHOLE	VOL - VOLUME
CO - CLEAN OUT	MIN - MINIMUM OR MINUTE	VS - VENT STACK
CONN - CONNECT OR CONNECTION	MISC - MISCELLANEOUS	VR - VENT RISER
CONTR - CONTRACTOR	NIC - NOT IN CONTRACT	W/ - WITH
CTR - CENTER	NOM - NOMINAL	W/O - WITHOUT
CU - COPPER	NPT - NATIONAL PIPE THREAD	W - WASTE
CW - COLD WATER	NTS - NOT TO SCALE	WS - WATER SERVICE
CWS - COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY	OD - OUTSIDE DIAMETER OR OVERFLOW DRAIN	
D - DEPTH OR DRAIN LINE	OFCI - OWNER FURNISHED CONTRACTOR INSTALLED	
DD - DECK DRAIN	OFOI - OWNER FURNISHED OWNER INSTALLED	
DET - DETAIL	PC - PLUMBING CONTRACTOR (DIVISION 22)	
DFU - DRAINAGE FIXTURE UNIT	PD - PUMP DISCHARGE OR PARAPET DRAIN	
DIA - DIAMETER	PLBG - PLUMBING	
DIM - DIMENSION	PRESS - PRESSURE	
DN - DOWN	PSF - POUNDS PER SQUARE FOOT	
DS - DOWN SPOUT OR SPRINKLER (DRY)	PSI - POUNDS PER SQUARE INCH	
DWG - DRAWING	PSIG - POUNDS PER SQUARE INCH GAUGE	
EA - EACH	RAD - RADIUS	
EJ - EXPANSION JOINT	RCP - REINFORCED CONCRETE PIPE	
ELEV - ELEVATOR	REQD - REQUIRED	
EQ - EQUAL		
EQUIP - EQUIPMENT		
ETR - EXISTING TO REMAIN		
EQS - EQUIPMENT SUPPLIER		
EXP - EXPANSION		
EXT - EXTERIOR		
EX - EXISTING		
FCO - FLOOR CLEANOUT		
FD - FLOOR DRAIN		
FF - FINISHED FLOOR ELEVATION		
FLR - FLOOR		
FM - FORCE MAIN		

**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

**GENERAL FLOOR PLAN NOTES**

	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
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	RISER OR STACK NUMBER
	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
	CONNECT TO EXISTING
	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)

**FITTINGS**

	CHECK VALVE
	CONCENTRIC PIPE REDUCER
	UNION
	CLEANOUT TO GRADE OR FINISHED FLOOR

**PIPING SYMBOLS**

	BOTTOM CONNECTION (45°)
	BOTTOM CONNECTION (90°)
	BRANCH TEE CONNECTION (NOTE: BULLHEAD TEE'S ARE NOT PERMITTED)
	DIRECTION OF PITCH
	DROP
	ELBOW DOWN
	ELBOW UP
	EXISTING PIPE TO BE REMOVED
	EXISTING PIPE TO REMAIN
	FLOW DIRECTION DESIGNATION
	PIPE RISER
	PUMP
	RISE
	TOP CONNECTION (45°)
	TOP CONNECTION (90°)

**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 Number	Sheet Name
P001	LEGEND AND INDEX
P002	SCHEDULES DETAILS AND NOTES
P100	UNDERGROUND PLUMBING PLAN
P200	SANITARY DIAGRAM

