The following drawing index sheet and reference drawings have been added to Volume 3.

DELETE	ADD	DESCRIPTION
G-002	G-002 AM2	New
G-003	G-003 AM2	New
N/A	G-003C AM2	New
N/A	G-003D AM2	New
A09-A-102	A09-A-102 AM2	New
A09-A-301	A09-A-301AM2	New
N/A	A09-T-001 AM2	New
N/A	A09-T-002 AM2	New
A10-A-500	A10-A-500AM2	New
A10-E-001	A10-E-001 AM2	New
A10-E-101 (Part 1)	A10-E-101 (Part 1) AM2	New
A10-E-101 (Part 2)	A10-E-101 (Part 2) AM2	New
A10-FP-101	A10-FP-101 AM2	New
A10-G-101A	A10-G-101A AM2	New
A10-G-102A	A10-G-102A AM2	New
A10-S-201	A10-S-201 AM2	New
A10-S-202	A10-S-202 AM2	New
A10-S-303A	A10-S-303A AM2	New
A10-S-501A	A10-S-501A AM2	New
A10-S-505A	A10-S-505A AM2	New
A10-S-506A	A10-S-506A AM2	New
A11-A-100	A11-A-100 AM2	New
A11-A-101	A11-A-101 AM2	New
A11-A-102	A11-A-102 AM2	New
A11-A-103	A11-A-103 AM2	New
A11-A-150	A11-A-150 AM2	New
A11-A-500	A11-A-500 AM2	New
A11-A-501	A11-A-501 AM2	New
A11-A-502	A11-A-502 AM2	New
A11-A-503	A11-A-503 AM2	New
A11-A-552	A11-A-552 AM2	New
A11-E-001	A11-E-001 AM2	New
A11-E-100	A11-E-100 AM2	New
A11-E-202	A11-E-202 AM2	New
A11-E-501	A11-E-501 AM2	New
A11-M-350	A11-M-350 AM2	New
A13-S-001	A13-S-001 AM2	New
A13-S-108	A13-S-108 AM2	New
A13-S-300	A13-S-300 AM2	New
A13-S-301	A13-S-301 AM2	New
A13-S-302	A13-S-302 AM2	New
A13-S-500	A13-S-500 AM2	New
A13-S-501	A13-S-501 AM2	New
S-1 (Part 6 MTA)	S-1 AM2 (Part 6 MTA)	New
S-4 (Part 6 MTA)	S-4 AM2 (Part 6 MTA)	New
S-6 (Part 6 MTA)	S-6 AM2 (Part 6 MTA)	New
S-8 (Part 6 MTA)	S-8 AM2 (Part 6 MTA)	New
S-10 (Part 6 MTA)	S-10 AM2 (Part 6 MTA)	New
S-11 (Part 6 MTA)	S-11 AM2 (Part 6 MTA)	New
T-E-001	T-E-100 AM2	New
T-E-100	T-E-100 AM2	New

T-E-101	T-E-101 AM2	New
T-E-102	T-E-102 AM2	New
T-E-103	T-E-103 AM2	New
T-E-104	T-E-104 AM2	New
T-E-105	T-E-105 AM2	New
T-E-106	T-E-106 AM2	New
T-E-107	T-E-107 AM2	New
T-E-108	T-E-108 AM2	New
T-E-109	T-E-109 AM2	New
T-E-113	T-E-113 AM2	New
T-E-500	T-E-500 AM2	New

PART 2: REFERENCE DRAWINGS

N/A	A10-E-100	New
N/A	A10-E-611	New
N/A	A10-E-612	New
N/A	A10-E-613	New
N/A	A10-E-614	New
N/A	A10-E-620	New

PART 1: REFERENCE DRAWINGS

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N/A	FA10-E-52	New
N/A	FA10-E-66	New
N/A	FA10-E-67	New
N/A	FA10-E-68	New
N/A	FA10-E-69	New
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N/A	FA12-E-6	New
N/A	FA12-E-7	New
N/A	FA12-E-8	New
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N/A	FA12-E-78	New

N/A	FA12-E-79	New

PART 6: REFERENCE DRAWINGS
DESIGN OF NEW STAIR FOR BETHESDA STATION - CONTRACT NO. 13-FQ1 0060-MCAP-19

N/A	G-001	New
N/A	G-002	New
N/A	A-001	New
N/A	A-002	New
N/A	A-100	New
N/A	A-200	New
N/A	A-300	New
N/A	A-301	New
N/A	S-001	New
N/A	S-100	New
N/A	S-101	New
N/A	S-102	New
N/A	S-200	New
N/A	S-201	New
N/A	S-202	New
N/A	S-203	New
N/A	S-300	New
N/A	S-301	New
N/A	E-001	New
N/A	E-100	New
N/A	E-101	New
N/A	E-102	New
N/A	E-600	New
N/A	E-601	New

PART 3: REFERENCE DRAWINGS

N/A	A13-U-7	New
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N/A	ST-S-4	New
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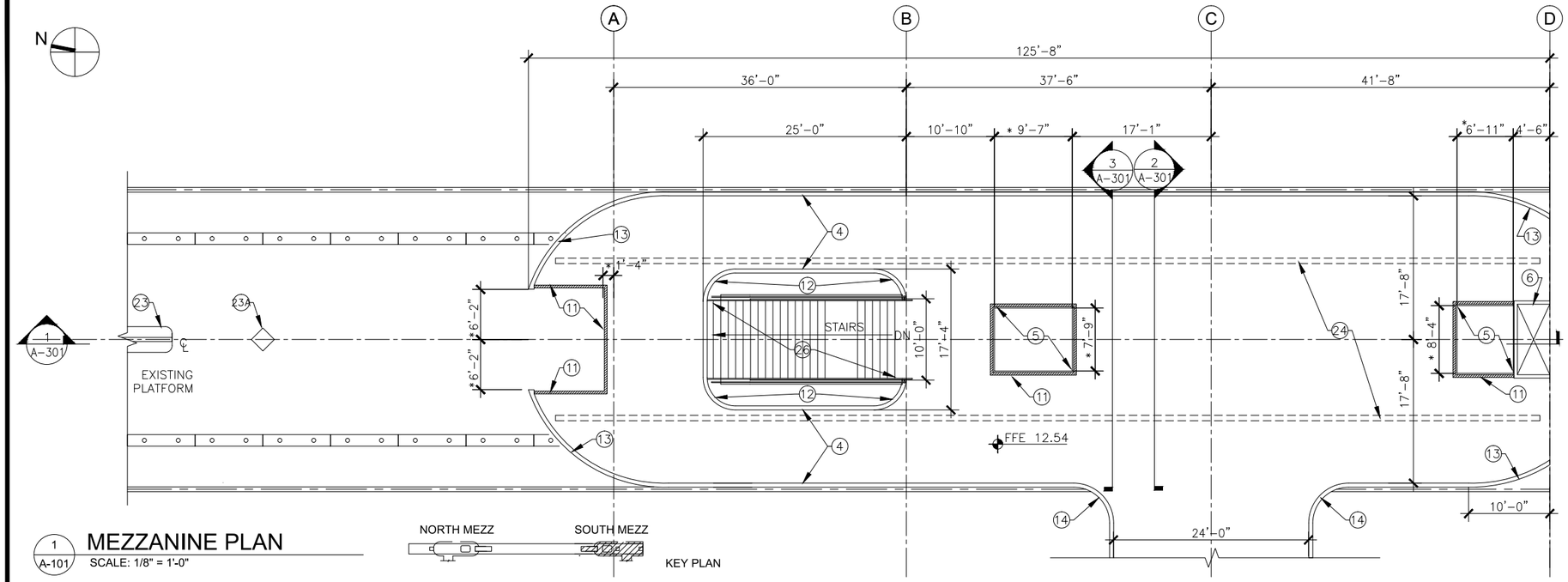
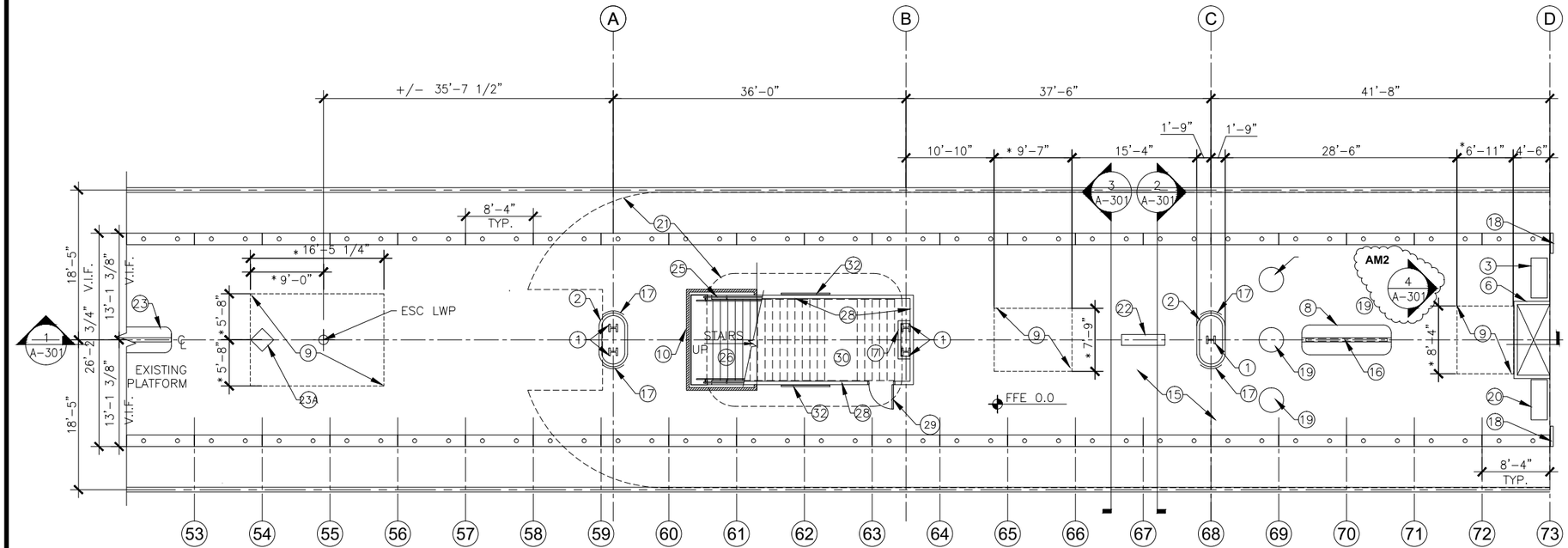


1 A-101 MEZZANINE PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



2 A-101 PARTIAL PLATFORM PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN

GENERAL NOTES

SEE A-301 FOR GENERAL NOTES

SHEET NOTES FOR PHASE 1B

1. NEW STEEL COLUMNS. SEE STRUCT DOCUMENTS. FIREPROOF AS REQUIRED.
2. PRECAST CONCRETE OR GFRC COLUMN SURROUNDS.
3. CWS CABINET RELOCATED BY AR. **AM2**
4. PRECAST CONC MEZZANINE PARAPET WALLS W/ BRONZE RAIL. SEE BETHESDA STATION RECORD DWGS FOR SIZE AND CONFIGURATION.
5. FLOOR OPENING FOR ELEVATOR HOISTWAY.
6. MECH SHAFT WITH LOUVERS ON SIDE WALLS. COORD W/MECH DOCUMENTS.
7. 8'-0" HIGH WALL AROUND THE COLUMNS. USE FIRE-RESISTANT MATERIALS.
8. GRANITE BENCH W/RETURN AIR TO MATCH EXIST. SEE RECORD ARCH DWGS.
9. KNOCK OUT PANEL WITH HEXAGON FLOOR TILES TO MATCH EXISTING ON THE FLOOR. FIRE RATED "X" TYPE GYPSUM BOARD CEILING ABOVE TO COVER THE MEZZANINE OPENING FOR ELEVATOR
10. TEMPORARY 8'-0" HIGH WALL AROUND THE STAIRS. USE FIRE RESISTANT MATERIALS.
11. TEMPORARY GUARD RAIL & WALL TO ENCLOSE PARAPET OPENING
12. RADIUS FOR STAIR WELLWAY CORNERS SHALL MATCH EXIST AT THE NORTH MEZZANINE. TYP FOR (4) CORNERS.
13. RADIUS FOR MEZZANINE PARAPET WALL CORNER BY ESCALATOR SHALL MATCH EXIST AT THE NORTH MEZZANINE.
14. RADIUS FOR WALL CORNERS BETWEEN MEZZANINE AND PASSAGEWAY SHALL MATCH EXIST AT THE NORTH MEZZANINE. TYP FOR (2) CORNERS.
15. INFILL THE FLOOR TO MATCH EXIST HEXAGON FLOOR TILES IN AREAS WHERE PYLONS, BENCHES AND DIORAMAS ARE REMOVED
16. CEILING MOUNTED STATION NAME SIGN W/ REQUIRED ADA DIRECTIONAL SYMBOLS SIMILAR TO SIGN TYPE INCLUDED IN CURRENT WMATA SIGNAGE MANUAL
17. PORCELAIN ENAMEL ON ALUMINUM VERTICAL STATION NAME SIGNAGE.
18. EXIST GATES TO REMAIN
19. EXIST MANHOLE COVER TO REMAIN
20. ETEC CABINET RELOCATED BY AR. **AM2**
21. MEZZANINE PARAPET WALL OUTLINE ABOVE
22. DIORAMA W/ STATION AHEAD LIST, SYS MAP, AREAS MAP AND RETURN AIR BELOW. NEW WORK OR MODIFIED EXIST DIORAMA.
23. EX BENCH TO REMAIN. 23A EX PYLON TO REMAIN
24. NEW FLOURESCENT LIGHT FIXTURES 9'-0" AFF SIMILAR TO THOSE USED ON THE NORTH MEZZANINE. LIGHTING LEVELS SHALL COMPLY W/WMATA CRITERIA.
25. NEW BRONZE AND GLASS BALUSTRADE SYS TO MATCH STAIR AT NORTH MEZZANINE.
26. STAIR MATERIAL AND CONSTRUCTION TO MATCH STAIR AT NORTH MEZZANINE, EXCEPT WIDTH. DESIGN INCLUDES PRECAST CONC STRINGERS AND GRANITE TREADS. **AM2**
27. NEW METAL PANEL CEILING TO COMPLY W/ CURRENT WMATA STANDARD. COORDINATE LIGHTING, PUBLIC ADDRESS AND DIFFUSER LOCATIONS.
28. PRECAST CONCRETE WALL PANELS TO MATCH THOSE AT THE NORTH MEZZANINE. FORM LINER SHALL MATCH EXIST.
29. 3'x7' DOOR TO MATCH EXIST AT NORTH MEZZANINE STAIRS.
30. ELEVATOR EQUIPMENT ROOM.
31. RETURN AIR LOUVERS TO MATCH THOSE AT NORTH MEZZANINE STAIRS. ONE REQUIRED ON EACH SIDE.
32. PORCELAIN ENAMEL ON ALUMINUM HORIZONTAL STATION AHEAD LIST SHALL COMPLY W/ WMATA SIGNAGE MANUAL.

NOTE:
SHEET NOTES FOR PHASE 1B ALSO APPLIES TO SHEET (A-301)W/SECTIONS.
* COORDINATE THE DIMENSION W/ EQUIPMENT MANUFACTURER

FINAL

CONTRACT NO. FQ15093

DESIGNED	AD	2/20/15 DATE
DRAWN	AD	2/20/15 DATE
CHECKED	RES	2/20/15 DATE
APPROVED	JP	2/20/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/26/15	C.R.	CONSTRUCTION COORDINATION NOTES - AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

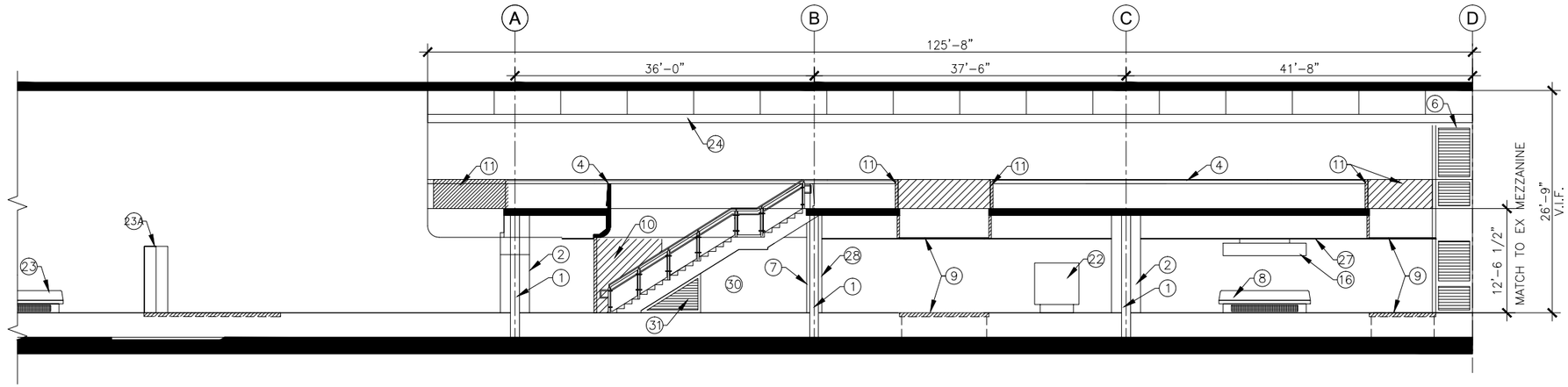
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 6

PHASE 1B
PLATFORM & MEZZANINE NEW WORK PLANS

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A09-A-102	M1272-193



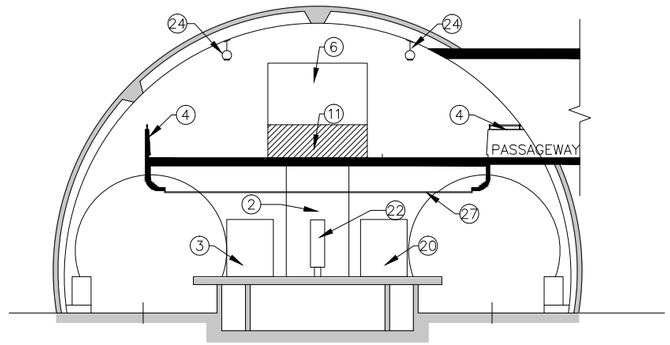
1 / A-301 LONGITUDINAL SECTION - PHASE 1B
SCALE: 1/8" = 1'-0"

GENERAL NOTES

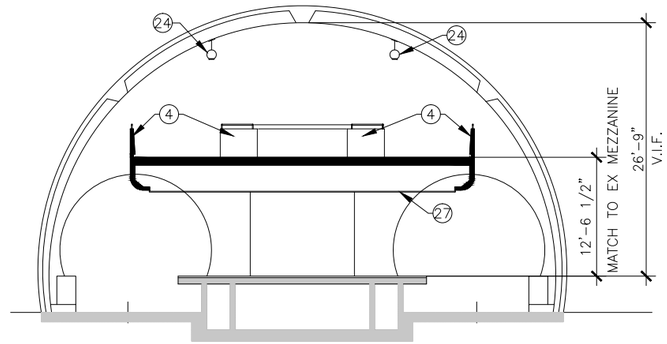
1. VERIFY ALL DIMENSIONS IN THE FIELD.
2. VERIFY ALL FIELD CONDITIONS.
3. ALL DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
4. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE LATEST VERSIONS OF I.B.C. AND LIFE SAFETY CODES. ALL WORK IS DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE W/ WMATA DESIGN CRITERIA, VERSION 9.
5. DO NOT SCALE DWGS FOR PURPOSES OF FINAL DESIGN
6. DEMOLITION, CUTTING, AND PATCHING OF ANY MATERIALS OR FIXTURES REQUIRED TO CONSTRUCT THE PROJECT IS HEREIN MADE A PART OF THESE DOCUMENTS.
7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AS REQUIRED.
8. THE IMAGES ON THE CONSTRUCTION DOCUMENT FLOOR PLANS REFLECT THE INFORMATION FROM THE ORIGINAL CONSTRUCTION DOCUMENTS FOR THE PROJECT, IT IS NOT AN INDICATION OF NEW WORK, IT IS SHOWN IN GRAY LINE COLOR. THE NEW WORK AND REQUIRED DEMOLITION OR REMOVALS ARE SHOWN IN BLACK LINE COLOR. IF THE DIFFERENCE IS NOT OBVIOUS, REPORT TO THE A.R. IMMEDIATELY.
9. ALL WORK INDICATED OR SHOWN GRAPHICALLY AS "EXIST (EXISTING) TO REMAIN" WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND WORK AROUND WITHOUT DISTURBING. IF DAMAGED, THE CONTRACTOR WILL REPLACE AT NO ADDITIONAL COST TO THE OWNER.
10. FIREPROOF ALL NEW STRUCT STEEL, INCLUDING, BUT NOT LIMITED TO COLUMNS, BEAMS, METAL DECK, AND MISCELLANEOUS METALS – SEE SPECIFICATION SECTION 07.81.00.
11. FORMWORK FOR PRECAST CONCRETE TO MATCH FORMWORK USED AT THE NORTH MEZZANINE STAIR.

SHEET NOTES

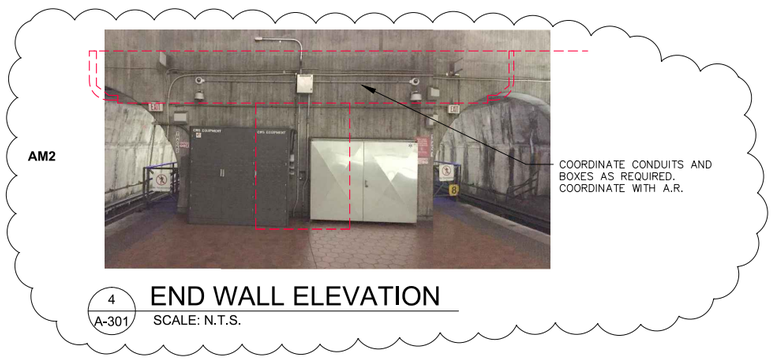
SEE A–102 FOR "SHEET NOTES FOR PHASE 1B" (X)



2 / A-301 TRANSVERSE SECTION - PHASE 1B
SCALE: 1/8" = 1'-0"



3 / A-301 TRANSVERSE SECTION - PHASE 1B
SCALE: 1/8" = 1'-0"



4 / A-301 END WALL ELEVATION
SCALE: N.T.S.

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17668, EXPIRATION DATE: 03-27-2016"

FINAL

CONTRACT NO. FQ15093

DESIGNED	AD	2/20/15 DATE
DRAWN	AD	2/20/15 DATE
CHECKED	RES	2/20/15 DATE
APPROVED	JP	2/20/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/26/15	C.R.	CONSTRUCTION COORDINATION NOTES – AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED

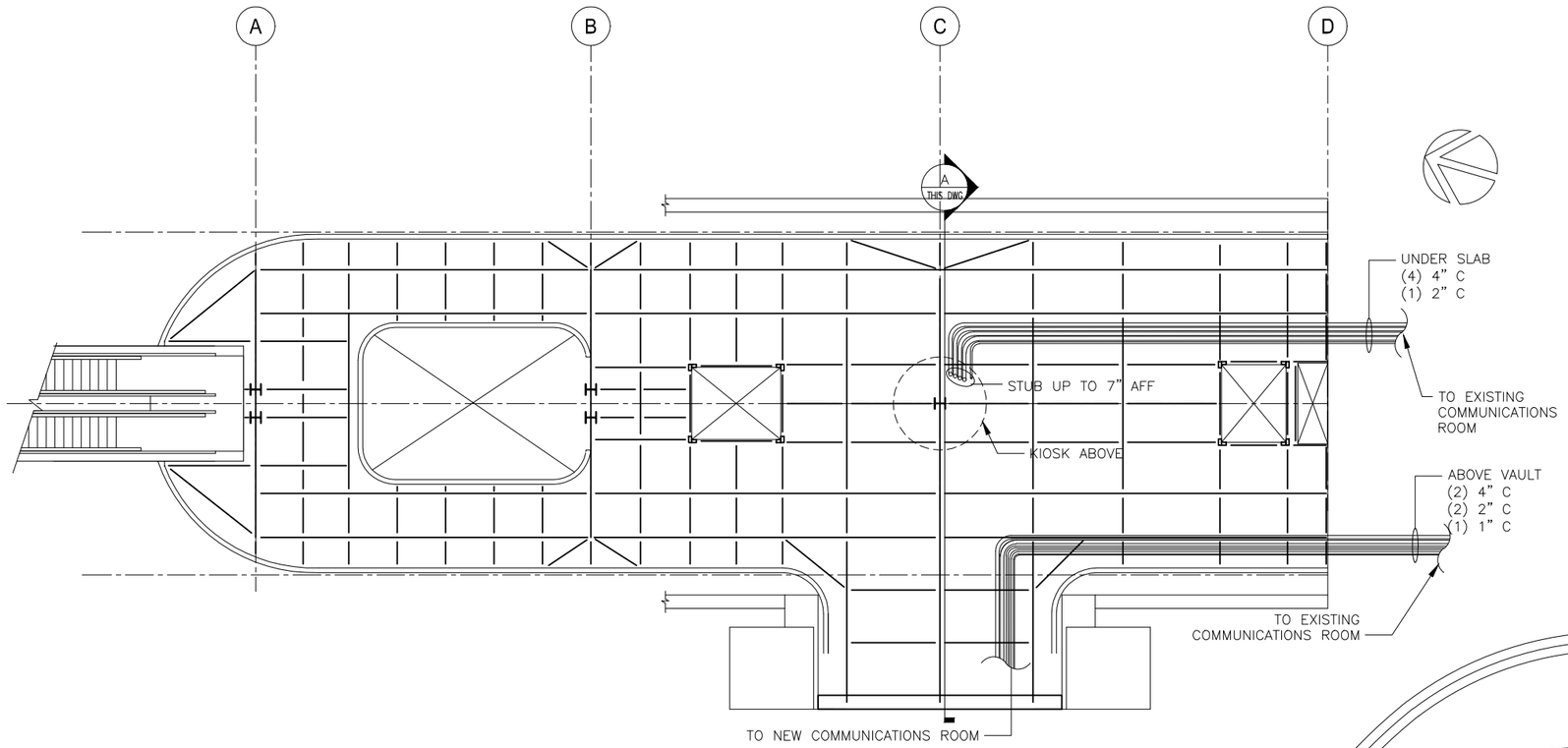
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 6

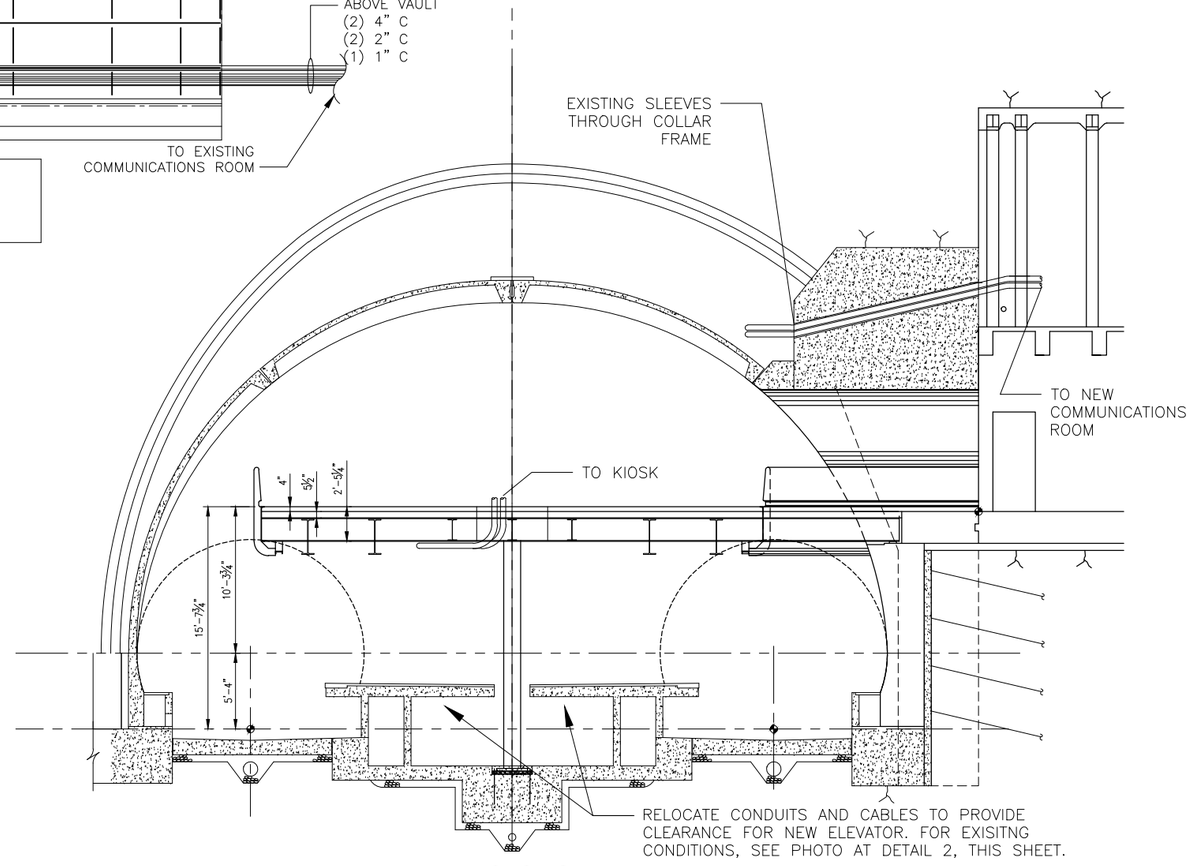
PHASE 1B
SECTIONS

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A09–A–301	M1272–195



1 - MEZZANINE CONDUIT PLAN
SCALE: 1/8" = 1'-0"

2 - EXISTING CONDITION UNDER PLATFORM
SCALE: N.T.S.



