DEPARTMENT OF PUBLIC WORKS
AND ENVIRONMENTAL SERVICES
BUILDING DESIGN AND CONSTRUCTION DIVISION
12000 Government Center Parkway, Suite 449
Fairfax, Virginia 22035-0052
Telephone: 703-324-5800 FAX: 703-324-4365

COUNTY OF FAIRFAX
VIRGINIA

ADDENDUM N0. 1

HERNDON STATION METRO GARAGE
CONTRACT NO.CN16100006
PROJECT NO. TF-000020-001

This addendum consists of total (24) pages, including sketches, specification and clarifications as noted below.

This addendum is supplementary to the contract documents for the Herndon Station Metro Garage in Herndon, Virginia.

All revisions, additions or deletions included herein as Addendum No. 1 shall become a part of the Contract Documents as if originally called for in the Drawings, Specifications and Form of Bid.

Contents of Addendum No.1:

	DOCUMENT	DESCRIPTION
1.1	Advertisement for Bid	**Revise the fifth paragraph to read as follows:** Bids are to be submitted to the Director, Building Design and Construction Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 449, Fairfax, Virginia 22035-0052 until 2:00 p.m., prevailing local time, August 4, 2016. Bids received after that time will not be accepted. Bids will be opened publicly and read aloud at 2:05 p.m., August 4, 2016, in the Fourth Floor Conference Room, Suite 449, 12000 Government Center Parkway, Fairfax, Virginia 22035-0052.
1.2	Advertisement for Bid	**Revise the tenth paragraph to read as follows** All questions concerning the project shall be submitted to the Director, Building Design and Construction Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 449, Fairfax, Virginia 22035-0052, Fax Number 703-324-4365, e-mail address building@fairfaxcounty.gov, and to be given consideration must be **received by 5:00 p.m., prevailing local time, July 21, 2016.** This office is the only point where information will be disseminated. Bid-RFIs/ Contractor Questions received after this time/date indicated above may not be answered prior to bid day.

	DRAWINGS	
1.3	10A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.4	12A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.5	13A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.6	15A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.7	16A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.8	18A of 61	Added note to Coordinate all work and activities with MWAA during construction.
1.9	A-2.8	Added millwork details 10 and 11.
1.10	A-4.7	Added millwork counter to room 107 FCDOT Office.
1.11	PK-2.01	Revised demo note to refer to SD sheets. Note revised in two locations.
1.12	S-1.00	Removed external CIP retaining wall north of Grid A/9.
1.13	S-1.10	Removed external CIP retaining wall north of Grid A/9.
1.14	E-4.10	Removed references to emergency phone system.
1.15	E-4.11	Removed references to emergency phone system.
1.16	E-4.20	Removed references to emergency phone system.
1.17	E-4.30	Removed references to emergency phone system.
1.18	E-6.1	Removed references to emergency phone system.
1.19	E-6.5	Removed references to emergency phone system.
	RFIs	
1.20	Pre-Bid RFIs	Contractor submitted RFIs with Owner/Architect/Engineer responses for Contractor's review and use in preparing base bid, (5) pages. Responses provided are for clarification purpose only. In case of conflict or inconsistency between the responses and Contract Documents, the Contract Documents shall govern.

END OF ADDENDUM No. 1

Bidders are required to acknowledge receipt of all addenda on Page B-2 of the Form of Bid, Section B. Failure to indicate receipt of any addenda may be cause for rejection of Bid.

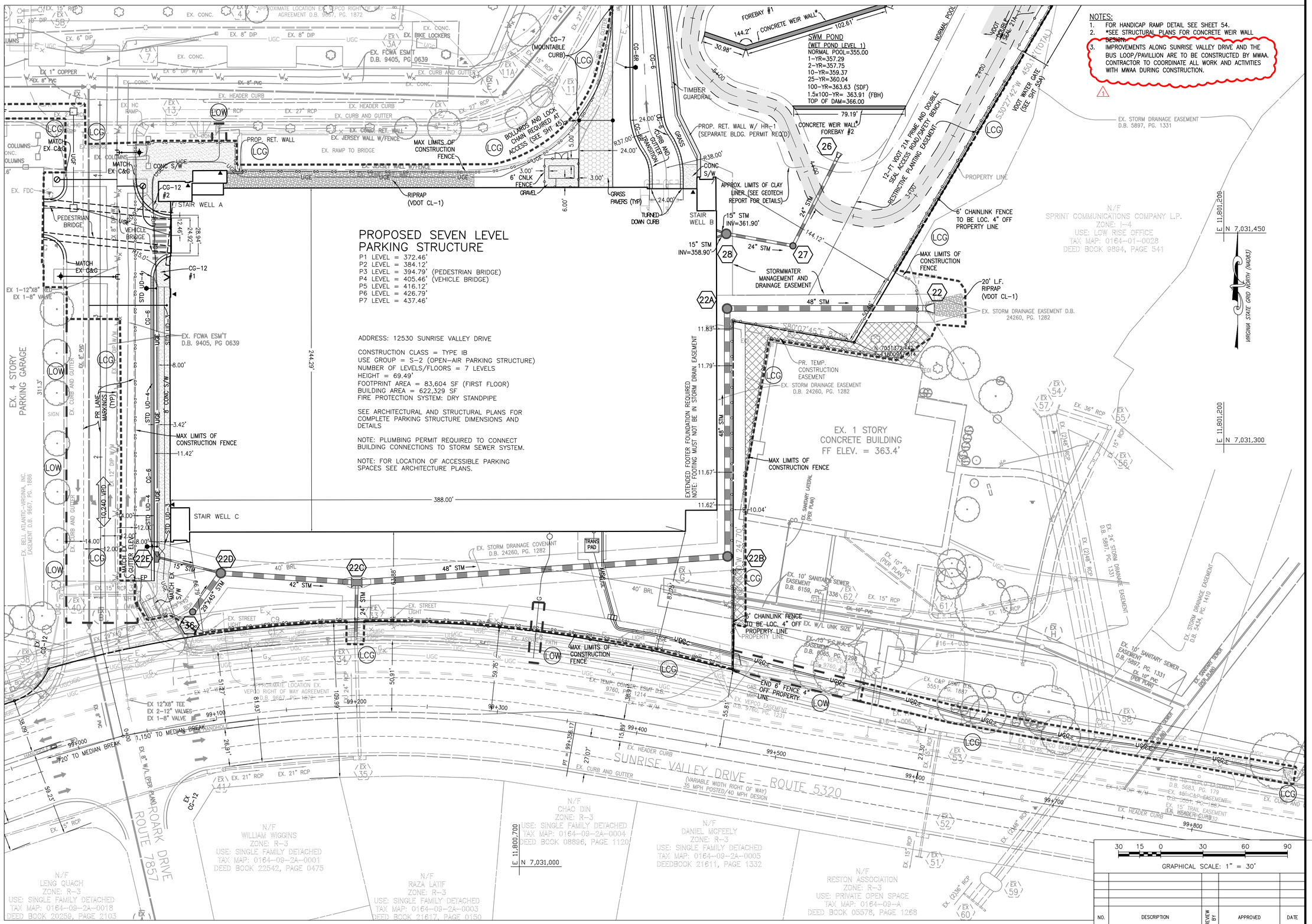
COUNTY OF FAIRFAX, VIRGINIA

By: _____
Carey F. Needham, Director
Building Design and Construction Division

Dated:_____

MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 12A



NOTES:
1. FOR HANDICAP RAMP DETAIL SEE SHEET 54.
2. *SEE STRUCTURAL PLANS FOR CONCRETE WEIR WALL DESIGN.
3. IMPROVEMENTS ALONG SUNRISE VALLEY DRIVE AND THE BUS LOOP/PAVILLION ARE TO BE CONSTRUCTED BY MWAA. CONTRACTOR TO COORDINATE ALL WORK AND ACTIVITIES WITH MWAA DURING CONSTRUCTION.

GRAPHICAL SCALE: 1" = 30'

NO.	DESCRIPTION	REVIEW BY	APPROVED	DATE

REVISION APPROVED BY OFFICE OF SITE DEVELOPMENT SERVICES

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Phone: 703-263-1900
www.gordonusa.com

REVISIONS		
NUMBER	DATE	DESCRIPTION
1	7-18-16	ADDENDUM 1

SUR: GORDON DES: HHIG
DRW: HHIG CHK: SPET

SEAL:

SITE PLAN WITH EXISTING SUNRISE VALLEY DRIVE

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30' VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-SP-PRE.DWG
NCS:
NUMBER: 10A OF 61

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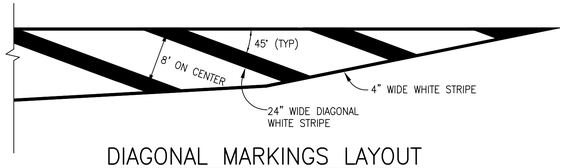
TYPICAL SIGNS

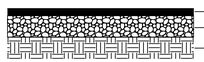
DETAIL
NOT TO SCALE



DIAGONAL MARKINGS LAYOUT

DETAIL
NOT TO SCALE

NOTE:
ADDITIONAL TRAFFIC CALMING MEASURES MAY BE REQUIRED AT THE ENTRANCE TO THE TEMPORARY NW ACCESS.

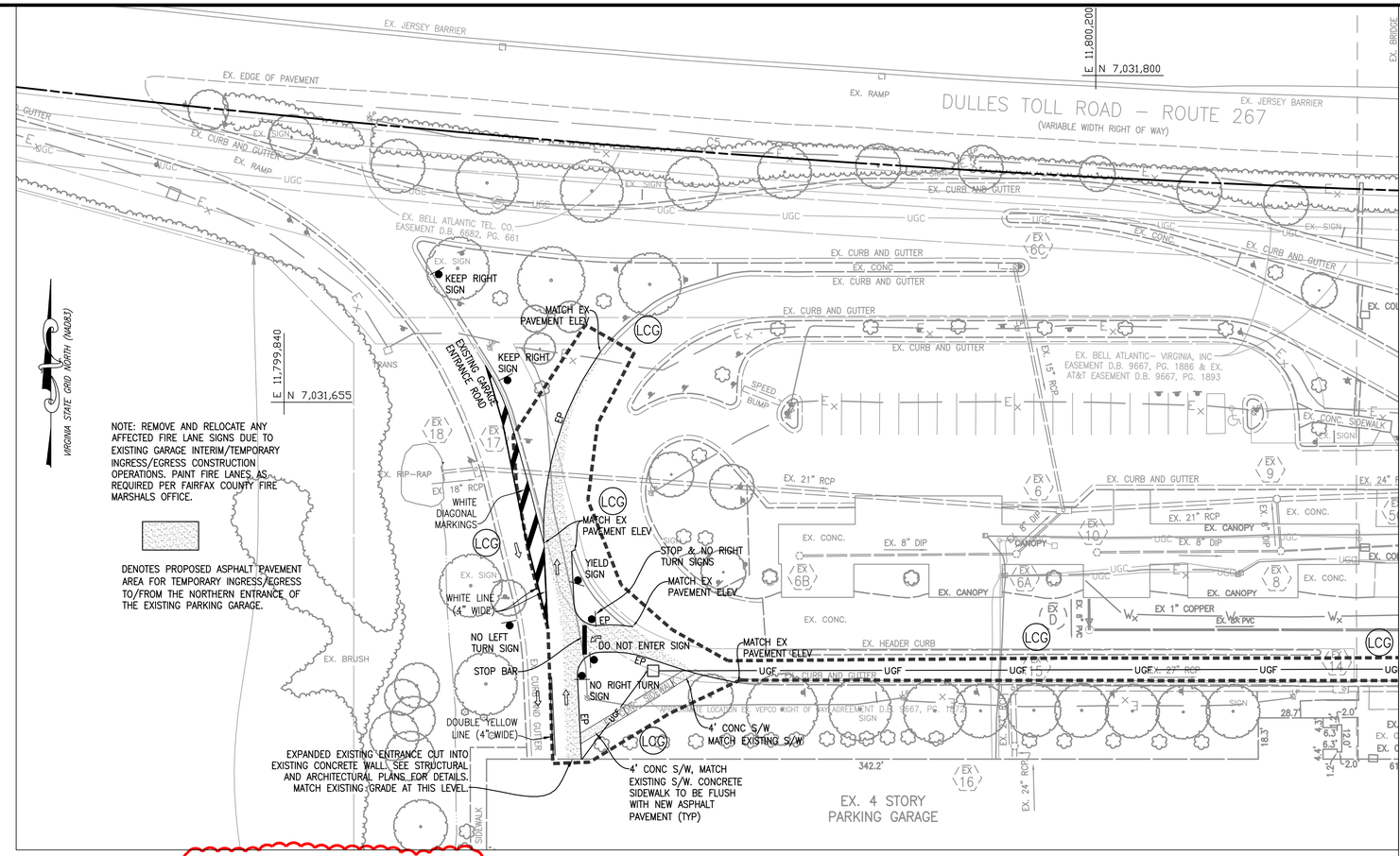


2" SM-9.5 SURFACE COURSE
8" SUBBASE VDOT STD. GR-21B
COMPACTED SUBGRADE (COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT VDOT VTM-1 METHOD)

PAVEMENT DESIGN BASED ON A SUBGRADE CBR DESIGN VALVE OF 10. SOIL TEST OF THE SUBGRADE MUST SUBMITTED FOR ACTUAL DETERMINATION OF REQUIRED PAVEMENT SECTION THICKNESS PRIOR TO CONSTRUCTION.

PAVEMENT SECTION @ TEMPORARY GARAGE ENTRANCE

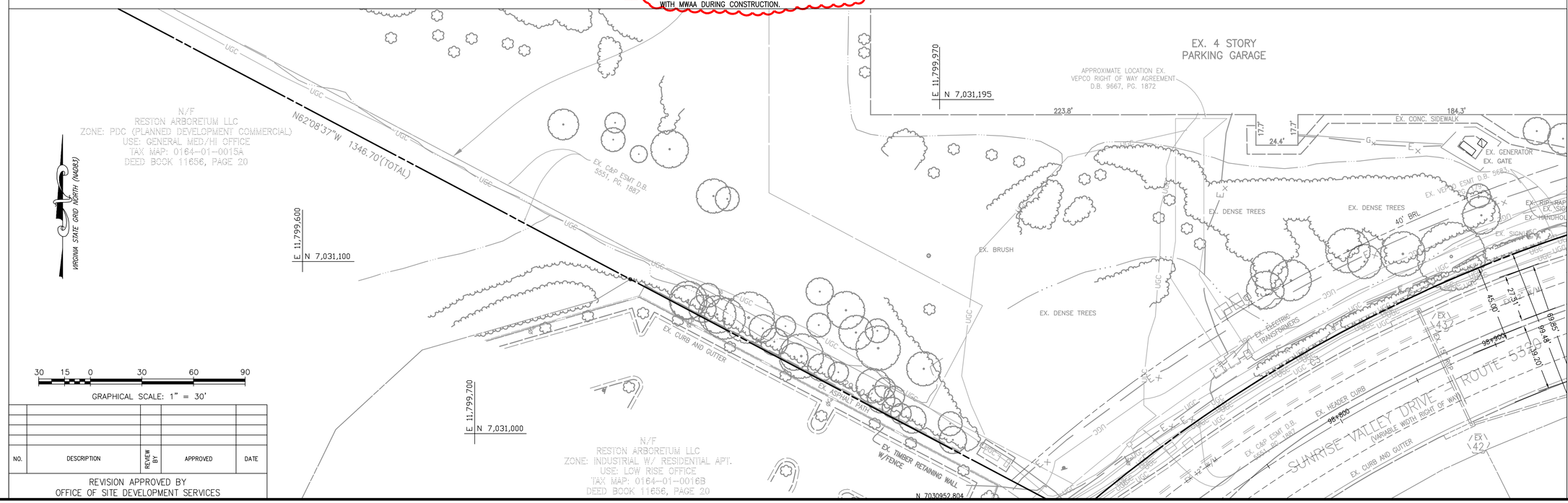
SECTION/DETAIL
NOT TO SCALE



NOTE: REMOVE AND RELOCATE ANY AFFECTED FIRE LANE SIGNS DUE TO EXISTING GARAGE INTERIM/TEMPORARY INGRESS/EGRESS CONSTRUCTION OPERATIONS. PAINT FIRE LANES, AS REQUIRED PER FAIRFAX COUNTY FIRE MARSHALS OFFICE.

DENOTES PROPOSED ASPHALT PAVEMENT AREA FOR TEMPORARY INGRESS/EGRESS TO/FROM THE NORTHERN ENTRANCE OF THE EXISTING PARKING GARAGE.

NOTES:
1. IMPROVEMENTS ALONG SUNRISE VALLEY DRIVE AND THE BUS LOOP/PAVILLION ARE TO BE CONSTRUCTED BY MWAA. CONTRACTOR TO COORDINATE ALL WORK AND ACTIVITIES WITH MWAA DURING CONSTRUCTION.