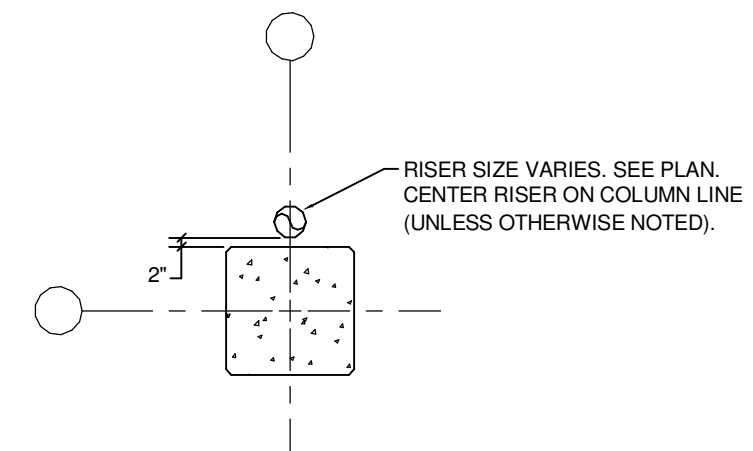
**SMU STANDARD PLAN NOTES**

- 1. ALL PLANS AND CONSTRUCTION WITHIN THE CITY OF CINCINNATI SHALL COMPLY WITH CHAPTER 720 OF THE CITY'S MUNICIPAL CODE ALONG WITH THE LATEST EDITIONS OF SMU'S: A) DETENTION OPERATION AND MAINTENANCE PLAN, B) FEES, C) STANDARD DRAWINGS, D) PIPE MATERIALS POLICY, AND E) RULES & REGULATIONS. THESE DOCUMENTS CAN BE DOWNLOADED FROM SMU'S WEBSITE AT: <http://www.cincinnati-oh.gov/stormwater/>. IF THERE ARE CONFLICTS BETWEEN THESE DOCUMENTS SMU SHALL BE CONTACTED TO RESOLVE THE ISSUE PRIOR TO WORK COMMENCING. SMU CAN BE REACHED AT 513-591-7746 OR STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
- 2. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE INSTALLED AS EARLY AS POSSIBLE AND BE MAINTAINED THROUGHOUT THE PROJECT. NOTE: EROSION CONTROL FOR THE PROJECT IS BEING PROVIDED IN BP#1 PRIOR TO ANY SITE DEMOLITION AND SEWER WORK. REFER TO BP#1 DRAWINGS AND SPECIFICATIONS.
- 3. A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT IS REQUIRED IF THE TOTAL LAND DISTURBANCE WILL BE EQUAL TO OR GREATER THAN ONE ACRE IN A STORM ONLY SEWER AND/OR IF DISCHARGING TO A CREEK. A COPY OF THE PERMIT MUST ACCOMPANY THE REQUEST FOR APPROVAL OF THE PLAN. NOTE: EROSION CONTROL FOR THE PROJECT IS BEING PROVIDED IN BP#1 PRIOR TO ANY SITE DEMOLITION AND SEWER WORK. REFER TO BP#1 DRAWINGS AND SPECIFICATIONS.
- 4. SMU DOES NOT ALLOW TWO-PIECE CASTINGS OR SLAB TOP MANHOLES ONLY REINFORCED CONCRETE PIPE (RCP) OR DUCTILE IRON PIPE (DIP) IS PERMITTED WITHIN AN EASEMENT OR RIGHT-OF-WAY.
- 5. SMU DOES NOT ALLOW ANY DRAINAGE STRUCTURES WITHIN 5 FEET OF A DRIVEWAY.
- 6. ALL PUBLIC STORM DRAINAGE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND WITH THE LATEST EDITION OF THE CITY OF CINCINNATI SUPPLEMENT TO THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. IF THERE IS A CONFLICT BETWEEN THE GOVERNING SPECIFICATIONS THE MOST STRINGENT SHALL BE USED. SMU SHALL BE CONTACTED TO RESOLVE ANY DISCREPANCIES PRIOR TO WORK COMMENCING. SMU CAN BE REACHED AT 513-591-7746 OR STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
- 7. THE OWNERS OF ALL PROPERTIES SHOWN ON THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO ALL APPLICABLE SEWER MAINLINE INSPECTION FEES, SERVICE CHARGES, ASSESSMENTS, TAP-IN CHARGES OR OTHER FEES, WHICH HAVE BEEN ESTABLISHED BY CITY COUNCIL, CITY OF CINCINNATI.
- 8. ALL WORK DONE ON STORMWATER INFRASTRUCTURE WITHIN THE CITY OF CINCINNATI MUST BE DONE BY A CONTRACTOR WHO IS AN APPROVED SEWER TAPPER PROPERLY LICENSED AND BONDED THROUGH THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI.
- 9. A STORMWATER TAP PERMIT IS REQUIRED FOR EACH BUILDING. BOND OR FINAL ACCEPTANCE OF THE MAIN LINE IS REQUIRED PRIOR TO ISSUANCE OF A TAP PERMIT. A SKETCH SHALL BE SUBMITTED BY THE PLUMBER, WHICH SHALL SHOW THE ELEVATION AND LOCATION OF THE STORMWATER TAP WITH RESPECT TO THE NEAREST STORM MANHOLE. A REQUEST FOR APPLICATION CAN BE SENT TO STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
- 10. ALL PUBLIC STORMWATER INFRASTRUCTURE THAT IS BEING TAPPED INTO MUST BE CORED AND INSPECTED AS PART OF THE TAP PERMIT PROCESS.
- 11. ALL STORMWATER INFRASTRUCTURE WITHIN THIS DEVELOPMENT IS TO BE PRIVATE AND MAINTAINED BY THE OWNER(S) EXCEPT FOR THE EXISTING EAST-WEST 15' STORM SEWER AND EXISTING NORTH-SOUTH 24" 30" STORM SEWER - REFER TO STORM SEWER EASEMENT SECTION OF 2004 RECORD PLAN FOR THE BANKS - PHASE II.
- 12. STORMWATER INFRASTRUCTURE CONSTRUCTION MUST COMMENCE WITHIN 12 MONTHS AND BE COMPLETED WITHIN 18 MONTHS OF THE DATE OF APPROVAL SHOWN HEREON OR THESE PLANS BECOME VOID.
- 13. NEAR THE COMPLETION OF WORK ON ALL STORMWATER INFRASTRUCTURE, THE CONTRACTOR SHALL REQUEST CAGIS IDS FROM SMU UPON COMPLETION OF THE WORK USING SAID IDS (CONTRACTOR/OWNER/DEVELOPER ETC.) SHALL CLOSE CIRCUIT TELEVISION (CCTV) THE PUBLIC STORMWATER MAINS AS WELL AS PROVIDE DIGITAL PHOTOGRAPHS OF THE LINES AND STRUCTURES. THE CCTV SHALL BE PIPELINE ASSESSMENT CERTIFICATION PROGRAM (PACP) COMPLIANT AND SUBMITTED TO SMU FOR APPROVAL. NOTE: PRIOR TO START OF SITE DEMOLITION, FOUNDATION, AND SEWER WORK, CONSTRUCTION MANAGER IS ALSO COMMISSIONING PRE-CONSTRUCTION VIDEO AND PHOTOGRAPHY OF THE EXISTING PUBLIC STORM SEWERS ON THE SITE.
- 14. FINAL ACCEPTANCE, IN ORDER FOR SMU TO GRANT FINAL ACCEPTANCE THE FOLLOWING MUST BE SUPPLIED:
  - A. AS-BUILT DRAWINGS WITH ACCURATE LOCATIONS, DESCRIPTIONS, AND QUANTITIES OF THE INSTALLED MATERIALS.
  - B. FINAL CLEANING AND INSPECTION BY THE OWNER OF THE INFRASTRUCTURE MUST BE COMPLETED AND WITHOUT CONFLICTS.
- 15. SMU RESERVES THE RIGHT TO REFUSE OWNERSHIP ON BEHALF OF THE CITY.