A - SECTION
SCALE: 3/16" = 1'-0"

FINAL

CONTRACT NO. FQ15093

DESIGNED DF 6/19/15 DATE
DRAWN – DATE
CHECKED – DATE
APPROVED – DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS			
DATE	BY	DESCRIPTION	
06-15	DF	NEW DRAWING ADDED	AM-2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

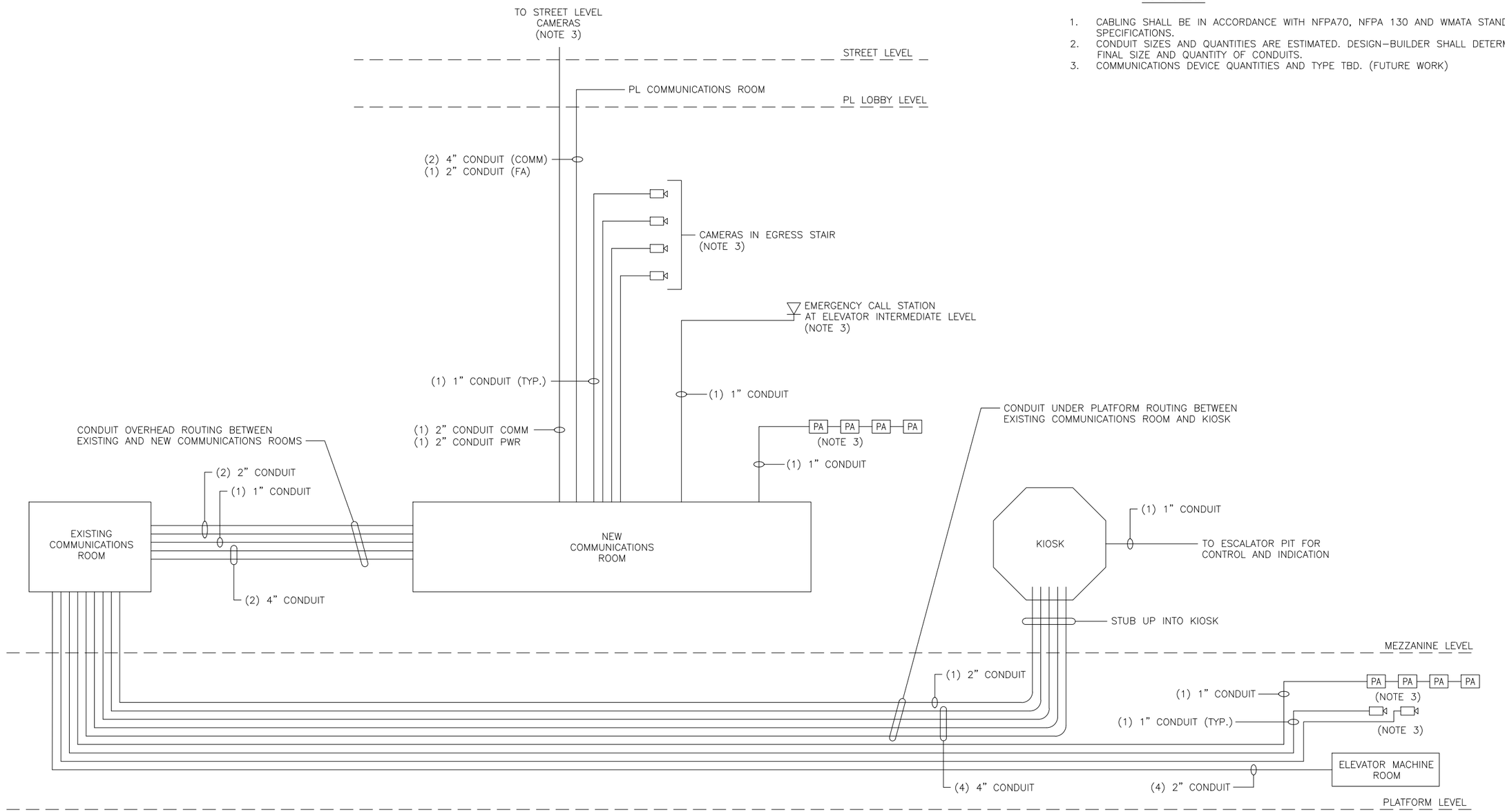
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 6

BETHESDA STATION MEZZANINE COMMUNICATIONS CONDUIT PLAN AND SECTION

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	A09-T-001	M1272-197

NOTES

1. CABLING SHALL BE IN ACCORDANCE WITH NFPA70, NFPA 130 AND WMATA STANDARD SPECIFICATIONS.
2. CONDUIT SIZES AND QUANTITIES ARE ESTIMATED. DESIGN–BUILDER SHALL DETERMINE FINAL SIZE AND QUANTITY OF CONDUITS.
3. COMMUNICATIONS DEVICE QUANTITIES AND TYPE TBD. (FUTURE WORK)



1 MEZZANINE CONDUIT RISER DIAGRAM

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

FINAL

CONTRACT NO. FQ15093

DESIGNED	DF	6/19/15 DATE
DRAWN	–	– DATE
CHECKED	–	– DATE
APPROVED	–	– DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION	
06–15	DF	NEW DRAWING ADDED	AM–2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

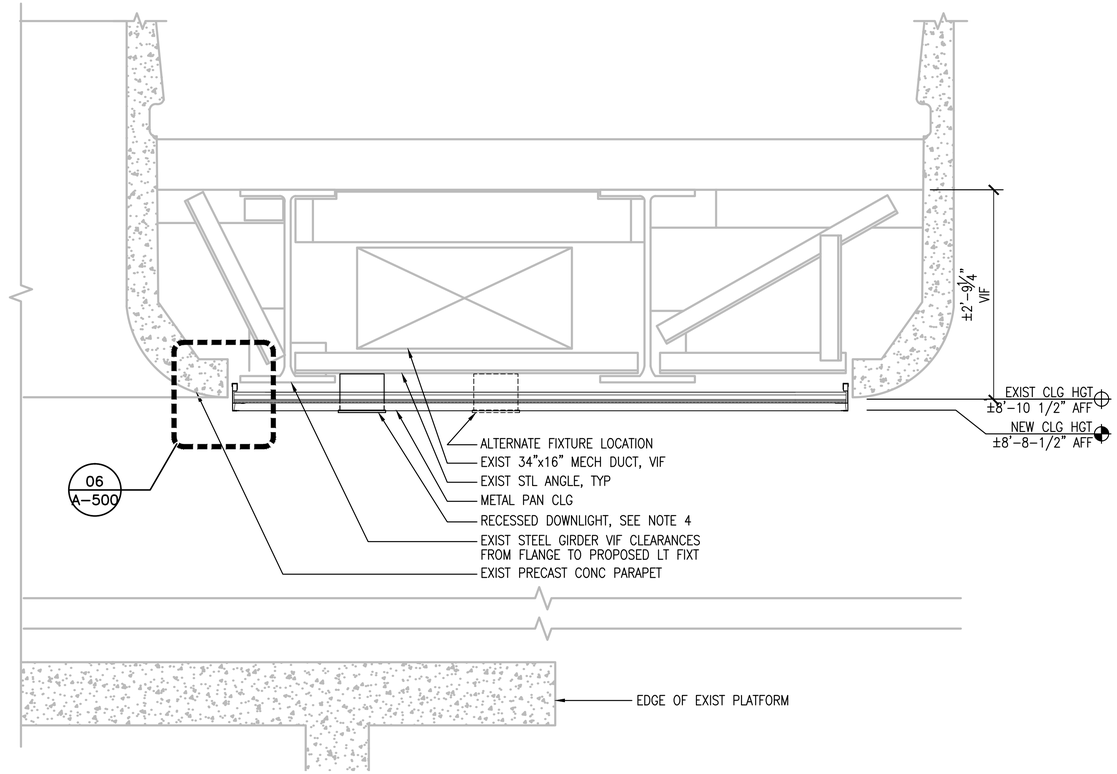
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 6

BETHESDA STATION MEZZANINE COMMUNICATIONS CONDUIT RISER DIAGRAM

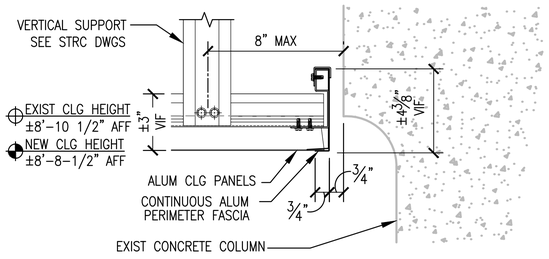
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	A09–T–002	M1272–198



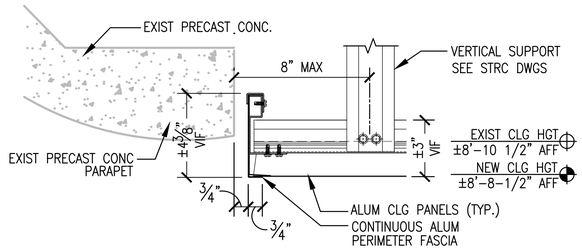
09 A-101 **PARTIAL SECTION THRU MEZZANINE**
Scale = 1" = 1'-0" 1' 6" 0 1' 2' 3'

NOTES

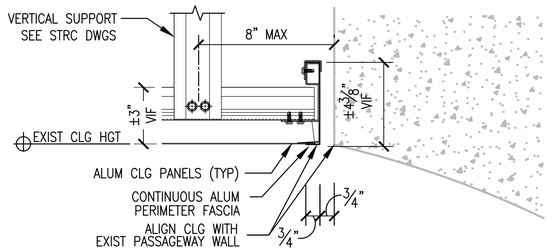
1. APPROVAL OF AR REQUIRED PRIOR TO ATTACHMENT TO EXISTING STRUCTURAL STEEL FRAMING.
2. ALL NEW SUSPENDED CEILINGS WILL BE AT THE HEIGHT OF EXISTING SUSPENDED CEILINGS UNLESS OTHERWISE NOTED
3. METAL PANEL CEILING PANELS AND SUPPORT SYSTEM TO CONFORM TO WMATA 40 PSF WIND LOADING CRITERIA.
4. PRIOR TO COMMENCING THE INSTALLATION/WIRING OF THE DOWNLIGHTS AT THE MEZZANINE, THE CONTRACTOR SHALL VERIFY IN FIELD THAT THE ENTIRE PROPOSED OUTSIDE ROWS OF RECESSED DOWNLIGHTS CAN BE INSTALLED WITHOUT CONFLICTING WITH THE EXISTING STRUCTURE. IF UPON VERIFICATION THERE WILL BE A CONFLICT, THE CONTRACTOR SHALL DETERMINE CLEARANCE OF ALTERNATIVE FIXTURE LOCATION AND NOTIFY THE AR.
5. SEE DETAILS 1-5/A10-S-500 FOR METAL PAN CEILING STRUCTURAL SUPPORT DETAILS.
6. ALL DETAILS BACK REFERENCE DRAWINGS WITH PREFIX A10.
7. REFER TO STRUCTURAL DWGS A10-S-303 & A10-S-304 FOR ADDITIONAL INFORMATION REGARDING THE EXISTING CEILING CAVITIES.
8. ALL STEEL TO ALUMINUM CONNECTIONS SHALL BE PROVIDED WITH A DIELECTRIC SEPARATION
9. ALL ALUMINUM CEILING PANELS AND FASCIAS SHALL BE PRE-PAINTED WMATA WHITE
10. CONTRACTOR SHALL VERIFY IN FIELD THE DEPTH OF THE NEW CEILIING PERIMETER TRIM
11. CONTRACTOR SHALL INSTALL THE NEW METAL PAN CEILING AT THE PLATFORM MEZZANINE EXACTLY 2" LOWER THAN ITS EXISTING POSITION.



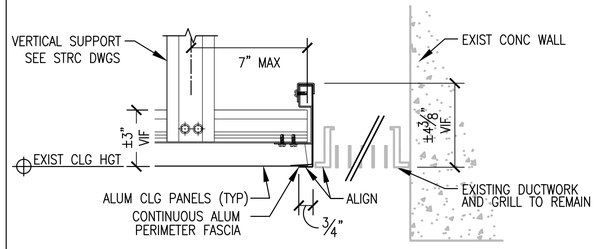
05 A-101 **EDGE DTL @ COLUMN**
Scale = 3" = 1'-0" 3 2 1 0 3" 6" 9" 12"



06 A-101 **EDGE DTL @ MEZZANINE PARAPET**
Scale = 3" = 1'-0" 3 2 1 0 3" 6" 9" 12"



07 A-101 **EDGE DTL @ PASSAGEWAY WALL**
Scale = 3" = 1'-0" 3 2 1 0 3" 6" 9" 12"



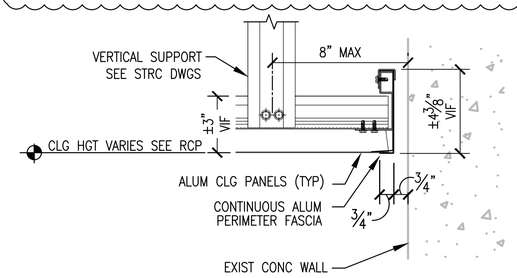
08 A-101 **EDGE DTL @ EXIST HVAC GRILL**
Scale = 3" = 1'-0" 3 2 1 0 3" 6" 9" 12"

AM 2

01 A-101 **NOT USED**
Scale = NOT TO SCALE

02 A-101 **NOT USED**
Scale = NOT TO SCALE

03 A-101 **NOT USED**
Scale = NOT TO SCALE



04 A-101 **EDGE DTL @ END WALL**
Scale = 3" = 1'-0" 3 2 1 0 3" 6" 9" 12"

FINAL

CONTRACT NO. FQ15093

DESIGNED	CF	01/15 DATE
DRAWN	CF	01/15 DATE
CHECKED	JT	01/15 DATE
APPROVED	JP	01/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION	
06-15	CF	CEILING SYSTEM DETAILS OMITTED	AM 2

STATE OF MARYLAND ROBERT E. STROH 17655 REGISTERED ARCHITECT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

METAL PAN CEILING DETAILS – I

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-A-500	M1272-009

SCOPE OF ELECTRICAL WORK

1. REMOVE EXISTING AND PROVIDE NEW PASSAGEWAY AND UNDERSIDE OF MEZZANINE LIGHTING.
2. DISCONNECT AND TEMPORARILY REMOVE CCTV CAMERAS, CEILING MOUNTED SPEAKERS AND MISCELLANEOUS EQUIPMENT. RE-INSTALL AND RECONNECT AFTER CEILING RENOVATION WORK IS COMPLETE.

ABBREVIATIONS

AVE.	AVENUE
BLVD.	BOULEVARD
BRKR.	BREAKER
CB	CIRCUIT BREAKER
CRS	CONTACT RAIL SCHEMATIC
DR.	DRIVE
EB	EASTBOUND
EMERG	EMERGENCY
EQN	EQUATION
FDR #1	FEEDER CIRCUIT BREAKER NUMBER IN SUBSTATION
HGTS	HEIGHTS
HWY	HIGHWAY
I.B.	INBOUND
LOR	LENGTH OF RAIL
LOCR	LENGTH OF CONTACT RAIL
N	NEGATIVE, NORTH
(N.I.C.)	NOT IN CONTRACT
OPER.	OPERATION
O.B.	OUTBOUND
P.I.T.O	POINT OF INTERSECTION OF TURNOUT
P.	POSITIVE
RD.	ROAD
SQ.	SQUARE
STA.	STATION
ST.	STREET
TPSS	TRACTION POWER SUBSTATION
TBS	TIE BREAKER STAION
TBKR #1	TIE CIRCUIT BREAKER NUMBER IN TIE BREAKER STATION
YD	YARD
YL	YARD LEAD
YLT	YARD LEAD TRACK

SYMBOLS

- DOWNLIGHT, NORMAL POWER
- DOWNLIGHT, EMERGENCY POWER
- CCTV CAMERA
- CEILING MOUNTED SPEAKER
- DOWNLIGHT, WALL WASHER
- JUNCTION BOX ABOVE CEILING

STATION LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	MOUNTING
A1	6" ROUND RECESSED DOWN LIGHT; LED, WIDE DISTRIBUTION 120/277V	LED 35K 1400 LUMENS	GOTHAM EVO-35-14-6AR-WD-LS-MVOLT 25WATTS	METAL CEILING PANEL RECESSED
A2	RETROFIT RECESSED LED DOWNLIGHT, SUITABLE FOR RECESSED MOUNTING IN CONCRETE CEILING	LED 35K 1800 LUMENS	GOTHAM EVO-R-35-18-6AR-WD-LS 27WATTS	CONCRETE CEILING RECESSED
A3	6" ROUND RECESSED WALLWASHER DOWN LIGHT; LED, 120/277V	LED 35K 1000 LUMENS	GOTHAM EVO-WW-35-10-6AR-LS-MVOLT 18WATTS	METAL CEILING PANEL RECESSED
B	8" ROUND DOWNLIGHT	35K 1500 LUMENS	LITHONIA DOM8LED-1500L-35K-277-DOAZ 35.8WATTS	METAL CEILING PANEL RECESSED

GENERAL NOTES

1. CONTRACTOR SHALL CONTACT WMATA AR (AUTHORITY REPRESENTATIVE) TO DEFINE ACCEPTABLE WORKING HOURS, SPACE FOR STORAGE OF MATERIALS, PARKING, ETC.
2. ALL MATERIALS PROVIDED SHALL BE UL LISTED, NEW AND CONFORM TO CONTRACT SPECIFICATIONS, DRAWINGS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
3. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.
4. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND THEY DO NOT INDICATE ALL PULL BOXES, OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED. FURNISHING SUCH MATERIALS AS REQUIRED TO MEET FIELD CONDITIONS AND NEC REQUIREMENTS SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY.
5. THE CONTRACTOR SHALL EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE CONTEMPLATED WORK PRIOR TO SUBMITTING A BID. ANY REQUESTED VARIANCE TO THESE CONTRACT DOCUMENTS SHALL BE SUBMITTED AS PART OF THE BID. ANY VARIANCE REQUIRED FOR FIELD CONDITIONS IDENTIFIED AFTER THE BID PERIOD WILL BE RESPONSIBILITY OF CONTRACTOR.
6. INDICATED DIMENSIONS OF EQUIPMENT ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE FINAL VERIFICATION OF ALL MEASUREMENTS SO THAT THE NEW EQUIPMENT CAN BE MANUFACTURED TO RETROFIT EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL ONLY WORK ON DE-ENERGIZED EQUIPMENT. ALL OUTAGES SHALL BE COORDINATED WITH WMATA AR.
8. CONTRACTOR SHALL TAKE PROPER ACTION TO SECURE AND PROTECT THE OPERATIONAL EQUIPMENT IN THE STATION OR FACILITY DURING CONTRACTOR'S WORK, TO PREVENT DAMAGE OR SHUT DOWN OF EQUIPMENT.
9. CONTRACTOR SHALL PROTECT EXISTING ELECTRICAL EQUIPMENT TO REMAIN FROM DUST AND WATER DURING CONTRACTOR'S WORK.
10. ALL NEW EQUIPMENT TO BE INSTALLED SHALL BE STORED PROPERLY. EQUIPMENT DAMAGED DURING SHIPPING, HANDLING, STORAGE, WATER OR OTHER CAUSES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR SHALL TEMPORARILY STORE THE EXISTING REMOVED EQUIPMENT UNTIL ITS REMOVAL. ANY STAGING AREA INSIDE THE FACILITY SHALL BE ESTABLISHED TO AVOID OBSTRUCTION TO EXISTING ELECTRICAL EQUIPMENT WITH LOCATION APPROVED BY WMATA AR. COORDINATE WITH THE AR TO DETERMINE WHETHER EQUIPMENT SHALL BE RETURNED TO WMATA OR DISPOSED OF BY CONTRACTOR.
12. INTERRUPTION OF SERVICE TO EQUIPMENT TO REMAIN SHALL BE KEPT TO A MINIMUM, SHALL OCCUR ONLY IN METRO NON-REVENUE HOURS AND SHALL BE COORDINATED WITH WMATA AR AT LEAST TWO WEEKS PRIOR TO THE REQUIRED OUTAGE.
13. CONTRACTOR SHALL OBTAIN & BECOME FAMILIAR WITH WMATA'S SAFETY AND OPERATING PROCEDURES & RULES. SAFETY TRAINING & CERTIFICATION FOR ALL CONTRACTOR EMPLOYEES ON THE WORK SITE IS MANDATORY.
14. A CLEAR AND UNOBSTRUCTED PATHWAY FROM TRACK TO STREET SHALL BE MAINTAINED AT ALL TIMES FOR PERSONNEL ACCESS. CONTRACTOR SHALL PROHIBIT SUCH ACTIVITIES AS BLOCKING DOORWAYS, PATHWAYS OR STAIRS WITH EQUIPMENT AND MATERIALS, DISMANTLING STAIRS AND OBSTRUCTING STREET HATCHWAYS.
15. NOT USED AM 2
16. ALL NEW POWER WIRES SHALL BE WITH RHW-2 INSULATION, LOW SMOKE, ZERO HALOGEN. ALL NEW CONDUITS - GRS TYPE. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH NFPA-130.
17. FOR AC POWER ONE LINE DIAGRAMS PLEASE REFER TO THE FOLLOWING DRAWINGS:
    MM-A-E26 - MEDICAL CENTER
18. TEMPORARY LIGHTING
    A. PROVIDE A TEMPORARY LIGHTING SYSTEM IN PUBLIC AREAS AFFECTED BY THE SCOPE OF WORK INCLUDING BUT NOT LIMITED TO PLATFORMS AND ACCESS PASSAGEWAYS. THE LIGHTING SYSTEM TO BE PROVIDED SHALL INCLUDE LIGHTING FIXTURES, WIRING, RACEWAY, AND SUPPORTS; AND SHALL COMPLY WITH WMATA DESIGN CRITERIA INCLUDING THE FOLLOWING:
    B. ILLUMINATION LEVELS SHALL BE 10FC (FOOT-CANDLES) AVERAGE AND 3FC MINIMUM.
    C. LIGHT SOURCE TYPE AND VOLTAGE SHALL BE IN ACCORDANCE WITH WMATA DESIGN CRITERIA.
    D. A MINIMUM OF 20% OF FIXTURES SHALL BE DESIGNATED AS EMERGENCY FIXTURES AND SHALL BE SUPPLIED FROM AN EMERGENCY SOURCE. EMERGENCY ILLUMINATION LEVELS SHALL COMPLY WITH WMATA DESIGN CRITERIA, INCLUDING THE REQUIREMENT OF 2 FC IN PLATFORMS AND ACCESS PASSAGEWAYS AND 2.5 FC IN EMERGENCY EGRESS PATHS.
    E. COORDINATE WITH THE WMATA AR FOR USE OF EXISTING NORMAL AND EMERGENCY POWER SOURCE FOR NORMAL AND EMERGENCY TEMPORARY LIGHTING.
    F. PROVIDE A TEMPORARY LIGHTING SUBMITTAL SHOWING THE FOLLOWING:
        1. PHOTOMETRIC PLANS TO DEMONSTRATE THAT THE PROPOSED LIGHTING PLAN WILL PROVIDE THE REQUIRED ILLUMINATION LEVELS.
        2. PLANS SHOWING PROPOSED LOCATIONS OF LIGHT FIXTURES, MOUNTING HEIGHTS, MOUNTING DETAILS, POWER SOURCE(S), ROUTING AND SUPPORT MEANS OF ALL TEMPORARY SUPPLY WIRING. INCLUDE LOCATION OF PROPOSED POWER SOURCES AND ANY ANCILLARY EQUIPMENT.
        3. CATALOG CUTS OF PROPOSED TEMPORARY LIGHTING FIXTURE TYPES, WATTAGES, VOLTAGES AND LUMEN OUTPUT, AND ALL WIRING, RACEWAY, AND SUPPORT MEANS.
        4. IF EXISTING PANELS ARE TO BE USED AS THE POWER SOURCE, SHOW ROUTING FROM POWER SOURCE. SHOW NUMBER OF CIRCUITS REQUIRED AND TOTAL LOAD IN KVA. VERIFY EXISTING PANEL HAS SUFFICIENT SPARE CAPACITY TO ACCOMMODATE LIGHTING LOAD BEING ADDED.
19. ALL REMOVED AND REPLACED EQUIPMENT, FIXTURES, CABLES, WIRING, CONDUIT, AND JUNCTION BOXES SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL MANNER. AM 2

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43224, EXPIRATION DATE 04–14–2015.

FINAL

CONTRACT NO. FQ15093

DESIGNED K. IBRAHIM 07/31/14 DATE
DRAWN V. BHALLA 07/31/14 DATE
CHECKED A. FISHEL 07/31/14 DATE
APPROVED J. PURDY 07/31/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06/15	KI	REVISED NOTES AM 2

STATE OF MARYLAND — VENKATA MADDUKURI — No. 43224 — PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

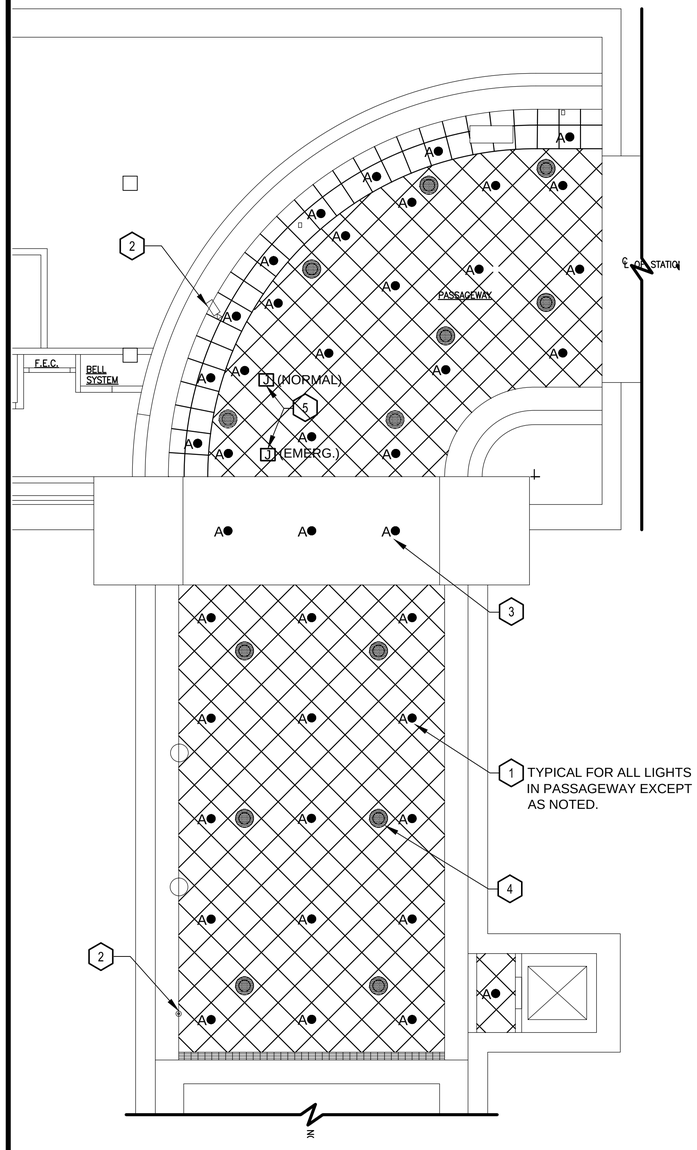
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

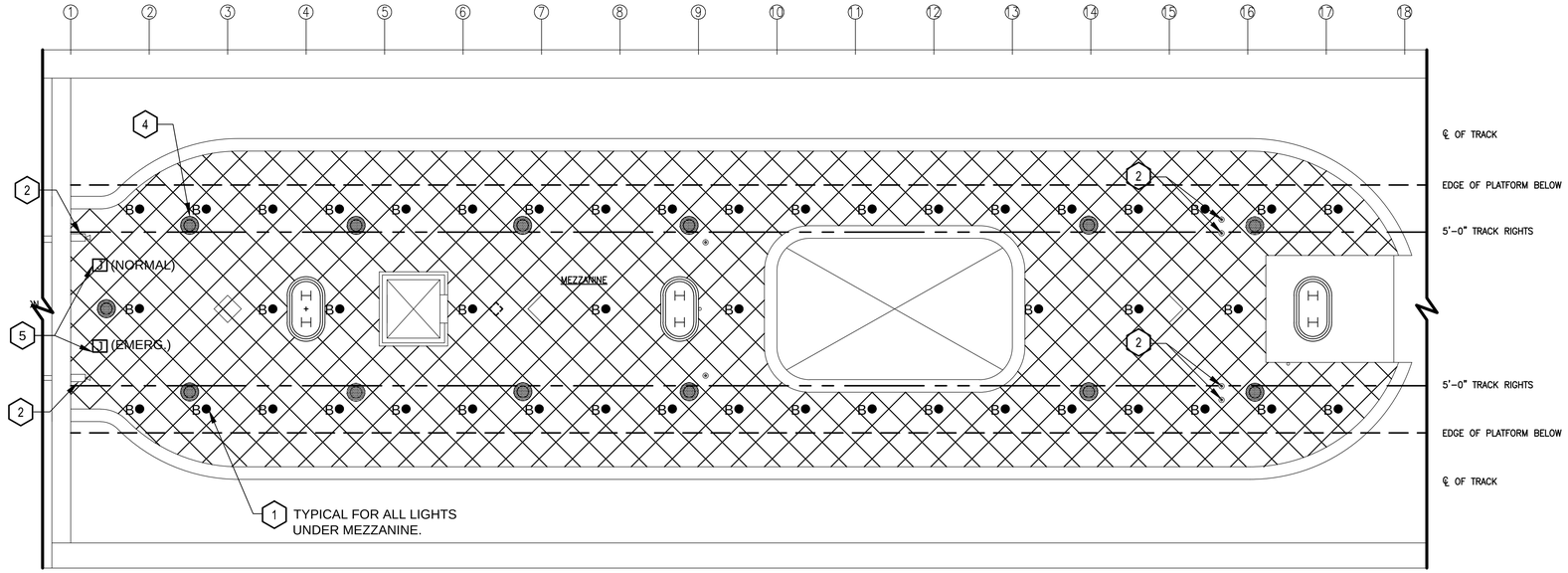
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

SCOPE OF ELECTRICAL WORK AND GENERAL NOTES ABBREVIATION, LIGHTING FIXTURE SCHEDULE

SCALE NOT TO SCALE | DRAWING NO. A10-E-001 | SHEET NO. M1272–047



PASSAGEWAY NEW LIGHTING PLAN



PLATFORM UNDERMEZZANINE AREA NEW LIGHTING PLAN

CONSTRUCTION KEY NOTES

1. NEW DOWNLIGHT RECESSED IN METAL PANEL CEILING, TYPICAL.
2. RE-INSTALL AND RECONNECT CCTV CAMERAS REMOVED IN DEMOLITION PHASE. COORDINATE NEW LOCATION WITH CEILING ARCHITECTURAL WORK. RELOCATE ASSOCIATED CONDUIT AND WIRING AS REQUIRED.
3. NEW RECESSED DOWNLIGHT MOUNTED IN CONCRETE CEILING, TYPICAL.
4. RELOCATED EXISTING RECESSED SPEAKER, TYPICAL. TEST ALL EXISTING TO REMAIN AND RELOCATED SPEAKERS FOR CORRECT OPERATION PRIOR TO RELOCATION. REPAIR OR REPLACEMENT OF SPEAKERS FOUND DEFECTIVE SHALL BE MADE BY WMATA PRIOR TO RELOCATION OF SPEAKERS BY CONTRACTOR. CONTRACTOR SHALL TEST RELOCATED SPEAKERS AT THE CONCLUSION OF WORK

AM 2

5. PROVIDE NEW BRANCH CIRCUIT WIRING FROM NEW FIXTURES UP TO LAST JUNCTION BOX. REUSE HOMERUN WIRING.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43224, EXPIRATION DATE 04-14-2015.

FINAL

CONTRACT NO. FQ15093

DESIGNED K. IBRAHIM 07/31/14 DATE
DRAWN V. BHALLA 07/31/14 DATE
CHECKED A. FISHEL 07/31/14 DATE
APPROVED J. PURDY 07/31/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06/26/15	KI	REVISED NOTES AM 2

STATE OF MARYLAND · REHAM MAMDOUH IBRAHIM · No. 43224 · PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

PASSAGEWAY AND PLATFORM UNDER MEZZANINE LIGHTING NEW WORK PLANS

SCALE 1/8"=1'-0" 2 1 0 2 4 6 8 10

DRAWING NO. A10-E-101

SHEET NO. M1272-049

SHEET NOTES:

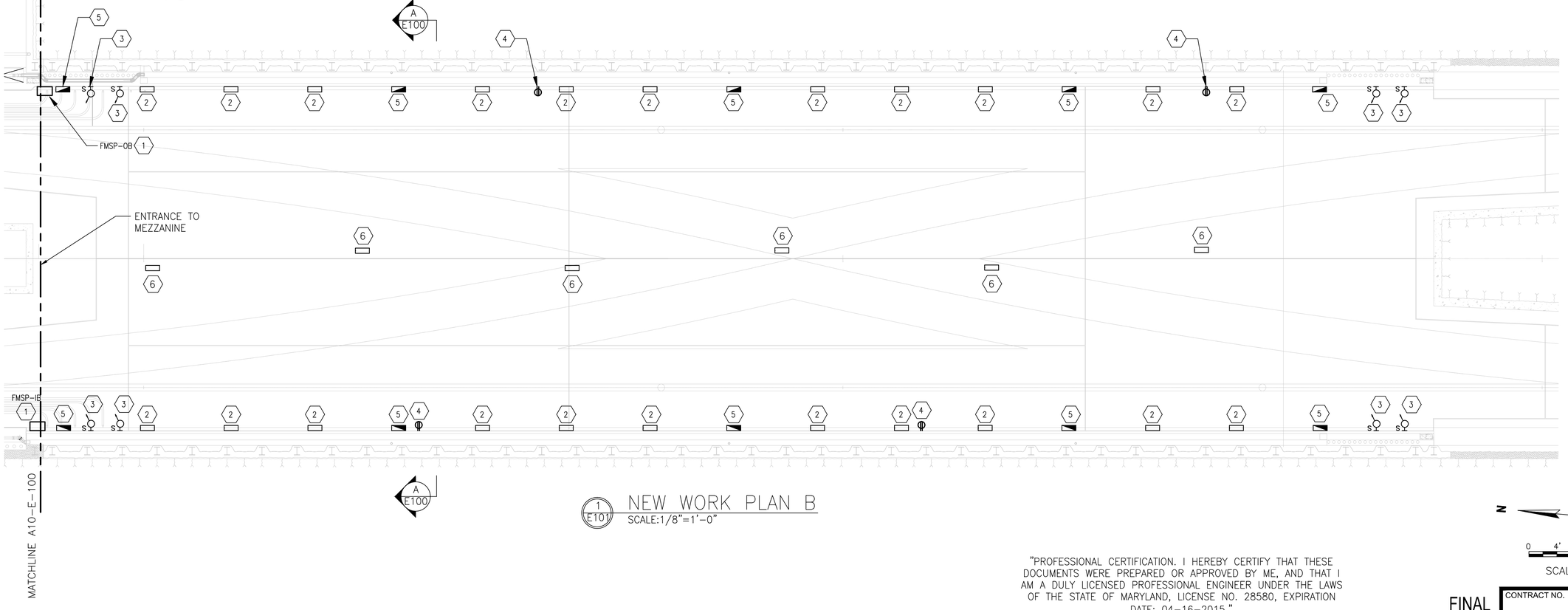
1. NEW ELECTRICAL LOAD CENTER FMSP-OB/FMSP-IB USED TO FEED RECEPTACLES SHOWN. LOAD CENTER SHALL BE OF TYPE AND MATERIAL AS SPECIFIED IN SECTION 16440. CONDUIT AND CONDUCTORS TO BE REPLACED BACK TO PANEL SPON. PANELS SHALL BE LOCATED WITHIN NEW WALL OPENINGS.
2. NEW 4' LED LIGHT FIXTURE. NEW LIGHT FIXTURE SHALL BE OSRAM-IL-L-50-745-LB-MV-24-GR. CONDUIT AND CONDUCTORS TO BE CONNECTED BACK TO PANEL ST. MOUNT 12'-4" AFG USING U-CHANNEL MOUNTED TO STRUCTURAL U-CHANNEL ON NEW SIDE WALL. AM2
3. WORK LIGHT FIXTURE AND TOGGLE SWITCH. LIGHT FIXTURE SHALL BE COOPER INDUSTRIES INVUE MODEL NUMBER VFS-K-B40-7-LED-E1-MST-BK WITH WEATHER PROOF RATED TOGGLE SWITCH. CONDUIT AND CONDUCTORS TO BE CONNECTED BACK TO PANEL ST. MOUNT 8' AFG USING U-CHANNEL ON STRUCTURAL PROVIDED U-CHANNEL. CONNECT ALL 8 WORK LIGHTS TO THEIR OWN BREAKER IN PANEL ST. AM2
4. NEW 125V 20A HEAVY DUTY DUPLEX RECEPTACLE. RECEPTACLE TO BE INSTALLED WITH WEATHER PROOF RATED WHILE IN USE COVER. CONDUIT AND CONDUCTORS TO BE CONNECTED BACK TO RESPECTIVE LOAD CENTER. MOUNT 12'-4" AFG USING U-CHANNEL MOUNTED TO STRUCTURAL U-CHANNEL ON NEW SIDE WALL.
5. NEW 4' LED EMERGENCY LIGHT FIXTURE. NEW LIGHT FIXTURE SHALL BE OSRAM-IL-L-50-745-LB-MV-24-GR. CONDUIT AND CONDUCTORS TO BE CONNECTED BACK TO PANEL SEH. MOUNT 12'-4" AFG USING U-CHANNEL MOUNTED TO STRUCTURAL U-CHANNEL ON NEW SIDE WALL. AM2

SHEET NOTES CONT.:

6. NEW 4' LED LIGHT FIXTURE. NEW LIGHT FIXTURE SHALL BE OSRAM-IL-L-50-745-LB-MV-24-GR. CONDUIT AND CONDUCTORS TO BE CONNECTED BACK TO PANEL ST. FIXTURES ARE LOCATED IN MEZZANINE SPACE BETWEEN NEW UMBRELLA ARCH AND THE EXISTING TUNNEL CEILING. SEE TOWER STAIR PLAN ON A10-E-100 FOR SWITCH LOCATION.