30 15 0 30 60 90
GRAPHICAL SCALE: 1" = 30'

NO.	DESCRIPTION	REVIEW BY	APPROVED	DATE

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MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 10A

MATCH LINE SEE SHEET 10A

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NUMBER	DATE	DESCRIPTION
1	7-18-16	ADDENDUM 1

SUR: GORDON DES: HHIG
DRW: HHIG CHK: SPET

SEAL:

TEMPORARY NORTHERN EGRESS SITE PLAN WITH EXISTING BUS LOOP

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30'
VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-SP-PRE.DWG
NCS:
NUMBER: 12A OF 61

Gordon

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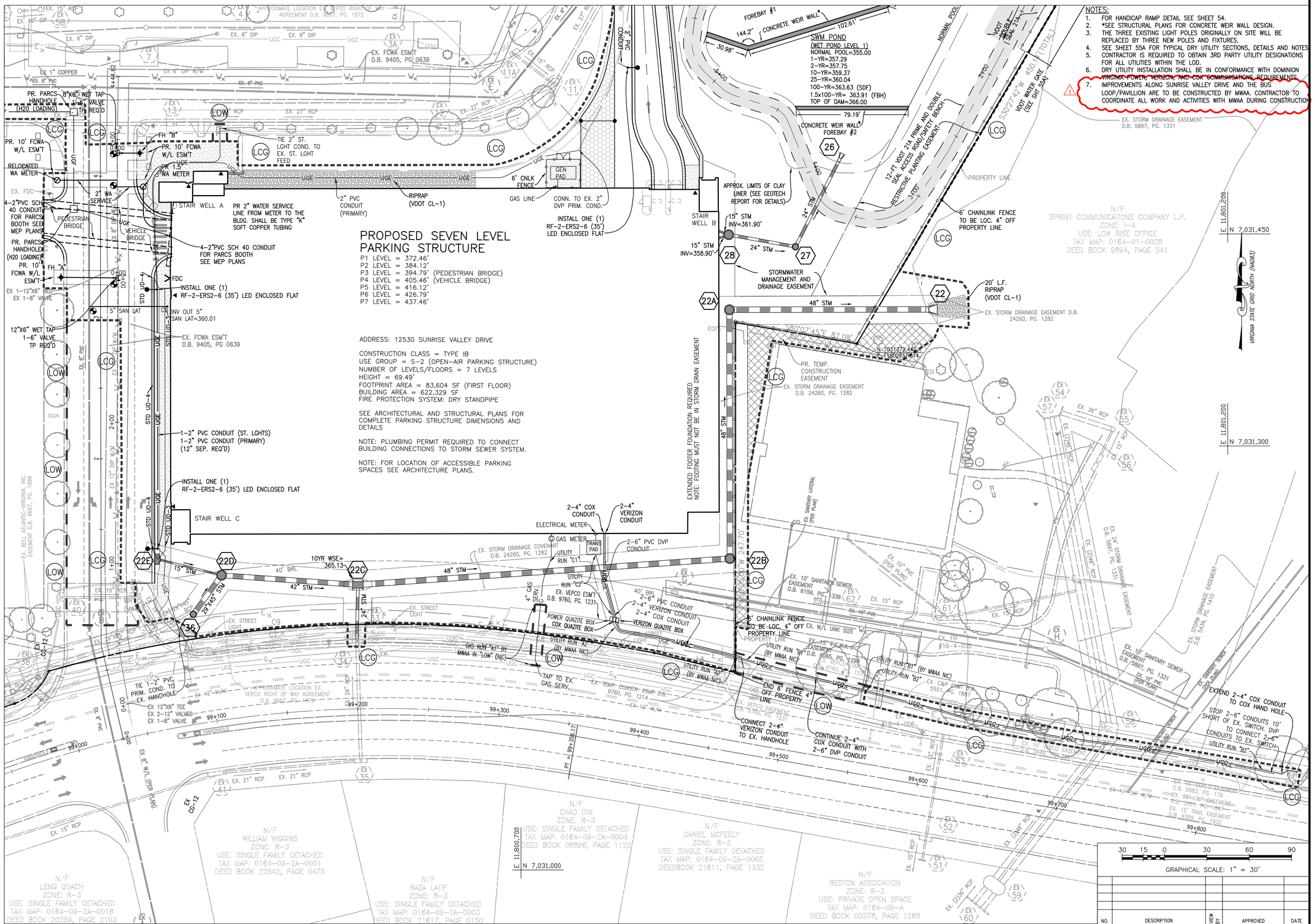
MATCH LINE SEE SHEET 14

MATCH LINE SEE SHEET 15A



NOTES:

1. FOR HANDICAP RAMP DETAIL SEE SHEET 54.
2. *SEE STRUCTURAL PLANS FOR CONCRETE WEIR WALL DESIGN.
3. THE THREE EXISTING LIGHT POLES ORIGINALLY ON SITE WILL BE REPLACED BY THREE NEW POLES AND FIXTURES.
4. SEE SHEET 55A FOR TYPICAL DRY UTILITY SECTIONS, DETAILS AND NOTES
5. CONTRACTOR IS REQUIRED TO OBTAIN 3RD PARTY UTILITY DESIGNATIONS FOR ALL UTILITIES WITHIN THE LOD.
6. DRY UTILITY INSTALLATION SHALL BE IN CONFORMANCE WITH DOMINION VIRGINIA POWER, VERIZON, AND COX COMMUNICATIONS REQUIREMENTS.
7. IMPROVEMENTS ALONG SUNRISE VALLEY DRIVE AND THE BUS LOOP/PAVILLION ARE TO BE CONSTRUCTED BY MWAA. CONTRACTOR TO COORDINATE ALL WORK AND ACTIVITIES WITH MWAA DURING CONSTRUCTION.

GRAPHICAL SCALE: 1" = 30'

NO.	DESCRIPTION	REVIEW BY	APPROVED	DATE

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NUMBER	DATE	DESCRIPTION
1	7-18-16	ADDENDUM 1

SUR: GORDON DES: HHIG
DRW: HHIG CHK: SPET

SEAL:

UTILITY PLAN WITH EXISTING SUNRISE VALLEY DRIVE

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30' VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-UTILITY-PRE.DWG
NCS:
NUMBER: 13A OF 61

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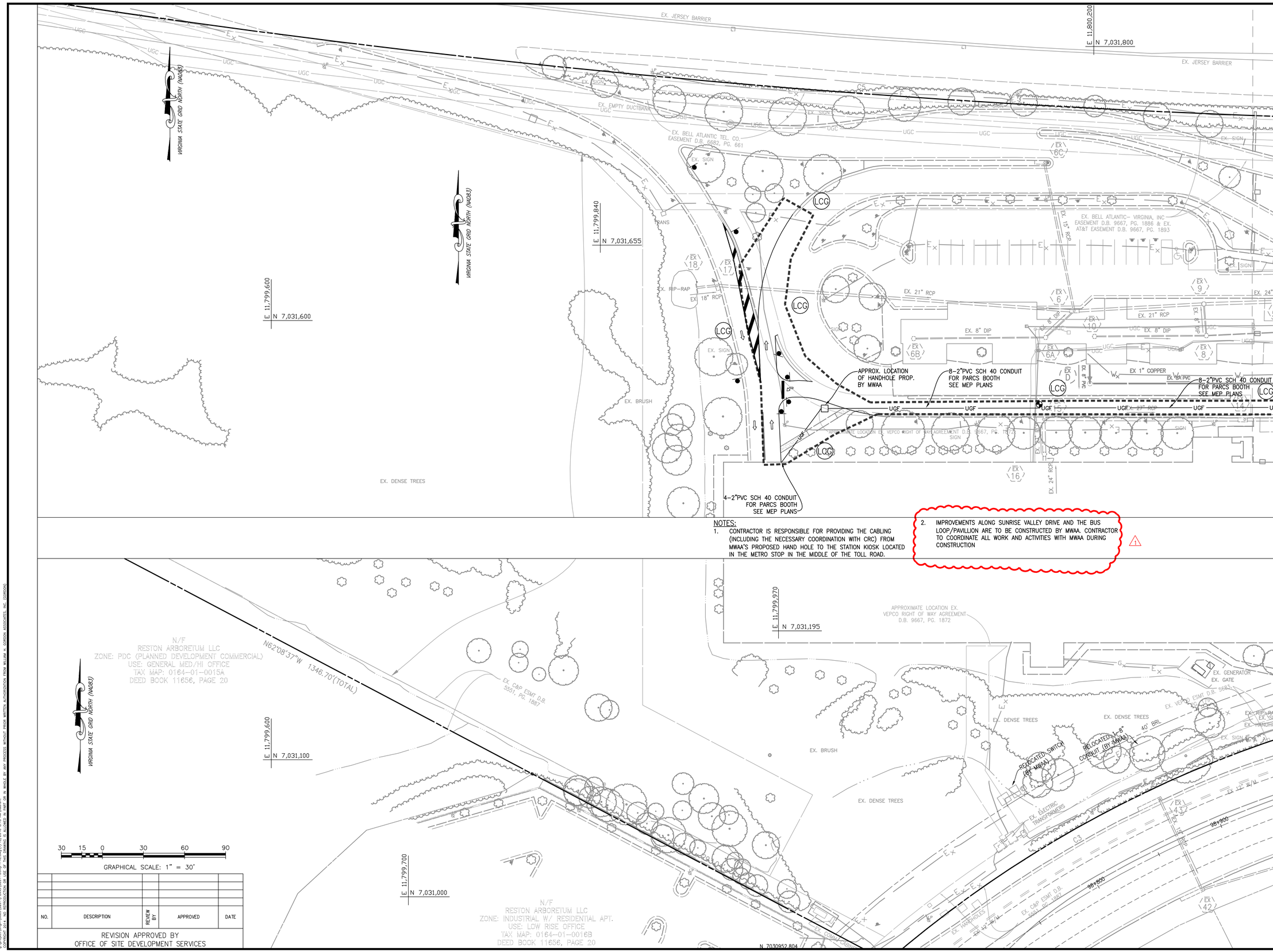

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CABLING (INCLUDING THE NECESSARY COORDINATION WITH CRC) FROM MWAA'S PROPOSED HAND HOLE TO THE STATION KIOSK LOCATED IN THE METRO STOP IN THE MIDDLE OF THE TOLL ROAD.
2. IMPROVEMENTS ALONG SUNRISE VALLEY DRIVE AND THE BUS LOOP/PAVILLION ARE TO BE CONSTRUCTED BY MWAA. CONTRACTOR TO COORDINATE ALL WORK AND ACTIVITIES WITH MWAA DURING CONSTRUCTION

1

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SEAL:

TEMPORARY NORTHERN EGRESS UTILITY PLAN WITH EXISTING BUS LOOP

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30'
VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-UTILITY-PRE.DWG
NCS:
NUMBER: 15A OF 61

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MATCH LINE SEE SHEET 17

MATCH LINE SEE SHEET 18A

NOTES:
1. IMPROVEMENTS ALONG SUNRISE VALLEY DRIVE AND THE BUS LOOP/PAVILLION ARE TO BE CONSTRUCTED BY MWAA. CONTRACTOR TO COORDINATE ALL WORK AND ACTIVITIES WITH MWAA DURING CONSTRUCTION.

CONTRACTOR TO VERIFY EX. GRADE & MATCH TO C&G

PEDESTRIAN BRIDGE

VEHICLE BRIDGE

STAIR WELL A

STAIR WELL B

STAIR WELL C

ADA ROUTE

CROSS SLOPE OF S/W NOT TO EXCEED 2%

PROPOSED SEVEN LEVEL PARKING STRUCTURE

P1 LEVEL = 372.46'
P2 LEVEL = 384.12'
P3 LEVEL = 394.79' (PEDESTRIAN BRIDGE)
P4 LEVEL = 405.46' (VEHICLE BRIDGE)
P5 LEVEL = 416.12'
P6 LEVEL = 426.79'
P7 LEVEL = 437.46'

ADDRESS: 12530 SUNRISE VALLEY DRIVE

CONSTRUCTION CLASS = TYPE IB
USE GROUP = S-2 (OPEN-AIR PARKING STRUCTURE)
NUMBER OF LEVELS/FLOORS = 7 LEVELS
HEIGHT = 69.49'
FOOTPRINT AREA = 83,604 SF (FIRST FLOOR)
BUILDING AREA = 622,329 SF
FIRE PROTECTION SYSTEM: DRY STANDPIPE

SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR COMPLETE PARKING STRUCTURE DIMENSIONS AND DETAILS

NOTE: PLUMBING PERMIT REQUIRED TO CONNECT BUILDING CONNECTIONS TO STORM SEWER SYSTEM.

NOTE: FOR LOCATION OF ACCESSIBLE PARKING SPACES SEE ARCHITECTURE PLANS.

EXTENDED FOOTER FOUNDATION REQUIRED
NOTE: FOOTING MUST NOT BE IN STORM DRAIN EASEMENT

10' AQUATIC BENCH

TOP OF DAM 12

TOP OF DAM 16

PROPERTY LINE

N/F
SPRINT COMMUNICATIONS COMPANY L.P.
ZONE: I-4
USE: LOW RISE OFFICE
TAX MAP: 0164-01-0028
DEED BOOK 9894, PAGE 541

EX. 10' SANITARY SEWER EASEMENT D.B. 6150, PG. 1336

EX. 10' SANITARY SEWER EASEMENT D.B. 8897, PG. 1331

E 11,801,200 N 7,031,450

E 11,801,200 N 7,031,300

VIRGINIA STATE GRID NORTH (NAD83)

E 11,800,700 N 7,031,000

PT = 99+356.17

SUNRISE VALLEY DRIVE -- ROUTE 5320
(VARIABLE WIDTH RIGHT OF WAY)
35 MPH POSTED/40 MPH DESIGN

N/F
LENG QUACH
ZONE: R-3
USE: SINGLE FAMILY DETACHED
TAX MAP: 0164-09-2A-0018
DEED BOOK 20259, PAGE 2103

N/F
WILLIAM WIGGINS
ZONE: R-3
USE: SINGLE FAMILY DETACHED
TAX MAP: 0164-09-2A-0001
DEED BOOK 22542, PAGE 0475

N/F
RAZA LATIF
ZONE: R-3
USE: SINGLE FAMILY DETACHED
TAX MAP: 0164-09-2A-0003
DEED BOOK 21617, PAGE 0150

N/F
CHAO DIN
ZONE: R-3
USE: SINGLE FAMILY DETACHED
TAX MAP: 0164-09-2A-0004
DEED BOOK 08896, PAGE 1120

N/F
DANIEL MCFEELY
ZONE: R-3
USE: SINGLE FAMILY DETACHED
TAX MAP: 0164-09-2A-0005
DEEDBOOK 21611, PAGE 1332

N/F
RESTON ASSOCIATION
ZONE: R-3
USE: PRIVATE OPEN SPACE
TAX MAP: 0164-09-A
DEED BOOK 05578, PAGE 1268

GRAPHICAL SCALE: 1" = 30'

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REVISIONS		
NUMBER	DATE	DESCRIPTION
1	7-18-16	ADDENDUM 1

SUR: GORDON DES: HHIG
DRW: HHIG CHK: SPET

SEAL:

GRADING PLAN WITH EXISTING SUNRISE VALLEY DRIVE

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30'
VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-GP-PRE.DWG
NCS:
NUMBER: 16A OF 61

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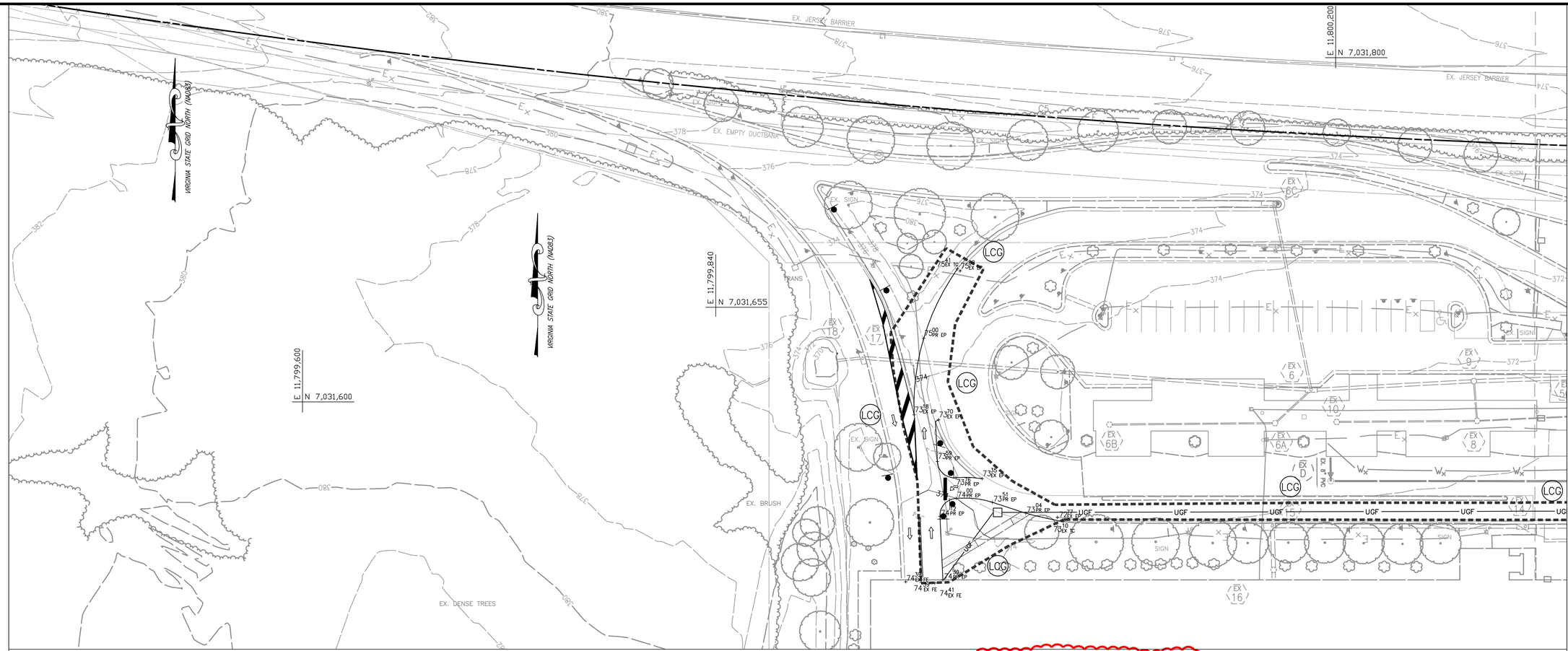