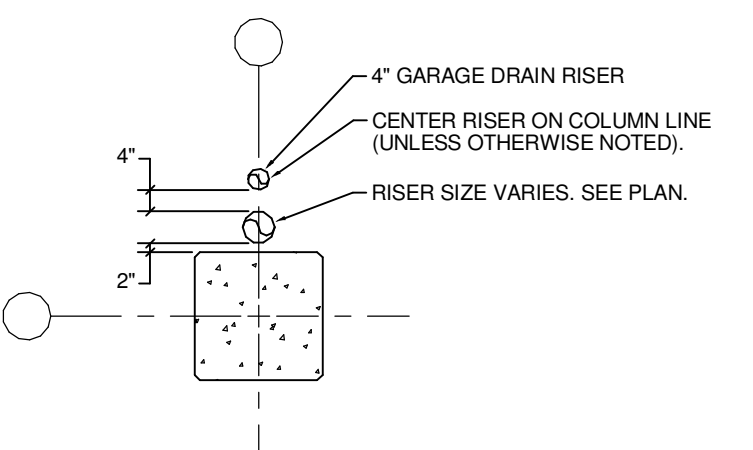
**GENERAL NOTES**

- A. REFER TO SCHEDULES, DETAILS, AND DIAGRAMS FOR PIPING, PIPE SIZES, AND PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.
- B. ALL SANITARY AND STORM STUBS FOR FUTURE USE SHALL BE CAPPED MINIMUM 6" ABOVE FINISHED FLOOR.

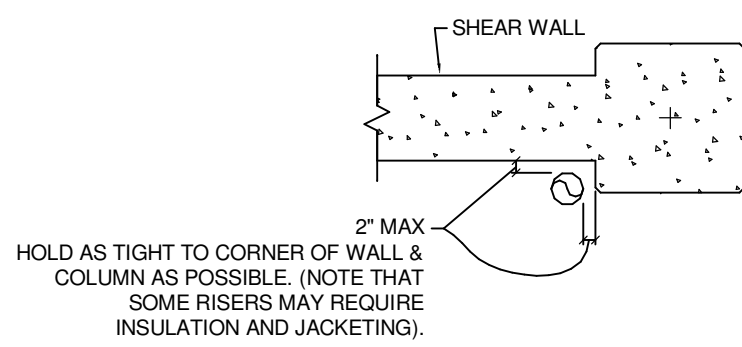
DRAINS																			
GENERAL NOTE: 1. ALL DRAINS ARE MANUFACTURED BY ZURN UNLESS NOTED OTHERWISE.																			
NOTES: 1. DRAINS IN AREAS SUBJECT TO FREEZING IN PARKING AREAS SHALL NOT BE PROVIDED WITH P-TRAPS. 2. CLOSELY COORDINATE INSTALLATION LOCATIONS WITH CONSTRUCTION MANAGER. CONTRACTOR SHALL ALSO REFER TO ARCHITECTURAL SHEETS. 3. PROVIDE BACKWATER VALVE - FLAPPER TYPE. 4. PROVIDE HEEL PROOF GRATE.																			
	MARK	CATALOG NOS.	FLOOR	ROOF	AREA-WAY	CAST IRON	BRASS	ACID RESIST.	STAINLESS STEEL	PLASTIC	4" SIZE	6" SIZE	8" DIA	10" DIA	12" DIA	14" DIA	TYPE	SIZE	FEATURES
	GD1	Z520	•																SEE NOTE