GENERAL NOTES:

1. REFER TO PART 1 DRAWING T-E-113 FOR CIRCUIT NUMBERS.



NEW WORK PLAN B
SCALE:1/8"=1'-0"

N

0 4' 8' 16'

SCALE:1/8"=1'

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 28580, EXPIRATION DATE: 04-16-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	J. SPICHER	01-15 DATE
DRAWN	J. SPICHER	01-15 DATE
CHECKED	B. SEIP	01-15 DATE
APPROVED	B. SEIP	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		ADDED MOUNTING HEIGHT TO NOTES AM2

STATE OF MARYLAND BRIAN ALEXANDER SEIP No. 28580 PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

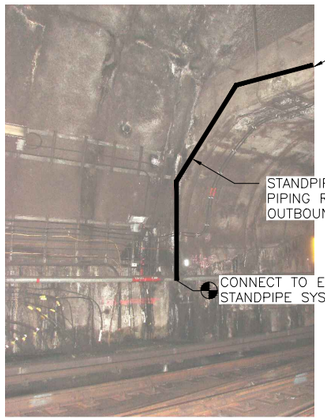
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

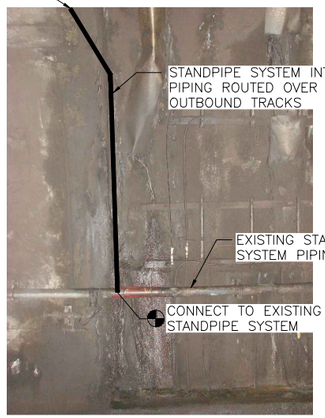
ELECTRICAL
NEW WORK PLAN B

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-E-101	M1272-109



STANDPIPE PICTURE 1

SCALE: NONE



STANDPIPE PICTURE 2

SCALE: NONE

N

GENERAL NOTES FOR FIRE PROTECTION AND PLUMBING

1 FIRE PROTECTION SYSTEM STANDPIPE WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:

A. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 14

B. ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINACES.

2 PROVIDE A COMPLETE DRY STANDPIPE SYSTEM MODIFICATIONS AS INDICATED, AND IN ACCORDANCE WITH ALL APPLICABLE NFPA STANDARDS.

3 CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE.

4 ALL COMPONENTS OF THE STANDPIPE SYSTEM TO CONFORM TO THE LATEST EDITION OF NFPA 14.

5 COORDINATE WORK OF THIS TRADE WITH THE WORK OF ALL OTHER TRADES. ANY REWORK REQUIRED DUE TO THE LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTORS.

6 PIPING AND EQUIPMENT INDICATED ON THE DRAWINGS ARE SCHEMATIC AND SHOWN FOR COORDINATION PURPOSES ONLY.

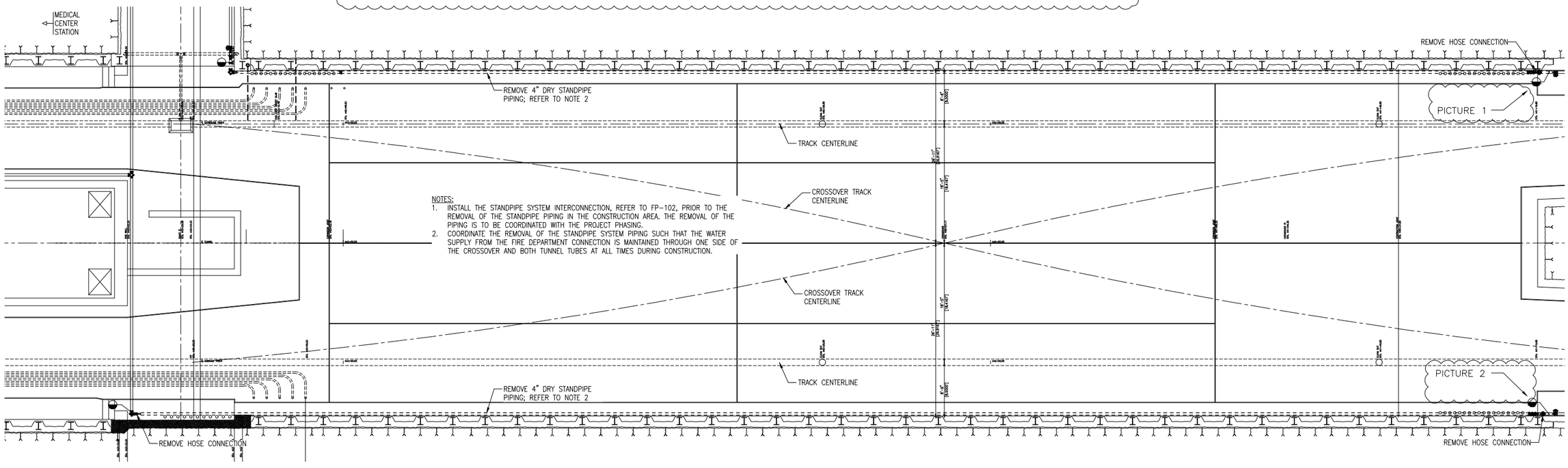
7 PROVIDE AND INSTALL ALL BONDING AND GROUNDING FOR THE SYSTEM

8 COORDINATE WORK WITH STRUCTURAL FEATURES AND PROVIDE OFFSETS

9 PLUMBING WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:

A. INTERNATIONAL PLUMBING CODE.

B. ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINACES.



NOTES:

1. INSTALL THE STANDPIPE SYSTEM INTERCONNECTION, REFER TO FP-102, PRIOR TO THE REMOVAL OF THE STANDPIPE PIPING IN THE CONSTRUCTION AREA. THE REMOVAL OF THE PIPING IS TO BE COORDINATED WITH THE PROJECT PHASING.
2. COORDINATE THE REMOVAL OF THE STANDPIPE SYSTEM PIPING SUCH THAT THE WATER SUPPLY FROM THE FIRE DEPARTMENT CONNECTION IS MAINTAINED THROUGH ONE SIDE OF THE CROSSOVER AND BOTH TUNNEL TUBES AT ALL TIMES DURING CONSTRUCTION.

FIRE PROTECTION DEMOLITION PLAN

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

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	T. BRANSOM	01-15 DATE
DRAWN	T. BRANSOM	01-15 DATE
CHECKED	P. HUFFMAN	01-15 DATE
APPROVED	P. HUFFMAN	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6-15	TB	ADDED PICTURES AND NOTES AM 2

STATE OF MARYLAND · PAUL W. HUFFMAN · No. 22331 · PROFESSIONAL ENGINEER
2/18/15

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

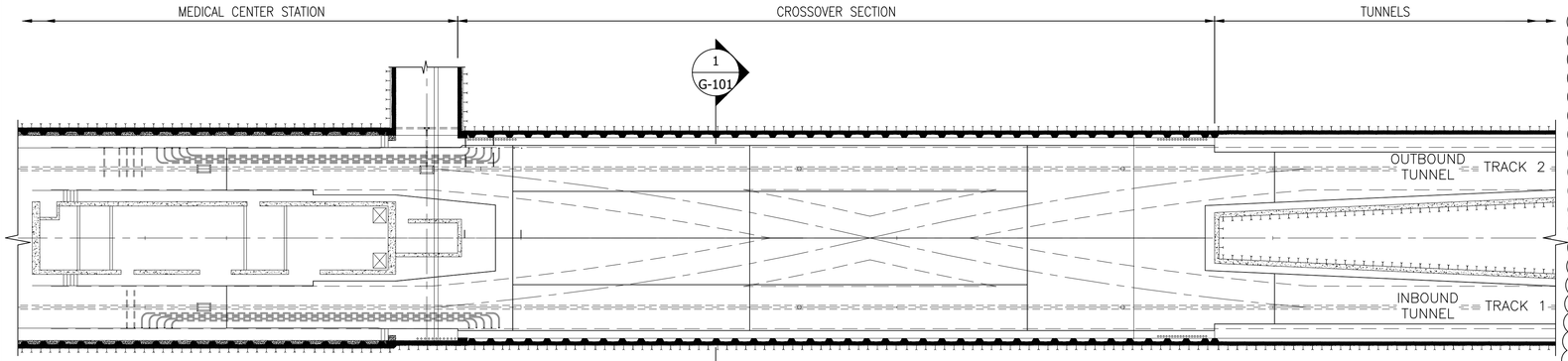
APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2
FIRE PROTECTION DEMOLITION PLAN

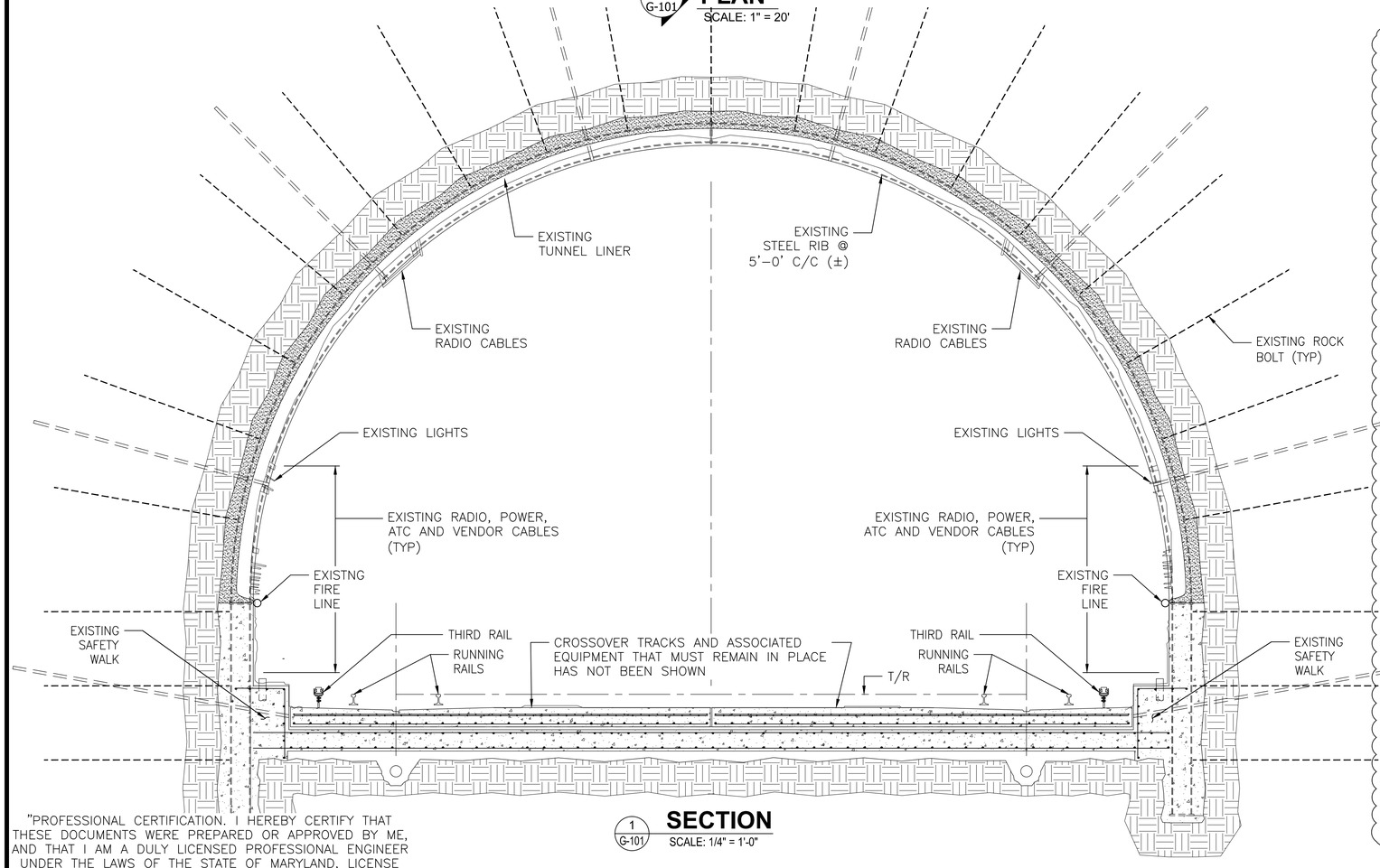
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	A10-FP-101	M1272-104



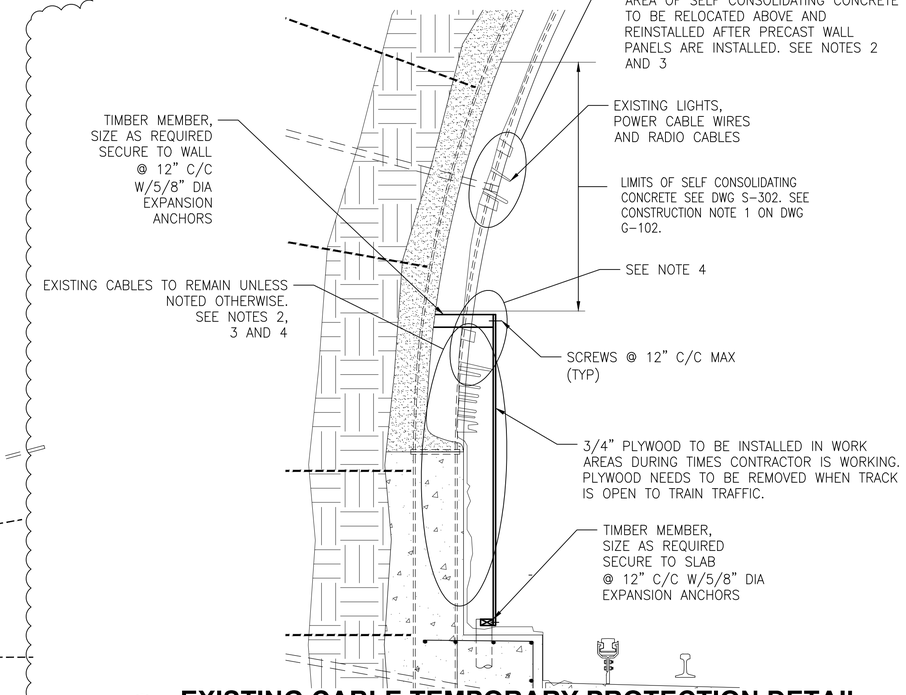
1 G-101 **PLAN**
SCALE: 1" = 20'

1 G-101 **PICTURE 1**
SCALE: NTS

1 G-101 **PICTURE 2**
SCALE: NTS



1 G-101 **SECTION**
SCALE: 1/4" = 1'-0"



1 G-101 **EXISTING CABLE TEMPORARY PROTECTION DETAIL**
SCALE: 1/2" = 1'-0"

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING CABLES DURING WALL WORK. RECOMMENDED DETAIL IS SHOWN ABOVE. 3/4" PLYWOOD TO BE INSTALLED WHILE CONTRACTOR IS WORKING ON THE WALL ABOVE. PLYWOOD NEEDS TO BE REMOVED WHEN TRACK IS OPEN TO TRAIN TRAFFIC. CONTRACTOR MUST TAKE PRECAUTIONS DURING ALL HIS OPERATIONS NOT TO DAMAGE EXISTING CABLES.
2. SEE PICTURE 1 AND PICTURE 2 FOR GENERAL VIEW OF EXISTING WALLS.
3. SEE ELECTRICAL DRAWINGS FOR PART 1 AND 2 FOR ADDITIONAL INFORMATION. SEE EXISTING REFERENCE DRAWINGS A10-E-100, A10-E-611, A-10-E-612, A10-E-613, A10-E-614 AND A10-E-620 DATED 03/13 FOR ADDITIONAL INFORMATION.
4. CONTRACTOR TO MOVE DOWN AND GROUP CABLES (SEE REFERENCE DRAWING A10-E-611 AND A10-E-613 FOR CABLES) TO BELOW TOP OF OPENING IN PRECAST WALL PANEL IF CABLES ARE LOCATED ABOVE TOP OF PRECAST WALL PANEL OPENING. AM2

0 10 20 40 SCALE:1"=20'

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

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	P. GRUBB	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	ADDED TEMPORARY EXISTING CABLE DETAIL AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

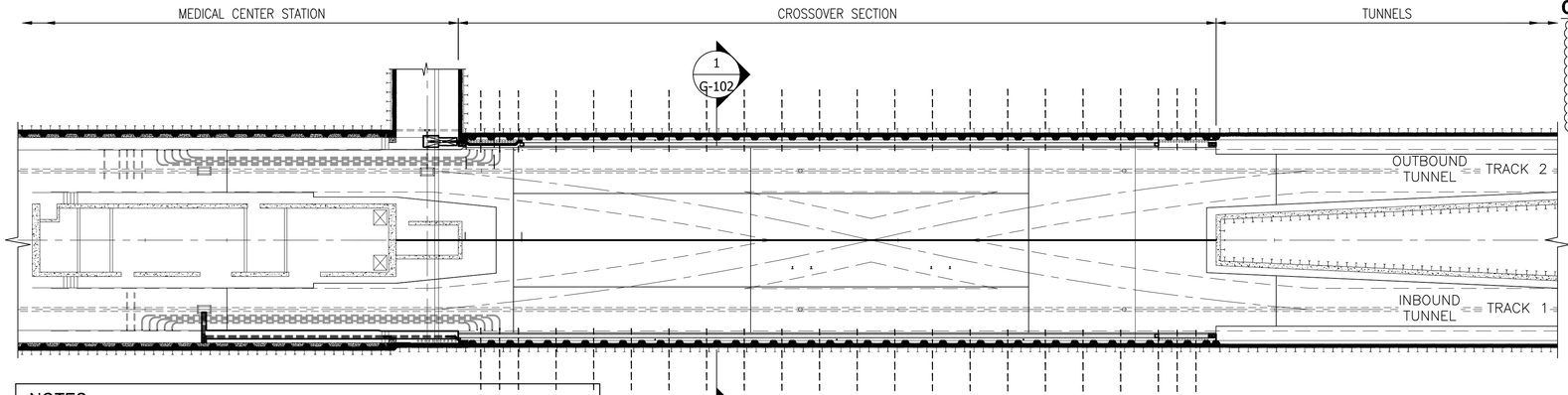
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

GENERAL
EXISTING CONDITION

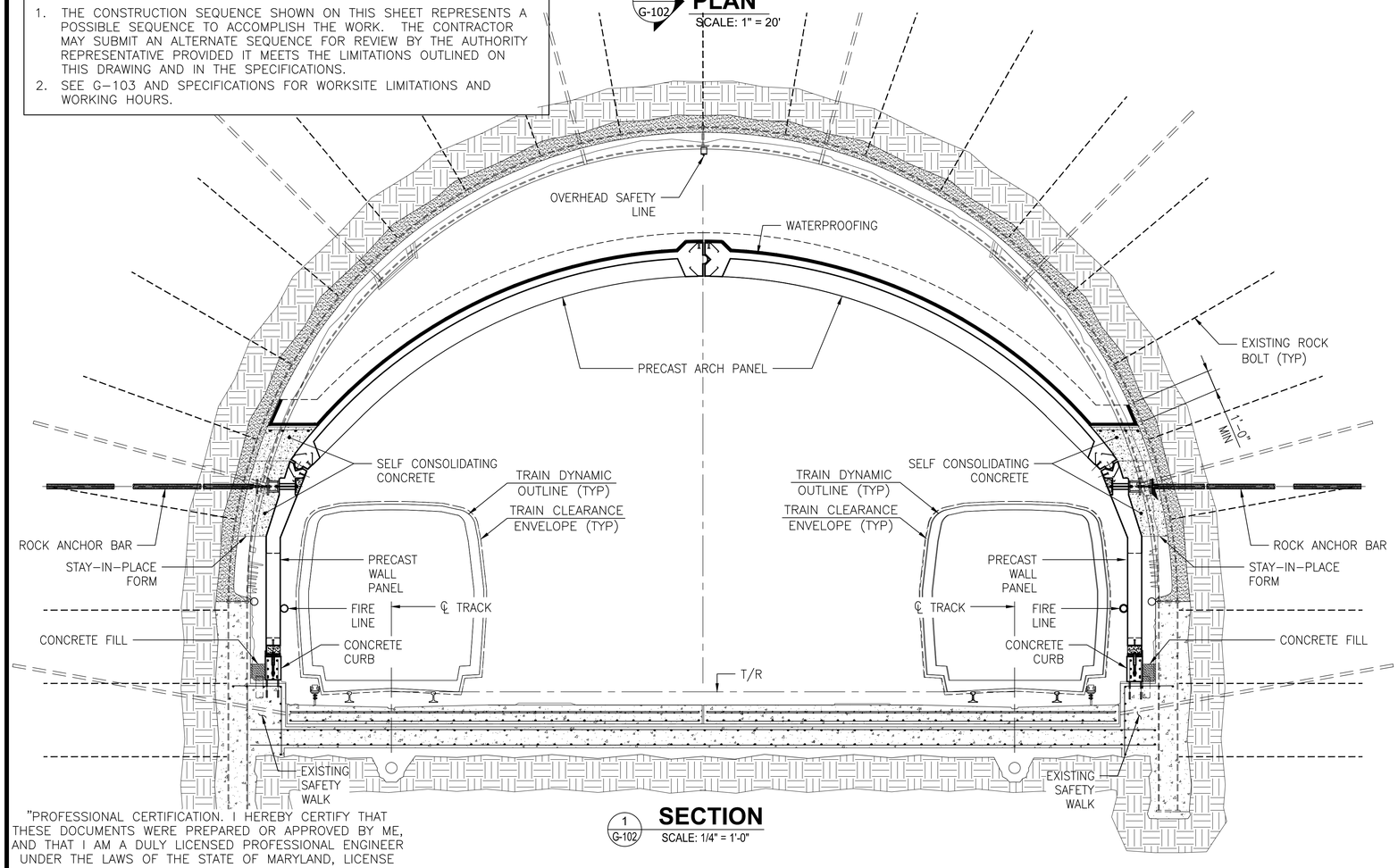
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-G-101	M1272-078



NOTES:

1. THE CONSTRUCTION SEQUENCE SHOWN ON THIS SHEET REPRESENTS A POSSIBLE SEQUENCE TO ACCOMPLISH THE WORK. THE CONTRACTOR MAY SUBMIT AN ALTERNATE SEQUENCE FOR REVIEW BY THE AUTHORITY REPRESENTATIVE PROVIDED IT MEETS THE LIMITATIONS OUTLINED ON THIS DRAWING AND IN THE SPECIFICATIONS.
2. SEE G–103 AND SPECIFICATIONS FOR WORKSITE LIMITATIONS AND WORKING HOURS.

1 G-102 **PLAN**
SCALE: 1" = 20'



1 G-102 **SECTION**
SCALE: 1/4" = 1'-0"

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05–03–2015."

CONSTRUCTION SEQUENCE

1. SEE EXISTING CABLE TEMPORARY PROTECTION DETAIL ON DWG G–101 FOR INFORMATION HOW TO PROTECT THE EXISTING CABLES DURING TIMES CONTRACTOR IS WORKING ON THE EXISTING WALL ABOVE. SEE EXISTING CABLE TEMPORARY PROTECTION DETAIL ON DWG G–101 FOR INFORMATION ON WHICH CABLES ARE TO BE RELOCATED TEMPORARILY BY CONTRACTOR TO 15 FEET ABOVE THE EXISTING SAFETY WALK PRIOR TO STARTING OF WORK INSIDE OF CROSSOVER AREA. NO EXISTING CABLES OR WIRES TO BE EMBEDDED IN THE SELF–CONSOLIDATING CONCRETE AREA. SEE PICTURES 1 AND PICTURE 2 ON DWG G–101 FOR GENERAL VIEW OF EXISTING WALLS. CONTRACTOR TO VERIFY THAT 15 FOOT HEIGHT IS ADEQUATE NOT TO INTERFER WITH INSTALLATION OF PRECAST WALL PANELS. SEE NOTES 23 AND 30 BELOW. ALL THIS WORK NEEDS TO BE COORDINATED WITH THE AUTHORITY REPRESENTATIVE. EXISTING CABLES AND WIRES ARE LABELED IN THE FIELD AT EACH END OF CROSSOVERS. AM2
2. CONTRACTOR SHALL INSTALL TEMPORARY, WORK, AND EMERGENCY LIGHTING ABOVE THE LOCATION OF PRECAST WALL PANELS PRIOR TO REMOVAL OF EXISTING LIGHTS. LOCATION OF TEMPORARY LIGHTING NEEDS TO BE COORDINATED WITH CABLES AND WIRES, SEE NOTE 1 ABOVE.
3. REMOVE EXISTING LIGHTS AFTER ITEMS IN NOTES 1 AND 2 ARE COMPLETED.
4. INSTALL BYPASS FIRELINE AND TEST (SEE FIRE PROTECTION DRAWINGS).
5. REMOVE EXISTING CONCRETE TO INSTALL NEW DRAINS AND CONNECT TO EXISTING LINE AT TRACK NO. 2 AND TO CATCH BASIN ON TRACK NO. 1. ENCASE NEW PIPES IN CONCRETE AS DETAILED ON CONTRACT DRAWINGS.
6. REMOVE EXISTING FIRELINE FROM THE WALL NEXT TO TRACK NO. 1. BYPASS FIRELINE MUST BE INSTALLED.
7. DRILL HOLES AND INSTALL HORIZONTAL ROCK ANCHOR BARS AND PLATES TRACK NO. 1 SIDE, GROUT AND TEST.
8. REMOVE BUILDUP MATERIAL ON THE TOP OF EXISTING SAFETY WALK NEXT TO TRACK NO. 1. ALL BUILDUP MATERIAL MUST BE REMOVED DOWN TO SOUND CONCRETE BY MECHANICAL MEANS. POWER WASH THE EXISTING WALL TO 15 FEET ABOVE SAFETY WALK INCLUDING TOP OF EXISTING SAFETY WALK. DO NOT DAMAGE THE EXISTING CABLES THAT REMAIN ON THE WALL. AM2
9. DRILL HOLES FOR CONCRETE CURB AND CAST–IN–PLACE COLUMNS, GROUT IN DOWELS, AND INSTALL HORIZONTAL REINFORCING. CONCRETE CAST–IN–PLACE CONCRETE CURB AND PRECAST WALL AND ARCH PANELS SHALL BE BONDED OR WELDED TO PROVIDE ELECTRICAL CONTINUITY AS NOTED ON STRUCTURAL DRAWINGS AND AS SSHOWN ON WMATA STANDARD DRAWINGS. LOCATION AND ELEVATION OF CONCRETE CURB IS VERY CRITICAL FOR INSTALLATON OF PRECAST WALL PANELS AND ARCH PANELS. SEE STRUCTURAL DRAWINGS S–102, S–201, AND S–202 FOR LOCATION AND CURB ELEVATIONS. SURVEY FORMWORK FOR CONCRETE CURB PRIOR TO PLACEMENT OF CONCRETE AND ALSO AFTER PLACEMENT OF CONCRETE.
10. INSTALL FORMWORK AND EMBEDDED STAINLESS STEEL PLATES AND PLACE CONCRETE CURB.
11. PLACE CONCRETE FILL BETWEEN CONCRETE CURB AND EXISTING CONCRETE LINER, SLOPE FILL AS SHOWN ON THE CONTRACT DRAWINGS. CONTRACTOR MUST TAKE PRECAUTIONS NOT TO DAMAGE EXISTING CABLES ON THE WALL. AM2
12. DRILL HOLES AND INSTALL HORIZONTAL ROCK ANCHOR BARS AND PLATES ON TRACK NO. 2 SIDE, GROUT AND TEST.
13. REMOVE BUILDUP MATERIAL ON THE TOP OF EXISTING SAFETY WALK NEXT TO TRACK NO. 2. ALL BUILDUP MATERIAL MUST BE REMOVED DOWN TO SOUND CONCRETE BY MECHANICAL MEANS. POWER WASH THE EXISTING WALL TO 15 FEET ABOVE SAFETY WALK INCLUDING TOP OF EXISTING SAFETY WALK. DO NOT DAMAGE THE EXISTING CABLES THAT REMAIN ON THE WALL. AM2
14. DRILL HOLES FOR CONCRETE CURB AND CAST–IN–PLACE COLUMNS, GROUT IN DOWELS AND INSTALL HORIZONTAL REINFORCING. CONCRETE CAST–IN–PLACE CONCRETE CURB AND PRECAST WALL AND ARCH PANELS SHALL BE BONDED OR WELDED TO PROVIDE ELECTRICAL CONTINUITY AS SHOWN ON STRUCTURAL DRAWINGS AND WMATA STANDARD DRAWINGS. LOCATION AND ELEVATION OF CONCRETE CURB IS VERY CRITICAL FOR INSTALLATON OF PRECAST WALL PANELS AND ARCH PANELS. SEE STRUCTURAL DRAWINGS S–102, S–201, AND S–202 FOR LOCATION AND CURB ELEVATIONS. SURVEY FORMWORK FOR CONCRETE CURB PRIOR TO PLACEMENT OF CONCRETE AND ALSO AFTER PLACEMENT OF CONCRETE. BOTH CONCRETE CURBS MUST BE PARALLEL, AND TOP OF CURB ELEVATIONS MUST MATCH.
15. INSTALL FORMWORK AND EMBEDDED STAINLESS STEEL PLATES AND PLACE CONCRETE.
16. PLACE CONCRETE FILL BETWEEN CONCRETE CURB AND EXISTING CONCRETE LINER, SLOPE FILL AS SHOWN ON THE CONTRACT DRAWINGS. CONTRACTOR MUST TAKE PRECAUTIONS NOT TO DAMAGE EXISTING CABLES ON THE WALL DURING PLACEMENT OF CONCRETE FILL. AM2
17. INSTALL OVERHEAD FALL PROTECTION LINE AT CENTER OF ARCH AS SHOWN ON CONTRACT DRAWINGS AND TEST. INSTALL HATCH, LADDER, AND RAILING AT TOP OF EXISTING STAIRWELL.
18. INSTALL CONNECTION PLATES ON THE ROCK ANCHOR BARS NEXT TO TRACK NO. 1; ADJUST HORIZONTALLY TO CORRECT LOCATION. WELD HORIZONTAL STAINLESS STEEL CHANNELS AT CORRECT ELEVATION. PRECAST WALL PANEL CONNECTION LOCATIONS MUST MATCH PRECAST WALL BOLT LOCATIONS. CONTRACTOR MUST SUBMIT SURVEYED DATA TO WMATA VERIFYING THAT ALL CONNECTION LOCATIONS ARE WITHIN TOLERANCES PRIOR TO INSTALLATION OF WALL PANEL.
19. INSTALL THREE (3) 3–INCH–DIAMETER FRP VERTICAL DRAIN LINES ON WALL BEHIND PRECAST WALL PANELS AND ONE (1) 4–INCH–DIAMETER FRP VERTICAL DRAIN AT NORTH END.
20. INSTALL STAY–IN–PLACE FORMWORK BEHIND PRECAST WALL PANELS TO SUPPORT SELF–CONSOLIDATING CONCRETE. FORMWORK MUST BE DESIGNED TO SUPPORT WEIGHT OF CONCRETE.
21. INSTALL PRECAST WALL PANELS; BOLT AND PLACE SELF–LEVELING CONCRETE TO TOP OF PRECAST WALL PANELS. START INSTALLING PRECAST WALL PANELS AT SOUTH END. IT IS RECOMMENDED TO PLACE CONCRETE IN LAYERS. CONTRACTOR MUST DEVELOP AND SUBMIT PLANS AND PROCEDURES FOR CABLE PROTECTION DURING PRECAST WALL ERECTION TO AUTHORITY REPRESENTATIVE FOR APPROVAL. AM2
22. INSTALL NEW FIRELINE ON THE WALL NEXT TO TRACK NO. 1 AND TEST.
23. INSTALL RELOCATED WIRES AND CABLES ON FACE OF NEW PRECAST WALL, SEE NOTE 1. COORDINATE WITH AUTHORITY REPRESENTATIVE. CONTRACTOR TO INSTALL NEW RADIO CABLES AT MEDICAL CENTER CROSSOVER INCLUDING STAND–OFFS IN PERMANENT POSITION AND TEST. WMATA WILL CONNECT TO EXISTING CABLES AT EACH END.
24. REMOVE FIRE LINE NEXT TO TRACK NO. 2.
25. INSTALL CONNECTION PLATES ON THE ROCK ANCHOR BARS NEXT TO TRACK NO. 2; ADJUST HORIZONTALLY TO CORRECT LOCATION. WELD HORIZONTAL STAINLESS STEEL CHANNELS AT CORRECT ELEVATION. PRECAST WALL PANEL CONNECTION LOCATIONS MUST MATCH PRECAST WALL BOLT LOCATIONS.
26. INSTALL THREE (3) 3–INCH–DIAMETER FRP VERTICAL DRAIN LINES ON WALL BEHIND PRECAST WALL PANELS AND ONE (1) 4–INCH–DIAMETER FRP VERTICAL DRAIN AT NORTH END.
27. INSTALL STAY–IN–PLACE FORMWORK BEHIND PRECAST WALL PANEL TO SUPPORT SELF–LEVELING CONCRETE.
28. INSTALL PRECAST WALL PANELS; BOLT AND PLACE SELF–CONSOLIDATING CONCRETE TO TOP OF PRECAST WALL PANELS. START INSTALLING PRECAST WALL PANELS AT SOUTH END.
29. INSTALL NEW FIRELINE ON THE WALL NEXT TO TRACK NO. 2 AND TEST.
30. INSTALL RELOCATED WIRES AND CABLES ON FACE OF NEW PRECAST WALL, SEE NOTE 1. COORDINATE WITH AUTHORITY REPRESENTATIVE. CONTRACTOR TO INSTALL NEW RADIO CABLES AT MEDICAL CENTER CROSSOVER INCLUDING STAND–OFFS IN PERMANENT POSITION AND TEST. WMATA WILL CONNECT TO EXISTING CABLES AT EACH END.
31. REMOVE BYPASS FIRELINE.
32. INSTALL PRECAST ARCH PANELS AND CONNECT PRECAST MEMBERS WITH PLATES. START INSTALLATION AT SOUTH END.
33. GROUT ALL JOINTS BETWEEN PRECAST ARCH PANELS.
34. INSTALL SELF–CONSOLIDATING CONCRETE BEHIND LOWER PORTION OF THE PRECAST ARCH PANELS ON BOTH SIDES.
35. INSTALL LIGHTS, OUTLETS, AND SWITCHES ON PRECAST WALL PANELS. SEE ELECTRICAL DRAWINGS.
36. INSTALL WATERPROOFING COATING ON THE TOP OF ARCH SECTIONS.
37. INSTALL CHAIN–LINK FENCE WITH SUPPORTS AT NORTH END OF THE CROSSOVER.
38. AT END OF PROJECT, CONTRACTOR SHALL REMOVE METAL PANS OVER THE ARCH AREA.