NOTES:
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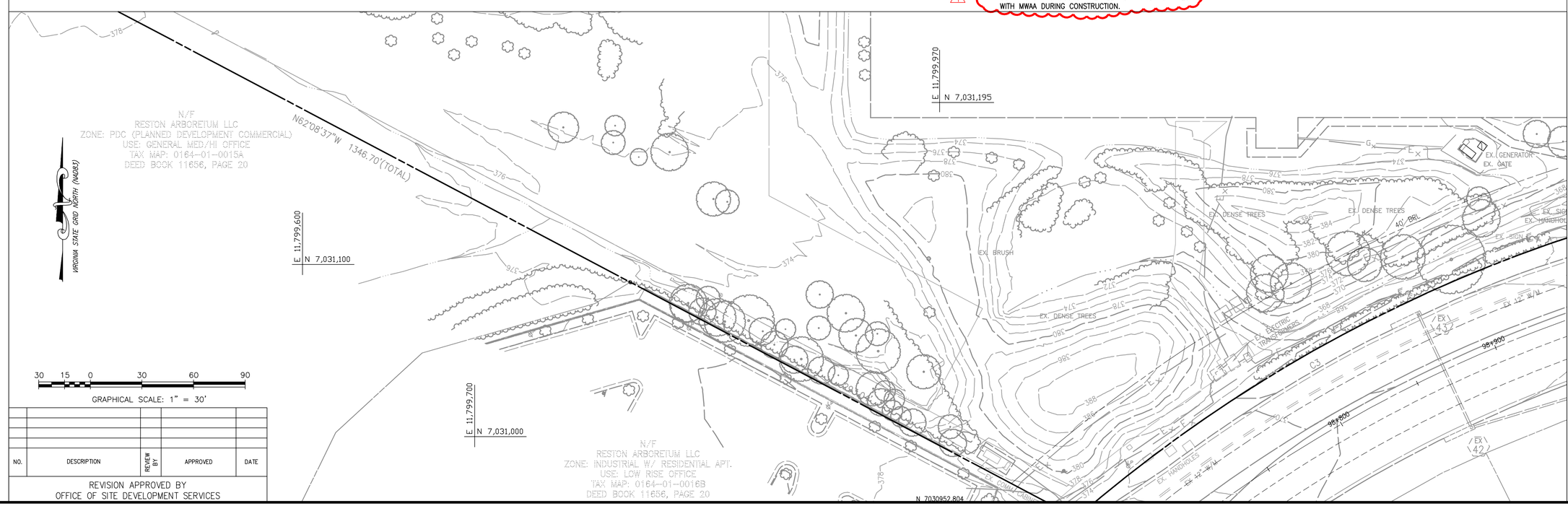

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GRAPHICAL SCALE: 1" = 30'

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1	7-18-16	ADDENDUM 1

SUR: GORDON DES: HHIG
DRW: HHIG CHK: SPET

SEAL:

TEMPORARY NORTHERN EGRESS GRADING PLAN WITH EXISTING BUS LOOP

HERNDON STATION METRO GARAGE

HUNTER MILL DISTRICT
FAIRFAX COUNTY, VIRGINIA

SCALE: HORIZONTAL: 1" = 30'
VERTICAL: N/A
DATE: JUNE 3, 2016
PLAN: BID SET
JOB: 3023-0201
CADD: 0201-GP-PRE.DWG
NCS:
NUMBER: 18A OF 61

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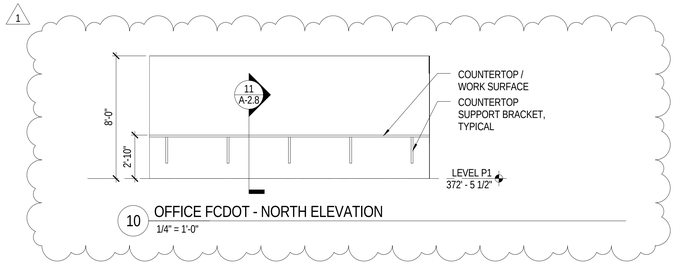
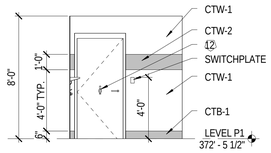
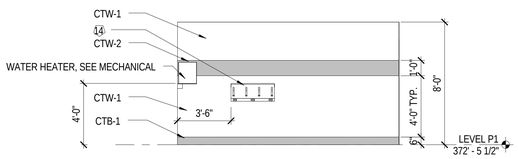


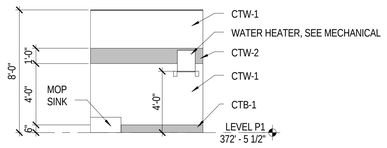
10 OFFICE FCDOT - NORTH ELEVATION
1/4" = 1'-0"



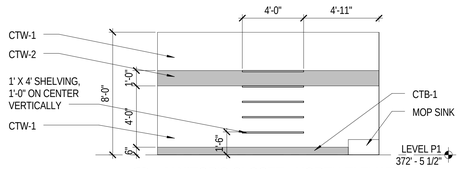
9 JANITOR'S CLOSET - WEST ELEVATION
1/4" = 1'-0"



8 JANITOR'S CLOSET - SOUTH ELEVATION
1/4" = 1'-0"

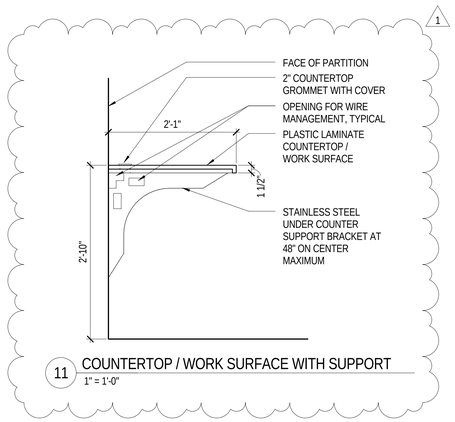


7 JANITOR'S CLOSET - EAST ELEVATION
1/4" = 1'-0"

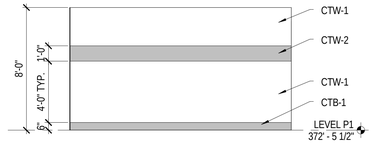


6 JANITOR'S CLOSET - NORTH ELEVATION
1/4" = 1'-0"

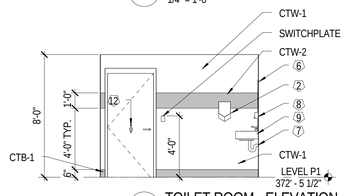
NOTE: BACKER BOARD SHALL BE PROVIDED FOR CLOSET SHELVING AS NEEDED.



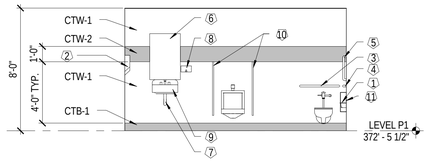
11 COUNTERTOP / WORK SURFACE WITH SUPPORT
1" = 1'-0"



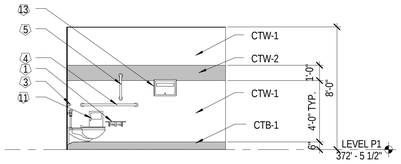
5 TOILET ROOM - ELEVATION
1/4" = 1'-0"



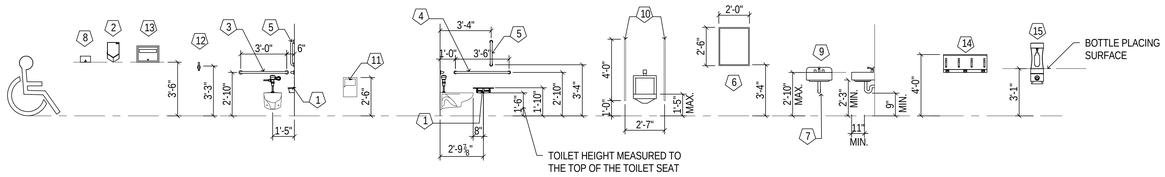
4 TOILET ROOM - ELEVATION
1/4" = 1'-0"



3 TOILET ROOM - ELEVATION
1/4" = 1'-0"



2 TOILET ROOM - ELEVATION
1/4" = 1'-0"



1 ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

TOILET ACCESSORIES

NO.	DESCRIPTION	REMARKS
1	TOILET PAPER DISPENSER WITH SHELF (DOUBLE ROLL)	SURFACE MOUNTED
2	AUTOMATIC ELECTRIC HAND DRYER	SURFACE MOUNTED
3	36" GRAB BAR	SURFACE MOUNTED
4	42" GRAB BAR	SURFACE MOUNTED
5	18" GRAB BAR	SURFACE MOUNTED
6	MIRROR	1/4" GLASS WITH STAINLESS STEEL FRAME (TILT FOR ADA)
7	INSULATION WRAP	UNDER LAVATORY PROTECTOR
8	LIQUID SOAP DISPENSER	SURFACE MOUNTED
9	SINK	SURFACE MOUNTED
10	URINAL PARTITIONS	SURFACE MOUNTED
11	SANITARY NAPKIN DISPOSAL	WALL MOUNTED
12	COAT HOOK	WALL MOUNTED
13	SEAT COVER DISPENSER	WALL MOUNTED
14	MOP HOLDER	WALL MOUNTED
15	WATER FILLING STATION	WALL MOUNTED

NOTE: SEE SPEC SECTION 102800 FOR TOILET AND BATH ACCESSORIES.
NOTE: BACKER BOARD SHALL BE PROVIDED FOR ACCESSORY MOUNTING AS NEEDED.

0' 2' 4' 8' 16'
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET A-6.2 FOR MATERIAL SCHEDULE

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

NO	DESCRIPTION	DATE
1	ADDENDUM 1	7-18-16

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

INTERIOR ELEVATIONS

DATE: JUNE 3, 2016

BID SET

A-2.8

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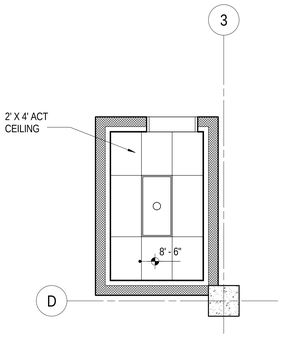
LEGEND

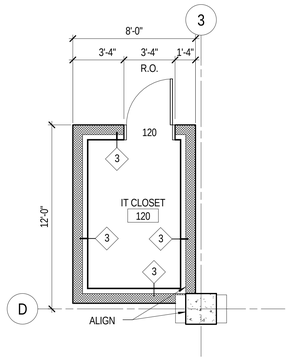
ROOM ROOM XXX	ROOM NAME AND NUMBER	WALL TYPE	SPOT ELEVATION
XXX	DOOR NUMBER	ELEVATION	
#	WINDOW TYPE	ELEVATION	

GENERAL NOTES

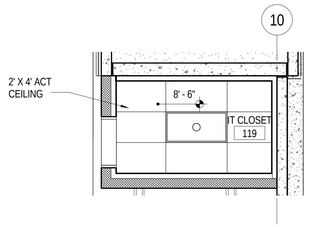
1. SEE SHEET A-6.2 FOR PARTITION TYPES
2. SEE SHEET A-6.1 FOR DOOR SCHEDULE
3. SEE SHEET A-6.2 FOR FINISH SCHEDULE
4. SEE SHEET PK-1.10 FOR BOLLARD DETAILS



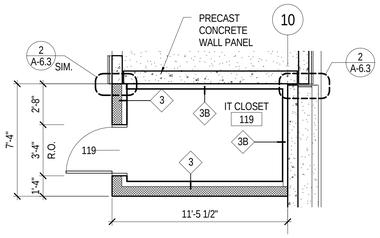
7 REFLECTED CEILING PLAN - P1 LEVEL IT CLOSET
1/4" = 1'-0"



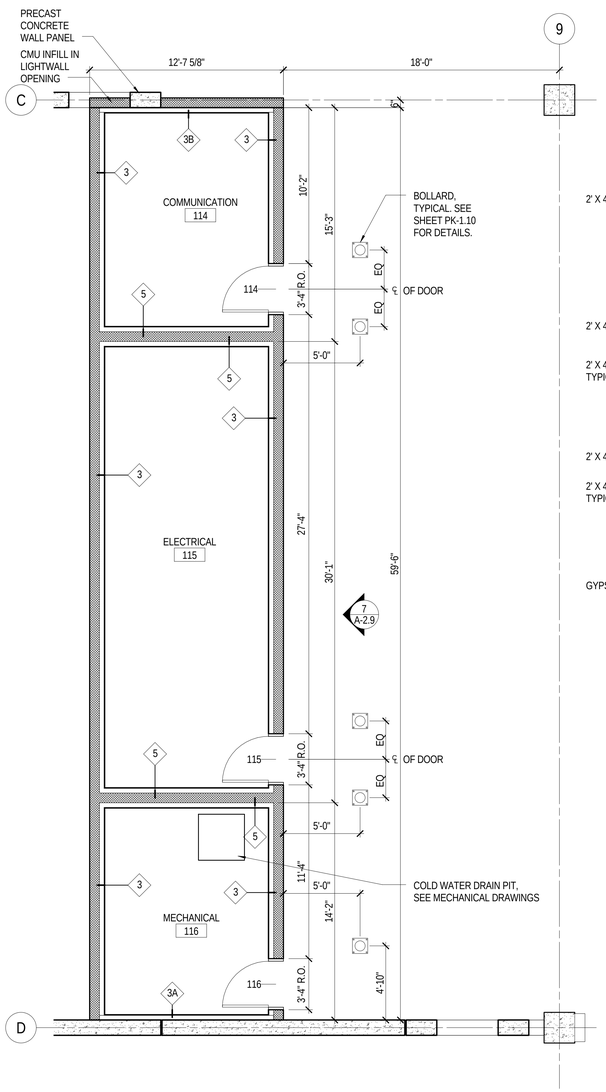
6 PLAN - P1 LEVEL IT CLOSET
1/4" = 1'-0"



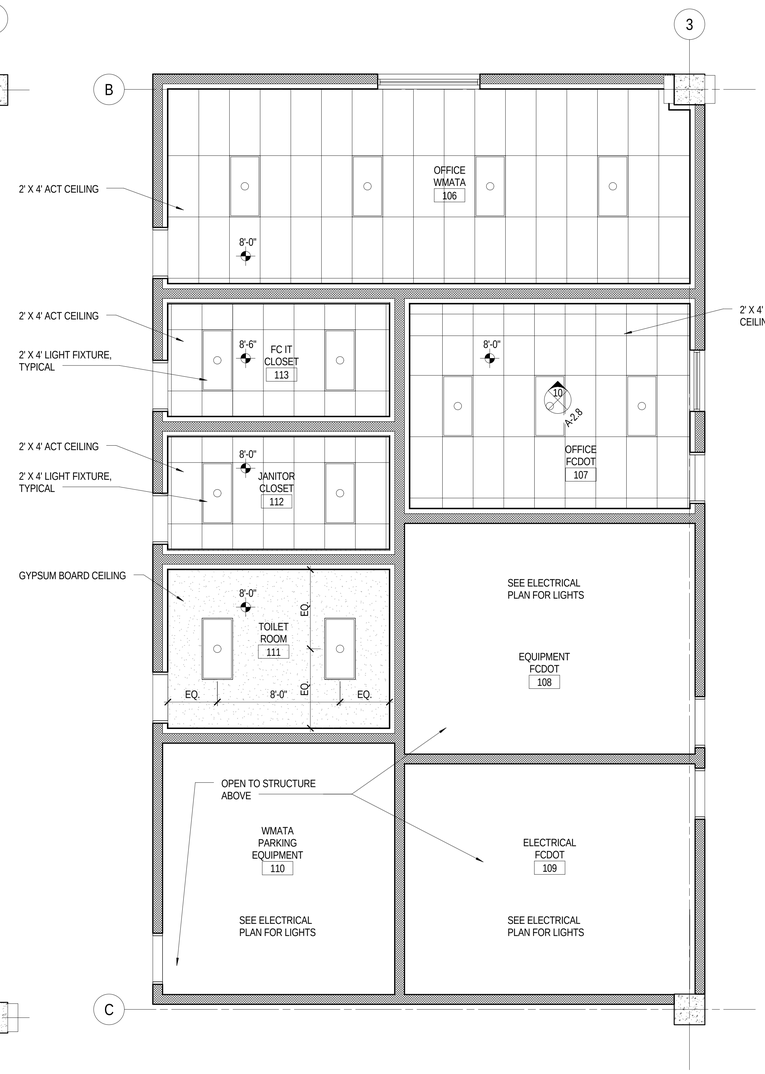
5 REFLECTED CEILING PLAN - P1 LEVEL IT CLOSET
1/4" = 1'-0"