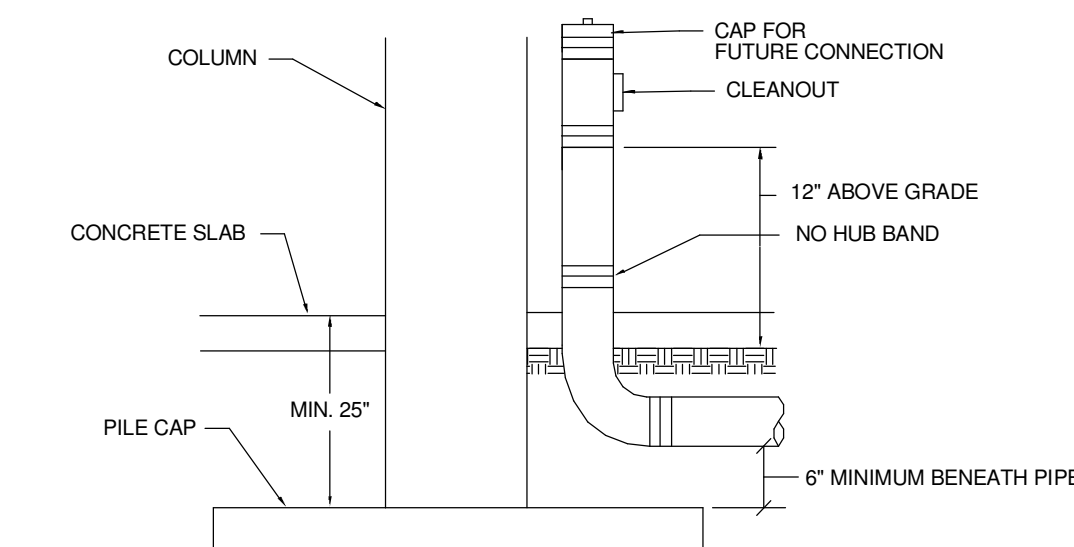
**TYPICAL SINGLE RISER AT COLUMN LAYOUT**



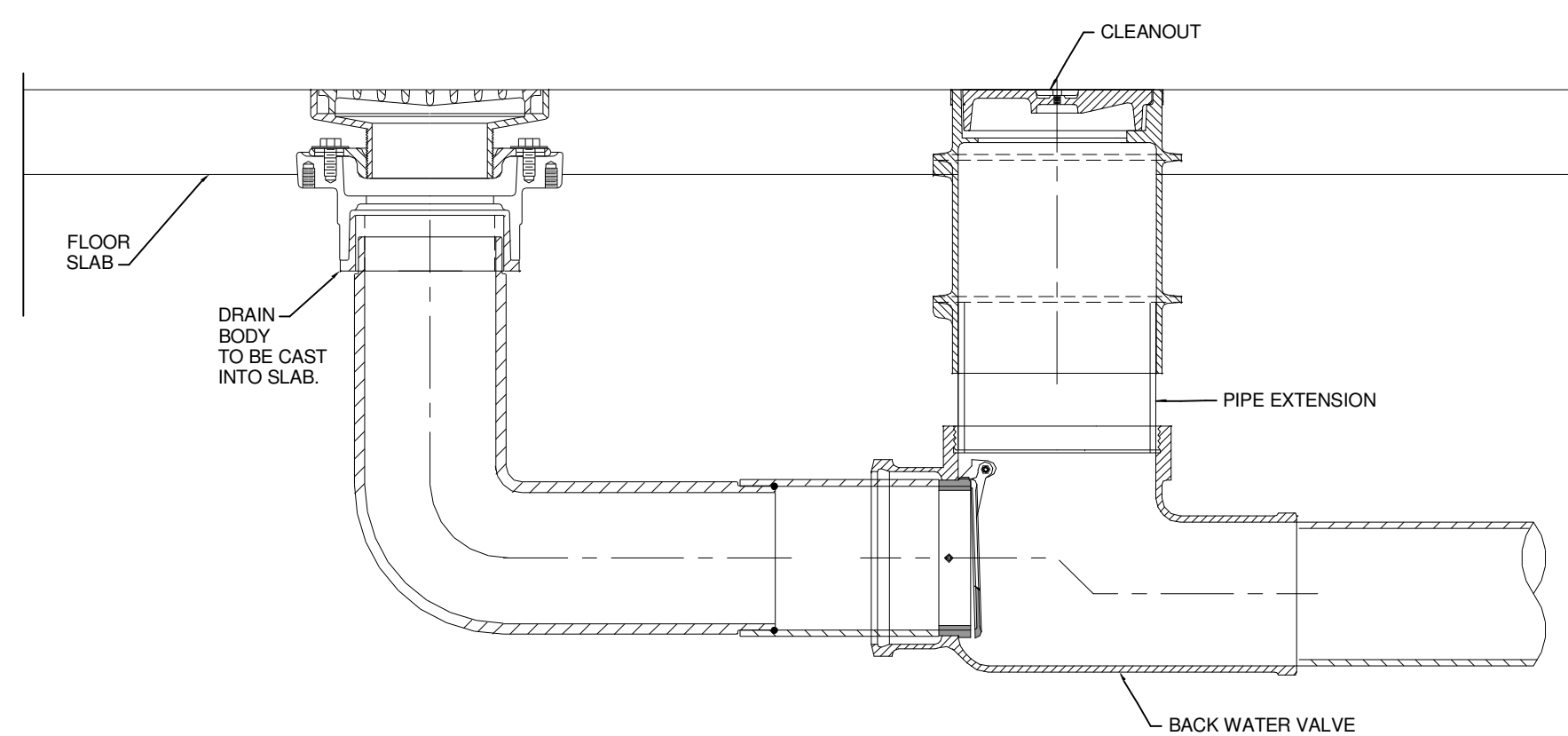
**TYPICAL RISER LAYOUT (TWO RISERS AT COLUMN)**