0 10' 20' 40' SCALE:1"=20'

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

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01–15
		DATE
DRAWN	P. GRUBB	01–15
		DATE
CHECKED	V. CECKA	01–15
		DATE
APPROVED	M. AVERSO	01–15
		DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06–15	VC	REVISED NOTES AM 2

STATE OF MARYLAND MARTHA JEAN AVERSO 22331 REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

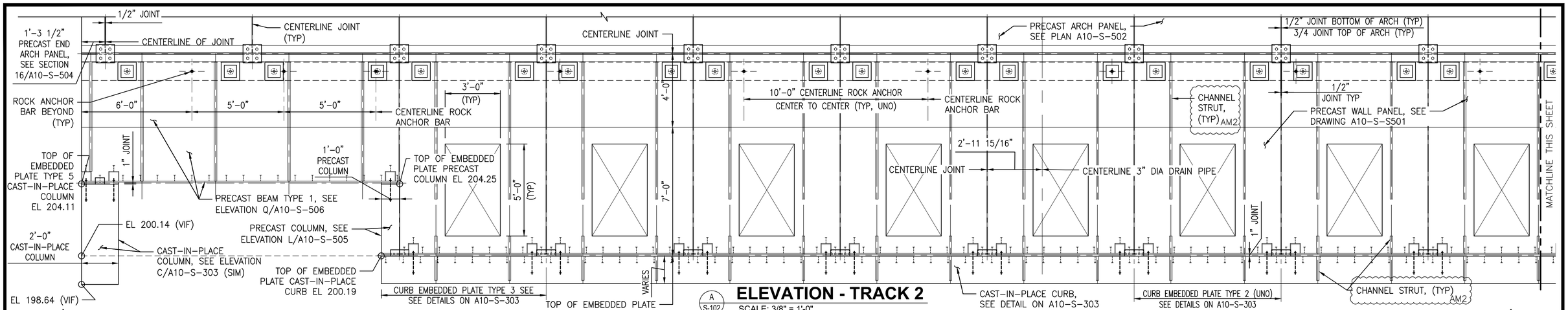
GFP A Gannett Fleming/Parsons JOINT VENTURE

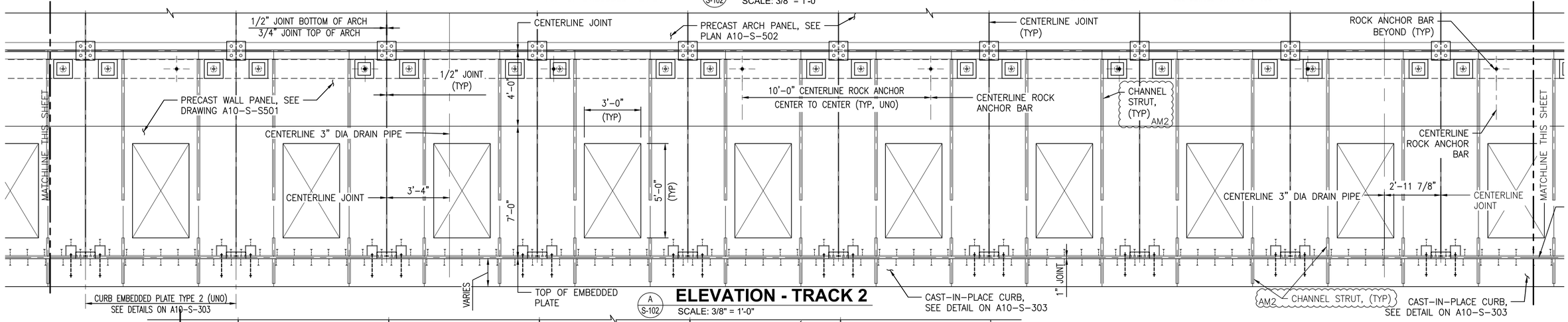
SUBMITTED _____
PROJECT MANAGER

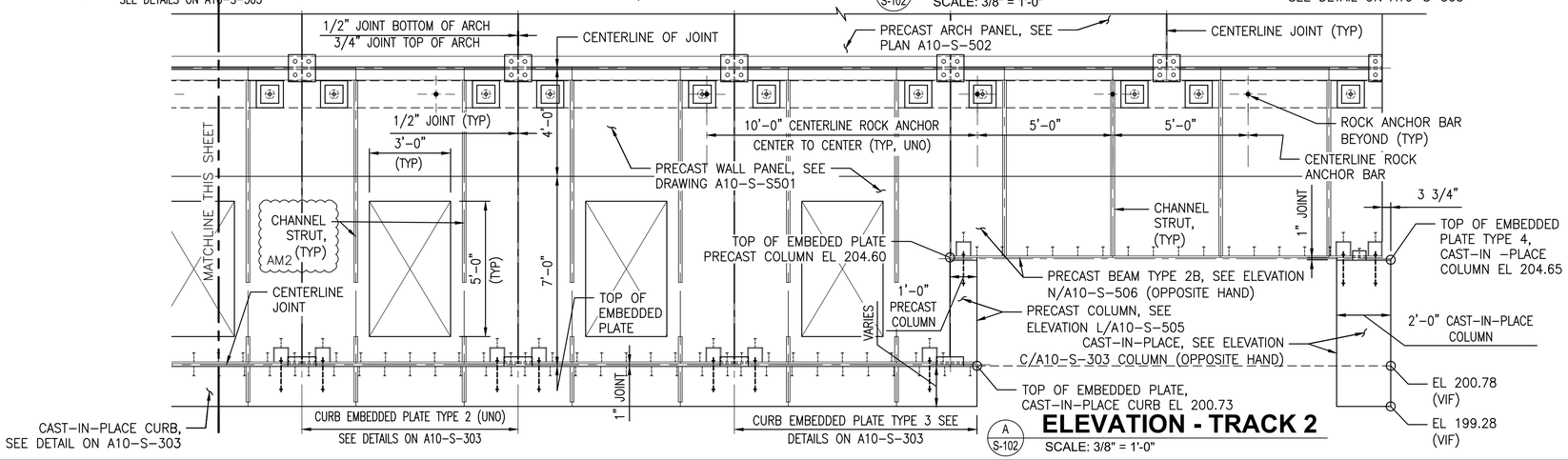
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

GENERAL CONSTRUCTION SEQUENCE

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-G-102	M1272-079







NOTES:

1. FOR ADDITIONAL DIMENSIONS AND STATIONING, SEE DRAWING A10-S-102.

0 2' 4' 6'

SCALE: 3/8"=1'

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15
	DATE	
DRAWN	D. DILLON	01-15
	DATE	
CHECKED	V. CECKA	01-15
	DATE	
APPROVED	M. AVERSO	01-15
	DATE	

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		CHANGED UNISTRUT TO STRUT AM 2"

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

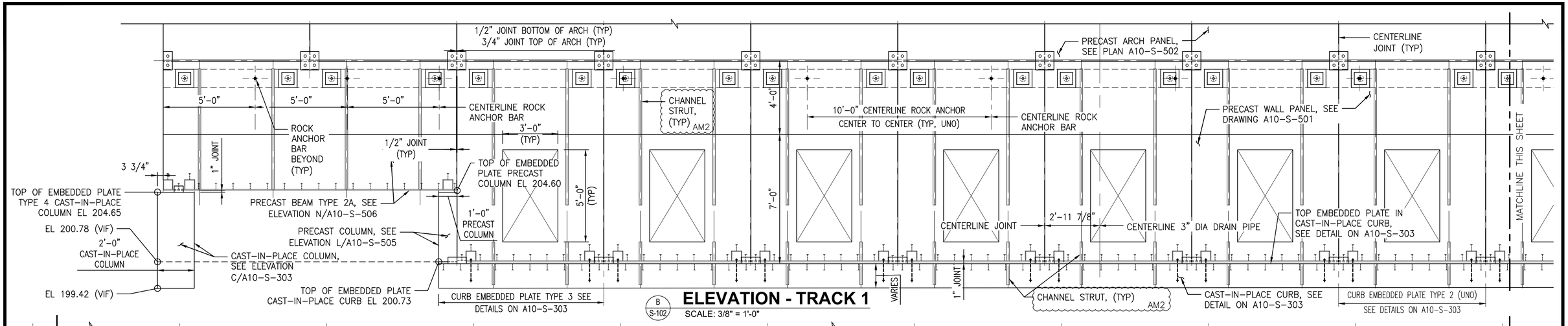
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

STRUCTURAL
EAST PRECAST PANEL ELEVATION

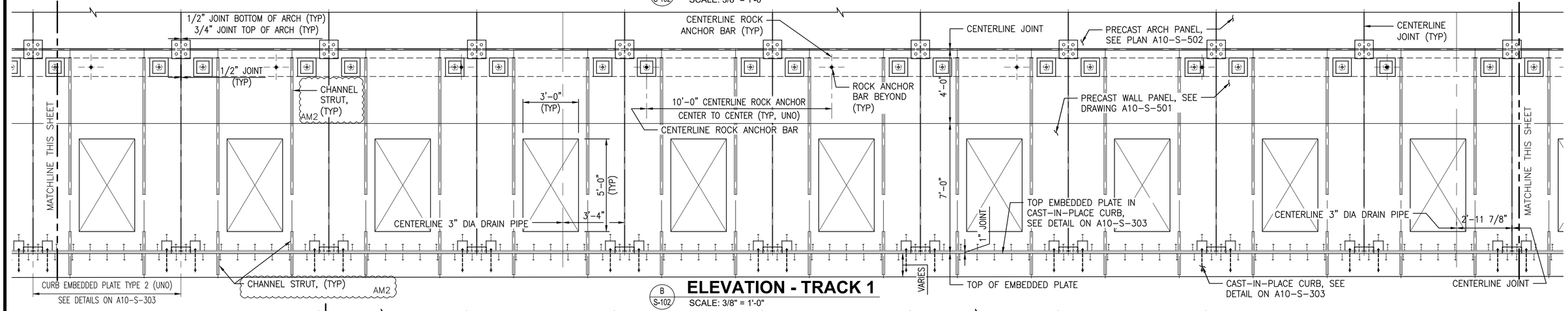
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-201	M1272-088



B S-102

ELEVATION - TRACK 1

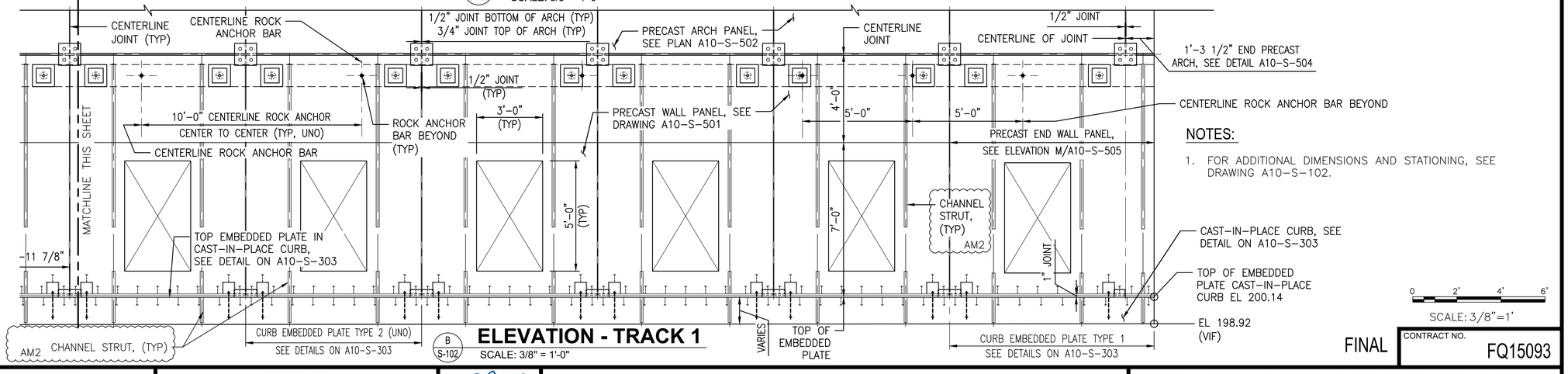
SCALE: 3/8" = 1'-0"



B S-102

ELEVATION - TRACK 1

SCALE: 3/8" = 1'-0"



B S-102

ELEVATION - TRACK 1

SCALE: 3/8" = 1'-0"

NOTES:

1. FOR ADDITIONAL DIMENSIONS AND STATIONING, SEE DRAWING A10-S-102.

0 2' 4' 6'

SCALE: 3/8"=1'

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		CHANGED UNISTRUT TO STRUT AM 2"

STATE OF MARYLAND · CYNTHIA JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

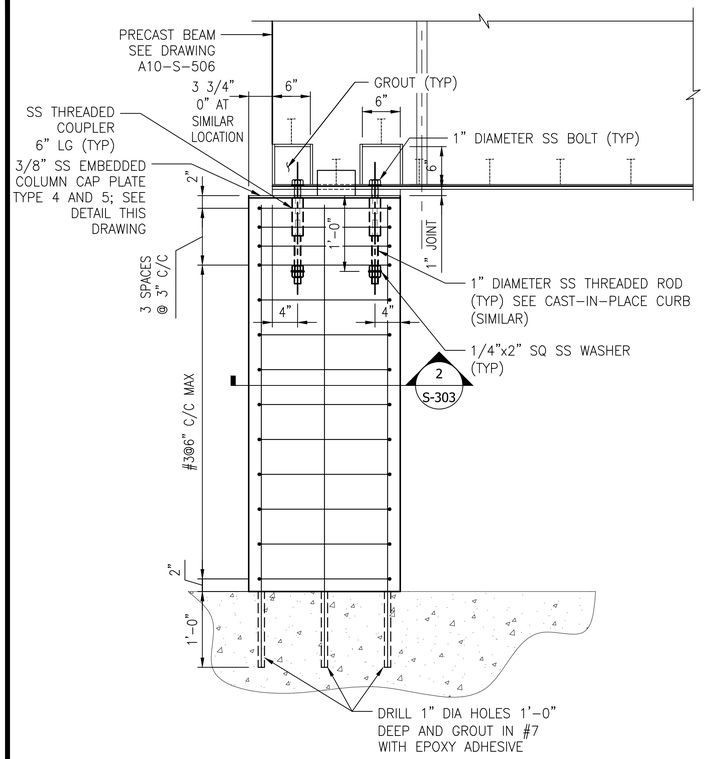
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

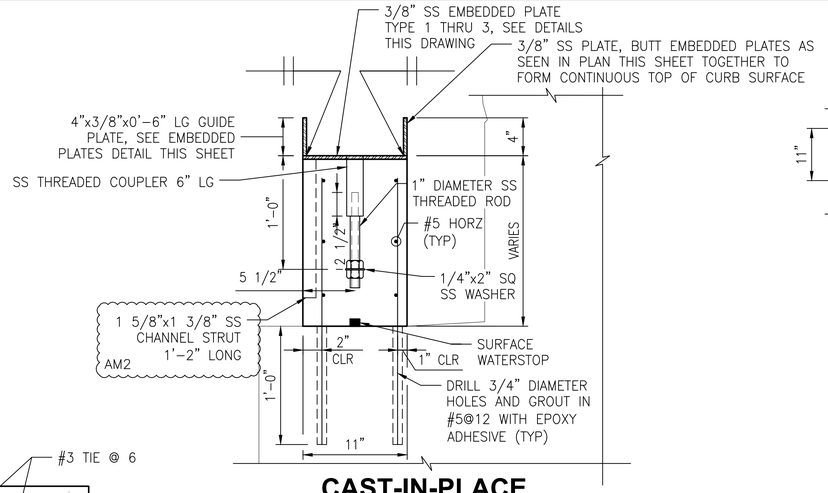
STRUCTURAL
WEST PRECAST PANEL ELEVATION

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-202	M1272-089



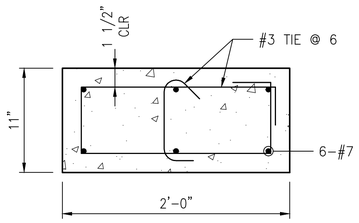
CAST-IN-PLACE COLUMN ELEVATION

C S-303 SCALE: 1" = 1'-0"



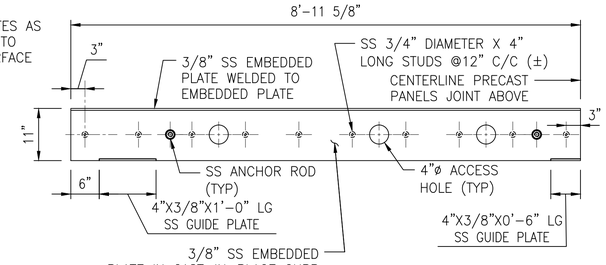
CAST-IN-PLACE CURB DETAIL

SCALE: 1-1/2" = 1'-0"

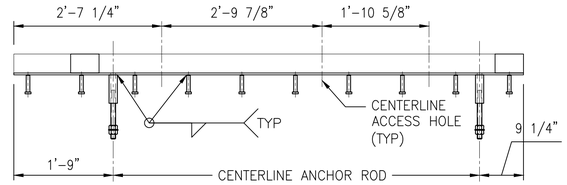


2 S-303 **SECTION**

SCALE: 1-1/2" = 1'-0"

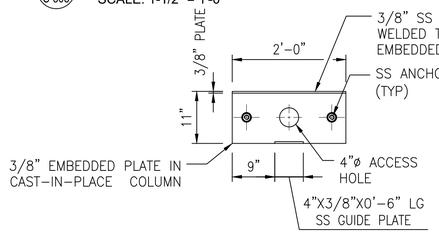


PLAN

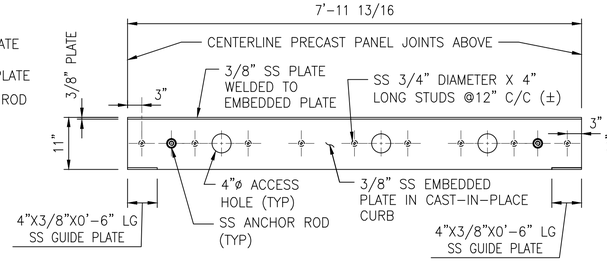


ELEVATION

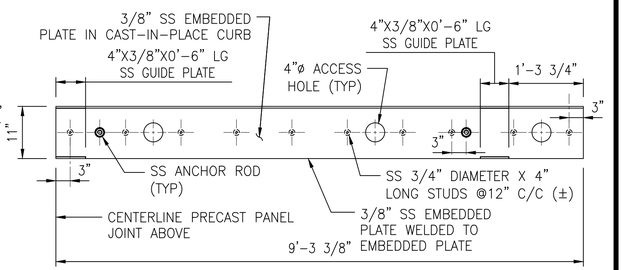
TYPE 3 – AT PRECAST COLUMN – TRACK 1 SOUTH END AND TRACK 2 NORTH END
TRACK 2 SOUTH – OPPOSITE HAND



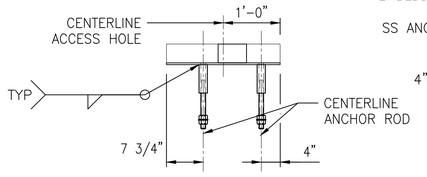
PLAN



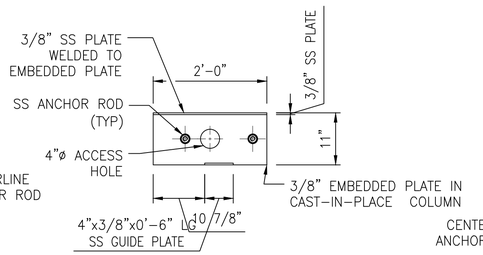
PLAN



PLAN

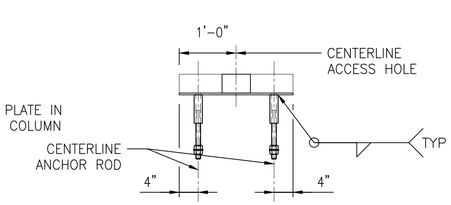


ELEVATION



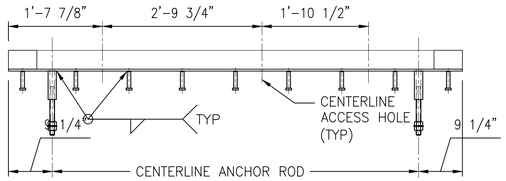
PLAN

TYPE 4 AT CAST-IN-PLACE COLUMN
TRACK 1 SOUTH END
TRACK 2 – SOUTH END (OPPOSITE HAND)



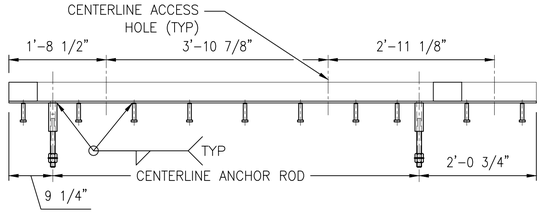
ELEVATION

TYPE 5 AT CAST-IN-PLACE COLUMN
TRACK 2 – NORTH END



ELEVATION

TYPE 2 – TYPICAL EMBEDDED PLATE

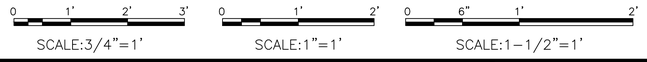


ELEVATION

TYPE 1 – AT PRECAST END WALL PANEL

EMBEDDED PLATES - DETAIL

SCALE: 3/4" = 1'-0"



"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		CHANGED UNISTRUT TO STRUT AM 2"

STATE OF MARYLAND · MATTHEW JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

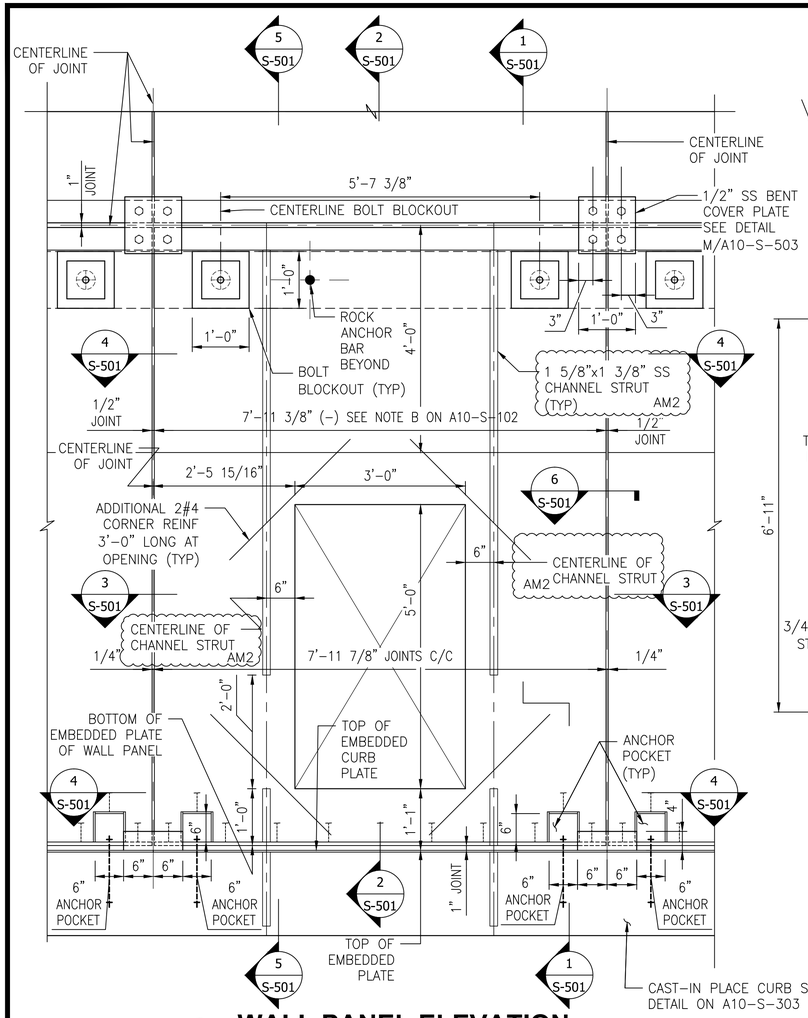
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

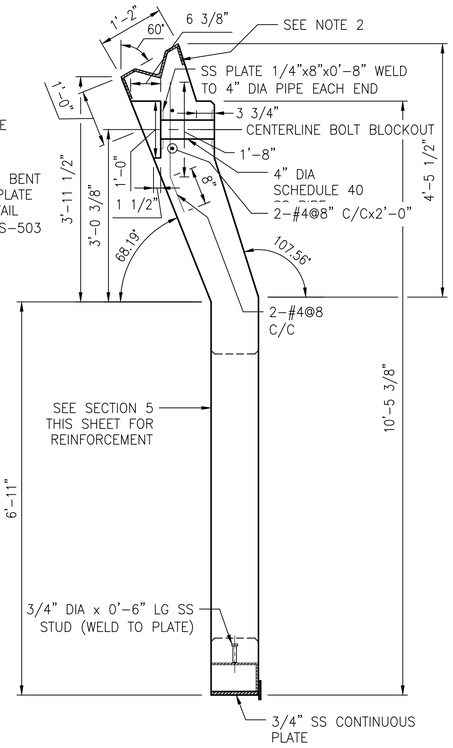
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

STRUCTURAL
SECTIONS AND DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-303	M1272-093

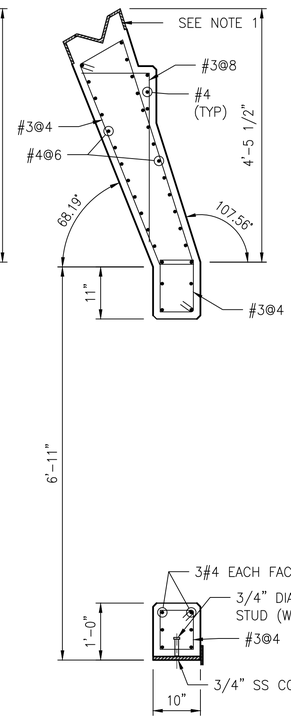


A S-501 **WALL PANEL ELEVATION**
SCALE: 3/4" = 1'-0"



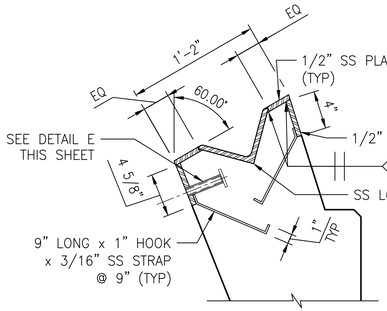
1 S-501 **SECTION**
SCALE: 3/4" = 1'-0"

NOTES:
1. CHANNEL STRUTS NOT SHOWN FOR CLARITY. AM2
2. STRAPS NOT SHOWN FOR CLARITY.

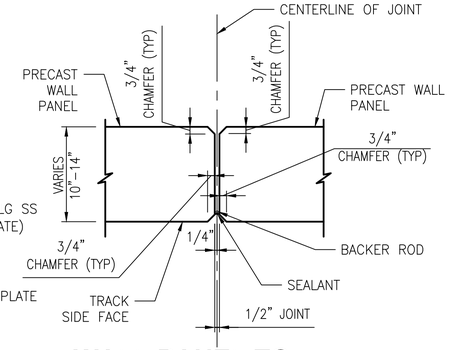


NOTE:
1. STRAPS NOT SHOWN FOR CLARITY.

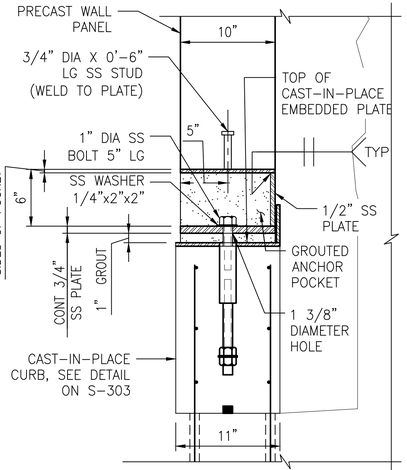
2 S-501 **SECTION**
SCALE: 3/4" = 1'-0"



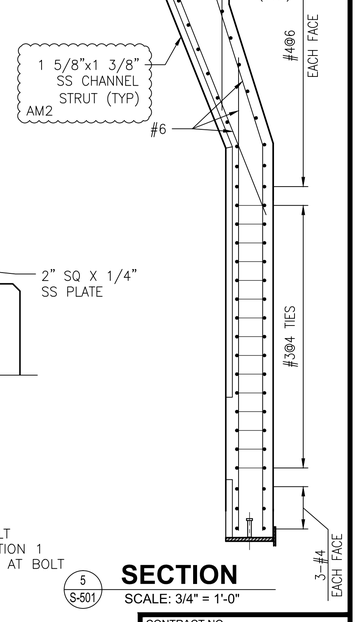
B S-501 **TOP OF PRECAST WALL PANEL**
SCALE: 1-1/2" = 1'-0"

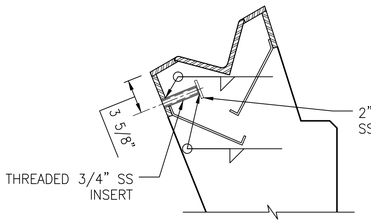


6 S-501 **WALL PANEL TO WALL PANEL CONNECTION**
SCALE: 1-1/2" = 1'-0"



C S-501 **WALL PANEL ANCHOR DETAIL**
SCALE: 1-1/2" = 1'-0"

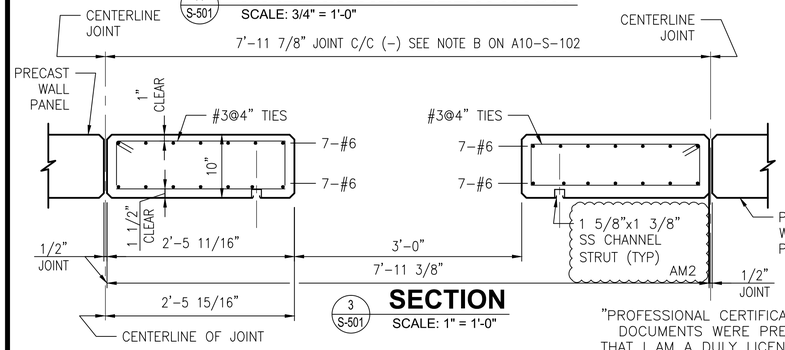




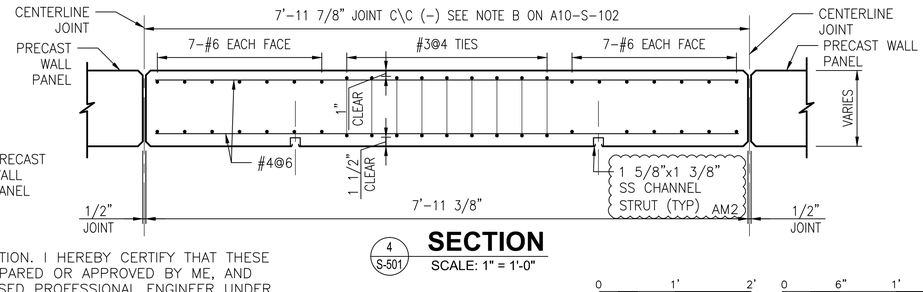
E S-501 **DETAIL**
SCALE: 1-1/2" = 1'-0"

NOTES:
1. STRAPS NOT SHOWN FOR CLARITY.
2. HORIZONTAL AND VERTICAL BARS DISCONTINUOUS AT ANCHOR AND BOLT BLOCKOUTS, AS REQUIRED. SEE SECTION 1 THIS DRAWING FOR ADDITIONAL BARS AT BOLT BLOCKOUT.