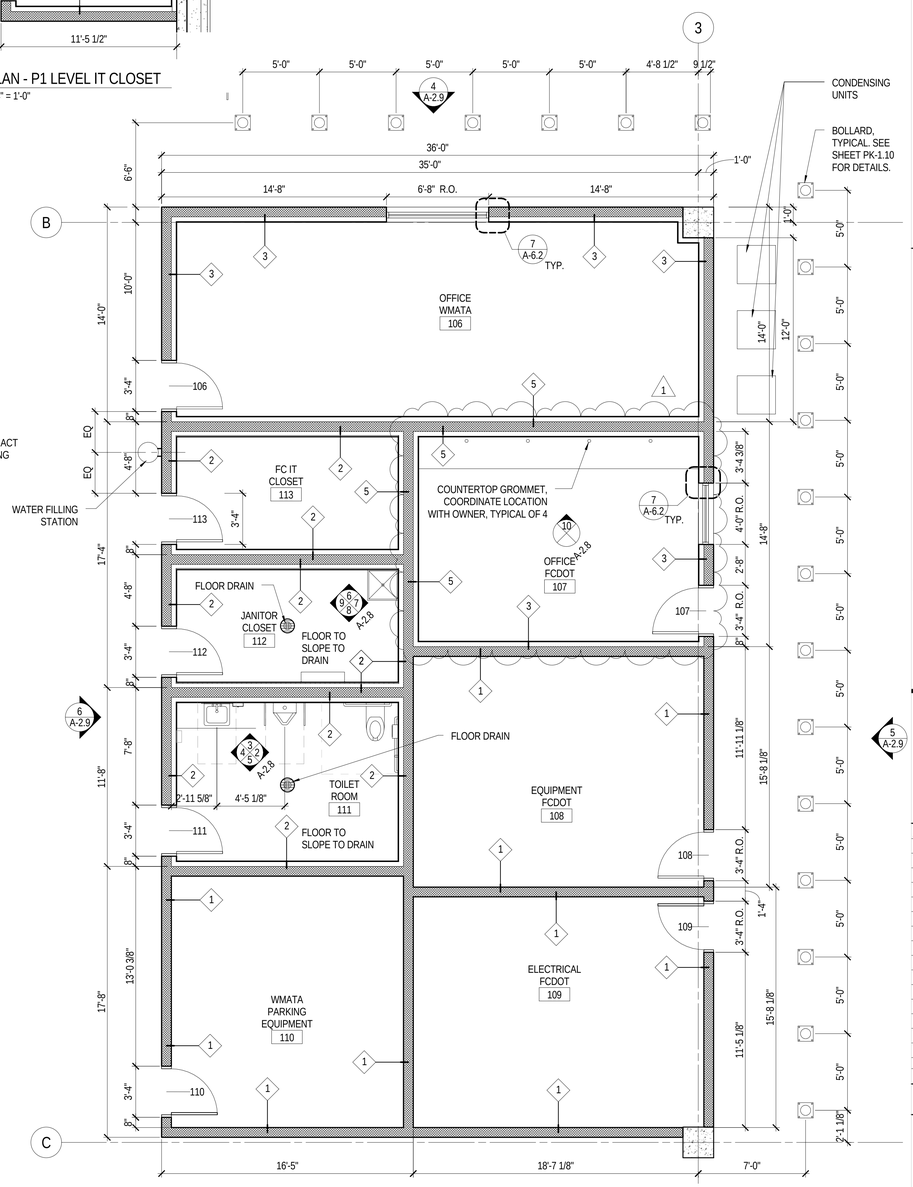
4 PLAN - P1 LEVEL IT CLOSET
1/4" = 1'-0"



3 P1 LEVEL SUPPORT SPACES
1/4" = 1'-0"



2 REFLECTED CEILING PLAN - P1 LEVEL SUPPORT SPACES
1/4" = 1'-0"



1 P1 LEVEL SUPPORT SPACES
1/4" = 1'-0"

0' 2' 4' 8' 16'
SCALE: 1/4" = 1'-0"

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

NO	DESCRIPTION	DATE
1	ADDENDUM 1	7-18-16

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

ENLARGED PLANS

DATE: JUNE 3, 2016

BID SET

A-4.7

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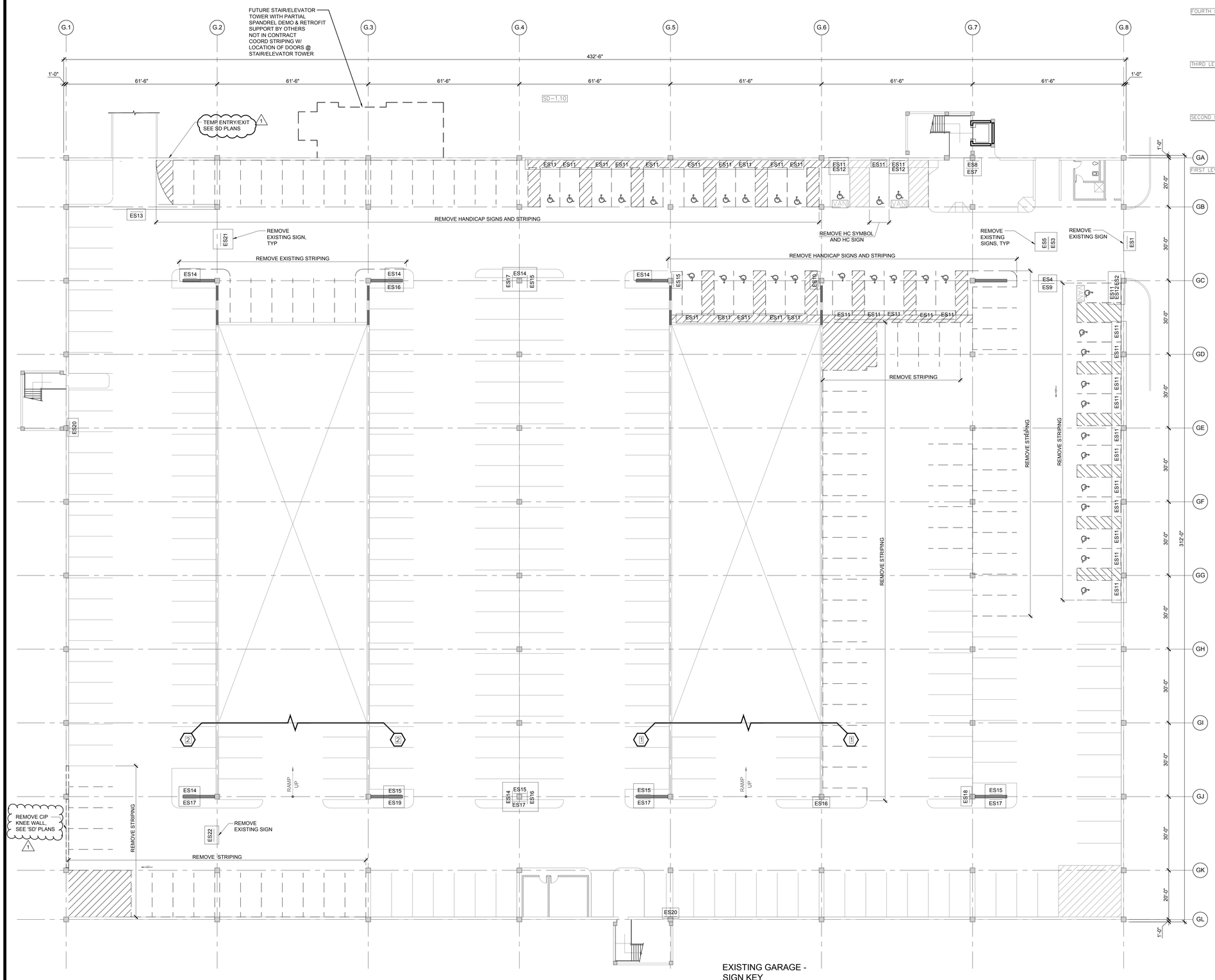
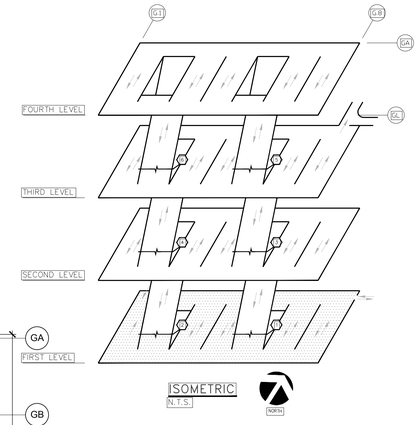


1 FIRST LEVEL PLAN

1/16" = 1'-0"



EXISTING GARAGE - SIGN KEY

(TYPICAL ALL TIERS)

ES10 — MARK (SEE SIGN SCHEDULE)

FACE OF SIGN

NOTE: SEE SHEETS PK-3.01 & PK-3.10 FOR SIGN SCHEDULE & GRAPHICS DETAILS.

EXISTING CAR COUNT

8'-6" 90° STANDARD SPACE

TIER	STANDARD	COMPACT	CAR ACCESSIBLE	VAN ACCESSIBLE	TOTAL
FIRST	302	0	32	3	337
SECOND	439	0	0	0	439
THIRD	438	0	0	0	438
FOURTH	449	0	0	0	449
TOTAL	1628	0	32	3	1663

SHEET NOTES:

1. SEE SHEET PK-3.01 FOR EXISTING GARAGE SIGNAGE SCHEDULE.
2. REMOVE ALL EXISTING SIGNAGE NOTED & RETURN TO OWNER.
3. SEE STRIPING SPECIFICATION FOR STRIPING REMOVAL PROCEDURE.
4. STRIPING NOT IDENTIFIED TO BE REMOVED SHALL BE POWER-WASHED IN PREPARATION FOR RESTRIPING. SEE PAVEMENT MARKING SPECIFICATION FOR POWER-WASHING REQUIREMENTS. COORDINATE WITH RESTRIPING ON PK-2.1X SERIES OF DRAWINGS. SEE SPECIFICATION FOR COORDINATION WITH EXISTING TRAFFIC BEARING WATERPROOF MEMBRANE SYSTEM.

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COMMONWEALTH OF VIRGINIA
DAMIAN J. TARKIN
LICENSE NO. 039998
07/18/2016
PROFESSIONAL ENGINEER

NO	DESCRIPTION	DATE
1	ADDENDUM 1	7-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

EX-GARAGE 1ST LEVEL GRAPHICS DEMO PLAN

DATE: JUNE 3, 2016

BID SET

PK-2.01

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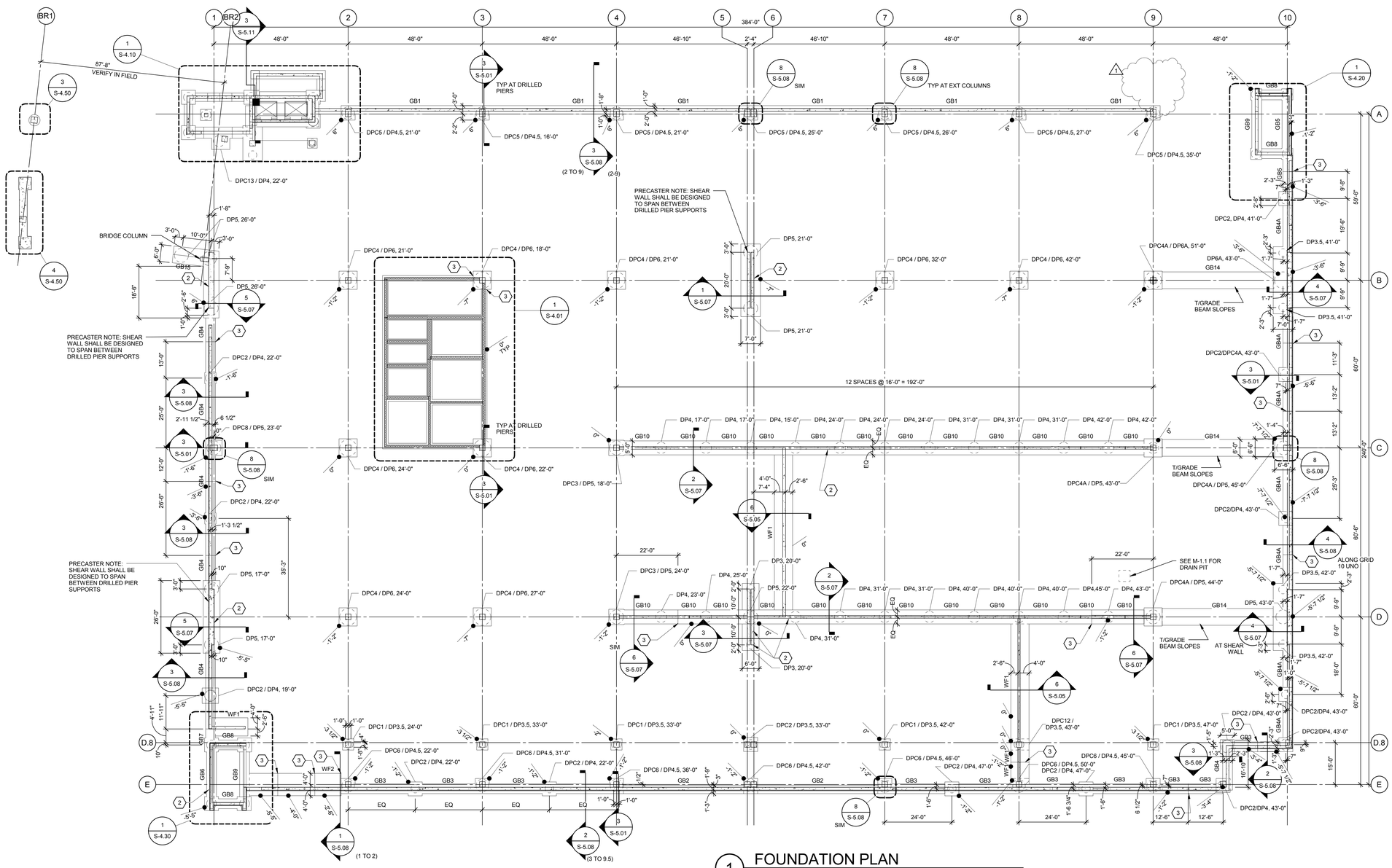


1 FOUNDATION PLAN

1/16" = 1'-0"

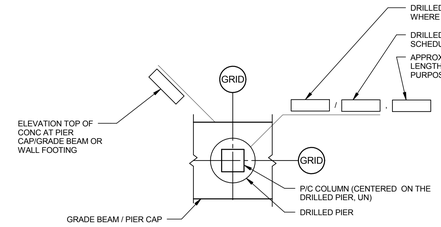
WALL FOOTING SCHEDULE					
Mark	Width (ft)	Depth (ft)	Longitudinal Reinf. Top	Longitudinal Reinf. Bottom	Transverse Reinf.
WF1	6'-6"	2'-0"	(6) #5	(6) #5	#5 @ 10" OC (T & B)
WF2	8'-0"	2'-0"	(7) #5	(7) #5	#6 @ 10" OC (T & B)
WF3	5'-6"	2'-0"	(5) #5	(5) #5	#5 @ 10" OC (T & B)

Note: Longitudinal wall footing reinforcement shall be developed into the adjacent pier cap or grade beam.