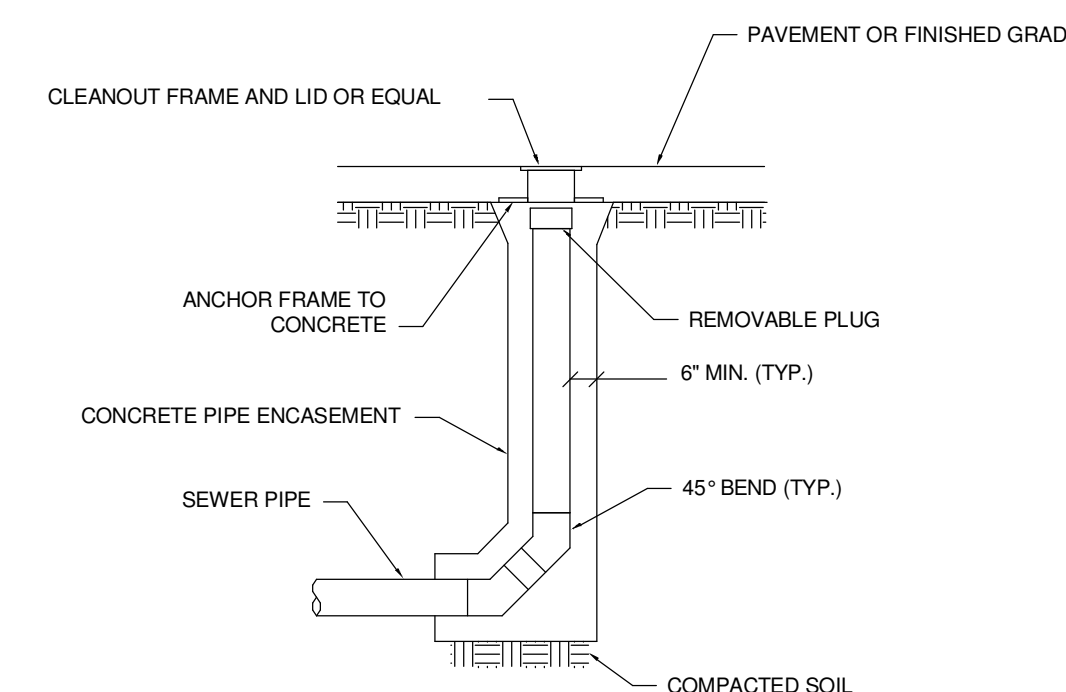
**TYPICAL RISER LAYOUT AT SHEARWALL/COLUMN CORNER**  
**E RISER LOCATION DETAILS**