5 S-501 **SECTION**
SCALE: 3/4" = 1'-0"



3 S-501 **SECTION**
SCALE: 1" = 1'-0"



4 S-501 **SECTION**
SCALE: 1" = 1'-0"

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

SCALE:1"=1' SCALE:1-1/2"=1' SCALE:3/4"=1'

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		CHANGED UNISTRUTS TO CHANNEL STRUTS AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

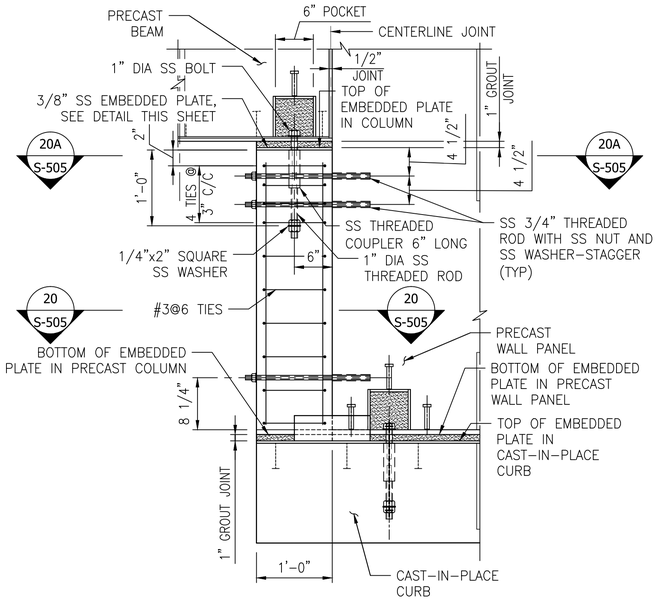
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

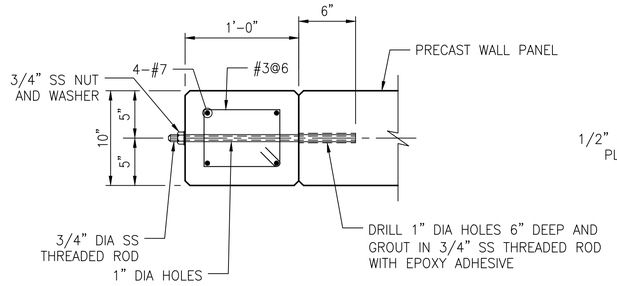
STRUCTURAL
PRECAST WALL PANEL

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-501	M1272-098



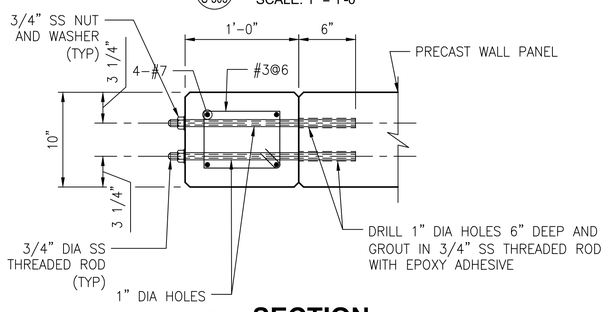
L S-505 PRECAST COLUMN ELEVATION

SCALE: 1" = 1'-0"



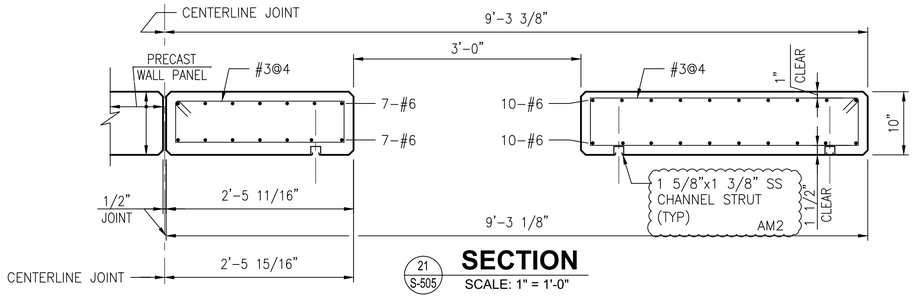
20 S-505 SECTION

SCALE: 1" = 1'-0"



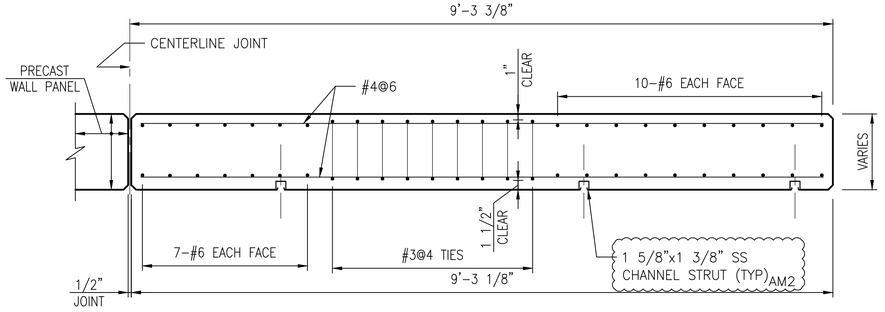
20A S-505 SECTION

SCALE: 1" = 1'-0"



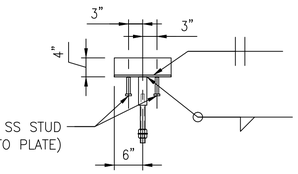
21 S-505 SECTION

SCALE: 1" = 1'-0"

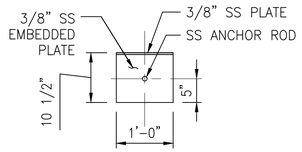


22 S-505 SECTION

SCALE: 1" = 1'-0"



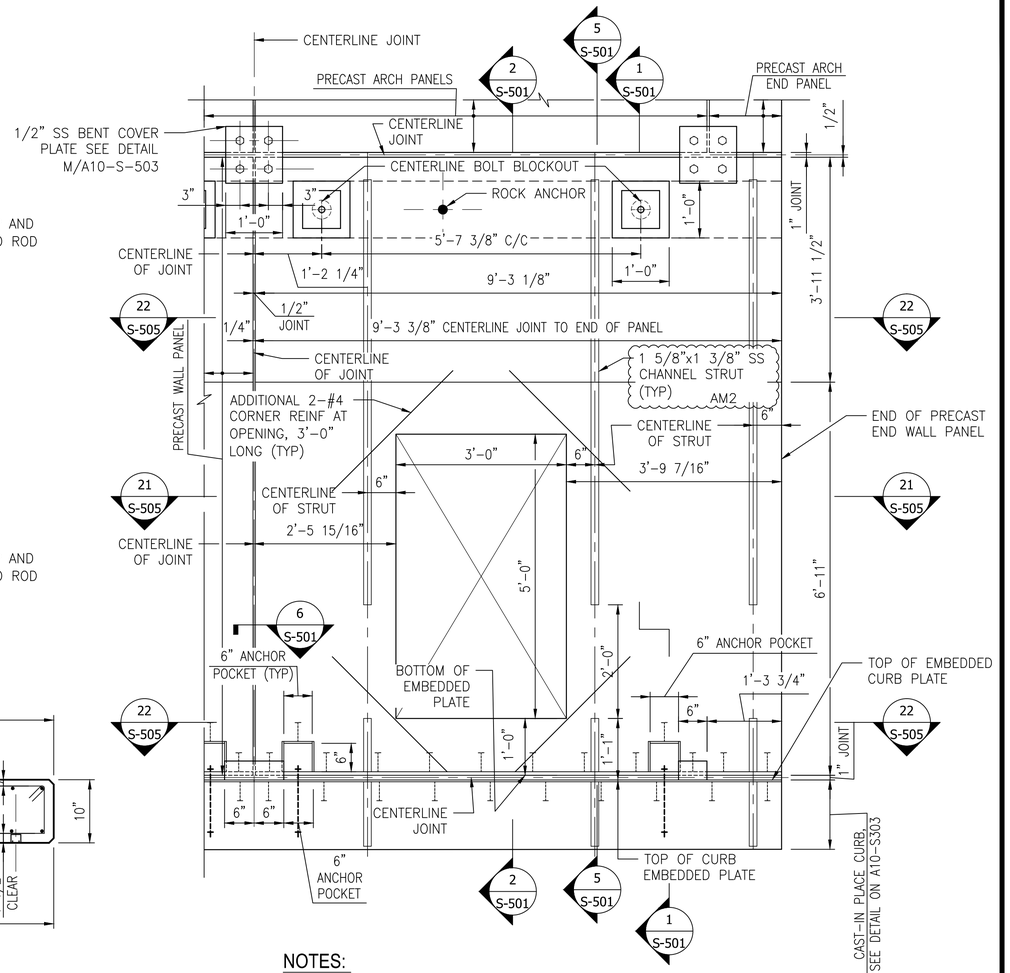
ELEVATION



PLAN

EMBEDDED PLATE DETAIL

SCALE: 3/4" = 1'-0"



NOTES:

1. FOR ADDITIONAL WALL PANEL DETAILS SEE DRAWING A10-S-501.

M S-505 END WALL PANEL ELEVATION

SCALE: 3/4" = 1'-0"

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0 1' 2' 3' SCALE:3/4"=1'

0 1' 2' SCALE:1"=1'

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15		CHANGED UNISTRUTS TO CHANNEL STRUTS AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

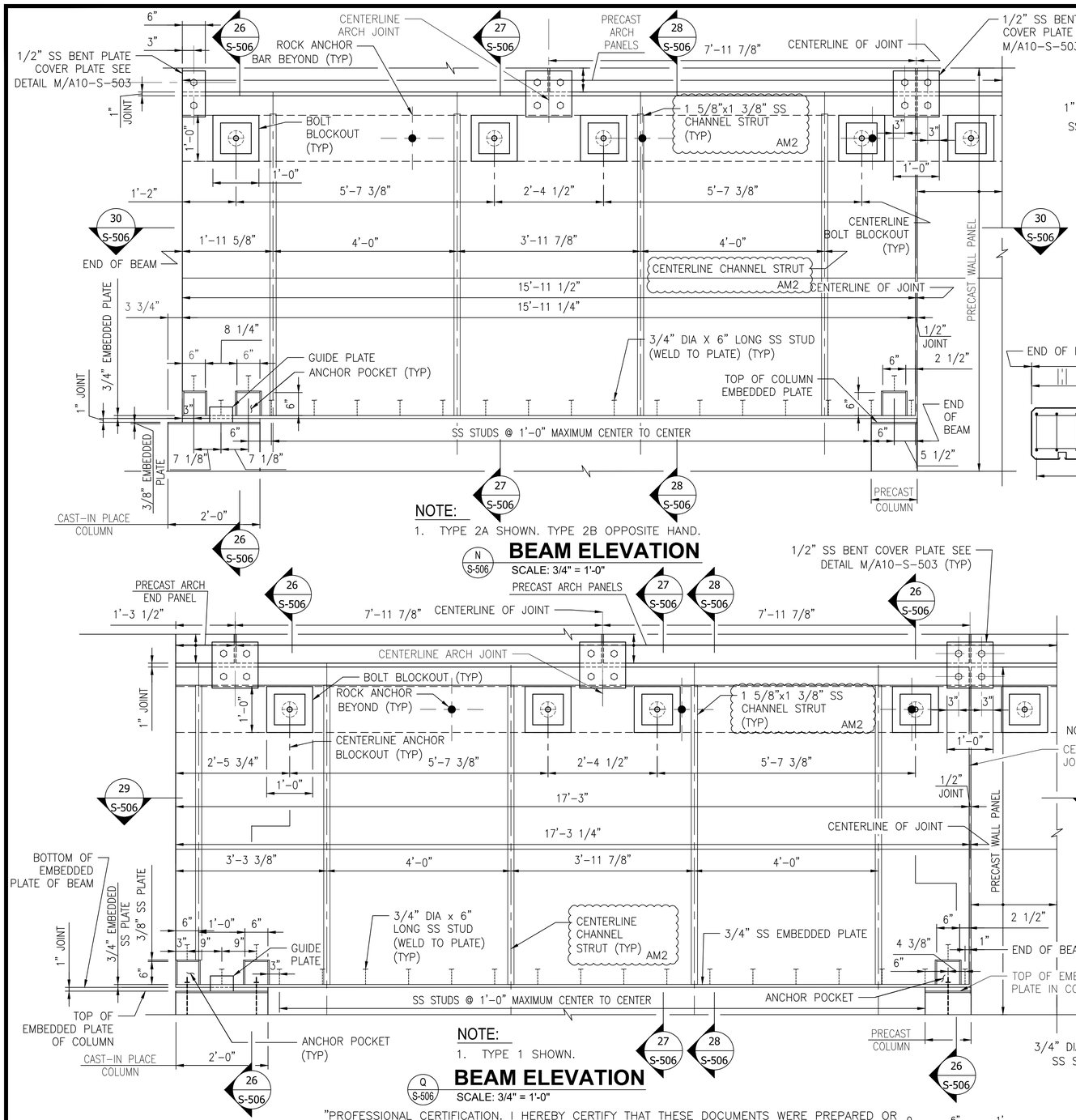
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

STRUCTURAL
MISCELLANEOUS PRECAST DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-505	M1272-102



NOTE:

1. TYPE 2A SHOWN. TYPE 2B OPPOSITE HAND.

N S-506 BEAM ELEVATION

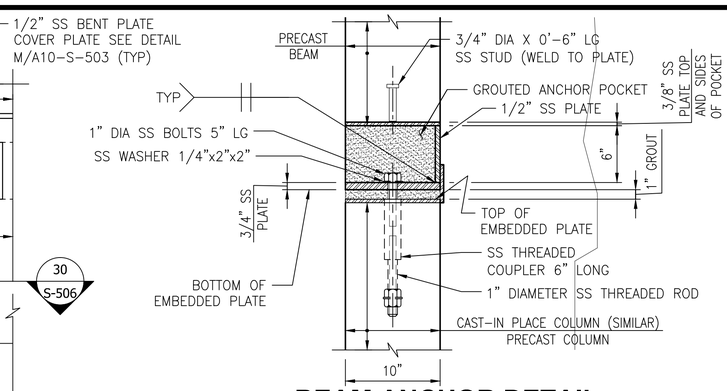
SCALE: 3/4" = 1'-0"

NOTE:

1. TYPE 1 SHOWN.

Q S-506 BEAM ELEVATION

SCALE: 3/4" = 1'-0"

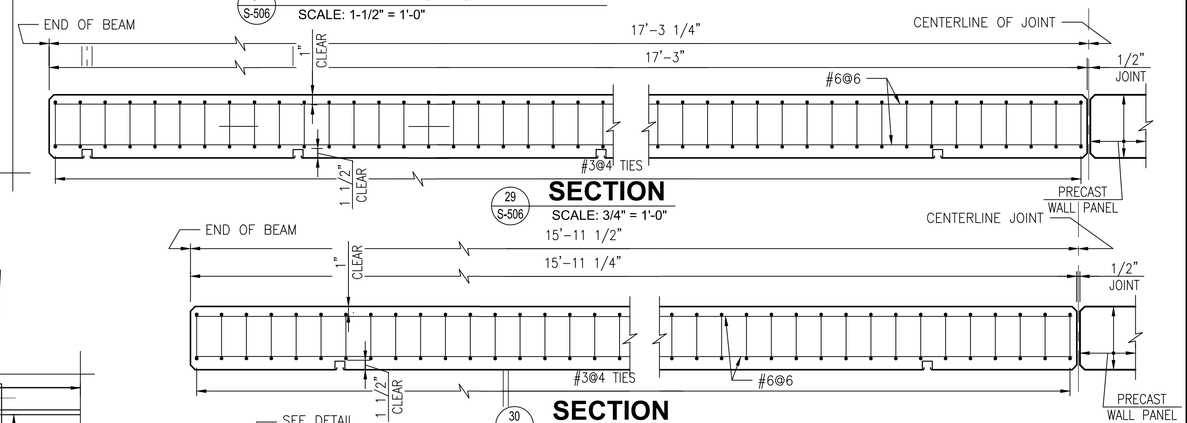


P S-506 BEAM ANCHOR DETAIL

SCALE: 1-1/2" = 1'-0"

NOTES:

1. STRAPS NOT SHOWN IN SECTION FOR CLARITY.
2. HORIZONTAL AND VERTICAL BARS DISCONTINUOUS AT ANCHOR AND BOLT BLOCKOUTS, AS REQUIRED. SEE SECTION 27 THIS DRAWING FOR ADDITIONAL BARS AT BOLT BLOCKOUT.

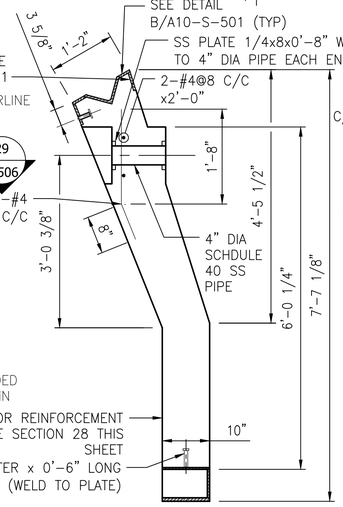


29 S-506 SECTION

SCALE: 3/4" = 1'-0"

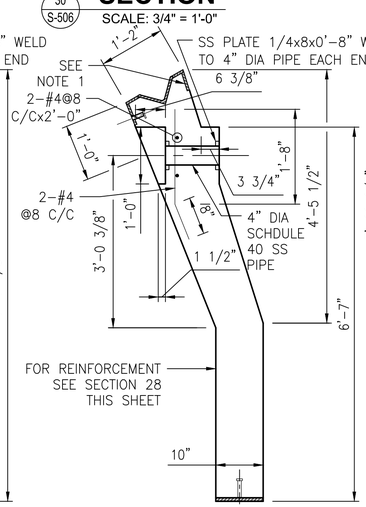
30 S-506 SECTION

SCALE: 3/4" = 1'-0"



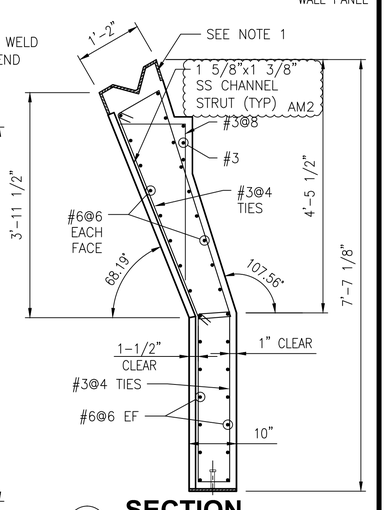
26 S-506 SECTION

SCALE: 3/4" = 1'-0"



27 S-506 SECTION

SCALE: 3/4" = 1'-0"



28 S-506 SECTION

SCALE: 3/4" = 1'-0"

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

0 6" 1' 2'

SCALE:1-1/2"=1'

NOTE:

1. STRAPS NOT SHOWN FOR CLARITY.

0 1' 2' 3'

SCALE:3/4"=1'

0 1' 2'

SCALE:1"=1'

FINAL

CONTRACT NO. FQ15093

DESIGNED	M. VADOVIC	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	DRAWING RE-PLOTTED AM 2

STATE OF MARYLAND — TIMOTHY JEAN AVERSO — 22331 — REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

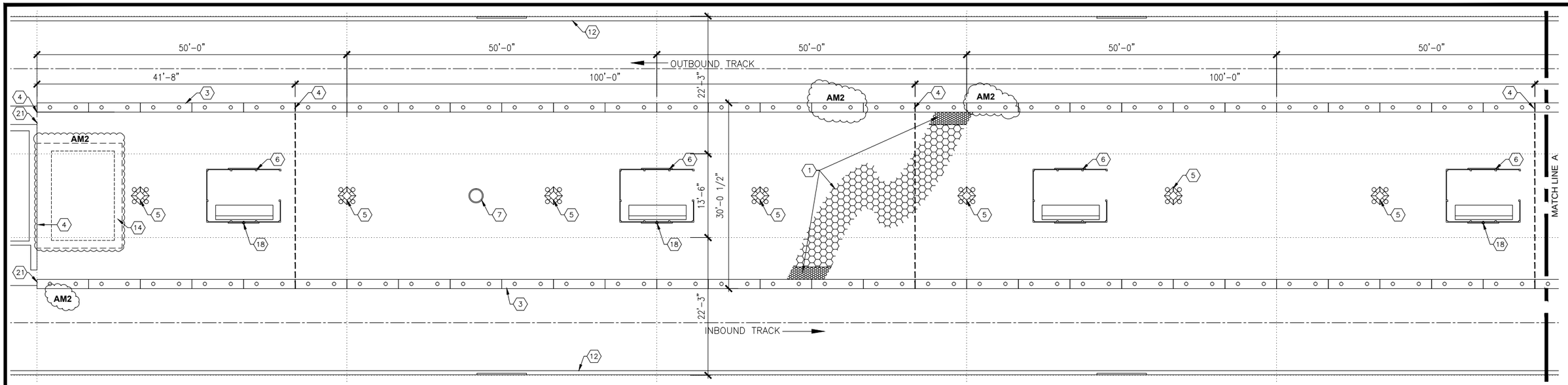
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 2

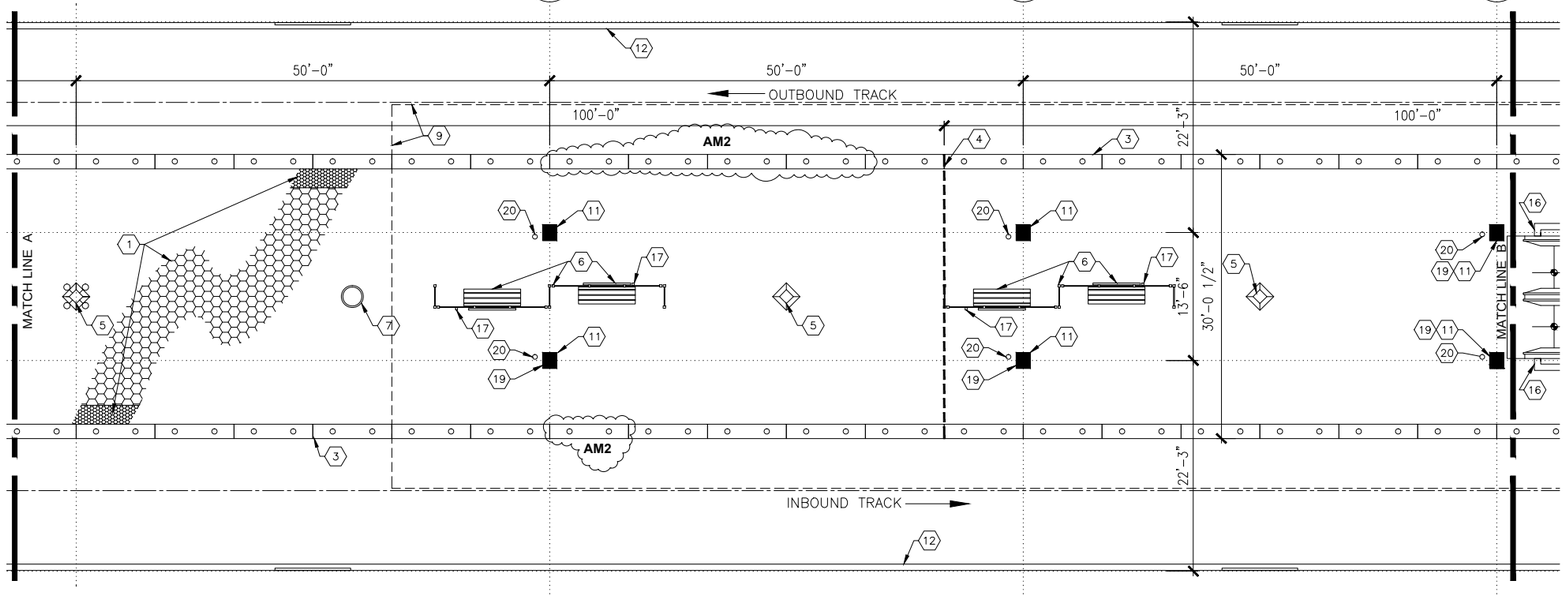
STRUCTURAL
PRECAST BEAM DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A10-S-506	M1272-103



1 A-100 PARTIAL PLATFORM DEMOLITION PLAN

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

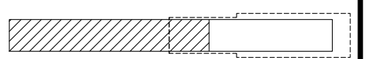


2 A-100 PARTIAL PLATFORM DEMOLITION PLAN

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

DEMOLITION SHEET NOTES

1. REMOVE ALL HEXAGON PAVER TILES, TRUNCATED DOME PAVER TILES, SETTING BED AND TOPPING SLAB TO STRUCTURAL SLAB (TYP).
2. EXISTING BRONZE HANDRAIL TO BE CAREFULLY REMOVED, STORED & RE-INSTALLED.
3. CAREFULLY REMOVE EXISTING UNDAMAGED GRANITE EDGES AND GLASS LENSES ON BOTH DEMOLITION SHEETS AND STORE AT A LOCATION DESIGNATED BY A.R. DISPOSE OF DAMAGED GRANITE AND LENSES. **AM2**
4. REMOVE ALL EXPANSION JOINTS FOR THE FULL WIDTH OF PLATFORM (TYP).
5. CAREFULLY REMOVE PYLONS TO BE REUSED. STORE AT OFFSITE STORAGE FACILITY.
6. CAREFULLY REMOVE ALL EXIST BENCHES, WINDSCREENS AND THEIR COMPONENTS TO BE REUSED AND STORE AT OFF SITE STORAGE FACILITY (TYP).
7. CAREFULLY REMOVE EXISTING FIRE LINE MANHOLES. FRAME TO REMAIN IN PLACE. REMOVE EXISTING PAVER TILES FROM THE MANHOLE LID AND RETURN IT TO WMATA.
8. NOT USED
9. EXIST CANOPY ABOVE TO REMAIN.
10. PROTECT EXISTING ELEVATOR AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
11. EXIST COLUMN WITH BUILT IN RAINWATER LEADER FROM ROOF. PROTECT AS REQUIRED DURING DEMOLITION.
12. EXIST RETAINING WALL. PROTECT AS REQUIRED DURING DEMOLITION.
13. EXIST CONC COLUMN. PROTECT AS REQUIRED DURING DEMOLITION.
14. DISPATCH OFFICE TO REMAIN. DO NOT REMOVE PLATFORM FINISHES. **AM2**
15. NOT USED **AM2**
16. PROTECT ESCALATOR AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
17. REMOVE EXIST CONDUITS TO DIORAMAS AND REROUTE LOCATIONS OF NEW CONDUITS TO CENTER UNDER DIORAMAS. SEE ELECTRICAL DRAWINGS.
18. REMOVE EXISTING FLOOR MOUNTED RECEPTACLES. SEE ELECT WORK
19. EXISTING COLUMN MOUNTED ELECTRICAL RECEPTACLES TO REMAIN.
20. PROTECT EXISTING CLEANOUTS TO REMAIN.
21. PROTECT EXISTING PLATFORM END GATES TO REMAIN.
22. NOT USED **AM2**



KEY PLAN
NOT TO SCALE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 5231-A, EXPIRATION DATE: 05-18-2015."

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

FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14 DATE
DRAWN	AD	7/16/14 DATE
CHECKED	RES	7/22/14 DATE
APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	DEMO NOTE AND PLAN CHANGES AM2

STATE OF MARYLAND ROBERT E. SLATER 17169 REGISTERED ARCHITECT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

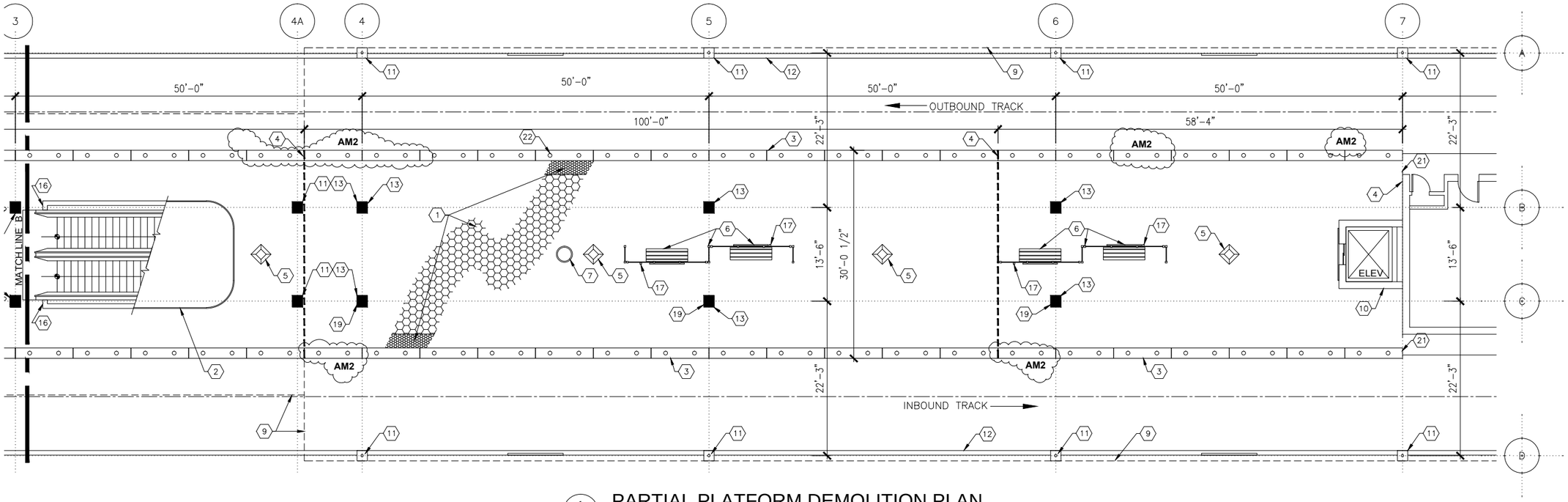
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

PARTIAL PLATFORM PLAN (DEMOLITION)

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-100	M1272-144



1 A-101 PARTIAL PLATFORM DEMOLITION PLAN

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

GENERAL DEMOLITION NOTES

1. VERIFY EXISTING FIELD CONDITIONS.
2. PRIOR TO DEMOLITION, VERIFY MATERIALS AND EQUIPMENT TO BE SALVAGED. STORE WHERE DIRECTED BY A.R.
3. VERIFY AND MARK ALL UNDER SLAB UTILITIES PRIOR TO THE START OF WORK. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL UTILITIES IN PLENUM AREA BELOW PLATFORM AND VERIFY THAT ALL WORK IS COORDINATED.
4. REMOVE ALL RUBBISH AND DEMOLITION DEBRIS FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER.
5. COORDINATE GENERAL CONSTRUCTION DEMOLITION WITH THE STRUCTURAL AND ELECTRICAL DEMOLITION WORK.
6. REPAIR ALL EXISTING STRUCTURES, UTILITIES, AND EQUIPMENT, SCHEDULED TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION OPERATIONS. ALL WORK SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY INCLUDING ALL FASTENERS, ATTACHMENTS, ACCESSORIES, AND ANY RELATED WORK.
7. DEMOLITION INCLUDES ALL ITEMS WHETHER OR NOT SHOWN ON THE DRAWINGS, THAT ARE REQUIRED TO BE REMOVED IN ORDER TO INSTALL THE NEW WORK SHOWN ON DRAWINGS A-102 – A-507 AND OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
8. ALL SURFACES TO REMAIN SHALL BE REFINISHED TO REPAIR ALL HOLES, SCRATCHES, DENTS, MARS, PITTING, ADHESIVE, BAD JOINTS, DEFECTIVE CMU, ETC, AS CAUSED BY DEMOLITION AND CONSTRUCTION ACTIVITY. TO BE ACCEPTABLE IN EVERY WAY TO RECEIVE NEW FINISHES.