GRADE BEAM SCHEDULE (SEE 2/S-5.01)

Mark	Width	Depth	Longitudinal Reinforcement Top	Longitudinal Reinforcement Bottom	Side Reinf. (Each Face)	Stirrups - #4 Unless Noted, Spacing Each End	Remarks
GB1	3'-0"	3'-0"	(4) # 10	(4) #9	(3) #5	(3) @ 3", (6) @ 6", REM @ 12" OC	
GB2	3'-0"	3'-0"	(4) #10	(4) #9	(3) #5	(3) @ 3", (6) @ 6", REM @ 12" OC	
GB3	3'-6"	3'-6"	(4) #10	(4) #9	(4) #8	4 Legs: (3) @ 3", (6) @ 6", (6) @ 8", REM @ 12" OC	
GB4	3'-6"	3'-6"	(4) #9	(4) #9	(5) #8	#5, 4 Legs: (3) @ 3" (6) @ 6", (6) @ 8", REM @ 12" OC	
GB4A	3'-6"	3'-6"	(5) #9	(5) #9	(5) #8	See Detail 4/S-5.08 for stirrirup arrangement	See Detail 4/S-5.08
GB5	3'-6"	3'-6"	(5) #9	(5) #9	(5) #8	See Detail 5/S-5.05 for stirrirup arrangement	See Detail 5/S-5.05
GB6	3'-6"	3'-6"	(6) #10	(6) #11	(5) #8	#5, 6 Legs: (3) @ 3", (6) @ 6", (6) @ 8", REM @ 12" OC	
GB7	3'-6"	3'-6"	(6) #10	(4) #9	(5) #8	#5, 4 Legs: (3) @ 3", (6) @ 6", (6) @ 8", REM @ 12" OC	
GB8	3'-6"	3'-6"	(4) #6	(5) #10	(3) #5	(3) @ 3", (6) @ 6", REM @ 12" OC	
GB9	3'-6"	4'-6"	(4) #9	(12) #11 - Bundled in 2 Layers	(5) #5	#5, 4 Legs: (3) @ 3", (6) @ 6", (6) @ 8", REM @ 12" OC	
GB10	5'-0"	4'-0"	(7) #11	(7) #11	(6) #7	#5, 4 Legs: (3) @ 3", (6) @ 6", REM @ 8" OC	
GB11	3'-0"	3'-0"	(3) #8	(3) #8	(3) #5	(3) @ 3", (6) @ 6", REM @ 12" OC	
GB12	3'-0"	3'-0"	(2) #7	(4) #9	(3) #5	(3) @ 3", (6) @ 6", REM @ 12" OC	
GB13	4'-0"	4'-0"	(4) #10	(12) #11 -Bundled in 2 Layers	(3) #5	4 Legs: (3) @ 3", (6) @ 6", REM @ 12" OC	
GB14	6'-0"	3'-6"	(18) # 11	(9) #11	(5) #8	From grade beam face along line 10: #4, 5 legs: (3) @3", (12) @ 8", REM @ 12" OC	Place top reinforcement in two layers of 9 bars. Provide 1 bar diameter spacing between layers.
GB15	6'-0"	5'-0"	(7) #9	(7) #9	(5) #8	7 Legs: (3) @ 3", (6) @ 6", REM @ 9" OC	Provide closed exterior stirrups
GB16	2'-10"	2'-10"	(4) #9	(14) #11 - Bundled in 2 layers	(2) #9	(2) Bundled @ 4" OC (4 LEGS)	See Detail 6/S-5.08, Provide f'c = 6000 psi
GB17	4'-0"	4'-6"	(4) #8	(14) #11 - Bundled in 2 layers	(5) #8	#5, 4 Legs: (3) @ 3", (6) @ 6", REM @ 10" OC	See Detail 2/S-5.02
GB18	4'-0"	4'-0"	(4) #8	(8) #10	(5) #8	4 Legs: (3) @ 3", REM @ 6" OC	See Detail 2/S-5.02
GB19	4'-0"	4'-0"	(4) #9	(6) #11	(5) #8	4 Legs: (3) @ 3", (6) @ 6", REM @ 12" OC	See Detail 1/S-5.02
GB20	4'-0"	4'-0"	(4) #10	(12) #11 - Bundled in 2 layers	(5) #8	4 Legs: (3) @ 3", (6) @ 6", REM @ 12" OC	See Detail 1/S-5.02

Note: Longitudinal grade beam reinforcement shall be developed into the adjacent pier cap or grade beam.



NOTES:

1. WEATHERED ROCK - SOIL BEARING LAYER MAY BE LOCATED AT ELEVATION 312'-0" FT OR ABOVE (SEE GEOTECHNICAL REPORT). TOTAL DRILLED PIER LENGTH MAY VARY FROM WHAT IS INDICATED ON THIS SHEET BASED ON FIELD ESTABLISHED WEATHERED ROCK BEARING LAYER BY THE GEOTECHNICAL ENGINEER OR THEIR ON-SITE REPRESENTATIVE.
2. DRILLED PIERS SHALL EXTEND INTO THE BEARING LAYER PER DETAIL NOTE 3/S-5.01.

2 FOUNDATION LEGEND

3/4" = 1'-0"

GENERAL SHEET NOTES

1. REFER TO SHEET S-0.20 FOR GENERAL NOTES.
2. AT LOCATIONS WHERE PRECAST WALLS ARE SUPPORTED ON FOUNDATIONS, PROVIDE EMBEDDED PLATES IN FOUNDATIONS, COORDINATE WITH PRECAST SUPPLIER. SEE 1/S-5.23.
3. ANCHOR BOLTS, PLATES WITH WELDED ANCHORS, REINFORCING BAR CAGES WITH NMB SPLICES (OR SIMILAR) OR ANY OTHER CONNECTION MATERIALS THAT CONNECT THE P/C MEMBERS TO THE CIP CONCRETE FOUNDATIONS ARE TO BE SUPPLIED BY THE PRECAST SUPPLIER AND INSTALLED BY THE GENERAL CONTRACTOR. BALANCE OF PRECAST CONNECTION MATERIALS REQUIRED ABOVE CIP FOUNDATION ARE TO BE SUPPLIED AND INSTALLED BY PRECAST SUPPLIER. NOTE TO GENERAL CONTRACTOR: COORDINATE WITH PRECAST SUPPLIER TO FULLY UNDERSTAND THE LARGE MAGNITUDE OF THE EMBEDS TO BE INSTALLED AND THE VERY TIGHT TOLERANCES REQUIRED!
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY EXCAVATION BRACING, SHEETING AND SHORING.
5. COORDINATE PENETRATIONS IN GRADE BEAMS, WALL FOOTINGS & PRECAST MEMBERS WITH MEP AND CIVIL DRAWINGS, SHOW PENETRATIONS ON ALL SHOP DRAWINGS. SEE DETAIL 15/S-5.10.
6. INTERCONNECTING GRADE BEAMS AND PILE CAPS SHALL BE FINISHED IN THEIR ENTIRETY BEFORE PRECAST IS ERECTED.
7. FOR UTILITIES NEAR FOUNDATIONS, SEE CIVIL DRAWINGS.
8. SEE CIVIL DRAWINGS FOR EXTERIOR GRADES, UTILITIES, ADJACENT STRUCTURES AND PROPERTY LINES. NOTIFY ENGINEER OF ANY CONFLICTS IMMEDIATELY.
9. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10. SEE DRAWING S-1.10 FOR GRADE SLAB AND SUBGRADE INFORMATION.
11. FOR ANCHOR BOLT REQUIREMENTS, SEE 1/S-5.50.
12. CONTRACTOR TO PROTECT SUBGRADE FROM DAMAGE DUE TO WEATHER.
13. WHERE CMU WALL START ON TOP OF CAST-IN-PLACE WALL FOOTING, PROVIDE CMU WALL DOWELS AS PER DETAIL 3/S-5.81.
14. SEE CIVIL DRAWINGS FOR LOCATION OF PROPERTY LINES.
15. SEE SCHEDULES ON THIS SHEET FOR WALL FOOTING AND GRADE BEAMS.
16. SEE SHEET S-5.01 FOR DRILLED PIER AND DRILLED PIER CAP SCHEDULES.
17. DATUM ELEVATION: 0'-0" = 369'-5 1/2".

SHEET KEYNOTES

1. NOT USED
2. CONNECTION OF PRECAST WALL PANEL TO CIP WALL OR FOUNDATION BY PRECAST SUPPLIER. DESIGN PRECAST ELEMENTS FOR LATERAL VEHICLE BUMPER LOAD. CENTER CIP WALL FOOTINGS UNDER PRECAST WALL PANELS.
3. STEP FOOTING - SEE DETAIL 6/S-5.10

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

COMMONWEALTH OF VIRGINIA DAMIANA LARKIN PE-LIC. 039998 PROFESSIONAL ENGINEER

NO	DESCRIPTION	DATE
1	ADDENDUM #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

FOUNDATION PLAN

DATE: JUNE 3, 2016

BID SET

S-1.00

NOT FOR CONSTRUCTION

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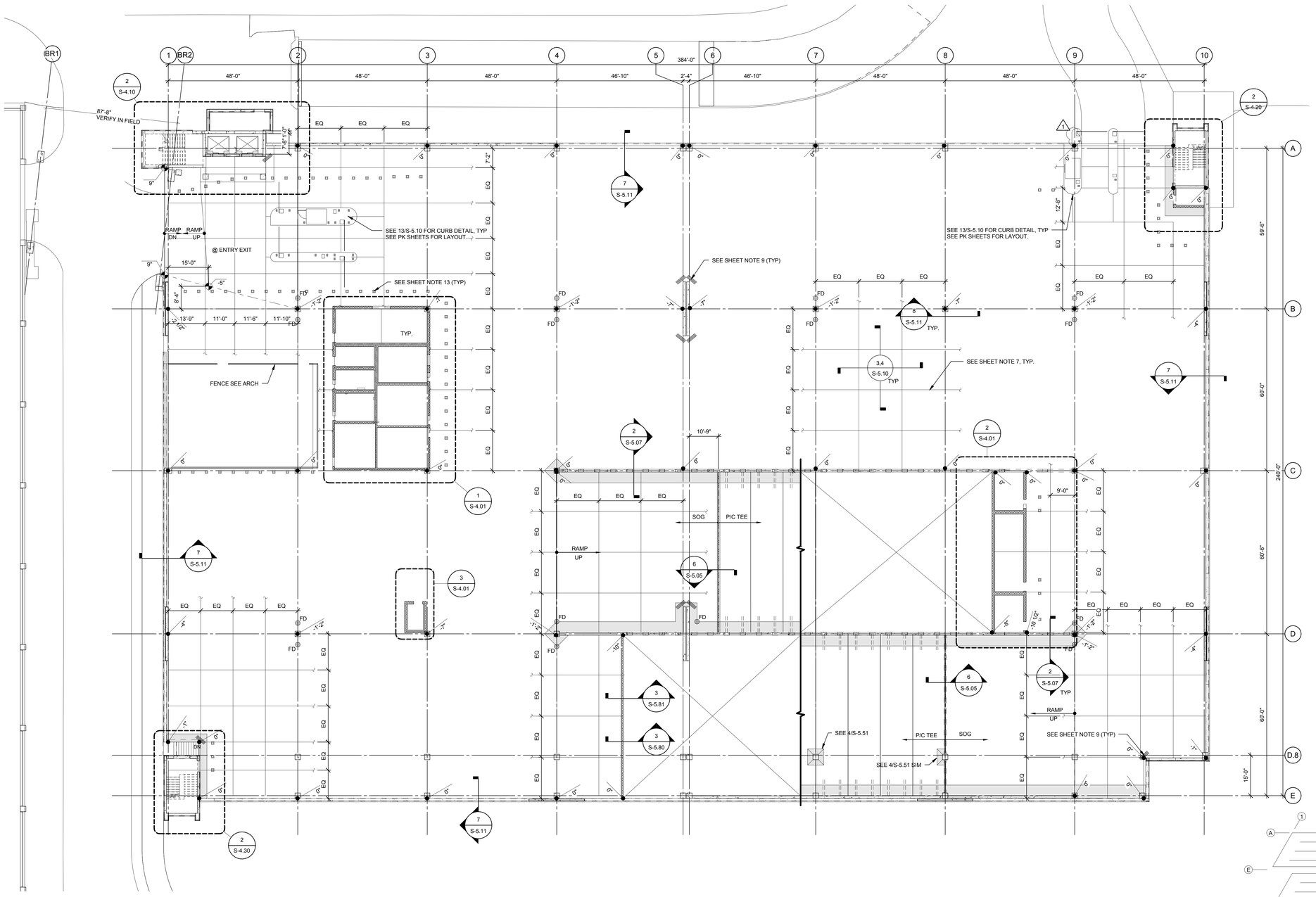
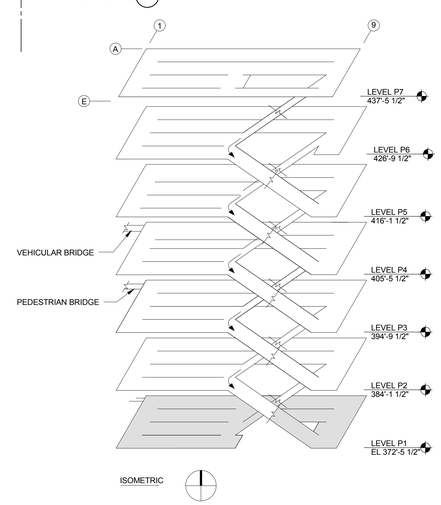


1 LEVEL P1 PLAN

1/16" = 1'-0"

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THERE IS A MINIMUM OF 8'-4"HEADROOM BETWEEN ALL DRIVING SURFACES AND OVERHEAD BEAMS PRIOR TO PLACING CONCRETE. NOTIFY A/E OF ANY DEVIATIONS PRIOR TO CONCRETE FORMING AND PLACEMENT



GENERAL SHEET NOTES

1. FOR STRUCTURAL GENERAL NOTES SEE SHEET S-0.20 THRU S-0.40
2. CONCRETE SLAB-ON-GRADE TO BE 5" THICK MIN. REINFORCED WITH #3 @ 18" EACH WAY AT 2" CLEAR FROM TOP OF SLAB. CHAIR REINFORCING PROPERLY. THE SLAB SHALL BE SUPPORTED BY A MIN. 6" THICK DENSE GRADED GRANULAR SUBBASE OR ENGINEER AND GEOTECH APPROVED EQUIVALENT ON WELL COMPACTED SOIL. SEE GEOTECHNICAL REPORT.
3. USE STRAIGHT LINE INTERPOLATION FOR FLOOR ELEVATIONS BETWEEN POINTS NOTED.
4. ELEVATIONS DO NOT INCLUDE WASH HEIGHT. SEE 3/S-1.20
5. FOR FLOOR DRAIN DETAILS SEE MECHANICAL DRAWINGS.
6. FOR TYPICAL PRECAST BEAM, COLUMN, LIGHT WALL AND SHEARWALL DETAILS SEE S-5.00 SERIES.
7. SEE SHEET S-5.10 FOR CONSTRUCTION AND CONTROL JOINT DETAILS.
8. PROVIDE 1" HIGH WASH TO DIRECT WATER RUNOFF AROUND ALL COLUMNS.
9. PROVIDE (4) #4 X 4'-0" @ 4" O.C., 4" FROM ALL REENTRANT CORNER SLAB CONDITIONS.
10. PROVIDE VERTICAL CONTROL JOINTS(OR CONSTRUCTION JOINTS) IN CIP CONCRETE WALL/CURB TO MATCH LOCATIONS OF FLOOR CONTROL JOINTS.
11. HOLD CIP CONCRETE WALL 1" CLEAR OF P/C COLUMNS.
12. DATUM ELEVATION 0'-0" = 372'-5 1/2"
13. REFER TO "PK" DRAWINGS FOR BOLLARD LOCATIONS AND DETAILS.
14. PROVIDE VAPOR BARRIER BELOW SLAB-ON-GRADE AT ALL ENCLOSED ROOMS. SEE SPECS.