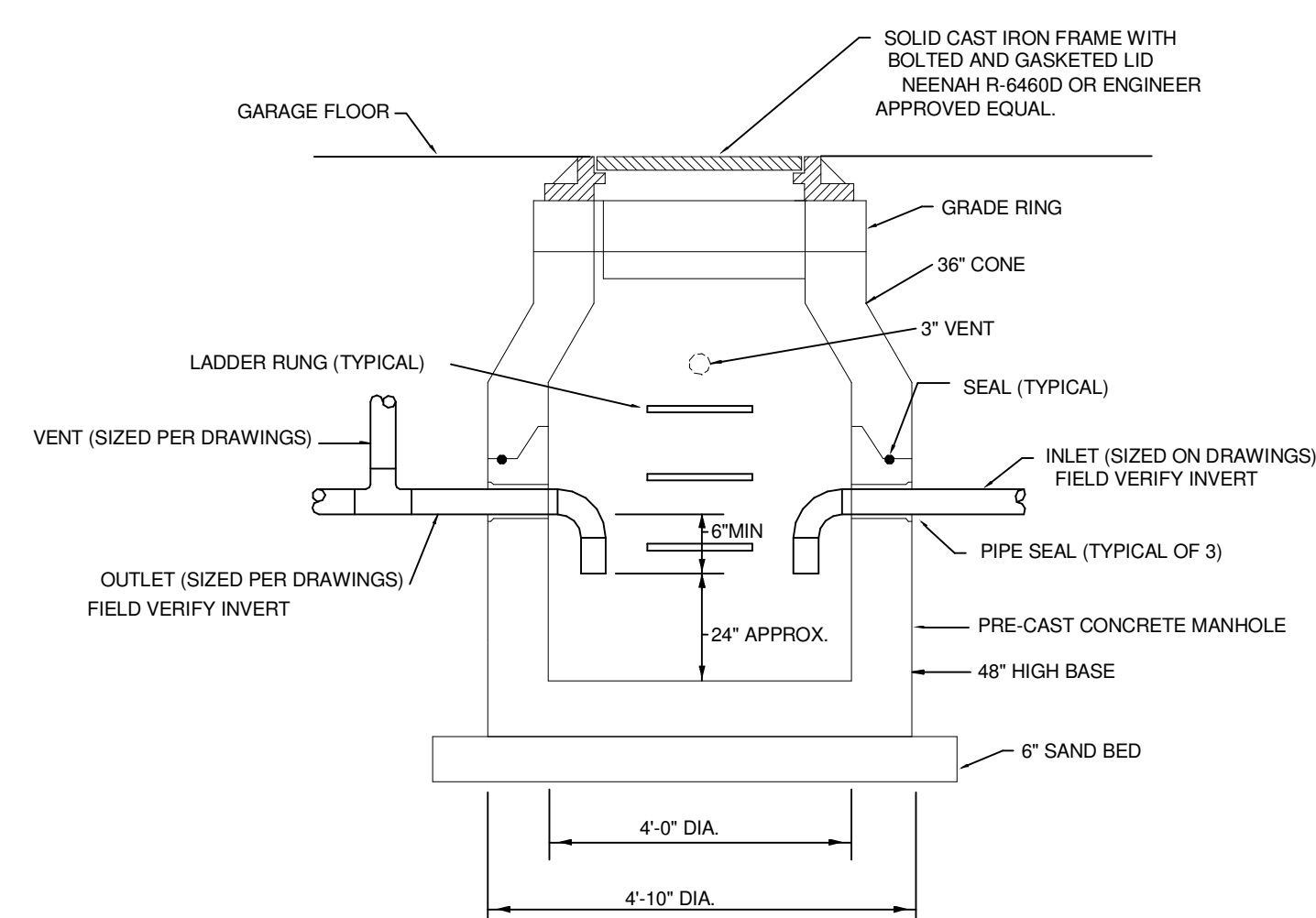
**C RISER STUB UP DETAIL**



**B GARAGE DRAIN WITH CLEANOUT DETAIL**



**D CLEANOUT DETAIL**



**A MASTER TRAP DETAIL**



HAMILTON COUNTY RIVERFRONT PARKING AND INFRASTRUCTURE IMPROVEMENTS



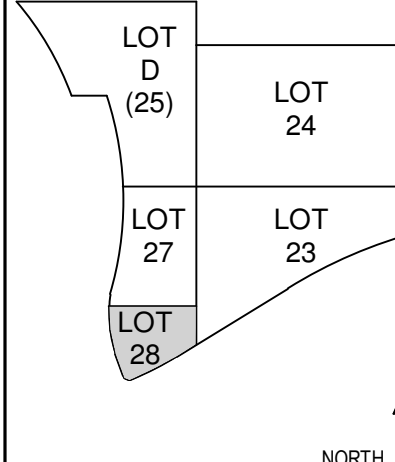
THP Limited, Inc. Cincinnati Cleveland 100 East Eighth Street Cincinnati, Ohio 45202 Phone: 513.241.3222 www.thpld.com



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ISSUES 1 11/5/2021 BP#1 GARAGE FOUNDATIONS AND SITE PREPARATION



DRAWN BY: KTG ARCHITECT: MM CHECKED BY: DNM



LOT 28 GARAGE AND PARK

DRAWING TITLE SCHEDULES DETAILS AND NOTES

JOB NUMBER 98090.40 DATE 11/05/2021 DRAWING NUMBER



HAMILTON COUNTY  
RIVERFRONT PARKING  
AND INFRASTRUCTURE  
IMPROVEMENTS

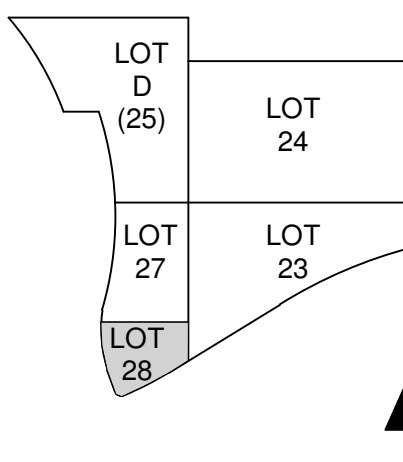
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Cincinnati, Ohio  
100 East Eighth Street  
Cincinnati, Ohio 45202  
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www.thpltd.com

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VERIFY ALL DIMENSIONS AND  
CONDITIONS OF THE SITE  
BEFORE CONSTRUCTION.  
CONSTRUCTION SHALL BE  
IN ACCORDANCE WITH ALL  
APPLICABLE CODES AND  
REGULATIONS.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

ISSUES	
SUBJECT	11/05/2021 8PM1 - GARAGE FOUNDATIONS AND SITE PREPARATION
NO.	1



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ARCHITECT: MM  
CHECKED BY: DNM