DEMOLITION SHEET NOTES

1. REMOVE ALL HEXAGON PAVER TILES, TRUNCATED DOME PAVER TILES, SETTING BED AND TOPPING SLAB TO STRUCTURAL SLAB (TYP).
2. EXISTING BRONZE HANDRAIL TO BE CAREFULLY REMOVED, STORED & RE-INSTALLED.
3. CAREFULLY REMOVE EXISTING UNDAMAGED GRANITE EDGES AND GLASS LENSES ON BOTH DEMOLITION SHEETS AND STORE AT A LOCATION DESIGNATED BY A.R. DISPOSE OF DAMAGED GRANITE AND LENSES. **AM2**
4. REMOVE ALL EXPANSION JOINTS FOR THE FULL WIDTH OF PLATFORM (TYP).
5. CAREFULLY REMOVE PYLONS TO BE REUSED. STORE AT OFFSITE STORAGE FACILITY.
6. CAREFULLY REMOVE ALL EXIST BENCHES, WINDSCREENS AND THEIR COMPONENTS TO BE REUSED AND STORE AT OFF SITE STORAGE FACILITY (TYP).
7. CAREFULLY REMOVE EXISTING FIRE LINE MANHOLES. FRAME TO REMAIN IN PLACE. REMOVE EXISTING PAVER TILES FROM THE MANHOLE LID AND RETURN IT TO WMATA.
8. NOT USED
9. EXIST CANOPY ABOVE TO REMAIN.
10. PROTECT EXISTING ELEVATOR AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
11. EXIST COLUMN WITH BUILT IN RAINWATER LEADER FROM ROOF. PROTECT AS REQUIRED DURING DEMOLITION.
12. EXIST RETAINING WALL. PROTECT AS REQUIRED DURING DEMOLITION.
13. EXIST CONC COLUMN. PROTECT AS REQUIRED DURING DEMOLITION.
14. DISPATCH OFFICE TO REMAIN. DO NOT REMOVE PLATFORM FINISHES. **AM2**
15. NOT USED **AM2**
16. PROTECT ESCALATOR AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
17. REMOVE EXIST CONDUITS TO DIORAMAS AND REROUTE LOCATIONS OF NEW CONDUITS TO CENTER UNDER DIORAMAS. SEE ELECTRICAL DRAWINGS.
18. REMOVE EXISTING FLOOR MOUNTED RECEPTACLES. SEE ELECT WORK
19. EXISTING COLUMN MOUNTED ELECTRICAL RECEPTACLES TO REMAIN.
20. PROTECT EXISTING CLEANOUTS TO REMAIN.
21. PROTECT EXISTING PLATFORM END GATES TO REMAIN.
22. NOT USED **AM2**

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KEY PLAN
NOT TO SCALE

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

FINAL

CONTRACT NO. FQ15093

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REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	DEMO NOTE AND PLAN CHANGES AM2

STATE OF MARYLAND ROBERT E. STY 5231-A REGISTERED ARCHITECT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

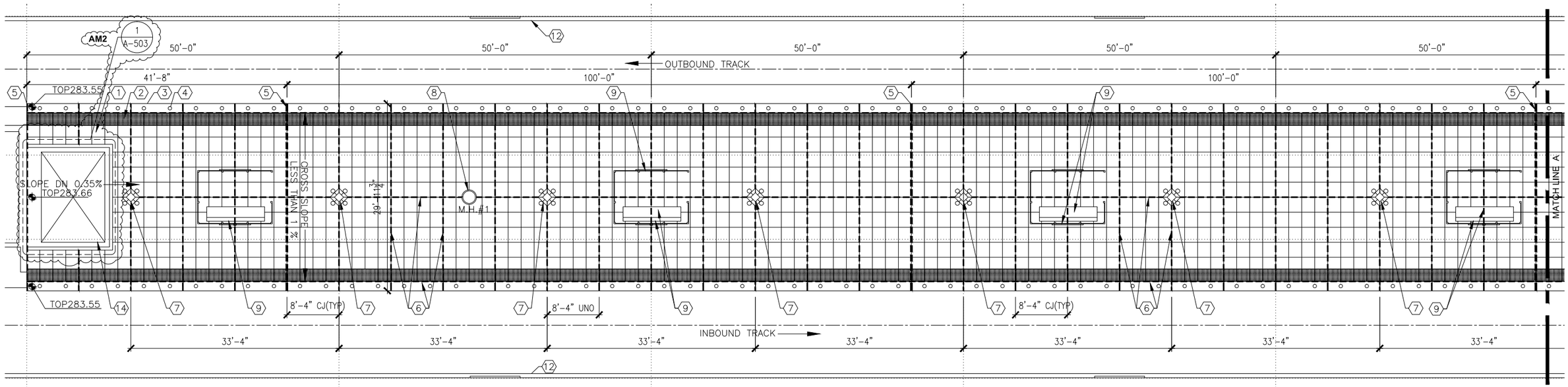
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

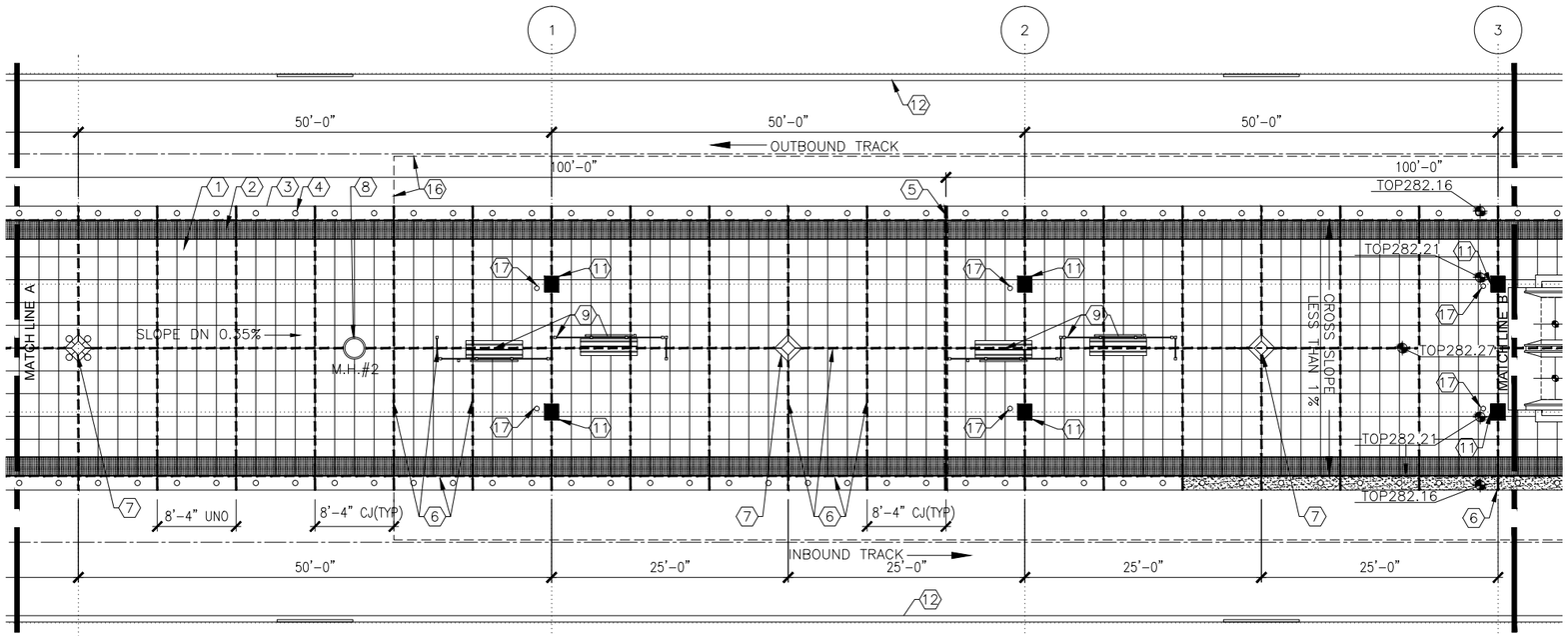
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

PARTIAL PLATFORM PLAN (DEMOLITION)

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-101	M1272-145



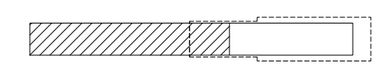
1 A-102 PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



2 A-102 PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"

NEW WORK SHEET NOTES

1. NEW PRECAST PAVERS (AM2) 25"x29" NOM (TYP).
2. NEW TRUNCATED DOME PRECAST PAVERS 25" x 24" (AM2) NOM (TYP).
3. NEW GRANITE EDGES. AM2
4. NEW GLASS LENSES. AM2
5. REPLACE EXPANSION JOINT AT EXISTING LOCATIONS (TYP). SEE SHEET A-502 FOR DETAILS.
6. NEW 1/2" CONTROL JOINT (TYP). SEE FLOOR PLAN FOR LOCATIONS.
7. REINSTALL PYLON AT EXISTING LOCATIONS.
8. INSTALL NEW LIDS WITH EMBOSSED METRO LOGO IN EXISTING FRAME. REFER TO AM2 WMATA STANDARD DETAIL.
9. EXISTING BENCHES & WINDSCREEN TO BE REINSTALLED AT THE EXISTING LOCATIONS. SEE DETAILS 3-4/A-501.
10. NOT USED
11. EXIST COLUMN WITH BUILT IN RAINWATER LEADER FROM ROOF. PROTECT AS REQUIRED DURING CONSTRUCTION.
12. EXIST RETAINING WALL. PROTECT AS REQUIRED DURING CONSTRUCTION.
13. EXIST CONC. COLUMN. PROTECT AS REQUIRED DURING CONSTRUCTION.
14. DISPATCH OFFICE TO REMAIN ON EXISTING FINISH TILES. AM2
15. NOT USED
16. EXIST CANOPY ABOVE.
17. EXIST DRAIN CLEANOUT TO REMAIN.



KEY PLAN
NOT TO SCALE

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

FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14
DRAWN	AD	7/16/14
CHECKED	RES	7/22/14
APPROVED	JP	7/28/14

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	NEW WORK NOTES REVISIONS AND DISPATCH OFFICE REVISION AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

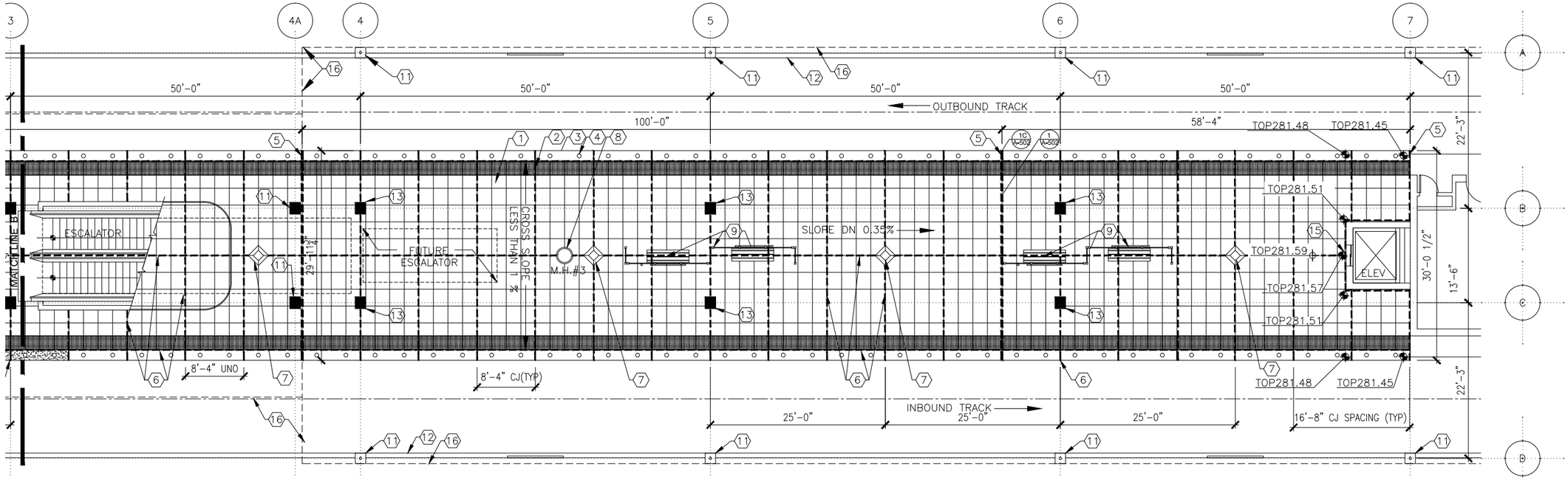
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

PARTIAL PLATFORM PLAN (NEW WORK)

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-102	M1272-146



1 / A-103 PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. VERIFY ALL DIMENSIONS IN THE FIELD.
2. VERIFY ALL FIELD CONDITIONS.
3. ALL DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
4. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE LATEST VERSIONS OF I.B.C. AND LIFE SAFETY CODES. ALL WORK IS DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH WMATA DESIGN CRITERIA, VERSION 9.
5. DO NOT SCALE DRAWINGS FOR PURPOSES OF CONSTRUCTION.
6. ANY DEVIATION FROM, OR IN FIELD ALTERATION TO THESE DRAWINGS, AND SPECIFICATIONS IS STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF A.R. ANY SUCH ALTERATIONS SHALL BE CORRECTED AT ONCE, WITH NO EXPENSE TO THE OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES REGARDLESS OF DISCREPANCIES IN THE CONTRACT DOCUMENTS. NO ADDITIONAL COSTS WILL BE PAID BY THE OWNER TO RECTIFY WORK TO BE RELOCATED DUE TO LACK OF JOBSITE COORDINATION.
8. DEMOLITION, CUTTING, AND PATCHING OF ANY MATERIALS OR FIXTURES REQUIRED TO CONSTRUCT THE PROJECT IS HEREIN MADE A PART OF THESE DOCUMENTS.
9. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AS REQUIRED.
10. THE IMAGES ON THE CONSTRUCTION DOCUMENT FLOOR PLANS REFLECT THE INFORMATION FROM THE ORIGINAL CONSTRUCTION DOCUMENTS FOR THE PROJECT, IT IS NOT AN INDICATION OF NEW WORK, IT IS SHOWN IN GRAY LINE COLOR. THE NEW WORK AND REQUIRED DEMOLITION OR REMOVALS ARE SHOWN IN BLACK LINE COLOR. IF THE DIFFERENCE IS NOT OBVIOUS, REPORT TO THE A.R. IMMEDIATELY.
11. ALL WORK INDICATED OR SHOWN GRAPHICALLY AS "EXISTING TO REMAIN" WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND WORK AROUND WITHOUT DISTURBING. IF DAMAGED, THE CONTRACTOR WILL REPLACE AT NO ADDITIONAL COST TO THE OWNER.
12. FIREPROOF ALL NEW STRUCTURAL STEEL, INCLUDING, BUT NOT LIMITED TO COLUMNS, BEAMS, METAL DECK, AND MISCELLANEOUS METALS – SEE SPECIFICATION SECTION 07.81.00.
13. CUTTING AND REMOVING OF GRANITE TILE EDGES WILL BE UNDERTAKEN CAREFULLY.

NEW WORK SHEET NOTES

1. NEW PRECAST PAVERS 25"x29" NOM (TYP). AM2
2. NEW TRUNCATED DOME PRECAST PAVERS 25" x 24" NOM (TYP). AM2
3. NEW GRANITE EDGES. AM2
4. NEW GLASS LENSES. AM2
5. REPLACE EXPANSION JOINT AT EXISTING LOCATIONS (TYP). SEE SHEET A-502 FOR DETAILS.
6. NEW 1/2" CONTROL JOINT (TYP). SEE FLOOR PLAN FOR LOCATIONS.
7. REINSTALL PYLON AT EXISTING LOCATIONS.
8. INSTALL NEW LIDS WITH EMBOSSED METRO LOGO IN EXISTING FRAME. REFER TO WMATA STANDARD DETAIL. AM2
9. EXISTING BENCHES & WINDSCREEN TO BE REINSTALLED AT THE EXISTING LOCATIONS. SEE DETAILS 3-4/A-501.
10. NOT USED
11. EXIST COLUMN WITH BUILT IN RAINWATER LEADER FROM ROOF. PROTECT AS REQUIRED DURING CONSTRUCTION.
12. EXIST RETAINING WALL. PROTECT AS REQUIRED DURING CONSTRUCTION.
13. EXIST CONC. COLUMN. PROTECT AS REQUIRED DURING CONSTRUCTION.
14. DISPATCH OFFICE TO REMAIN ON EXISTING FINISH TILES. AM2
15. NOT USED
16. EXIST CANOPY ABOVE.
17. EXIST DRAIN CLEANOUT TO REMAIN.

KEY PLAN
NOT TO SCALE

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

FINAL

CONTRACT NO. FQ15093

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DRAWN	AD	7/16/14 DATE
CHECKED	RES	7/22/14 DATE
APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	NEW WORK NOTE REVISIONS AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

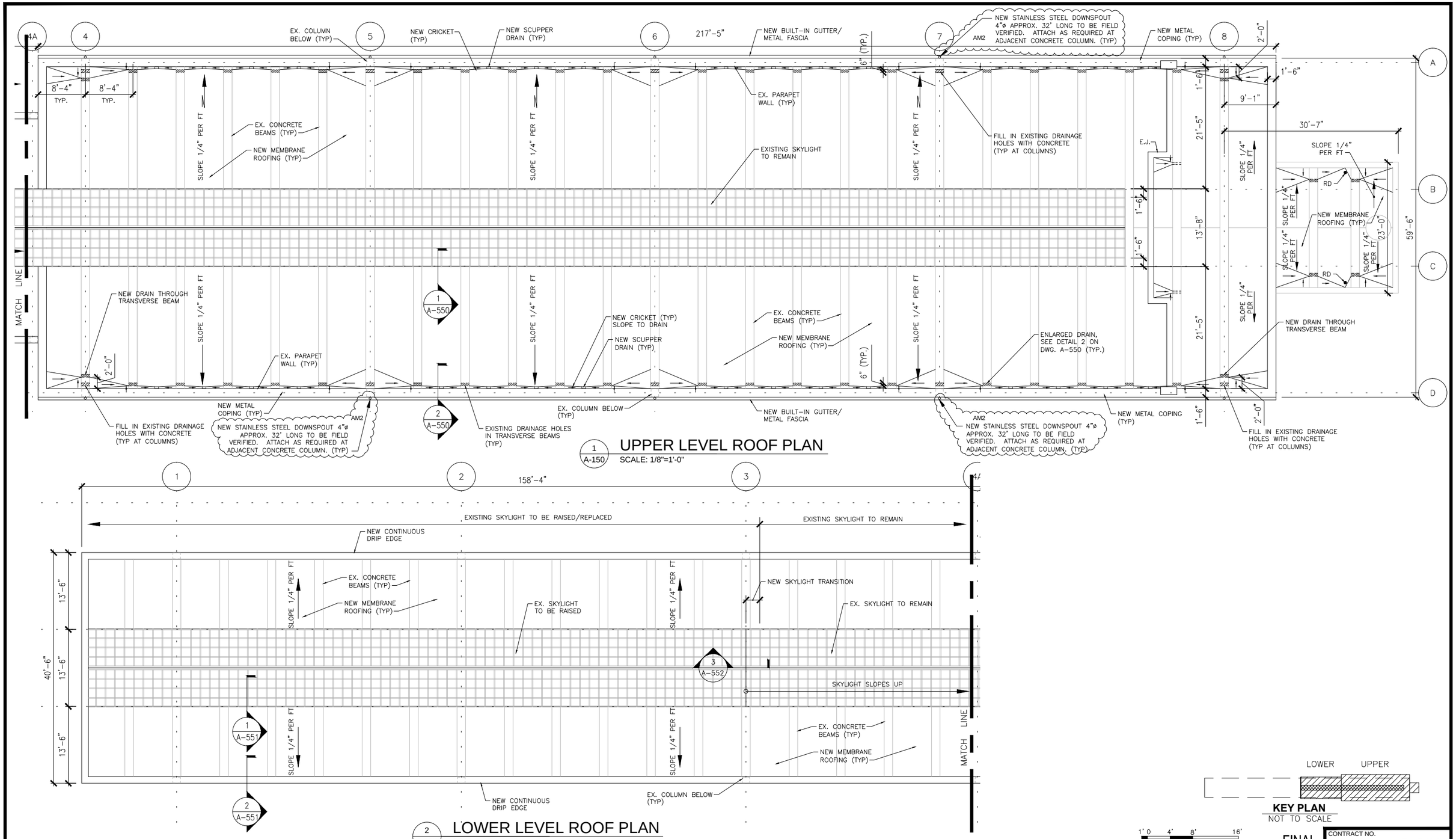
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

PARTIAL PLATFORM PLAN (NEW WORK)

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-103	M1272-147



1 A-150 **UPPER LEVEL ROOF PLAN**
SCALE: 1/8"=1'-0"

2 A-150 **LOWER LEVEL ROOF PLAN**
SCALE: 1/8"=1'-0"

KEY PLAN
NOT TO SCALE

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

FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14 DATE
DRAWN	AD	7/16/14 DATE
CHECKED	RES	7/22/14 DATE
APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION	
6/25/15	A.D.	DOWNSPOUT REVISION	AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

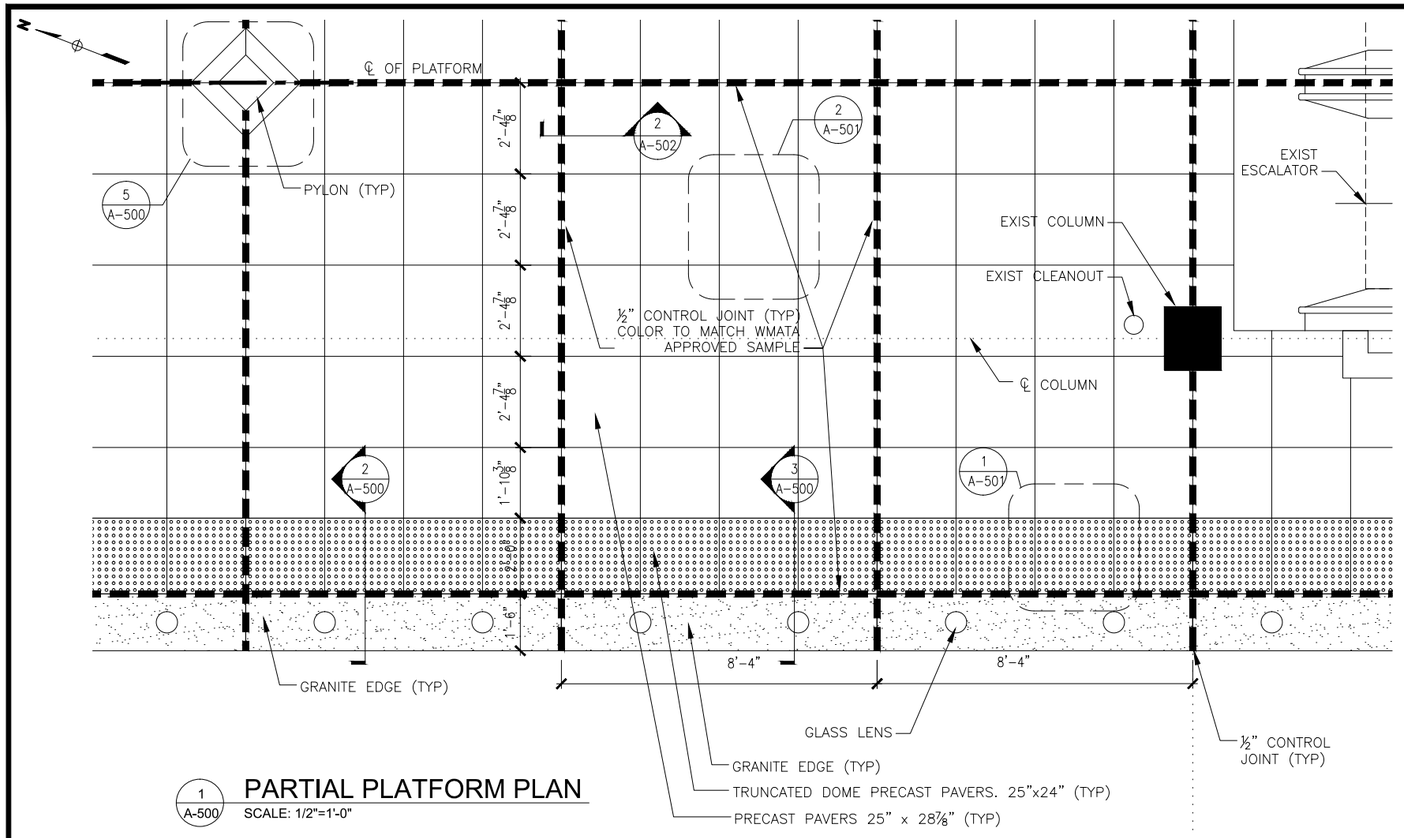
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

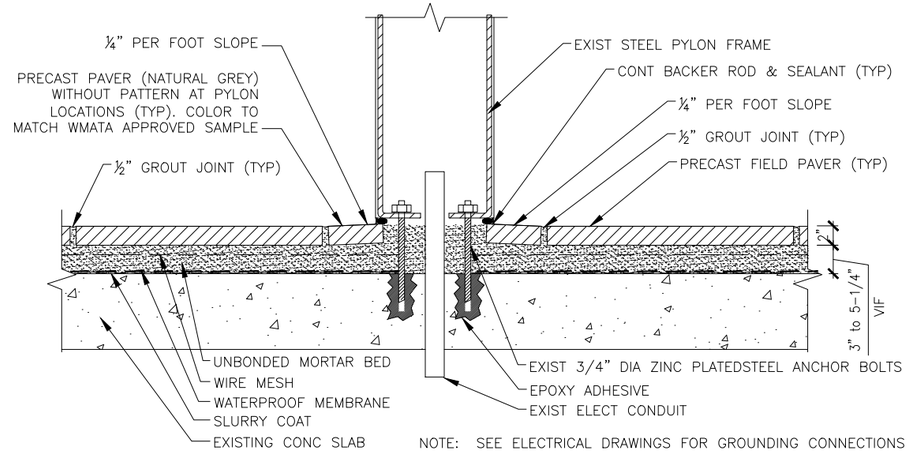
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 5

ARCHITECTURAL
ROOF PLAN

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-150	M1272-181

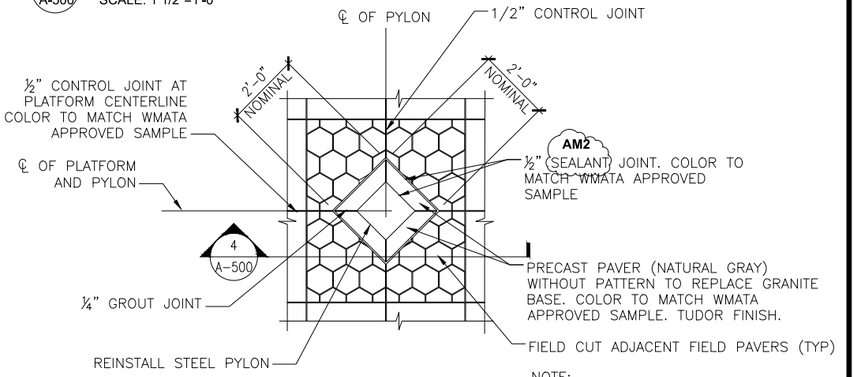


1 A-500 **PARTIAL PLATFORM PLAN**
SCALE: 1/2"=1'-0"



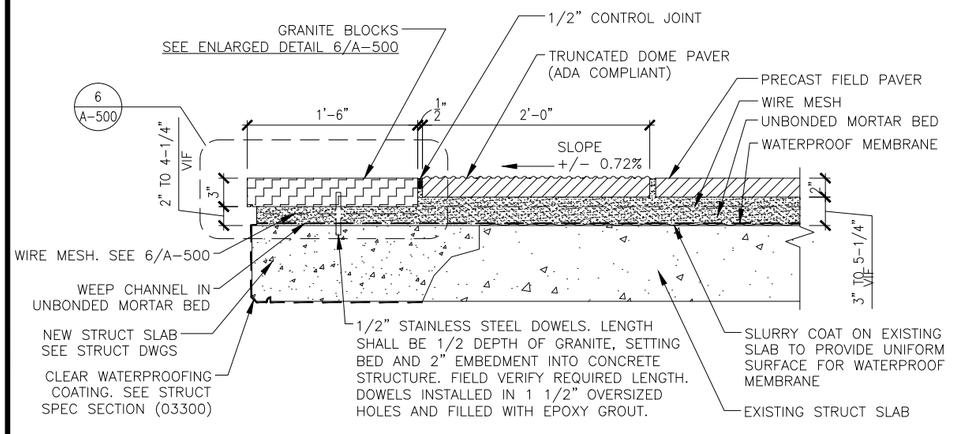
NOTE: SEE ELECTRICAL DRAWINGS FOR GROUNDING CONNECTIONS

4 A-500 **PARTIAL PLATFORM PLAN**
SCALE: 1 1/2"=1'-0"

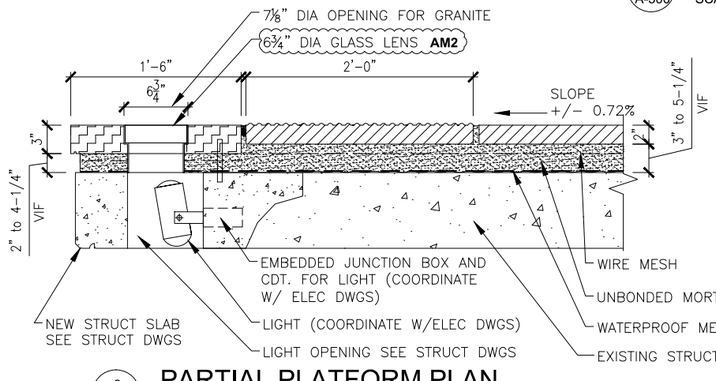


NOTE:
ALSO USE THIS DETAIL AT PYLON WITHOUT EXISTING GRANITE BASE

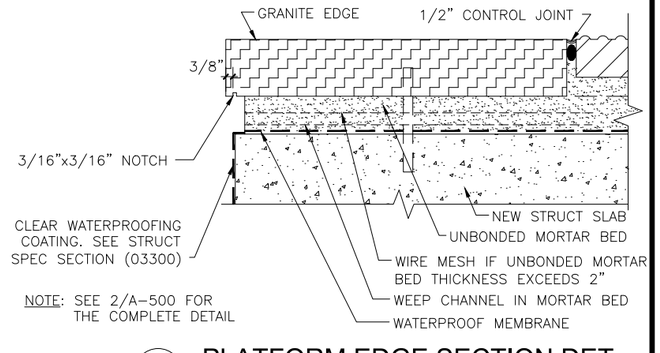
5 A-500 **PRECAST PAVER AT PYLON**
SCALE: 1/2"=1'-0"



2 A-500 **PLATFORM EDGE SECTION DET**
SCALE: 1 1/2"=1'-0"



3 A-500 **PARTIAL PLATFORM PLAN**
SCALE: 1 1/2"=1'-0"



NOTE: SEE 2/A-500 FOR THE COMPLETE DETAIL

6 A-500 **PLATFORM EDGE SECTION DET**
SCALE: 3"=1'-0"

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 5231-A, EXPIRATION DATE: 05-18-2015."

1' 6" 0 1' 2' 3' 4' 5'
SCALE: 1/2" = 1'-0"

3 2 1 0 3" 6" 12" 24"
SCALE: 1 1/2" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

FINAL

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APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	DRAWING REVISIONS AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

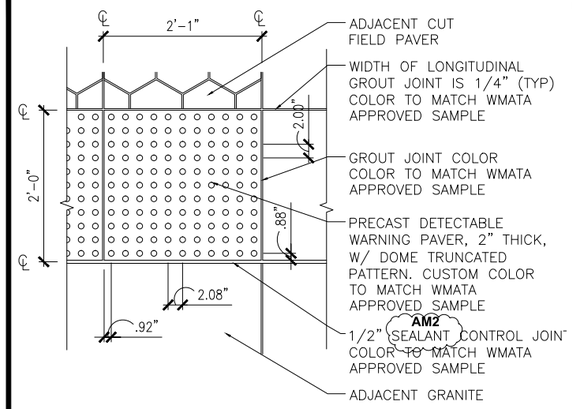
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

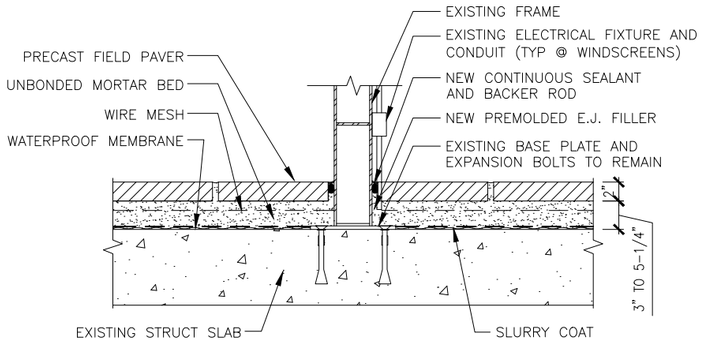
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

ENLARGED PARTIAL PLATFORM PLAN, DETAILS

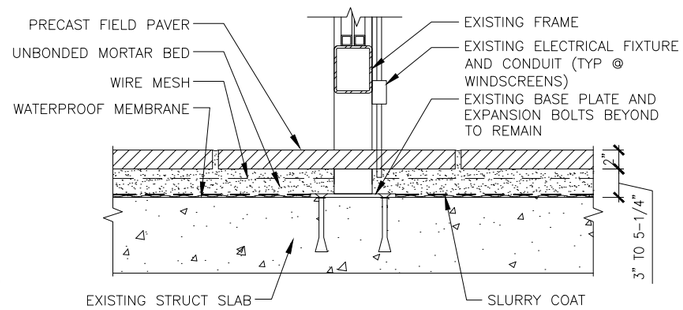
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-500	M1272-148



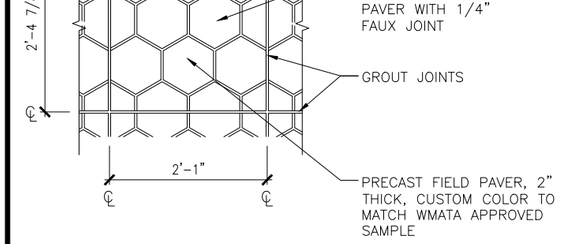
1 A-501 **TRUNCATED PAVER DETAIL (TYP)**
SCALE: 1"=1'-0"



3 A-501 **WINDSCREEN AND PLATFORM SHELTER POST CONNECTION**
SCALE: 1 1/2"=1'-0"



4 A-501 **WINDSCREEN AND PLATFORM SHELTER POST CONNECTION**
SCALE: 1 1/2"=1'-0"



2 A-501 **TYPICAL PAVER DETAIL**
SCALE: 1"=1'-0"

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 5231-A, EXPIRATION DATE: 05-18-2015."