SHEET KEYNOTES

HGA.
44 Canal Center Plaza, Suite 100
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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

COMMONWEALTH OF VIRGINIA
DAMIANO LARKIN
PE 041.039998
PROFESSIONAL ENGINEER

NO	DESCRIPTION	DATE
1	ADDENDUM #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

LEVEL P1 PLAN

DATE: JUNE 3, 2016

BID SET

S-1.10

NOT FOR CONSTRUCTION

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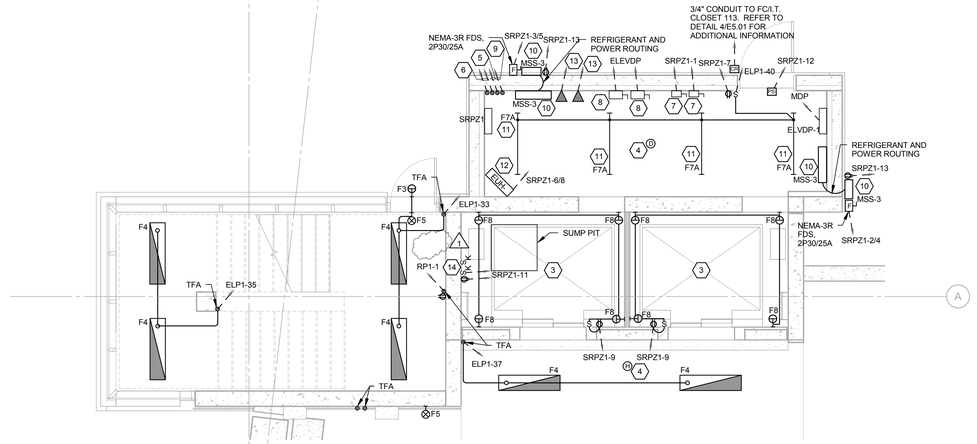
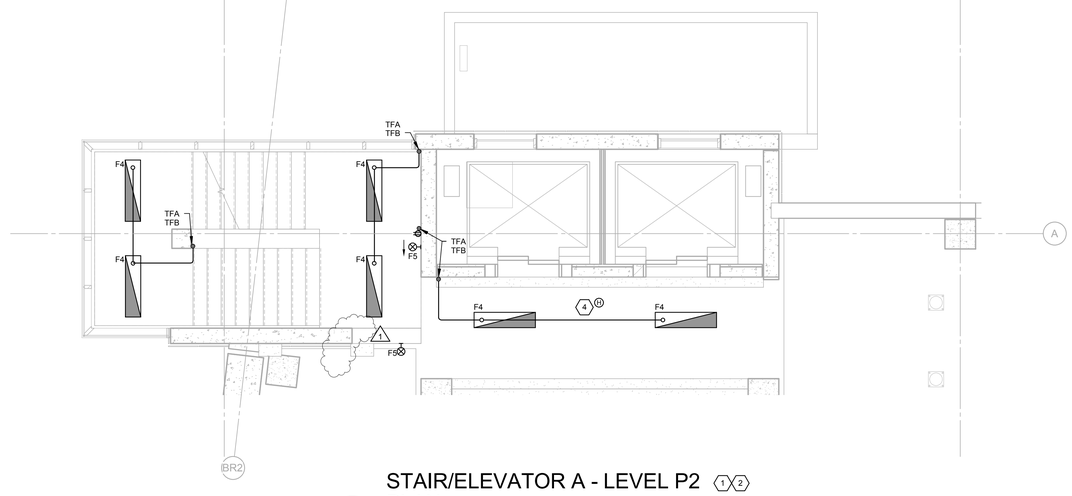
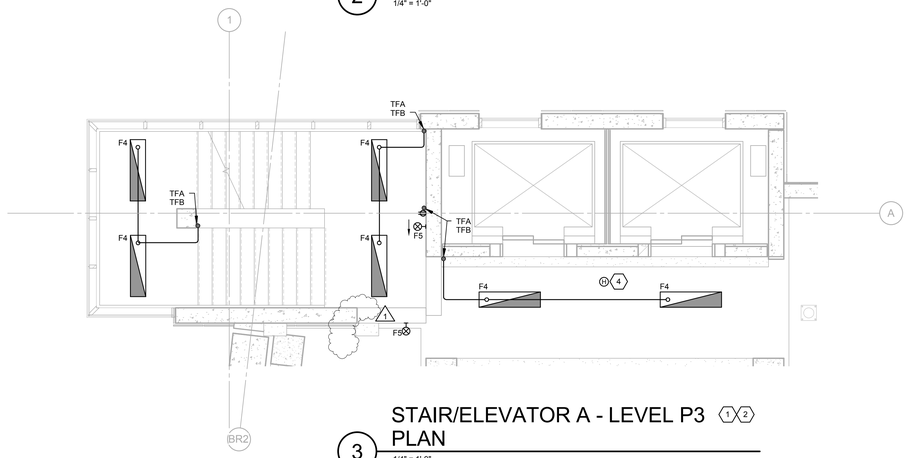


1 STAIR/ELEVATOR A - LEVEL P1 PLAN
1/4" = 1'-0"



2 STAIR/ELEVATOR A - LEVEL P2 PLAN
1/4" = 1'-0"



3 STAIR/ELEVATOR A - LEVEL P3 PLAN
1/4" = 1'-0"

SHEET NOTES

1. CONNECT ALL LIGHT FIXTURES IN STAIR MAIN LANDINGS TO CIRCUIT ELP1-33. CONNECT ALL FIXTURES IN STAIR INTERMEDIATE LANDINGS TO CIRCUIT ELP1-35. CONNECT ALL LIGHT FIXTURES IN ELEVATOR LOBBY TO CIRCUIT ELP1-37. CONNECT ALL F5 EXIT SIGNS TO CIRCUIT ELP1-33.
2. SEAL ALL OPENINGS IN TOP OF ALL F4 LIGHT FIXTURES BEFORE MOUNTING IN PLACE.
3. LOCATE LIGHTS, LIGHT SWITCH, AND G.F.C.I. RECEPTACLE IN ELEVATOR PIT. MOUNT LIGHT SWITCH AND RECEPTACLE ADJACENT TO ENTRANCE OR LADDER.
4. WIRE SMOKE AND HEAT DETECTORS TO ELEVATOR RECALL AND SUPERVISORY PANEL IN ELECTRICAL ROOM. RUN CIRCUIT WITH DRY CONTACT OUTPUTS FROM ELEVATOR RECALL AND SUPERVISORY PANEL TO ELEVATOR SEQUENCING EQUIPMENT. COORDINATE INSTALLATION WITH ELEVATOR INSTALLER.
5. 1" CONDUIT TO ELEVATOR RECALL AND SUPERVISORY PANEL IN COMMUNICATIONS ROOM.
6. 2-1" CONDUITS TO COMMUNICATIONS BACKBOARD IN THE COMMUNICATIONS ROOM.
7. 30 AMP, 120 VOLT, FUSED DISCONNECT SWITCH. SQUARE D CATALOG No H221N (COORDINATE FUSE SIZE AND EXACT LOCATION OF DISCONNECT SWITCH WITH ELEVATOR MANUFACTURER). FOR 120V ELEVATOR CAR POWER. (ELEVATOR INSTALLER WILL CONTINUE CIRCUIT TO ELEVATOR CAR.
8. 100 AMP, 3 PHASE, 480 VOLT, FUSED DISCONNECT SWITCH. SQUARE D CATALOG No H363N WITH AUXILIARY CONTACTS (COORDINATE FUSE SIZE AND EXACT LOCATION OF DISCONNECT WITH ELEVATOR MANUFACTURER). FOR 480V ELEVATOR POWER.
9. ONE 1" CONDUIT TO ELEVATOR RECALL PANEL IN THE ELECTRICAL ROOM FOR ELEVATOR SEQUENCING.
10. MITSUBISHI SPLIT SYSTEM, INDOOR UNIT: MSY-GL24NA-U1. OUTDOOR UNIT: MUY-GL24NA-U1. 23,200 BTU COOLING, 208V, SINGLE PHASE. PROVIDE RECEPTACLE TO MATCH PLUG. SET THERMOSTAT TO 65° F. PROVIDE ALL SUPPORT AND MOUNTING HARDWARE REQUIRED. COORDINATE OPENING WITH GENERAL CONTRACTOR AND ELEVATOR INSTALLER. PROVIDE WITH CONDENSATE PUMP. REFER TO E-001 FOR SCHEDULE.
11. CONNECT F7A FIXTURES PER MANUFACTURERS INSTRUCTIONS SO IT IS SWITCHABLE BUT WILL AUTOMATICALLY TRANSFER TO BATTERY POWER UPON LOSS OF AC POWER.
12. EUH-1 CHROMALOX UNIT HEATER, 2.6 KW, 208V, SINGLE PHASE, WITH INTEGRAL THERMOSTAT/DISCONNECT SWITCH. CATALOG No. LUH-02-81-34. MOUNT NEAR CEILING. SET THERMOSTAT AT 50° F.
13. 1" CONDUIT TO COMMUNICATIONS ROOM FOR ELEVATOR PHONE.
14. SUPPLY TWO (2) WEATHERPROOF KEY OPERATED SWITCHES FOR A SUMP PUMP AND HEAT TRACING, MOUNTED 1'-0" ABOVE PIT COVER IN JUNCTION BOX. HARD WIRE PUMP AND HEAT TRACE TO SWITCHES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. NOT USED.

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

STAIR/ELEVATOR A PLANS - POWER AND LIGHTING

DATE: JUNE 3, 2016

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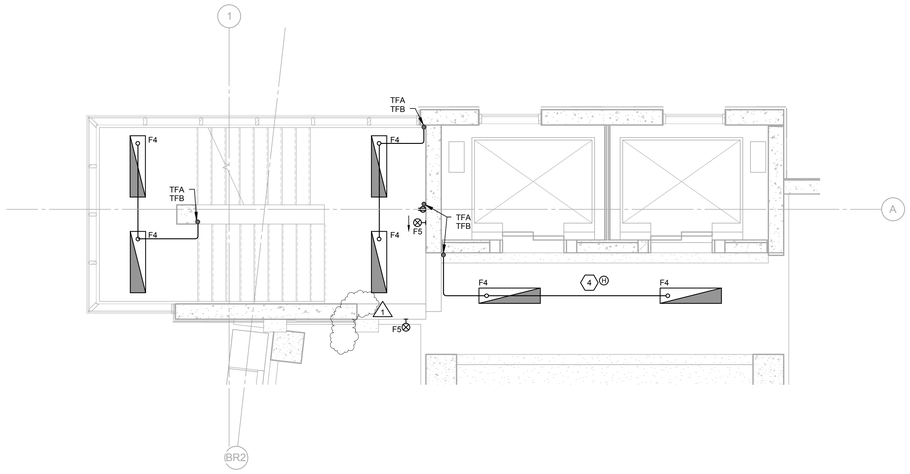
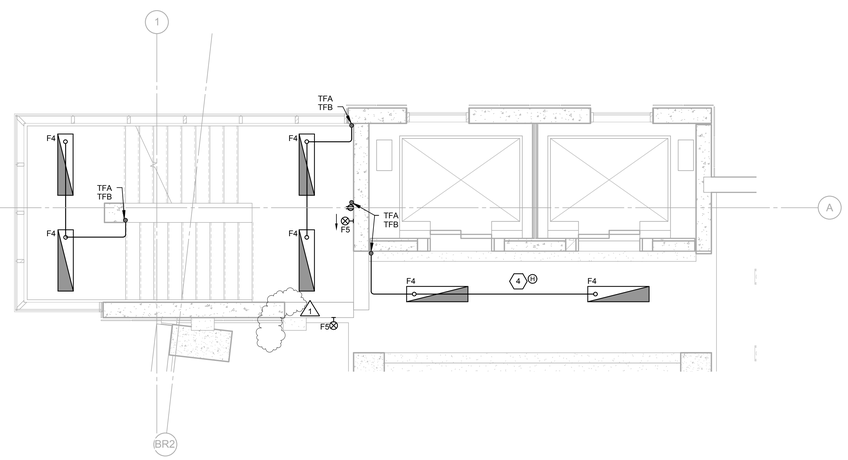
SHEET NOTES

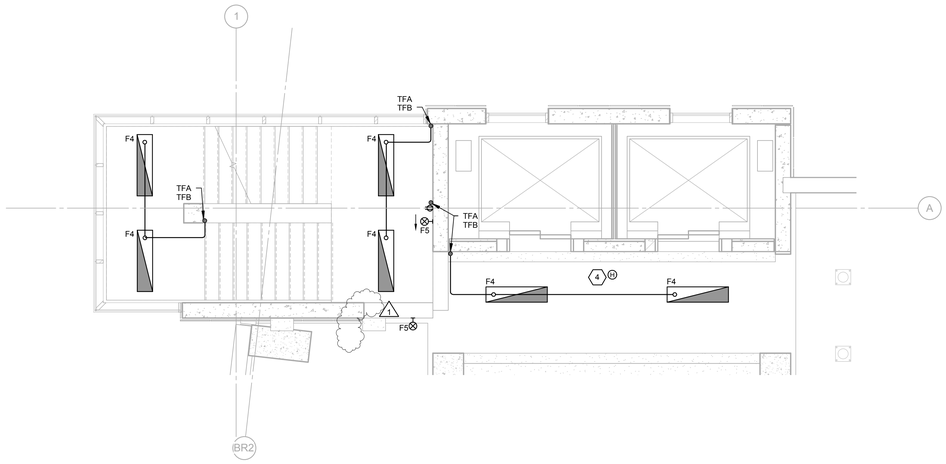
1. CONNECT ALL LIGHT FIXTURES IN STAIR MAIN LANDINGS TO CIRCUIT ELP1-33. CONNECT ALL FIXTURES IN STAIR INTERMEDIATE LANDINGS TO CIRCUIT ELP1-35. CONNECT ALL LIGHT FIXTURES IN ELEVATOR LOBBY TO CIRCUIT ELP1-37. CONNECT ALL F5 EXIT SIGNS TO CIRCUIT ELP1-33.
2. SEAL ALL OPENINGS IN TOP OF ALL F4 LIGHT FIXTURES BEFORE MOUNTING IN PLACE.
3. LOCATE LIGHTS, LIGHT SWITCH, AND G.F.C.I. RECEPTACLE IN ELEVATOR PIT AND TOP OF SHAFT. MOUNT LIGHT SWITCH AND RECEPTACLE ADJACENT TO ENTRANCE OR LADDER.
4. WIRE SMOKE AND HEAT DETECTORS TO ELEVATOR RECALL AND SUPERVISORY PANEL IN ELECTRICAL ROOM. RUN CIRCUIT WITH DRY CONTACT OUTPUTS FROM ELEVATOR RECALL AND SUPERVISORY PANEL TO ELEVATOR SEQUENCING EQUIPMENT. COORDINATE INSTALLATION WITH ELEVATOR INSTALLER.
5. NOT USED.



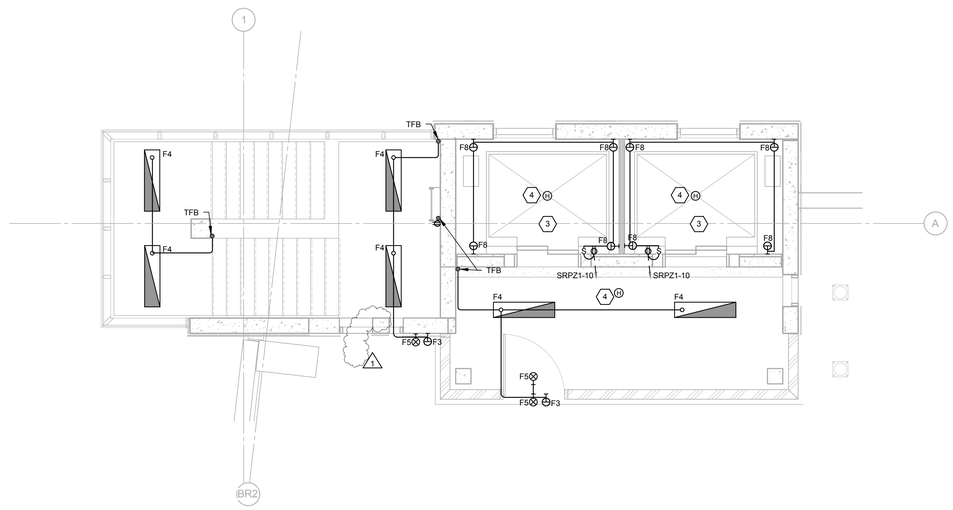
1 STAIR/ELEVATOR A - LEVEL P4 1 2 PLAN
1/4" = 1'-0"



2 STAIR/ELEVATOR A - LEVEL P5 1 2 PLAN
1/4" = 1'-0"



3 STAIR/ELEVATOR A - LEVEL P6 1 2 PLAN
1/4" = 1'-0"



4 STAIR/ELEVATOR A - LEVEL P7 1 2 PLAN
1/4" = 1'-0"

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

STAIR/ELEVATOR A PLANS - POWER AND LIGHTING

DATE: JUNE 3, 2016

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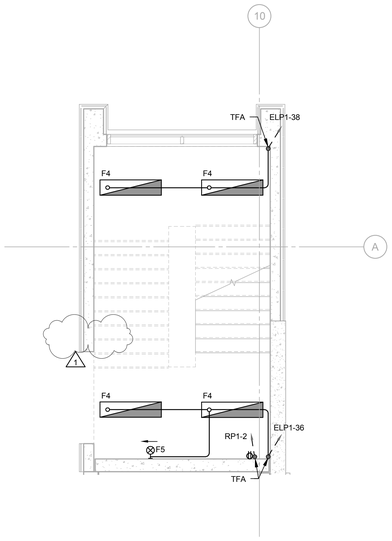
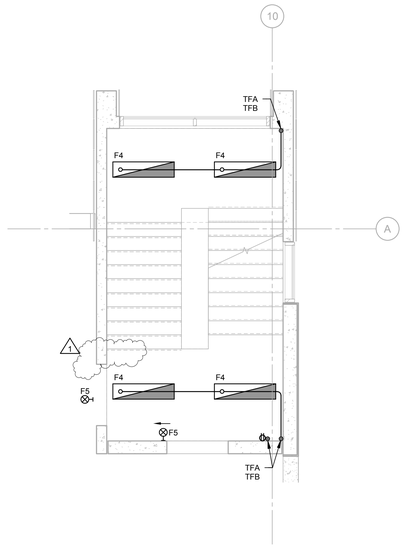
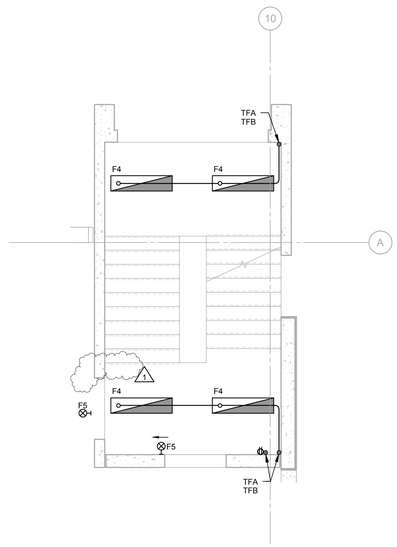