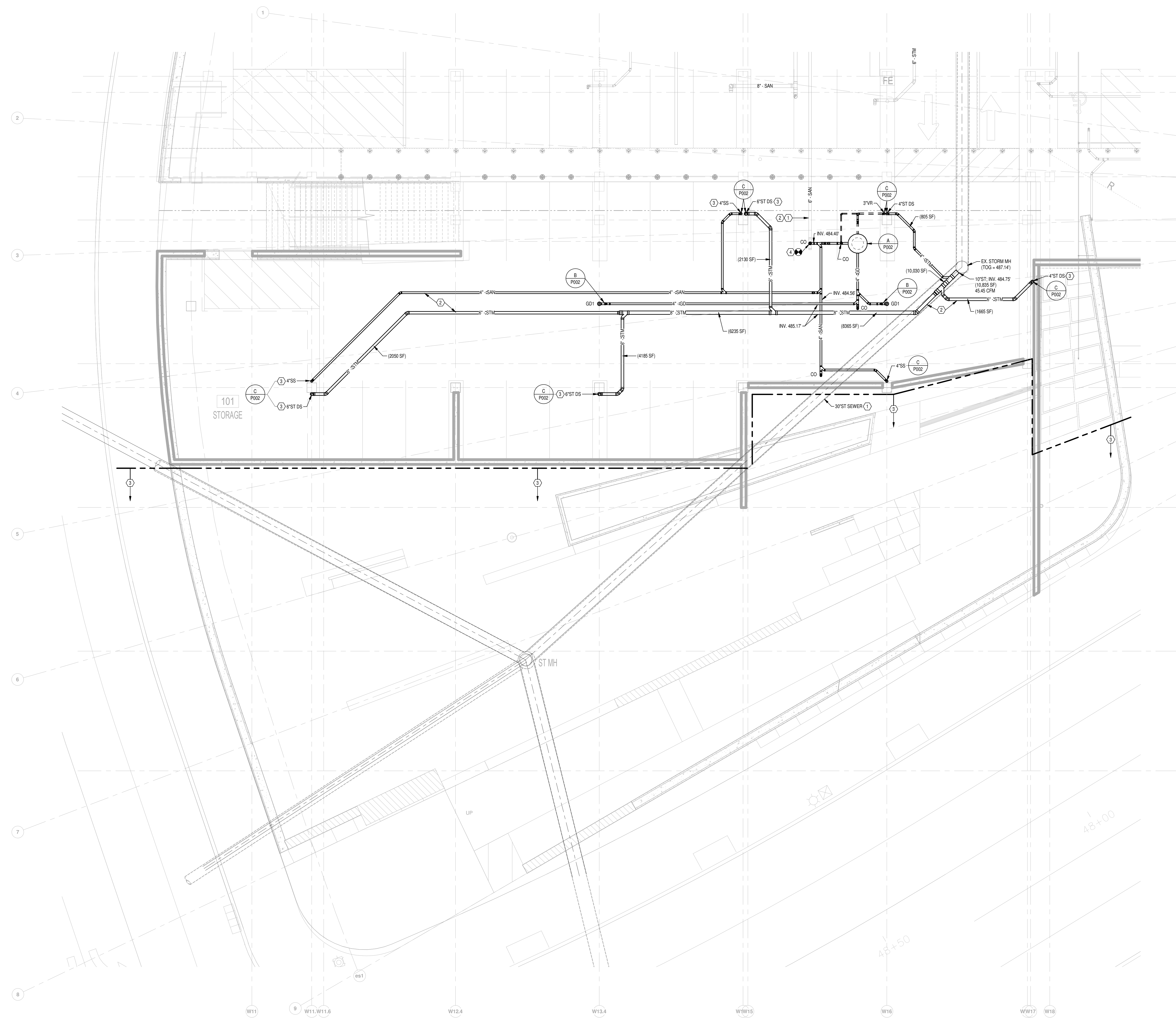


LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
UNDERGROUND  
PLUMBING PLAN  
JOB NUMBER 98090.40 DATE 11/05/2021  
DRAWING NUMBER P100

**PLAN NOTES**

- EXISTING PIPING TO REMAIN.
- ALL PIPING SHOWN IS LOCATED BELOW GARAGE FLOOR SLAB.
- EXTEND PIPING 1'-0" AFF AND TEMPORARILY CAP FOR FUTURE CONNECTION.
- PROVIDE CONNECTION TO EXISTING SANITARY PIPE SUB-VERTICAL CLEANOUT PROVIDED IN PREVIOUS WORK.
- SOUTH OF THIS DASHED LINE, REFER TO SITE / CIVIL DRAWINGS FOR FURTHER DRAINAGE SCOPE OF WORK ASSOCIATED WITH SLOPED WALKWAYS, PIT DRAINS, ETC.



**1 PLUMBING LOWER LEVEL PLAN (LOT 28)**  
SCALE: 1/8" = 1'-0"  
0 8 16 32 48



HAMILTON COUNTY  
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AND INFRASTRUCTURE  
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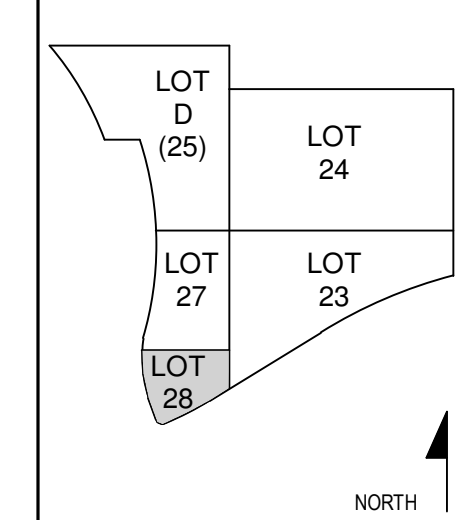