1' 0 1' 2'
SCALE: 1" = 1'-0"
3 2 1 0 3" 6" 12" 24"
SCALE: 1 1/2" = 1'-0"

FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14 DATE
DRAWN	AD	7/16/14 DATE
CHECKED	RES	7/22/14 DATE
APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	SEALANT NOTE REVISION AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

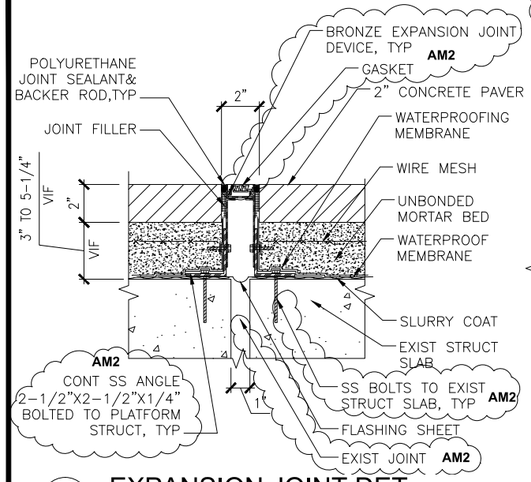
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

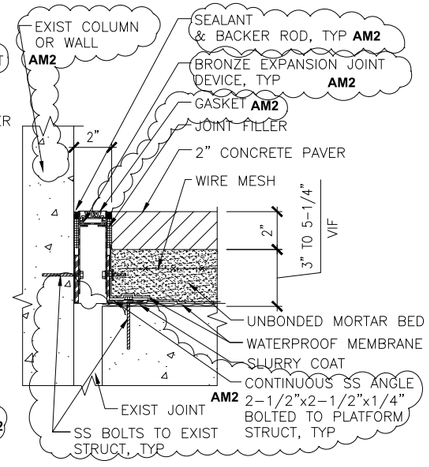
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

ENLARGED PARTIAL PLATFORM PLAN, DETAILS

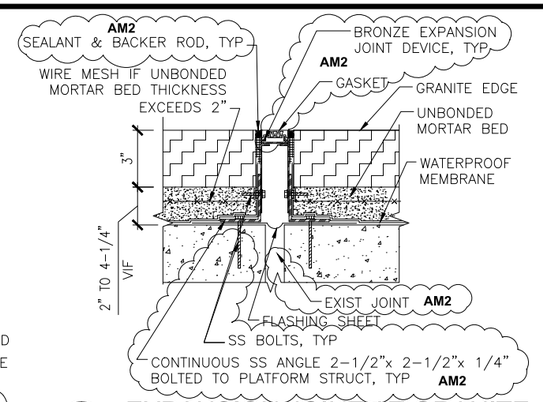
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-501	M1272-149



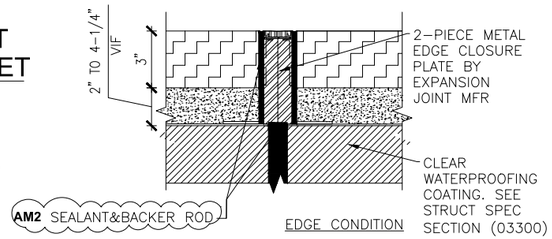
1 A-502 **EXPANSION JOINT DET**
SCALE: 3"=1'-0"



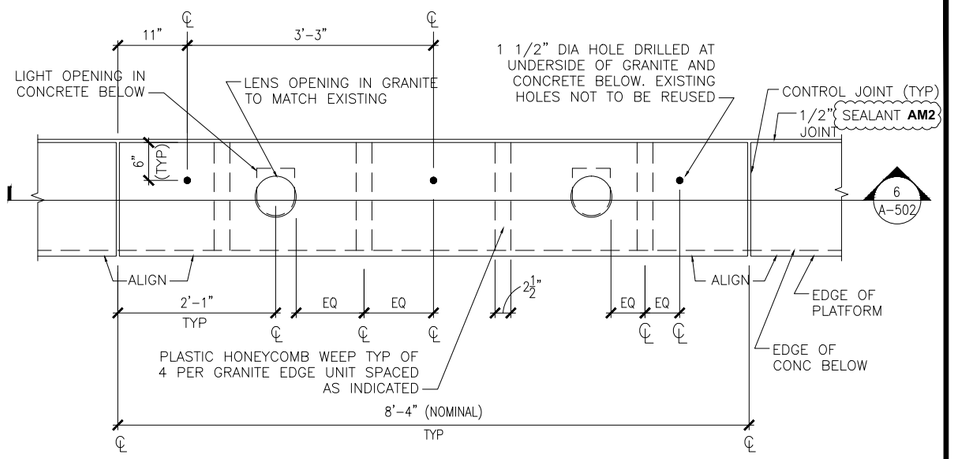
1A A-502 **EXPANSION JOINT AT COLUMN OR WALL DET**
SCALE: 3"=1'-0"



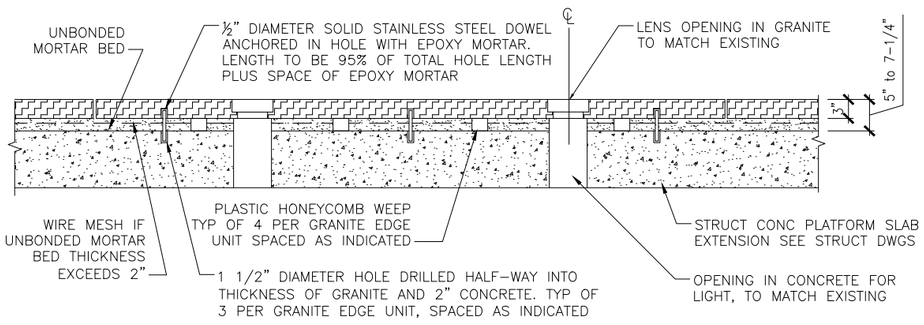
1B A-502 **EXPANSION JOINT AT GRANITE**
SCALE: 3"=1'-0"



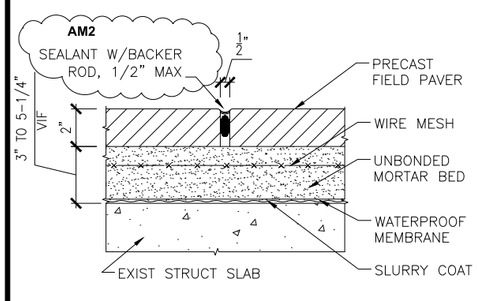
1C A-502 **ELEVATION EXPANSION JOINT AT GRANITE EDGE**
SCALE: 3"=1'-0"



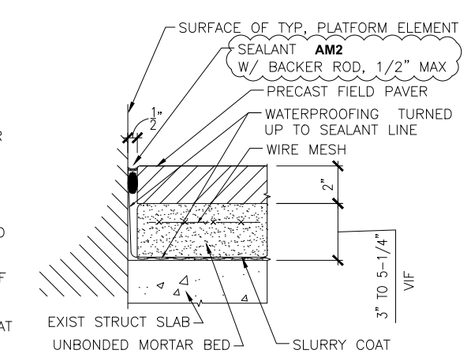
5 A-502 **GRANITE EDGE PLAN (TYP)**
SCALE: 1"=1'-0"



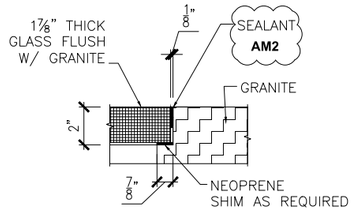
6 A-502 **GRANITE EDGE LONGITUDINAL SECTION (TYP)**
SCALE: 1"=1'-0"



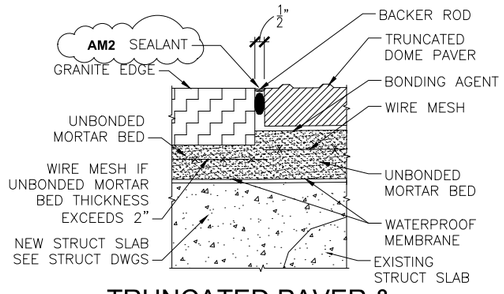
2 A-502 **1/2" CONTROL JOINT DET**
SCALE: 3"=1'-0"



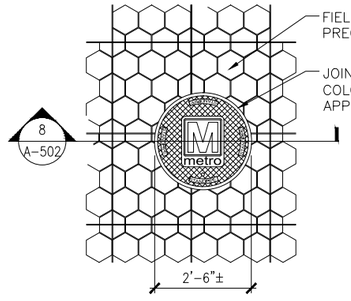
2A A-502 **1/2" CONTROL JOINT DET AT WALL**
SCALE: 3"=1'-0"



3 A-502 **GRANITE EDGE GLASS DET (TYP)**
SCALE: 3"=1'-0"



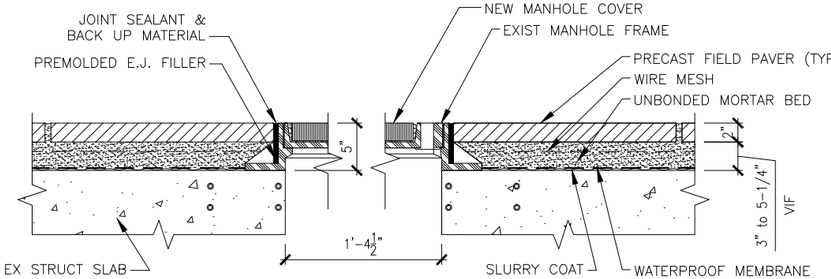
4 A-502 **TRUNCATED PAVER & GRANITE JOINT DET (TYP)**
SCALE: 3"=1'-0"



8 A-502

SEE WMATA SHEET ST-A-SW-004

7 A-502 **MANHOLE COVER DETAIL**
SCALE: 1/2"=1'-0"



8 A-502 **NEW ACCESS MANHOLE SUPPORT**
SCALE: 1/2"=1'-0"

1' 6" 0 1' 2' 3' 4' 5'
SCALE: 1/2" = 1'-0"

1' 0 1' 2'
SCALE: 1" = 1'-0"

0 3" 6" 9" 12"
SCALE: 3" = 1'-0"

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FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14 DATE
DRAWN	AD	7/16/14 DATE
CHECKED	RES	7/22/14 DATE
APPROVED	JP	7/28/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	EXPANSION JOINT & SEALANT DESIGNATION CHANGES AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

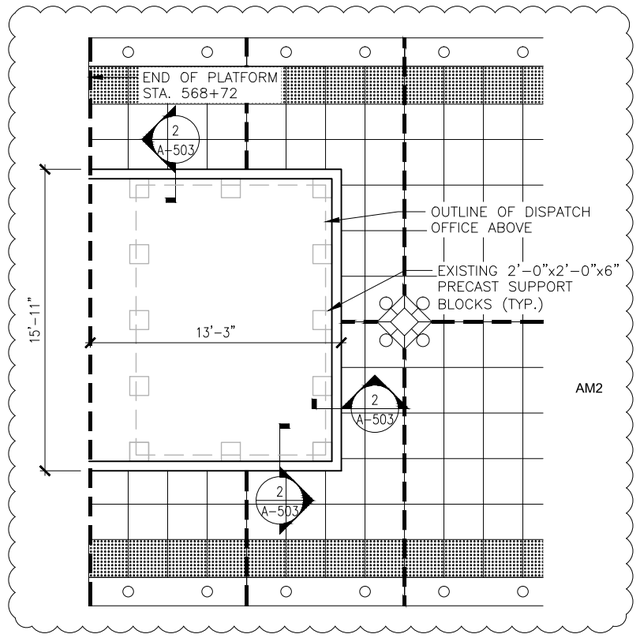
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

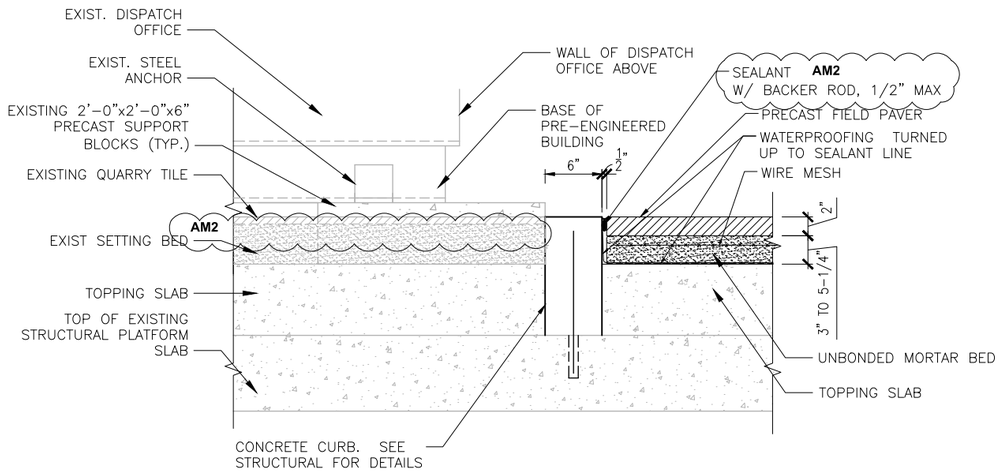
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

ENLARGED PARTIAL PLATFORM PLAN, DETAILS

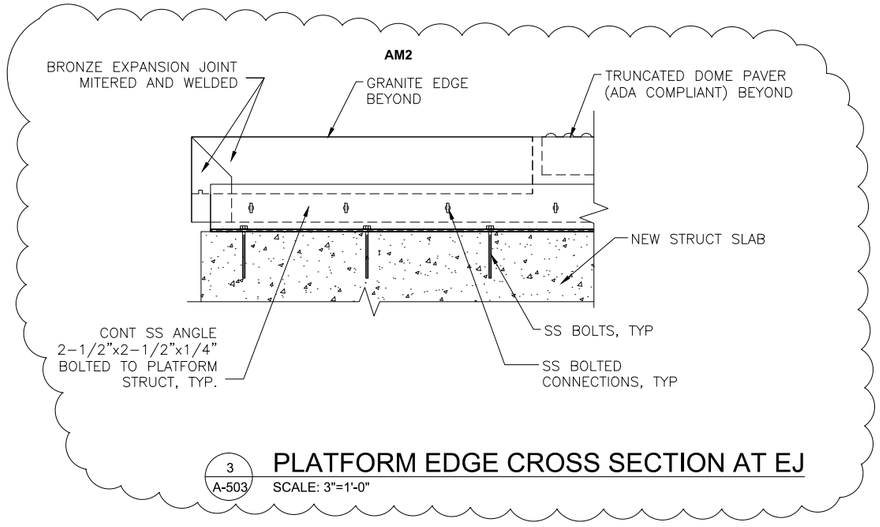
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-502	M1272-150



1 A-503 **PLAN AT DISPATCHER'S OFFICE**
SCALE: 1-1/2"=1'-0"



2 A-503 **SECTION**
SCALE: 1/4"=1'-0"



3 A-503 **PLATFORM EDGE CROSS SECTION AT EJ**
SCALE: 3"=1'-0"

NOTES:

1. THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF EXISTING REINFORCING STEEL AND OTHER EMBEDDED ITEMS IN THE PLATFORM PRIOR TO DRILLING HOLES TO INSTALL NEW CURB.
2. DISPATCH OFFICE TO REMAIN IN PLACE DURING WORK.
3. TOP OF CURB TO MATCH ELEVATION OF TOP OF NEW PAVERS.

1' 0 2' 4' 8'
1/4" = 1'-0"

3 2 1 0 3" 6" 12" 24"
SCALE: 1 1/2" = 1'-0"

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FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14
		DATE
DRAWN	AD	7/16/14
		DATE
CHECKED	RES	7/22/14
		DATE
APPROVED	JP	7/28/14
		DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/19/15	C.R.	DRAWING REVISIONS AM2

ARCHITECTURAL REGISTRATION BOARD 5231-A STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

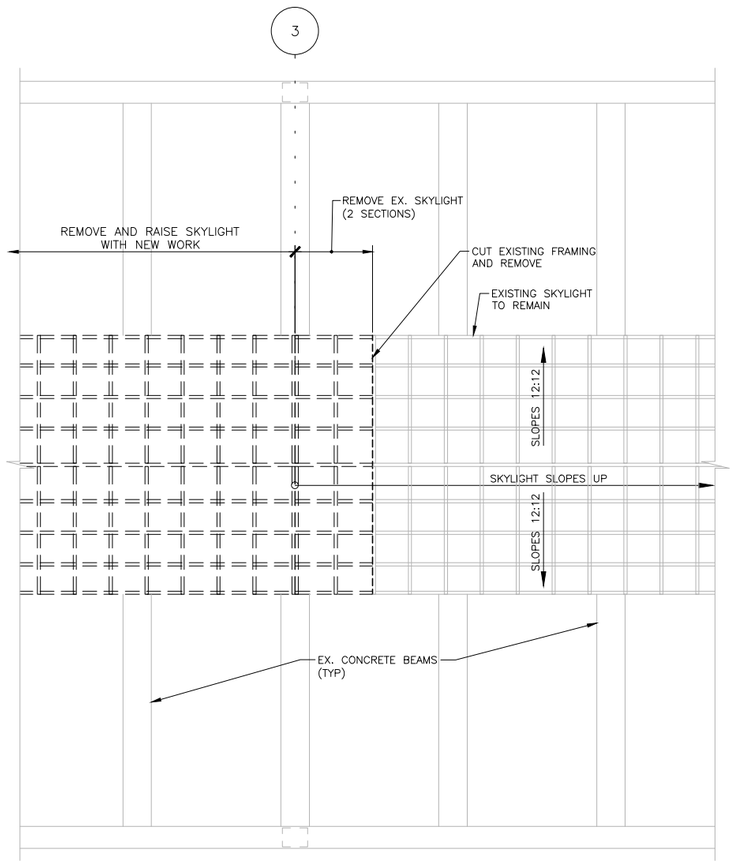
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

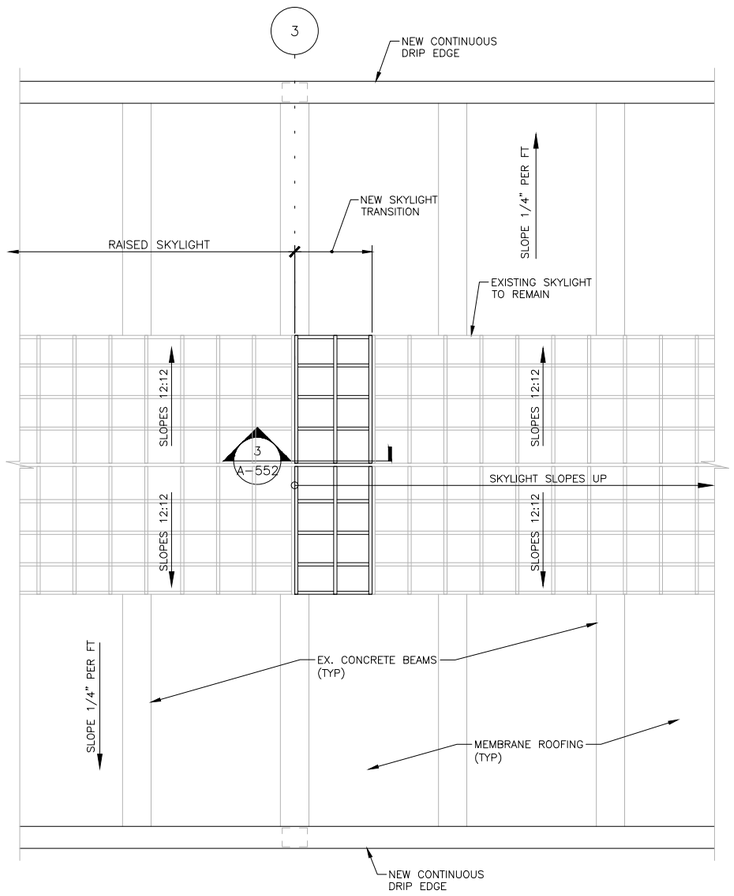
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

CONCRETE CURB DETAIL AT DISPATCHER'S OFFICE

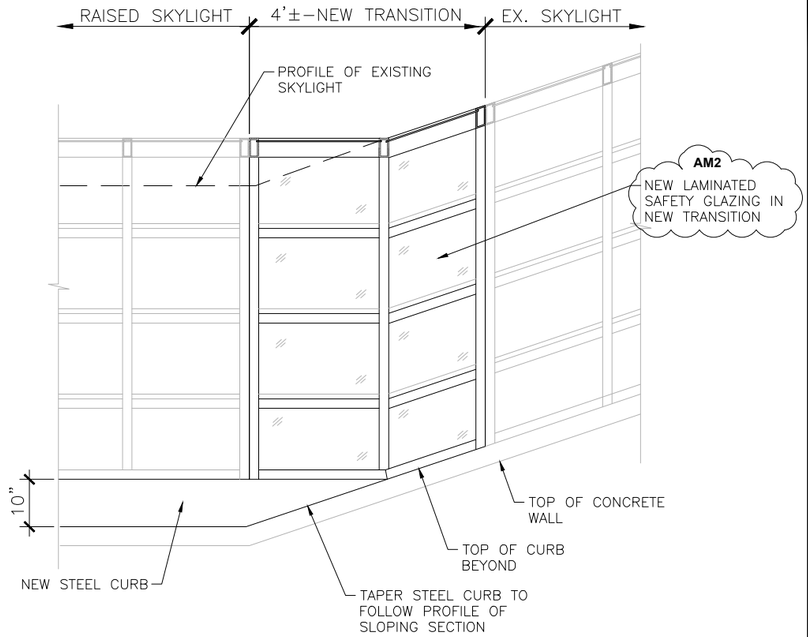
SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	A11-A-503	M1272-151



1 A-552 SKYLIGHT TRANSITION DEMOLITION PLAN
SCALE: 1/4"=1'-0"



2 A-552 SKYLIGHT TRANSITION NEW WORK PLAN
SCALE: 1/4"=1'-0"



3 A-552 SECTION AT RIDGE OF SKYLIGHT TRANSITION
SCALE: 3/4"=1'-0"

1' 0 2' 4' 8'
1/4" = 1'–0"

1' 6" 0 1' 2' 3'
3/4" = 1'–0"

FINAL

CONTRACT NO. FQ15093

DESIGNED	JRS	4/30/14
DRAWN	AD	7/16/14
CHECKED	RES	7/22/14
APPROVED	JP	7/28/14

DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/25/15	A.D.	SYLIGHT REVISION – AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 5

ARCHITECTURAL
SKYLIGHT PLANS AND DETAILS

SCALE: AS SHOWN
DRAWING NO.: A11–A–552
SHEET NO.: M1272–184

LEGEND

EXISTING TO REMAIN EXPOSED CONDUIT

EXISTING TO REMAIN CONCEALED CONDUIT

PLAN KEY NOTES

1. DISCONNECT REMOVED PYLONS AND CONNECT THEM BACK AFTER THEY ARE RE-INSTALLED. PROVIDE FUNCTIONAL TESTING OF CONNECTED DEVICES AFTER RECONNECTION. REPAIR OF NON-OPERATING DEVICES WILL BE DONE BY WMATA. AM2
2. DISCONNECT REMOVED DIORAMAS AND RECONNECT THEM AFTER THEY ARE RE-INSTALLED. PROVIDE FUNCTIONAL TESTING OF CONNECTED DEVICES AFTER RECONNECTION. REPAIR OF NON-OPERATING DEVICES WILL BE DONE BY WMATA. WHEN RECONNECTING DIORAMAS, RELOCATE CONDUIT STUB-UP TO A POINT DIRECTLY BELOW DIORAMA.
3. REMOVE EXISTING FLASHING LIGHTS. REPLACE EXISTING FLASHER/DIMMER CABINETS IN BOTH AC SWITCHGEAR ROOMS. INSTALL NEW FLASHING LIGHTS. PROVIDE NEW CONDUIT AND WIRING. ADJACENT LIGHTS ARE ALTERNATELY CONNECTED TO DIFFERENT PHASES. VERIFY CIRCUITS SHOWN WITH FIELD CONDITIONS.
4. DISCONNECT AND REMOVE FLOOR MOUNTED RECEPTACLES. REMOVE EXISTING POWER SUPPLY WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX. EXISTING CONDUIT EMBEDDED IN CONTRETE MAY BE ABANDONED.
5. GROUNDING: RESTORE GROUNDING CONNECTION TO ALL METALLIC EQUIPMENT ON PLATFORM AFTER EQUIPMENT IS RE-INSTALLED. PROVIDE ADDITIONAL NEW GROUNDING CONNECTIONS AS REQUIRED. PROVIDE GROUNDING AND BONDING CONNECTION FOR ALL PLATFORM MANHOLES. COMPLY WITH WMATA STANDARDS AND GROUNDING DETAIL SHOWN IN THESE DOCUMENTS.
6. REPLACE EXISTING GLOBES WITH NEW GLOBES, DECRA-LITE 14" ROUND POLY CARBONATE GLOBE PART #DL14SPCC-H-14. REPLACE LAMPS WITH ENERGY SAVER SPIRAL FLUORESCENT SELF-BALLASTED LAMP, 120V. SEE DETAIL ON DRAWING A11-E-202.
7. NOT USED
8. DISCONNECT COMMUNICATION WIRING TO EMERGENCY COMMUNICATION PYLONS REMOVED DURING FLOOR REPAIRS AND CONNECT BACK AFTER INSTALLATION.
9. REMOVE AND REPLACE PORTION OF CONDUIT AND WIRING SERVICING PLATFORM LIGHTS AND RECEPTACLES THAT CROSSES PLATFORM OVERHANG REPAIR AREA.
10. NOT USED.
11. PROVIDE NEW RECEPTACLES SUPPORTED FROM WIND SHELTERS. REFER TO DETAIL ON DWG. A11-E-500 FOR ADDITIONAL INFORMATION.
12. EXISTING RELOCATED FIRE WATER STANDPIPE. REFER TO MECHANICAL DWGS. FOR EXACT LOCATION. RESTORE BONDING JUMPERS ACROSS FLANGES.
13. PROVIDE A GREEN INSULATED #6 AWG BONDING WIRE FROM FIRE WATER STANDPIPE TO EXISTING GROUNDING CONDUCTOR UNDER PLATFORM (REQUIRED TWO PLACES).
14. NOT USED AM2
15. NOT USED
16. PROVIDE GROUNDING CONNECTION TO FIRE WATER MANHOLES USING # 6 AWG GROUNDING CONDUCTOR.

GENERAL NOTES

1. CONTRACTOR SHALL CONTACT WMATA AR (AUTHORITY REPRESENTATIVE) TO DEFINE ACCEPTABLE WORKING HOURS, SPACE FOR STORAGE OF MATERIALS, PARKING, ETC.
2. ALL MATERIALS PROVIDED SHALL BE UL LISTED, NEW AND CONFORM TO CONTRACT SPECIFICATIONS, DRAWINGS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
3. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.
4. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT INDICATE ALL PULL BOXES, OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED. FURNISHING SUCH MATERIALS AS REQUIRED TO MEET FIELD CONDITIONS AND NEC REQUIREMENTS SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY.
5. THE CONTRACTOR SHALL EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE CONTEMPLATED WORK PRIOR TO SUBMITTING A BID. ANY REQUESTED VARIANCE TO THESE CONTRACT DOCUMENTS SHOULD BE SUBMITTED AS PART OF THE BID. ANY VARIANCE REQUIRED FOR FIELD CONDITIONS IDENTIFIED AFTER THE BID PERIOD WILL BE RESPONSIBILITY OF CONTRACTOR.
6. ALL RECEPTACLES ON PLATFORM SHALL BE GROUND FAULT PROTECTED WITH WEATHERPROOF COVER.
7. INDICATED DIMENSIONS OF EQUIPMENT ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE FINAL VERIFICATION OF ALL MEASUREMENTS SO THAT THE NEW EQUIPMENT CAN BE MANUFACTURED TO RETROFIT EXISTING CONDITIONS.
8. THE CONTRACTOR SHALL ONLY WORK ON DE-ENERGIZED EQUIPMENT. ALL OUTAGES SHALL BE COORDINATED TROUGH WITH WMATA AR.
9. CONTRACTOR SHALL TAKE PROPER ACTION TO SECURE AND PROTECT THE OPERATIONAL EQUIPMENT IN THE STATION OR FACILITY DURING CONTRACTOR'S WORK, TO PREVENT DAMAGE OR SHUT DOWN OF EQUIPMENT.
10. CONTRACTOR SHALL PROTECT EXISTING ELECTRICAL EQUIPMENT TO REMAIN FROM DUST AND WATER DURING CONTRACTOR'S WORK.
11. ALL NEW EQUIPMENT TO BE INSTALLED SHALL BE STORED PROPERLY. EQUIPMENT DAMAGED DURING SHIPPING, HANDLING, STORAGE, WATER OR OTHER CAUSES SHOULD BE REPLACED AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL TEMPORARILY STORE THE EXISTING REMOVED EQUIPMENT UNTIL ITS DISPOSAL. A STAGING AREA INSIDE THE FACILITY SHALL BE ESTABLISHED TO AVOID OBSTRUCTION TO EXISTING ELECTRICAL EQUIPMENT WITH LOCATION APPROVED BY WMATA AR. COORDINATE WITH THE AR TO DETERMINE WHETHER EQUIPMENT SHOULD BE RETURNED TO WMATA OR DISPOSED OF BY CONTRACTOR.
13. INTERRUPTION OF SERVICE TO EQUIPMENT SHALL BE KEPT TO A MINIMUM, SHALL OCCUR ONLY IN METRO NON-REVENUE HOURS AND SHALL BE COORDINATED WITH WMATA AR AT LEAST TWO WEEKS PRIOR TO THE REQUIRED OUTAGE.
14. CONTRACTOR SHALL OBTAIN & BECOME FAMILIAR WITH WMATA'S SAFETY AND OPERATING PROCEDURES & RULES. SAFETY TRAINING & CERTIFICATION FOR ALL CONTRACTOR EMPLOYEES ON THE WORK SITE IS MANDATORY.
15. A CLEAR AND UNOBSTRUCTED PATHWAY FROM TRACK TO STREET SHALL BE MAINTAINED AT ALL TIMES FOR PERSONNEL ACCESS. THIS INCLUDES PROHIBITING SUCH ACTIVITIES AS BLOCKING DOORWAYS, PATHWAYS OR STAIRS WITH EQUIPMENT AND MATERIALS, DISMANTLING STAIRS AND OBSTRUCTING STREET HATCHWAYS.
16. NOT USED. AM2
17. ALL NEW POWER WIRES SHALL BE WITH RHW-2 INSULATION, LOW SMOKE, ZERO HALOGEN. ALL NEW CONDUITS - GRS TYPE. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH NFPA-130.
18. NOT USED. AM2
19. TO ACCOMMODATE PLATFORM STRUCTURAL REPAIR WORK, TEMPORARILY RELOCATE EXISTING UNDER PLATFORM CABLING, CONDUIT AND WIRING LOCATED WITHIN 24 INCHES OF PLATFORM EDGE AND ANY OTHER CONDUIT AND WIRING THAT MAY INTERFERE WITH STRUCTURAL WORK TO TRACK BED BELOW PLATFORM OVERHANG. PROTECT RELOCATED WIRING DURING STRUCTURAL REPAIR WORK. REINSTALL RELOCATED CABLING, CONDUIT, AND WIRING BACK TO ITS ORIGINAL LOCATION UPON CONCLUSION OF STRUCTURAL WORK. MAINTAIN CONTINUITY OF SERVICE TO ALL CABLING, WIRING, AND CONNECTED DEVICES AND SYSTEMS AT ALL TIMES. AM2
20. NOT USED. AM2
21. WHERE PLATFORM MOUNTED EQUIPMENT IS SUPPLIED FROM BELOW, EXTEND OR REPLACE PORTION OF CONDUIT THAT STUBS-UP THROUGH PLATFORM TO ACCOMMODATE NEW PLATFORM THICKNESS. COORDINATE WITH STRUCTURAL WORK.
22. TEMPORARY LIGHTING
    - A. PROVIDE A TEMPORARY LIGHTING SYSTEM IN PUBLIC AREAS AFFECTED BY THE SCOPE OF WORK INCLUDING BUT NOT LIMITED TO PLATFORMS AND ACCESS PASSAGEWAYS. THE LIGHTING SYSTEM TO BE PROVIDED SHALL INCLUDE LIGHTING FIXTURES, WIRING, RACEWAY, AND SUPPORTS; AND SHALL COMPLY WITH WMATA DESIGN CRITERIA INCLUDING THE FOLLOWING:
    - B. ILLUMINATION LEVELS SHALL BE 10FC (FOOT-CANDLES) AVERAGE AND 3FC MINIMUM.
    - C. LIGHT SOURCE TYPE AND VOLTAGE SHALL BE IN ACCORDANCE WITH WMATA DESIGN CRITERIA.
    - D. A MINIMUM OF 20% OF FIXTURES SHALL BE DESIGNATED AS EMERGENCY FIXTURES AND SHALL BE SUPPLIED FROM AN EMERGENCY SOURCE. EMERGENCY ILLUMINATION LEVELS SHALL COMPLY WITH WMATA DESIGN CRITERIA, INCLUDING THE REQUIREMENT OF 2 FC IN PLATFORMS AND ACCESS PASSAGEWAYS AND 2.5 FC IN EMERGENCY EGRESS PATHS.
    - E. COORDINATE WITH THE WMATA AR FOR USE OF EXISTING NORMAL AND EMERGENCY POWER SOURCE FOR NORMAL AND EMERGENCY TEMPORARY LIGHTING.
    - F. PROVIDE A TEMPORARY LIGHTING SUBMITTAL SHOWING THE FOLLOWING:
        - I PHOTOMETRIC PLANS TO DEMONSTRATE THAT THE PROPOSED LIGHTING PLAN WILL PROVIDE THE REQUIRED ILLUMINATION LEVELS.
        - II PLANS SHOWING PROPOSED LOCATIONS OF LIGHT FIXTURES, MOUNTING HEIGHTS, MOUNTING DETAILS, POWER SOURCE(S), ROUTING AND SUPPORT MEANS OF ALL TEMPORARY SUPPLY WIRING. INCLUDE LOCATION OF PROPOSED POWER SOURCES AND ANY ANCILLARY EQUIPMENT.
        - III CATALOG CUTS OF PROPOSED TEMPORARY LIGHTING FIXTURE TYPES, WATTAGES, VOLTAGES AND LUMEN OUTPUT, AND ALL WIRING, RACEWAY, AND SUPPORT MEANS.
        - IV IF EXISTING PANELS ARE TO BE USED AS THE POWER SOURCE, SHOW ROUTING FROM POWER SOURCE. SHOW NUMBER OF CIRCUITS REQUIRED AND TOTAL LOAD IN KVA. VERIFY EXISTING PANEL HAS SUFFICIENT SPARE CAPACITY TO ACCOMMODATE LIGHTING LOAD BEING ADDED.
23. RESTORE ALL STRAY CURRENT CONDUCTORS AFFECTED BY CONSTRUCTION TO ORIGINAL CONDITION.
24. ALL REMOVED AND REPLACED EQUIPMENT, FIXTURES, CABLES, WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL MANNER AM2

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43224, EXPIRATION DATE 04-14-2015.