1 STAIR TOWER B - LEVEL P1 PLAN
1/4" = 1'-0"



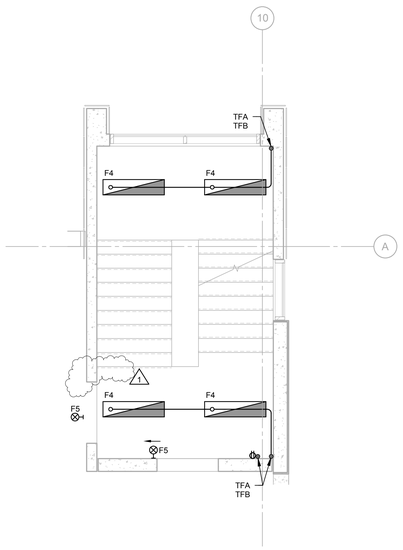
2 STAIR TOWER B - LEVEL P2 PLAN
1/4" = 1'-0"



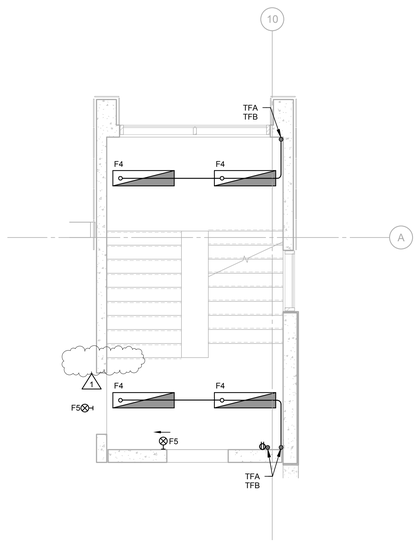
3 STAIR TOWER B - LEVEL P3 PLAN
1/4" = 1'-0"

SHEET NOTES

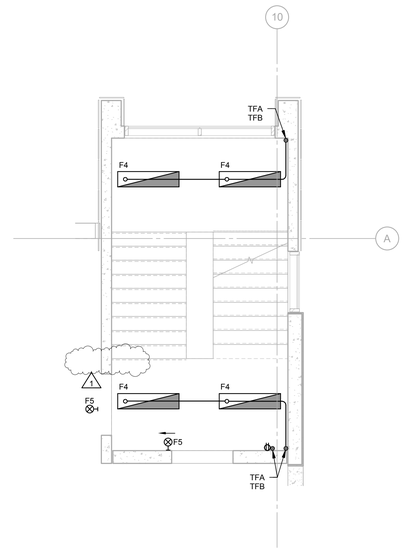
1. CONNECT ALL LIGHT FIXTURES IN STAIR MAIN LANDINGS TO CIRCUIT ELP1-36. CONNECT ALL FIXTURES IN STAIR INTERMEDIATE LANDINGS TO CIRCUIT ELP1-38. CONNECT ALL F5 EXIT SIGNS TO CIRCUIT ELP1-36.
2. SEAL ALL OPENINGS IN TOP OF ALL F4 LIGHT FIXTURES BEFORE MOUNTING IN PLACE.
3. NOT USED.



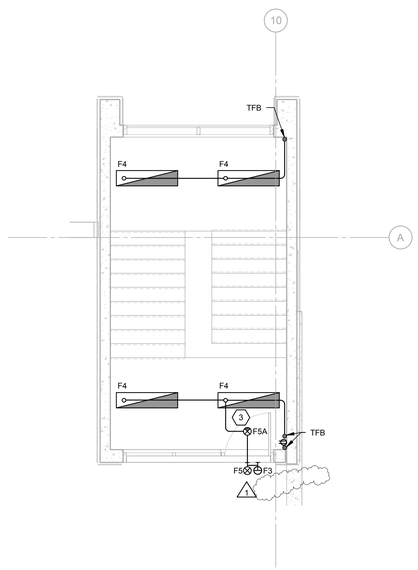
4 STAIR TOWER B - LEVEL P4 PLAN
1/4" = 1'-0"



5 STAIR TOWER B - LEVEL P5 PLAN
1/4" = 1'-0"



6 STAIR TOWER B - LEVEL P6 PLAN
1/4" = 1'-0"



7 STAIR TOWER B - LEVEL P7 PLAN
1/4" = 1'-0"

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

STAIR B PLANS - POWER AND LIGHTING

DATE: JUNE 3, 2016

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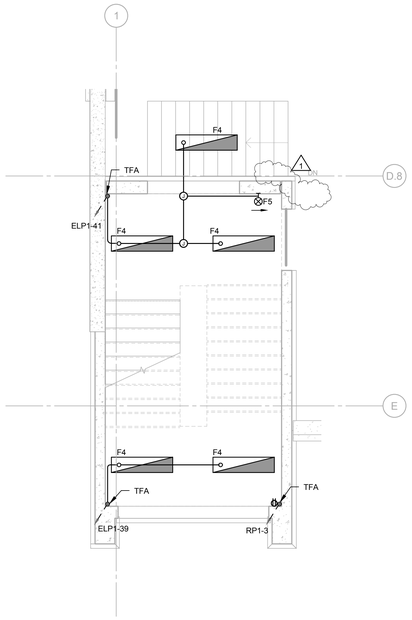
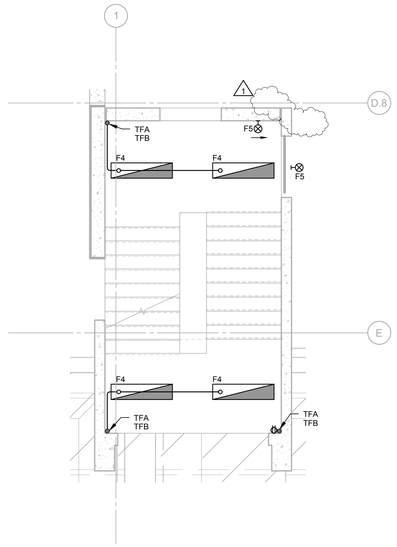
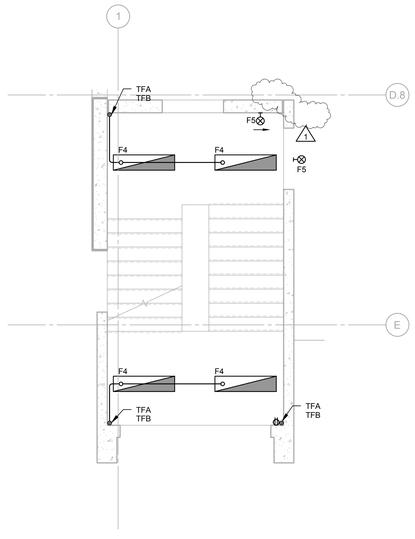


1 STAIR TOWER C - LEVEL P1 PLAN
1/4" = 1'-0"



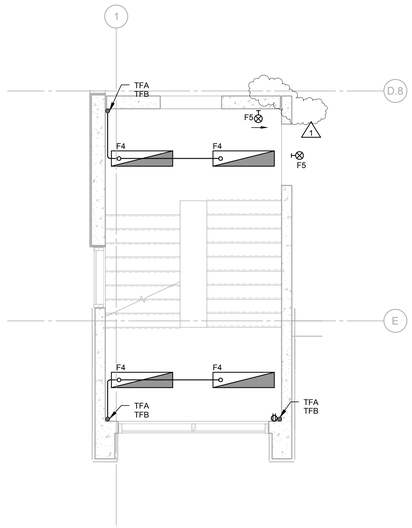
2 STAIR TOWER C - LEVEL P2 PLAN
1/4" = 1'-0"



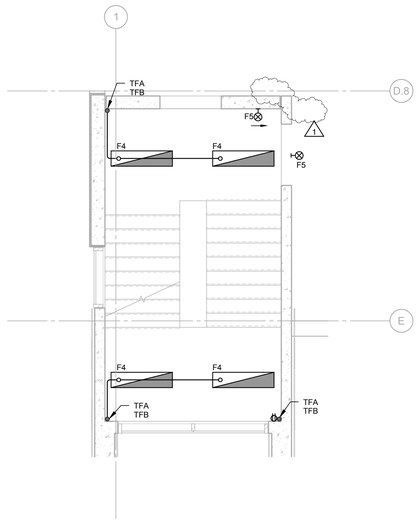
3 STAIR TOWER C - LEVEL P3 PLAN
1/4" = 1'-0"

SHEET NOTES

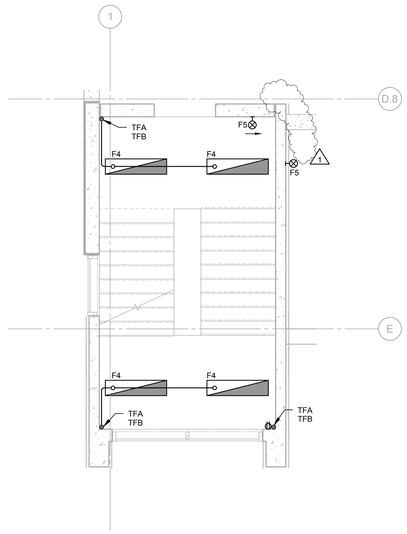
1. CONNECT ALL LIGHT FIXTURES IN STAIR MAIN LANDINGS TO CIRCUIT ELP1-41. CONNECT ALL FIXTURES IN STAIR INTERMEDIATE LANDINGS TO CIRCUIT ELP1-39. CONNECT ALL F5 EXIT SIGNS TO CIRCUIT ELP1-41.
2. SEAL ALL OPENINGS IN TOP OF ALL F4 LIGHT FIXTURES BEFORE MOUNTING IN PLACE.
3. NOT USED.



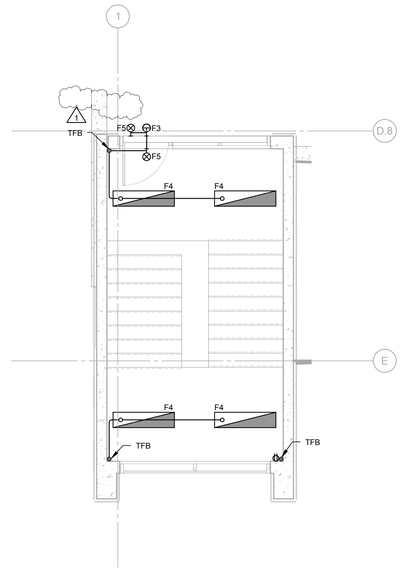
4 STAIR TOWER C - LEVEL P4 PLAN
1/4" = 1'-0"



5 STAIR TOWER C - LEVEL P5 PLAN
1/4" = 1'-0"



6 STAIR TOWER C - LEVEL P6 PLAN
1/4" = 1'-0"



7 STAIR TOWER C - LEVEL P7 PLAN
1/4" = 1'-0"

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7-18-16

COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX 1742 VIRGINIA

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

STAIR C PLANS - POWER AND LIGHTING

DATE: JUNE 3, 2016

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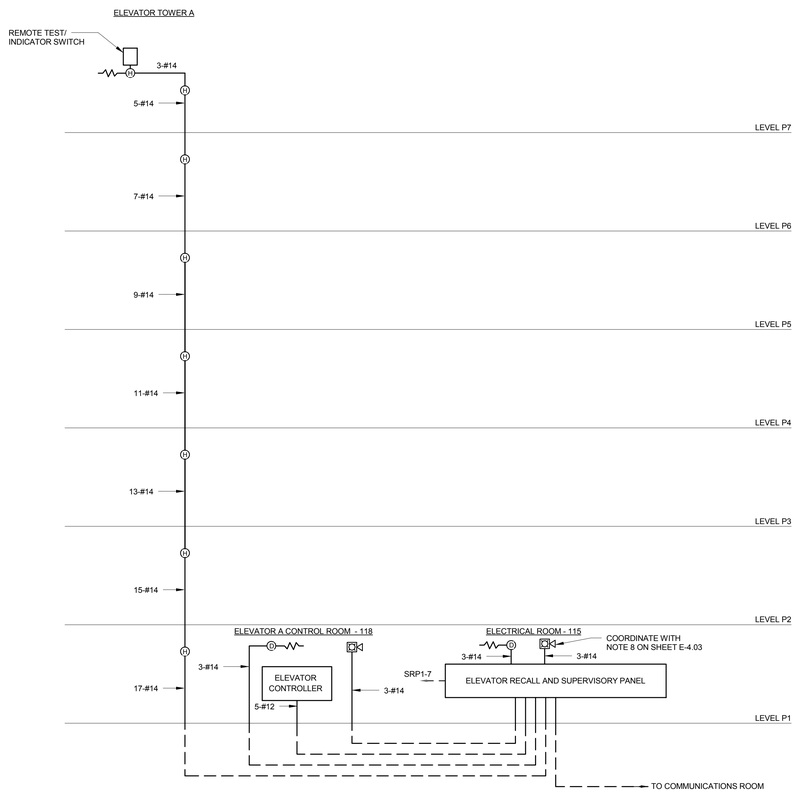

NOTES:
1. COORDINATE RETURN TIERS AND ALTERNATE RETURN TIERS WITH AUTHORITY HAVING JURISTICTION.

ELEVATOR
RECALL RISER
DIAGRAM

1

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1742
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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

RISER DIAGRAMS - ELEVATOR & EMERGENCY PHONE

DATE: JUNE 3, 2016

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LIGHTING AND POWER PANEL BOARD , "SRP1": SQ-D TYPE NQOD WITH 100A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING, ISOLATED GROUND. FED FROM SPP

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	SPARE			20	5	-----	-----	20	4	564	A/C I.T. CLOSET	2
3	COMMUNICTIONS BACKBOARD	360	4	20	-----	3	-----	20			SPARE	4
5	SPARE			20	-----	-----	0	20			SPARE	6
7	ELEV. RECALL PNL	500	10	20	4	-----	-----	20			SPARE	8
9	RCPT	180	6	20	-----	2	-----	20			SPARE	10
11	A/C I.T. RM	564	10	20	-----	-----	11	20	4	750	DOOR PWR 111,112,113	12
13	MSS-1 RM 119	330	8	15	9	-----	-----	20	4	750	DOOR PWR 107,108,109	14
15		330			-----	5	-----	20	4	250	DOOR PWR 120	16
17	TLT RM AUTO EQUIP PWR	300	8	20	-----	-----	9	20	10	750	DOOR PWR 114,115,116	18
19	GEN BATTERY CHARGER	1200	4	20	12	-----	-----	20	8	250	DOOR PWR 119	20
21	MSS-2 RM 114	480	8	15	-----	7	-----	15	8	330	MSS-1 RM 120	22
23		480			-----	-----	7			330		24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	3594	1930	3174	**TOTAL KILOWATTS:**	9
TOTAL AMPS PER PHASE:	30	16	26	**TOTAL AMPS:**	27

LIGHTING AND POWER PANEL BOARD , "SRPZ-1": SQ-D MINI POWER ZONE WITH 60A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING 15KVA XFMR. FED FROM ELVDP1

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	ELEV. CAB LTS	500	10	20	19	-----	-----	25	10	1778	A/C	2
3	A/C	1778	10	25	-----	30	-----			1778		4
5		1778			-----	-----	26	20	10	1300	EUH-1	6
7	MACH RM RCPT	180	10	20	12	-----	-----			1300		8
9	ELEV. PIT LTS/RCPTS	560	10	20	-----	9	-----	20	10	560	ELEV SHAFT LTS/RCPTS	10
11	HEAT TRACE/SUMP PUMP	1500	10	20	-----	-----	13	20	10	100	DOOR ELECTRIC STRIKE	12
13	OUTDOOR RCPT	180	10	20	2	-----	-----				SPACE	14
15	SPARE			20	-----	0	-----				SPACE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	3938	4676	4678	**TOTAL KILOWATTS:**	13
TOTAL AMPS PER PHASE:	33	39	39	**TOTAL AMPS:**	41