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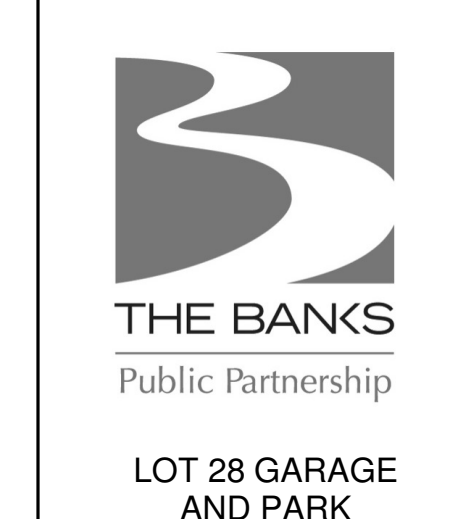
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NO.	DATE	DESCRIPTION
1	11/05/2021	ISSUE FOR PERMIT



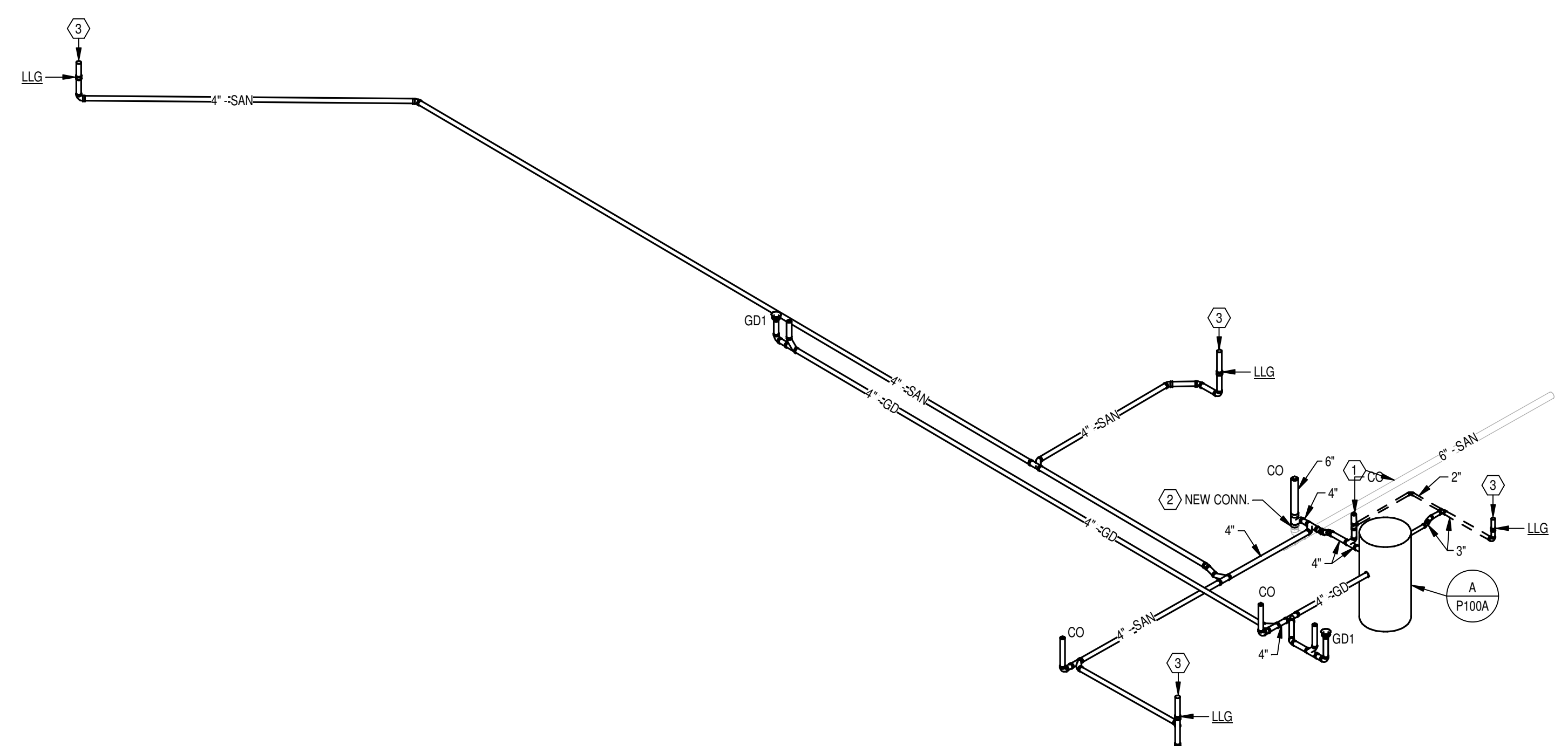
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CHECKED BY: DNM



LOT 28 GARAGE  
AND PARK

DRAWING TITLE  
SANITARY DIAGRAM  
JOB NUMBER 98090.40 DATE 11/05/2021  
DRAWING NUMBER P200

- PLAN NOTES**
- EXISTING PIPING TO REMAIN.
  - PROVIDE CONNECTION TO EXISTING SANITARY PIPE SUB/VERTICAL CLEANOUT PROVIDED IN PREVIOUS WORK.
  - EXTEND PIPING 1'-0" AFF AND TEMPORALLY CAP FOR FUTURE CONNECTION.



**1 SANITARY DIAGRAM - LOT 28**  
SCALE: NONE