LIGHTING AND POWER PANEL BOARD , "LE": SQ-D TYPE NQOD WITH 150A MAIN CIRCUIT BREAKER
EXISTING PANEL

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 225

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	ELEV CAB LTS *	1000	10	20	43	-----	-----	50		4200	INFO BOOTH *	2
3		1000			-----	43	-----			4200		4
5	OUTLETS *	500	12	20	-----	-----	39			4200		6
7	OUTLETS *	500	12	20	17	-----	-----	30		1500	CRANK HTR *	8
9	OUTLETS *	400	12	20	-----	16	-----			1500		10
11	LIGHTING CONTROLS *	300	12	20	-----	-----	5	20		300	BATT. CHGR. *	12
13	SPACE				2	-----	-----	20		200	OUTLET *	14
15	SPACE				-----	3	-----	20		300	HTR *	16
17	SPACE				-----	-----	7	20		800	FUEL TANK HTR *	18
19	NEW PANEL PS	1440	8	50	19	-----	-----			800		20
21		0			-----	3	-----	20		300	HEAT TAPE *	22
23		0			-----	-----	0				SPACE	24
25	NEW PANEL PN	2640	1/0	50	22	-----	-----				SPACE	26
27		2640			-----	22	-----				SPACE	28
29		2640			-----	-----	22				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	12280	10340	8740	**TOTAL KILOWATTS:**	31
TOTAL AMPS PER PHASE:	102	86	73	**TOTAL AMPS:**	97

EX. DECK NEW LIGHTING AND POWER PANEL BOARD , "PN": SQ-D TYPE NQOD WITH 50A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING. FED FROM PANEL LE

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	I.T. RM RCPTS	1440	10	20	25	-----	-----	30	8	1500	NORTH EAST SINGLE ENTRY	2
3	SPARE			20	-----	0	-----				SPACE	4
5	SPARE			20	-----	-----	0				SPACE	6
7	SPARE			20	0	-----	-----				SPACE	8
9	SPACE				-----	0	-----				SPACE	10
11	SPACE				-----	-----	0				SPACE	12
13	SPACE				0	-----	-----				SPACE	14
15	SPACE				-----	0	-----				SPACE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	2940	0	0	**TOTAL KILOWATTS:**	3
TOTAL AMPS PER PHASE:	25	0	0	**TOTAL AMPS:**	9

EX. DECK NEW LIGHTING AND POWER PANEL BOARD , "PS": SQ-D TYPE NQOD WITH 50A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING. FED FROM PANEL LE

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	I.T. RM RCPTS	1440	10	20	12	-----	-----				SPACE	2
3	SPARE			20	-----	0	-----				SPACE	4
5	SPARE			20	-----	-----	0				SPACE	6
7	SPARE			20	0	-----	-----				SPACE	8
9	SPACE				-----	0	-----				SPACE	10
11	SPACE				-----	-----	0				SPACE	12
13	SPACE				0	-----	-----				SPACE	14
15	SPACE				-----	0	-----				SPACE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	1440	0	0	**TOTAL KILOWATTS:**	1
TOTAL AMPS PER PHASE:	12	0	0	**TOTAL AMPS:**	4

EXISTING PANEL , "M": WITH 400A MAIN BREAKER
42,000 AMP IESC RATING

HERNDON STATION
14-3869

VOLTS---> 480 Y/277V AMPS-- 400

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	PBD, HN *	26000	1/0	150	107	-----	-----	50	6	3540	N.E. LOAD CENTER 3	2
3		27000			-----	111	-----			3630		4
5		23000			-----	-----	93			2630		6
7	PBD, HN2 *	14000	3	100	63	-----	-----	50	6	3540	S.W. LOAD CENTER 4	8
9		16000			-----	69	-----			3130		10
11		11000			-----	-----	53			3630		12
13	SPARE			100	13	-----	-----	50	6	3540	3RD TIER LOAD CENTER 5	14
15					-----	11	-----			3130		16
17					-----	-----	13			3630		18
19	PBD, HA *	14000	3	100	51	-----	-----					20
21		18000			-----	65	-----					22
23		13000			-----	-----	47					24
25					0	-----	-----					26
27					-----	0	-----					28
29					-----	-----	0					30

* - EXISTING LOAD
P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
WATTS PER PHASE:	64620	70890	56890	**TOTAL KILOWATTS:**	192
AMPS PER PHASE:	233	256	205	**TOTAL AMPS:**	257

LIGHTING AND POWER PANEL BOARD , "WRP-1": SQ-D TYPE NQOD WITH 225A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING. FED FROM WLP1

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 225

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	WMATA OFFICE RCPTS	360	10	20	8	-----	-----	20	10	540	WMATA PARK EQUIPMENT RCPTS	2
3	WMATA OFFICE RCPTS	360	10	20	-----	9	-----	20	10	720	WMATA PARK EQUIPMENT RCPTS	4
5	WMATA OFFICE RCPTS	360	10	20	-----	-----	3	20			SPARE	6
7	WMATA OFFICE RCPTS	540	10	20	5	-----	-----	20			SPARE	8
9	WMATA OFFICE RCPTS	1080	10	20	-----	9	-----	20			SPARE	10
11	WMATA PARK EQUIP. WH-4	600	10	20	-----	-----	5	20			SPARE	12
13	WMATA OFFICE AC-3,4	64	10	20	1	-----	-----				SPACE	14
15		64			-----	1	-----				SPACE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30
31	SPACE				0	-----	-----				SPACE	32
33	SPACE				-----	0	-----				SPACE	34
35	SPACE				-----	-----	0				SPACE	36
37	SPACE				0	-----	-----				SPACE	38
39	SPACE				-----	0	-----				SPACE	40
41	SPACE				-----	-----	0				SPACE	42

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	1504	2224	960	**TOTAL KILOWATTS:**	5
TOTAL AMPS PER PHASE:	13	19	8	**TOTAL AMPS:**	14

LIGHTING AND POWER PANEL BOARD , "WSRP1": SQ-D TYPE NQOD WITH 100A MAIN CIRCUIT BREAKER
& "QOB" BRANCH CIRCUIT BREAKERS,10,000 AMP IESC RATING, ISOLATED GROUND. FED FROM SPP

HERNDON STATION
14-3869

VOLTS---> 208 /120 AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	I.T. CLOSET RCPT	180	10	20	6	-----	-----	20	10	500	DOOR POWER 110, 106	2
3	I.T. CLOSET RCPT	540	10	20	-----	5	-----	20			SPARE	4
5	I.T. CLOSET RCPT	720	10	20	-----	-----	6	20			SPARE	6
7	SPACE				0	-----	-----	20			SPARE	8
9	SPACE				-----	0	-----				SPACE	10
11	SPACE				-----	-----	0				SPACE	12
13	SPACE				0	-----	-----				SPACE	14
15	SPACE				-----	0	-----				SPACE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
TOTAL WATTS PER PHASE:	680	540	720	**TOTAL KILOWATTS:**	2
TOTAL AMPS PER PHASE:	6	5	6	**TOTAL AMPS:**	6

EXISTING LIGHTING AND POWER PANEL , "HA": MAIN LUGS ONLY
& "EDB" BRANCH CIRCUIT BREAKERS, 42,000 AMP IESC RATING

HERNDON STATION
14-3869
DOUBLE TUB

VOLTS---> 480 Y/277V AMPS-- 100

CT. NO.	LOCATION/DECSRIPTION/ QUANTITY	WATTS	WIRE SIZE	C.B. AMP	PHASE A	PHASE B	PHASE C	C.B. AMP	WIRE SIZE	WATTS	LOCATION/DESCRIPTION/ QUANTITY	CT. NO.
1	WH-1	4800	10	30	21	-----	-----	50	6	1000	TRANSFORMER	2
3	WH-2	4800	10	30	-----	21	-----			1000		4
5	WATER HTR	6000	10	30	-----	-----	25			1000		6
7	UH-1	7500	8	40	28	-----	-----	20	12	300	LIGHTING	8
9	UH-2	7500	8	40	-----	45	-----	30	10	5000	AC-1	10
11	WATER HTR	6000	10	30	-----	-----	22	20			SPARE	12
13	SPACE				0	-----	-----	20			SPARE	14
15	SPACE				-----	0	-----	20			SPARE	16
17	SPACE				-----	-----	0				SPACE	18
19	SPACE				0	-----	-----				SPACE	20
21	SPACE				-----	0	-----				SPACE	22
23	SPACE				-----	-----	0				SPACE	24
25	SPACE				0	-----	-----				SPACE	26
27	SPACE				-----	0	-----				SPACE	28
29	SPACE				-----	-----	0				SPACE	30

P--PADLOCK ATTACHMENT
L--LOCK ON ATTACHMENT

	A	B	C		
WATTS PER PHASE:	13600	18300	13000	**TOTAL KILOWATTS:**	45
AMPS PER PHASE:	49	66	47	**TOTAL AMPS:**	60

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COUNTY OF FAIRFAX

HERNDON STATION METRO GARAGE

COUNTY OF FAIRFAX
1742
VIRGINIA

NO	DESCRIPTION	DATE
1	Addendum #1	07-18-2016

ISSUANCE HISTORY - THIS SHEET

HGA NO: 3209-006-00

PANEL SCHEDULES

DATE: JUNE 3, 2016

BID SET

E-6.5

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Pre-Bid RFIs

1. **Question:** Can you confirm if the engineer will allow neat cutting of footers vs forming to save money and time?

   Response: Using the adjacent soil to pour the foundations to the required dimensions (soil-banking) is permissible as long as it is done accurately and does not contaminate the CIP foundation concrete.

   If this is not the intended procedure noted in the RFI, then please resubmit with an explanation.

2. **Question:** For the *New* Garage:

   (3) Sign S62 / "SPACE AVAILABLE" Traffic Controller Signs
   -See Sheet PK-5.00, Detail 3
   -See Specifications Page 101400-12, Item "K"
   <u>The Bid Documents Referenced Above Seam</u>
   <u>to Indicate That These Signs are in the</u>
   <u>SIGN CONTRACTOR's SCOPE of Work</u>

   However, These Same
   "SPACE AVAILABLE" Traffic Control Signs
   Seam to be Indicated as Part of the
   <u>"PARCS" CONTRACTORS SCOPE of Work</u>
   -See Specification Page 111233 – 6,
   Section "S", Item (4)

   PLEASE CLARIFY WHO's SCOPE
   of WORK THESE SIGNS ARE IN

   <u>I STRONLY RECOMMED</u> That The
   "SPACE AVAILABLE" Traffic Controller Signs,
   And All Signs
   that are a Part of the "PARCS" System
   <u>Should be in the …</u>
   <u>"PARCS" CONTRACTOR'S SCOPE of WORK</u>.

   Your Specification Section for the
   "PARCS" CONTRACTOR" Requires Him to be
   Responsible for the Correct Functioning of
   All Signs that are Connected to his System.
   Hence ***HE IS THE ONLY ONE WHO CAN & SHOULD DETERMIN THE TYPE AND CONFIGURATION OF THE INTERIOR DIGITAL MECHANICAL HARDWARE THAT IS INSTALLED INSIDE THE SIGNS, AS WELL AS***

INSTALLING THE ELECTRIC CIRCUITS FROM
HIS SIGNS TO THE "PARCS" SYSTEM
To Insure that The Signs Will Function with
the "PARCS" System, as Intended

Response: Allocation of work in contract documents is the sole responsibility of the General Contractor. Drawings and Specifications shall not be used to delineate work between sub-contractors.

3. **Question:** **(4) Internally Illuminated Signs /**
On Garage Exterior:
-"EAST PARKING" Backlit Channel Letters
-'WEST PARKING" Backlit Channel Letters
-Bike Graphics / Channel Letters Fabrication
-Blade Sign
See Sheets A-6.8 and A-5.4
None of the Above Signs are
Listed in the Sign Schedules
Is it Correct to Understand that
they are In the Project?

Electric Circuits / for Signs :
There are Only (4) Electric Signs
The Same Ones that are Mentioned Above
These are all on the Garage Exterior
See Sheets A-6.8 and A-5.4

Specification Page 101400 – 3 / Item I
States that the Sign Contractor Shall be
Responsible For Installation of Electric
Circuits form the Signs To the Electric
Panel Board
It is Usual and Customary that this Work
Is Not a Part of the Sign Contractors Scope
of Work

Usually there is a Separate Scope of Work
For the Electrical Contractor, and This would
Be in His Scope of Work

Belsinger Sign; as well as All the Sign Contractors
That We Know of, Would Require A Separate
Electrical Contractor to Bring Electric Circuits
To the Signs and Make the Connection to the
Signs

Response: The Internally illuminated signs are part of the General Contractors scope of work. It is up to the General Contractor to divide the work up among the subcontractors.

Refer to the electrical drawings for the conduit and circuiting that are to be provided by the electrician. Additional conduit and conductors connecting the sign to that junction box shall be by the signage contractor.

4. **Question:** **Demo of Existing Signs / in the Existing Garage :**

See Sheets PK-3.01 / PK – 2.01 Thru 2.04
Should This be in the Painting Contractors Scope of Work? Or Some Other Contractor ?

For the reason that there will be Necessary Repairs to Holes Etc. Left from the Sign Removal.
The Painting Contractor, or Some Other Contractor Is Prepared to make these Repairs at a Finished Level of Quality.

Belsinger Sign Can Demo the Existing Signs But We are only Prepared to fill the Remaining Holes With Silicone. We are Not Prepared to Make Any Necessary Surface Repairs at a Finished Quality Level

Response: The General Contractor is responsible for the removal of the existing signs and patching of the existing mounting holes. The division of this scope is by the General Contractor. Filling the existing holes with silicone is not acceptable. See spec section 017329 Cutting and Patching for patching materials and patching procedures.

5. **Question:**

5a. What is the actual last day and time to submit bid questions? The invite notes 7 days but does not distinguish calendar vs work days , folks asking

5b. Are there any addendums planned to be issued and when and if so will this affect the bid due date ?

5c. Is the project have a prevailing or specific wage rate scale to follow for trades ?

5d. Does the owner or architect have a requirement to provide BIM on the project and if so can a specification be provided to outline the requirements and deliverables expected ?

5e. The web address for diversity is not active . can you advise what % of small and minority business is required and how this will be calculated.

Are their specific % goals that maybe different for small vs minority or is the participation level the same for each ?

5f. Are their specific reporting requirements for diversity as the project progresses during construction ?

5g. Drawing E1.7 shows 8 locations for 16 each F 2 fixtures. Can you confirm that there are 8 poles and therefore 2 fixtures per pole

5h. Existing garage signs are called to be removed and replaced often times in different locations. When a sign is removed what is the requirement for final finish of the substrate at the existing sign location

5i. Spec section 074456 entitled mineral fiber –reinforced cementous panels denotes only (1) manufacturer as the basis of design and no other manufacturers are denoted . Are there no others allowed or has this been classified as proprietary . Please advise your requirements ?

Response:

5a. Calendar days. See Section A: Information for Bidders paragraph A-9 B (page A-6). In addition, for this project: **See Addendum #1 item 1.2.**

5b. Addendum will be issued on needed basis and the last Addendum will be issued 3 calendar days prior to bid opening. See Section A: Information for Bidders paragraph A-9 (page A-6).

5c. No.

5d. The project was produced using Revit. The Revit model or AutoCad drawing files can be provided to the selected contractor for their use. Contractor to provide "As-built" drawings in AutoCad drawing format.

5e. No specific requirement on this project. GC has to show for information only purpose.

5f. No.

5g. Correct – (2) F2 Fixtures per light pole on sheet E-1.7.

5h. Remove the sign and patch any holes in the substrate. See spec section 017329 Cutting and Patching for patching materials and patching procedures.

5i. Product listed in the spec section 074456 is the Basis of Design product. Subject to compliance with requirements, comparable products from

other manufacturers may be submitted to be reviewed by AE for Owner's approval. Comparable products are acceptable if the following criteria are met:

- Product has materiality, dimensionality, and performance characteristics that are consistent with the basis-of-design product.
- Product achieves the design intent aesthetic that is consistent with the basis-of-design product.
- Product has a similar warranty and maintenance requirements as the basis-of-design product.

6. Question: **Front End**

Spec Section 011323 (software) seems to indicate (2) different counts for licenses to be included in bid (30 vs 75); please clarify

Technical

6a. Where does detail 7/S-5.61 occur?
6b. Please clarify that the new SOG in the garage will be 5" thick. Several section cuts, when scaled, indicate something different. For example, details 2&8/S-5.80 and 7/S-5.11.
6c. Drawing S-1.10 shows a thickened edge detail around the perimeter of the garage (detail 7/S-5.11). However, other section cuts from the previous drawing, S-1.00, don't indicate that there is any thickened slab condition at the perimeters. Which is correct?
6d. Rather than pour separate washes at the SOG as shown on 3/S-1.20, can the washes be poured integrally with the SOG?

Response: **Front End**

30 is for County/ AE internal use identified in Section 2.1 and 75 is for everyone including the GC identified in Section 3.1 on the spec section.

Technical

6a. Detail is referenced on 1/S-4.50.
6b. See structural general note VI, F on Sheet S-.030 – "DO NOT SCALE THE DRAWINGS." 5" thick SOG within the garage is confirmed.
6c. Provide the thickened SOG section at the garage perimeter as indicated by the referenced detail 7/S-5.11.
6d. The wash at the SOG only is integral to the SOG and not poured separately. The referenced detail 3/S-1.20 is a Plan Elevation Key only and not an indication of the actual SOG construction.