FINAL

CONTRACT NO. FQ15093

DESIGNED	K. IBRAHIM	01/30/15 DATE
DRAWN	V. BAHALLA	01/30/15 DATE
CHECKED	A. FISHEL	01/30/15 DATE
APPROVED	J. PURDY	01/30/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/15	K. I.	REVISED NOTES AM2

STATE OF MARYLAND — KHALID HAMDOUN — No. 43224 — PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

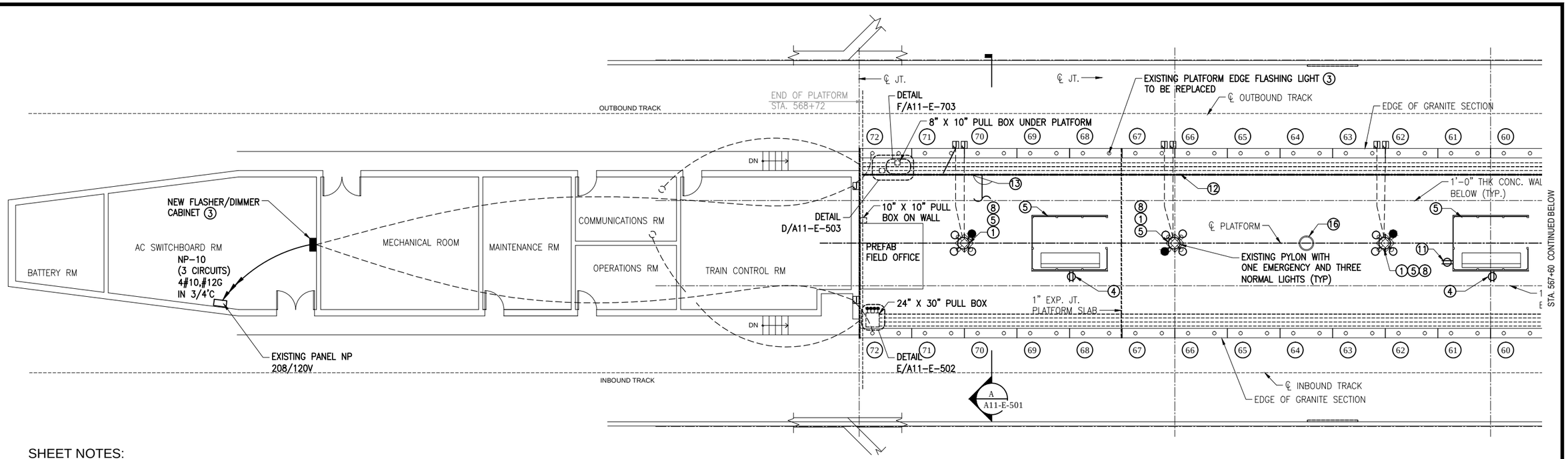
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

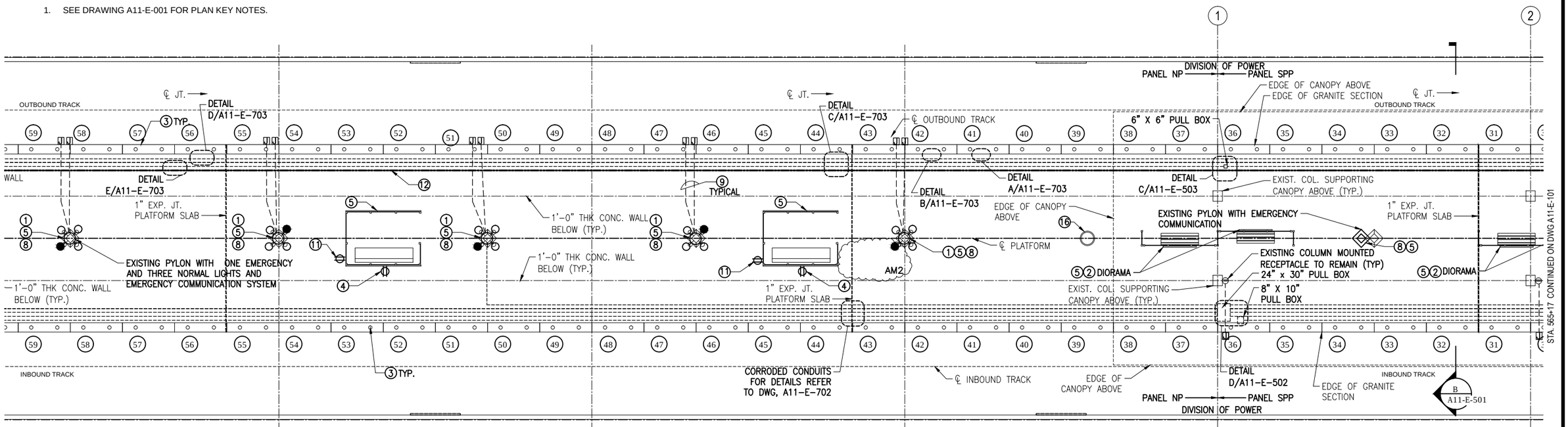
GROSVENOR STATION
SCOPE OF ELECTRICAL WORK AND GENERAL NOTES

SCALE	DRAWING NO.	SHEET NO.
NOT TO SCALE	A11-E-001	M1272-166



SHEET NOTES:

1. SEE DRAWING A11-E-001 FOR PLAN KEY NOTES.



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43224, EXPIRATION DATE 04-14-2015.

FINAL

CONTRACT NO. FQ15093

DESIGNED	K. IBRAHIM	01/30/14 DATE
DRAWN	V. BAHALLA	01/30/14 DATE
CHECKED	A. FISHEL	01/30/14 DATE
APPROVED	J. PURDY	01/30/14 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/15	K.I.	DELETED NOTE 14 REF AM2

STATE OF MARYLAND — EDWARD MAMDOUH IBRAHIM — No. 43224 — PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

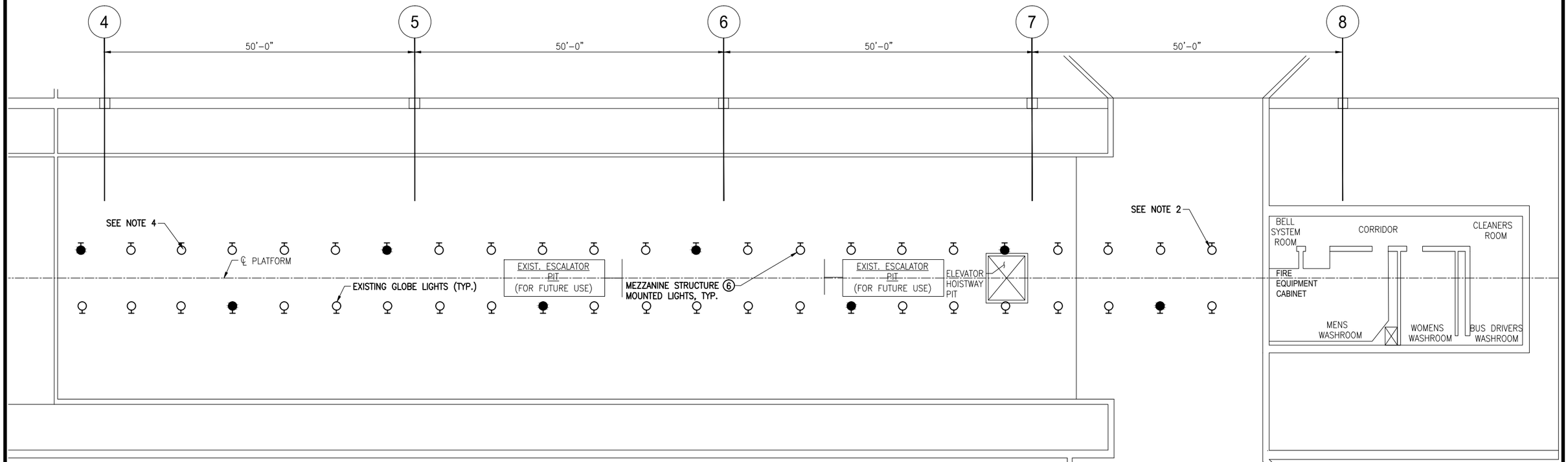
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

GROSVENOR STATION
ELECTRICAL PLAN SHEET 1 OF 2

SCALE 1/8"=1'-0" (2 1 0 2 4 6 8 10)

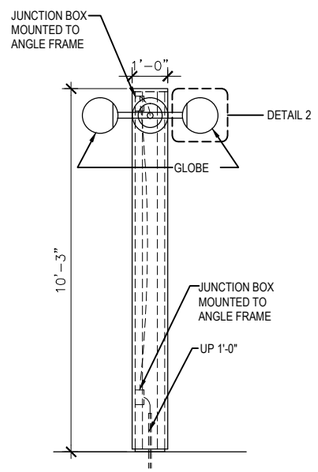
DRAWING NO. A11-E-100

SHEET NO. M1272-167

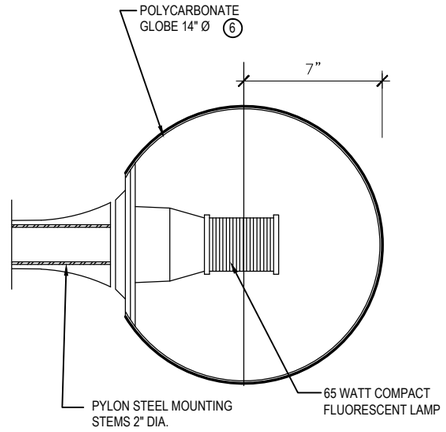


SHEET NOTES:

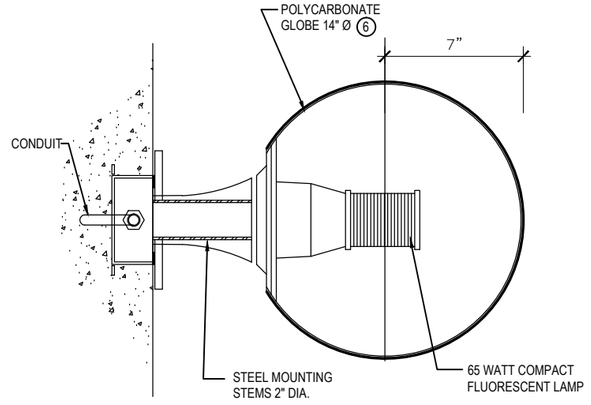
1. FOR ADDITIONAL SHEET NOTES, SEE DRAWING A11-E-001.
2. AFTER LAMP REPLACEMENT, IDENTIFY ALL NON-OPERATING FIXTURES. REPAIR AND OR REPLACEMENT OF NON OPERATING FIXTURES WILL BE DONE BY WMATA. AM2
3. SEE DWG. A11-E-101 FOR LOCATION OF PANELS SPP AND SEE.
4. ONE FIXTURE MISSING AT THIS LOCATION. REPLACEMENT FIXTURE WILL BE PROVIDED BY WMATA, TO BE INSTALLED BY THE CONTRACTOR. AM2



PYLON MOUNTED GLOBE DETAIL ①
1/2"=1'-0"



PYLON MOUNTED GLOBE DETAIL ②
3"=1'-0"



CANOPY, UNDER MEZZANINE STRUCTURE AND MEZZANINE STRUCTURE MOUNTED GLOBE DETAIL ③
3"=1'-0"

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APPROVED	J. PURDY	01/30/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/15	K.I.	REVISED NOTES AM2

STATE OF MARYLAND — KEVIN I. HAMDOUN — No. 43224 — PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

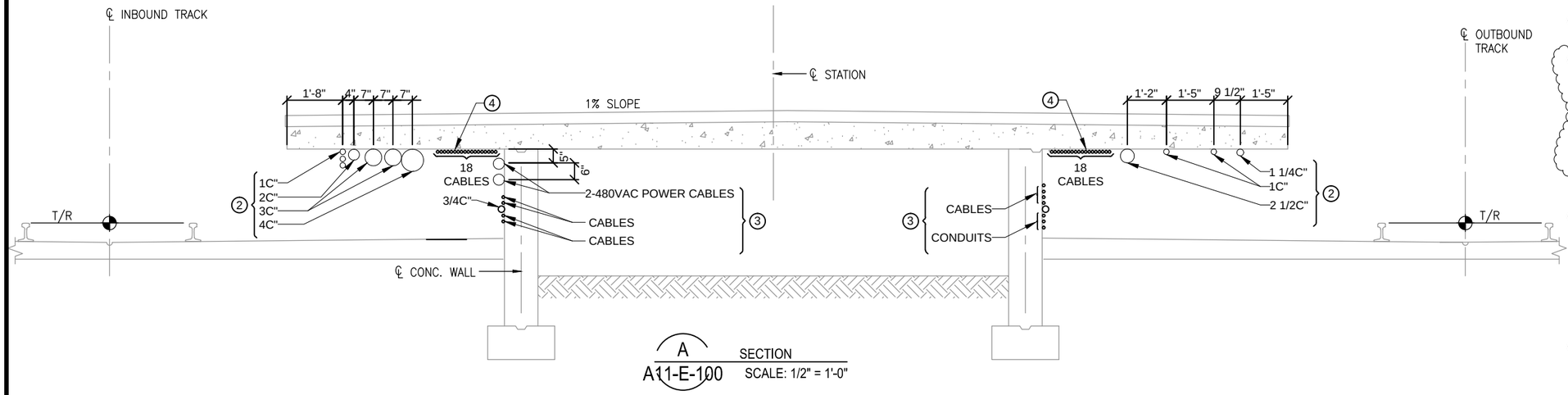
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

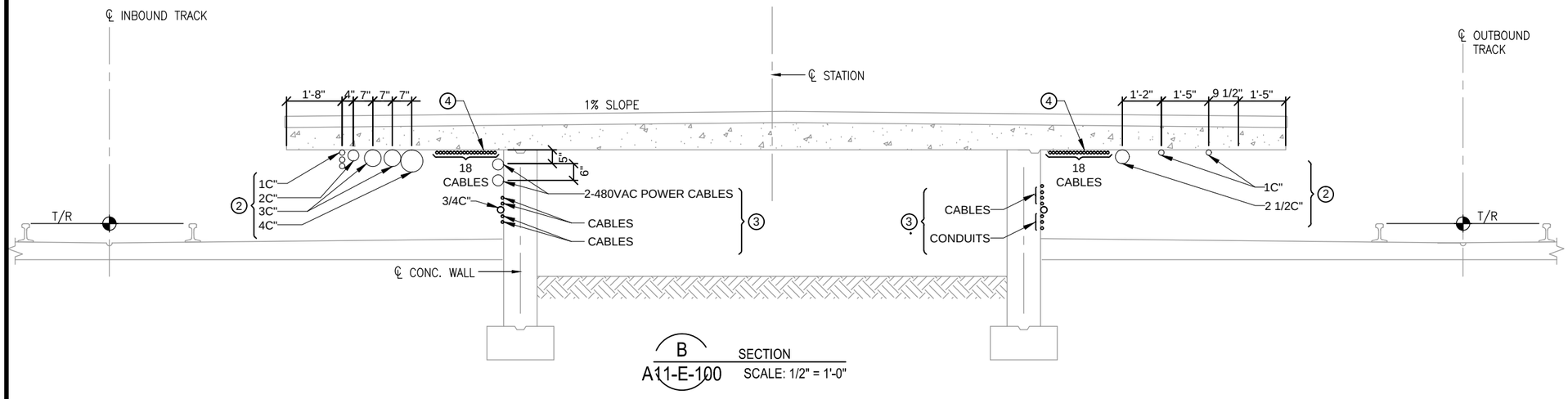
GROSVENOR STATION
MEZZANINE LIGHTING PLAN AND DETAILS

SCALE 1/8"=1'-0" (2 1 0 2 4 6 8 10)

DRAWING NO. A11-E-202

SHEET NO. M1272-171





SHEET NOTES:

1. EXISTING CONDUITS ARE SUPPORTED MOSTLY WITH CLAMPS OFF EMBEDDED CHANNEL INSERTS.
2. TO ACCOMMODATE PLATFORM STRUCTURAL REPAIR WORK, TEMPORARILY RELOCATE EXISTING UNDER PLATFORM CABLING, CONDUIT AND WIRING LOCATED WITHIN 24 INCHES OF PLATFORM EDGE AND ANY OTHER CONDUIT AND WIRING THAT MAY INTERFERE WITH STRUCTURAL WORK TO TRACK BED BELOW PLATFORM OVERHANG. PROTECT RELOCATED WIRING DURING STRUCTURAL REPAIR WORK. REINSTALL RELOCATED CABLING, CONDUIT, AND WIRING BACK TO ITS ORIGINAL LOCATION UPON CONCLUSION OF STRUCTURAL WORK. MAINTAIN CONTINUITY OF SERVICE TO ALL CABLING, WIRING, AND CONNECTED DEVICES AND SYSTEMS AT ALL TIMES. AM2
3. POWER, COMM AND TRAIN CONTROL CABLES AND CONDUITS ON RETAINING WALL SHALL REMAIN IN PLACE AND SHALL BE PROTECTED WITH PLYWOOD BOARD OR OTHER SUITABLE MEANS DURING PLATFORM STRUCTURAL WORK. CABLES ON THE WALL LOCATED WITHIN 12" OF BOTTOM OF PLATFORM MAY HAVE TO BE TEMPORARILY DROPPED. COORDINATE WITH OTHER TRADES FOR CONDUITS AND CABLES TO REMAIN IN PLACE. REPLACE CORRODED CABLE AND CONDUIT SUPPORTS WITH STAINLESS STEEL OR NON-METALLIC SUPPORTS.
4. EXISTING ATC CABLES TO REMAIN. PROTECT DURING CONSTRUCTION.

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APPROVED	J. PURDY	01/30/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
6/15	K.I.	REVISED NOTES AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED

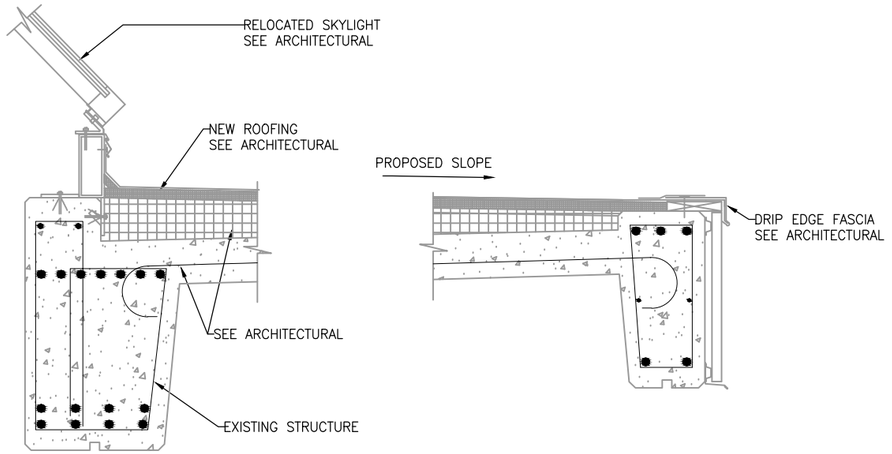
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 4

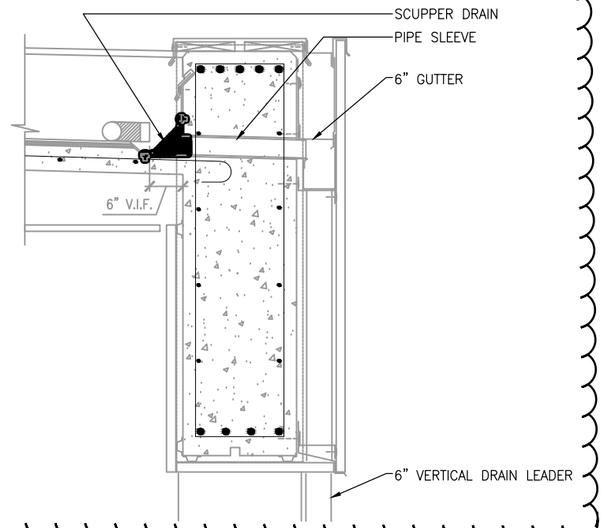
GROSVENOR STATION – PLATFORM REMOVAL ELECTRICAL SECTIONS AND DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	A11–E–501	M1272–173

AM2



1 M-350 TYPICAL SECTION AT LOWER ROOF
SCALE: 1"=1'-0"



2 M-350 TYPICAL SECTION AT SCUPPER DRAIN
SCALE: 1"=1'-0"

6" 3" 0 3" 6" 1
SCALE: 1'' = 1'-0"

FINAL

CONTRACT NO. FQ15093

DESIGNED DPR 01/2015 DATE
DRAWN DPR 01/2015 DATE
CHECKED CMR 01/2015 DATE
APPROVED JP 01/2015 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
07/2015	DPR	UPDATE OF ARCH BACKGROUND – AM2

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 5

MECHANICAL ROOF PROPOSED SECTIONS

SCALE: AS SHOWN

DRAWING NO. A11–M–350

SHEET NO. M1272–188

GENERAL NOTES

1. GENERAL NOTES ARE TO BE READ IN CONJUNCTION WITH THE DESIGN SPECIFICATIONS AND THESE DRAWINGS.
2. ALL DIMENSIONS OF EXISTING STRUCTURES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES, UTILITIES, ETC. ANY DISCREPANCIES ARISING BETWEEN EXISTING CONDITIONS AND DETAILS SHOWN ON CONTRACT PLANS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION.
3. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
4. THE CONTRACTOR SHALL INSPECT THE SITE AND BECOME INFORMED AS TO THE CURRENT CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED.
5. THE DRAWINGS ARE INTENDED TO INDICATE THE EXTENT OF THE WORK DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL FURNISH ALL ITEMS NECESSARY TO ACCOMPLISH THE WORK AS INTENDED WHETHER OR NOT THE ITEMS APPEAR ON THE DRAWINGS OR SPECIFICATIONS.
6. COORDINATE ALL STRUCTURAL WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

NEW WORK NOTES

1. PROVIDE RED LINE TUNNEL REHABILITATION FROM FRIENDSHIP HEIGHTS TO GROSVENOR STATION. STATION LIMITS FOR WORK ARE FROM 306+00 TO 509+98 EXCLUDING ALL STATIONS AND MEDICAL CENTER CROSSOVER.
2. NEW WORK SHALL INCLUDE BUT NOT LIMITED TO REPAIR OF EXISTING CONCRETE, PLINTH REMOVAL, COATING APPLICATION, AND POWER WASHING.
3. FOR POWER WASHING REQUIREMENTS, SEE SPECIFICATION 03371. FOR LIMITS AND ADDITIONAL INFORMATION SEE POWER WASHING NOTES THIS SHEET.
4. FOR CONCRETE REPAIR SEE SPECIFICATION 03720. SEE DRAWINGS FOR REPAIR TABLE AND DETAILS.
5. FOR WATERPROOFING COATING REQUIREMENTS. SEE SPECIFICATION 09901. FOR LIMITS SEE MEDICAL CENTER PASSAGEWAY DRAWINGS.
6. ALL NEW WORK SHALL COMPLY WITH NATIONAL, STATE, AND LOCAL CODE REQUIREMENTS.

POWER WASHING NOTES

1. POWER WASH TUNNELS FROM STATION 309+28 (AM2) TO 509+98. TAKE CARE TO AVOID DAMAGE TO ELECTRICALLY POWERED EQUIPMENT, BOXES, LIGHTS, ETC. SEE TUNNEL MECHANICAL DRAWINGS FOR CLEANING OF DRAINAGE SYSTEM.
2. POWER WASH TUNNELS PRIOR TO STARTING ANY OTHER REHABILITATION WORK IN THE WORK AREA TO THE LIMITS SHOWN.
3. USE HAND OR POWER TOOL CLEANING IS REQUIRED AFTER THE TUNNELS HAVE BEEN POWER WASHED IN AREAS OF HEAVY CALCITE BUILD UP PRIOR TO PERFORMING STRUCTURAL REPAIRS.
4. USE HAND REMOVAL METHODS TO REMOVE HEAVY CALCITE BUILD UP FROM ELECTRICAL CABLE, SEE TUNNEL ELECTRICAL DRAWINGS.
5. CLEAN ALL SIGNAGE AND STATION MAKERS IN THE TUNNELS.
6. NO SURFACE PROFILE REQUIRED. AM2

REPAIR NOTES

1. REPAIR DETAILS ARE SHOWN ON DRAWING S-500 AND S-501. TRACK NUMBER, APPROXIMATE STATION MARKER, CLOCK AND REPAIR DETAIL TYPE ARE SHOWN IN DEFECT REPAIR TABLES.
2. TRACK 1 AND TRACK 2 DEFECT REPAIR SUMMARY TABLES LIST ESTIMATED QUANTITY FOR EACH TYPE OF REPAIR BASED ON CONDITION OBSERVED DURING INSPECTION.
3. CONTRACTOR SHALL LOCATE DEFECTS IN THE FIELD BASED ON DEFECT REPAIR TABLES. FIELD VERIFY THE LOCATION, DEFECT LENGTH AND CHECK FOR ANY ADDITIONAL DEFECTS THAT ARE NOT IDENTIFIED. APPROVAL FROM AUTHORITY REPRESENTATIVE SHALL BE OBTAINED PRIOR TO STARTING REPAIR WORK.
4. TYPE 1 REPAIR TO BE USED WHERE THERE IS RUNNING OR DRIPPING WATER. AFTER REPAIR IS COMPLETED THERE SHOULD NOT BE RUNNING OR DRIPPING WATER. IT IS ACCEPTABLE TO HAVE DAMP OR WET AREA. IN SOME CASES WHEN INJECTION IS NOT SUCCESSFUL AFTER SECOND INJECTION AND LEAKING/DRIPPING IS MINIMUM AUTHORITY REPRESENTATIVE WILL MAKE A DETERMINATION IF THE REPAIR IS ACCEPTABLE. ALL TYPE 1 REPAIRS TO BE INSPECTED AT A MINIMUM 1 WEEK AND A MAXIMUM 2 WEEKS AFTER INJECTION WAS COMPLETED TO DETERMINE IF THE REPAIR IS ACCEPTABLE.
5. ALL SPALL REPAIRS IDENTIFIED IN THE DEFECT REPAIR TABLES SHALL BE COMPLETED. ANY SPALLS ¾ INCH DEEP OR DEEPER FOUND ON TOP OF THE SAFETY WALKS, BUT NOT LISTED IN THE TABLE SHALL ALSO BE REPAIRED.

STRUCTURAL ABBREVIATIONS

ADDL	ADDITIONAL	HORIZ	HORIZONTAL
ALT	ALTERNATE	ID	INSIDE DIAMETER
APPROX	APPROXIMATELY	IF	INSIDE FACE
ARCH	ARCHITECTURAL	JT	JOINT
BM	BEAM	LF	LINEAR FEET
BRG	BEARING	LG	LONG
BOT	BOTTOM	LLV	LONG LEG VERTICAL
B/ST	BOTTOM OF STEEL	MATL	MATERIAL
C/C	CENTER TO CENTER	MAX	MAXIMUM
CIR	CIRCULAR	MEP	MECHANICAL/ELECTRICAL/ PLUMBING
CL	CENTERLINE	MH	MANHOLE
CLR	CLEAR	MIN	MINIMUM
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	OPNG	OPENING
CONST	CONSTRUCTION	OF	OUTSIDE FACE
CONT	CONTINUOUS	PL	PLATE
CONTR	CONTRACTOR	PVC	POLYVINYL CHLORIDE
DET	DETAIL	R	RADIUS
DIA	DIAMETER	REINF	REINFORCEMENT
DN	DOWN	REQD	REQUIRED
DWG	DRAWING	SC	SLIP CRITICAL
EA	EACH	SPA	SPACING
EF	EACH FACE	SF	SQUARE FEET
EL	ELEVATION	SQ	SQUARE
EMBED	EMBEDMENT	SS	STAINLESS STEEL
EQ	EQUAL	STA	STATION MARKER
EQUIP	EQUIPMENT	STL	STEEL
EXIST	EXISTING	STIFF	STIFFENER
EXP	EXPANSION	SYM	SYMMETRICAL
EW	EACH WAY	TK	TRACK
FIN	FINISHED	T/R	TOP OF RAIL
FL	FLOOR	TYP	TYPICAL
FS	FAR SIDE	T&B	TOP AND BOTTOM
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	WP	WORKING POINT
		W/	WITH
		VERT	VERTICAL
		VIF	VERIFY IN FIELD

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WHERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED A. ZENDEK 01-15 DATE
DRAWN D. DILLON 01-15 DATE
CHECKED V. CECKA 01-15 DATE
APPROVED M. AVERSO 01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	REVISED NOTES AM 2

STATE OF MARYLAND · MARTHA JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

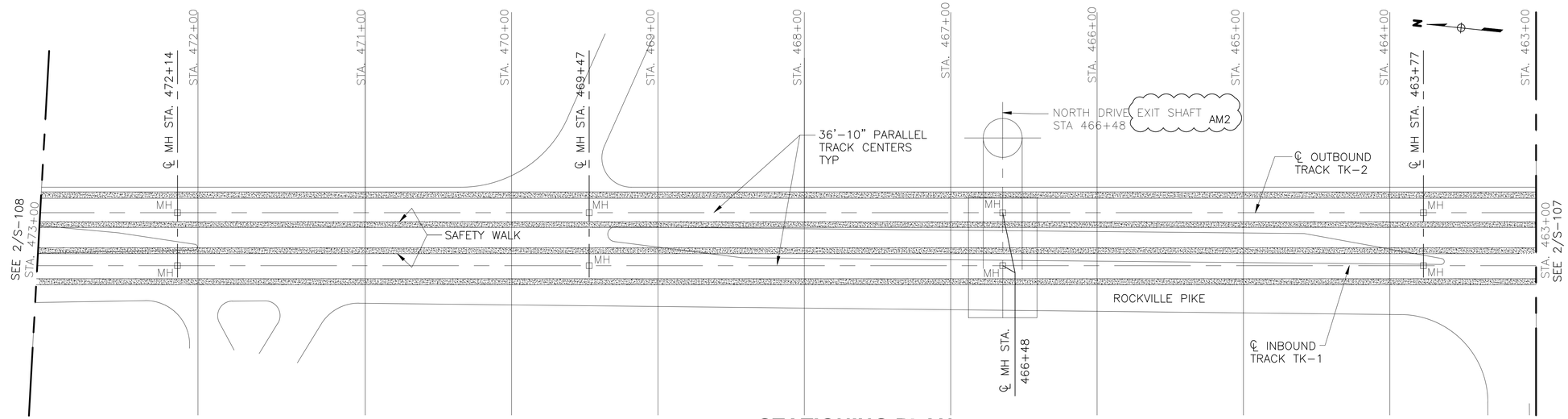
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

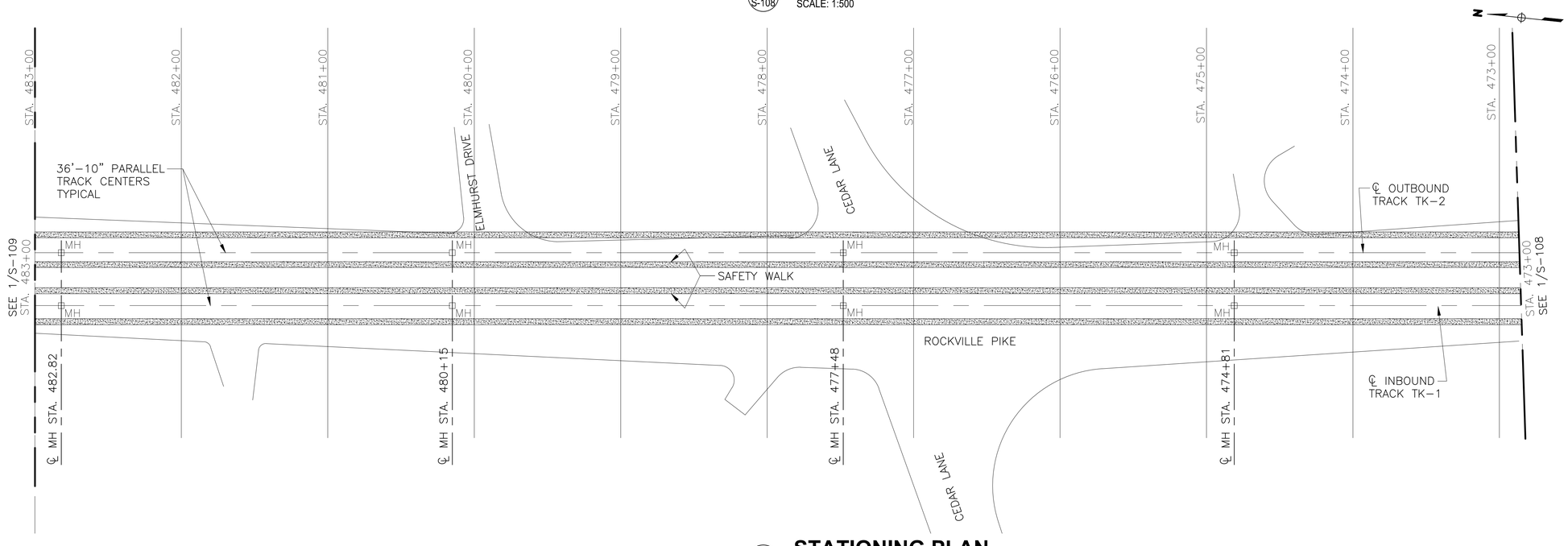
STRUCTURAL NOTES AND ABBREVIATIONS

SCALE NO SCALE
DRAWING NO. S-001
SHEET NO. M1272-011



1 S-108 **STATIONING PLAN**

SCALE: 1:500



2 S-108 **STATIONING PLAN**

SCALE: 1:500

0 10000 20000

SCALE: 1:500

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WHERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05–03–2015."

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REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06–15	VC	REVISED CALL–OUT AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

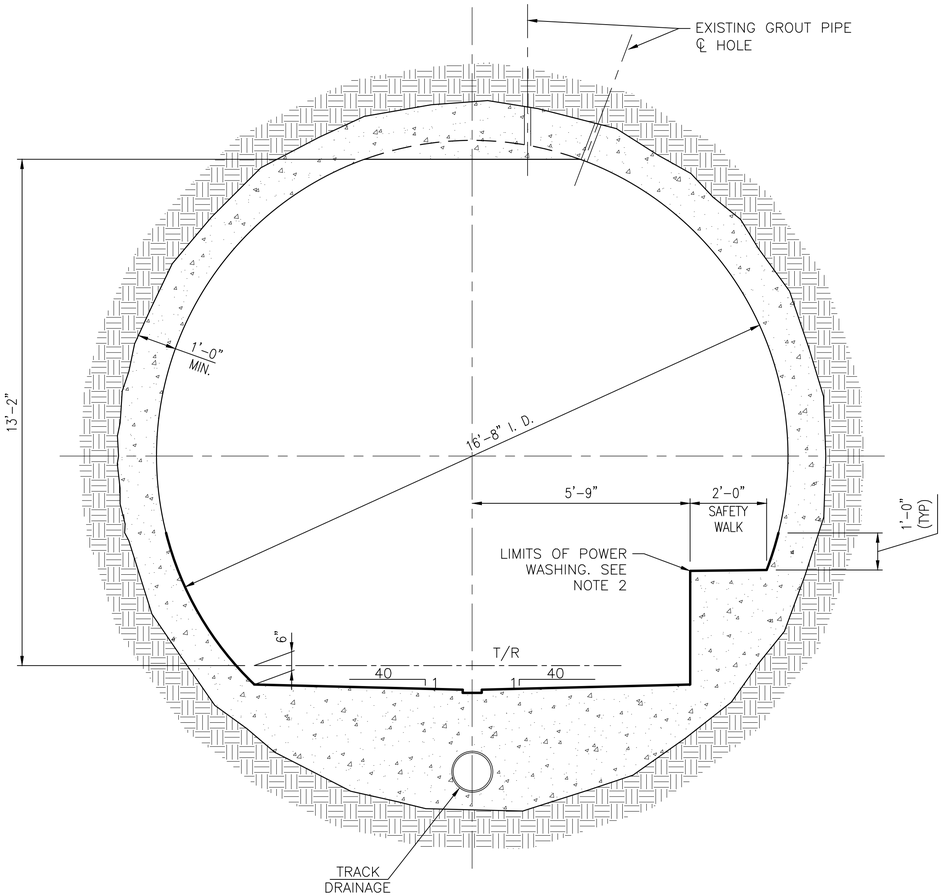
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

STATIONING PLANS

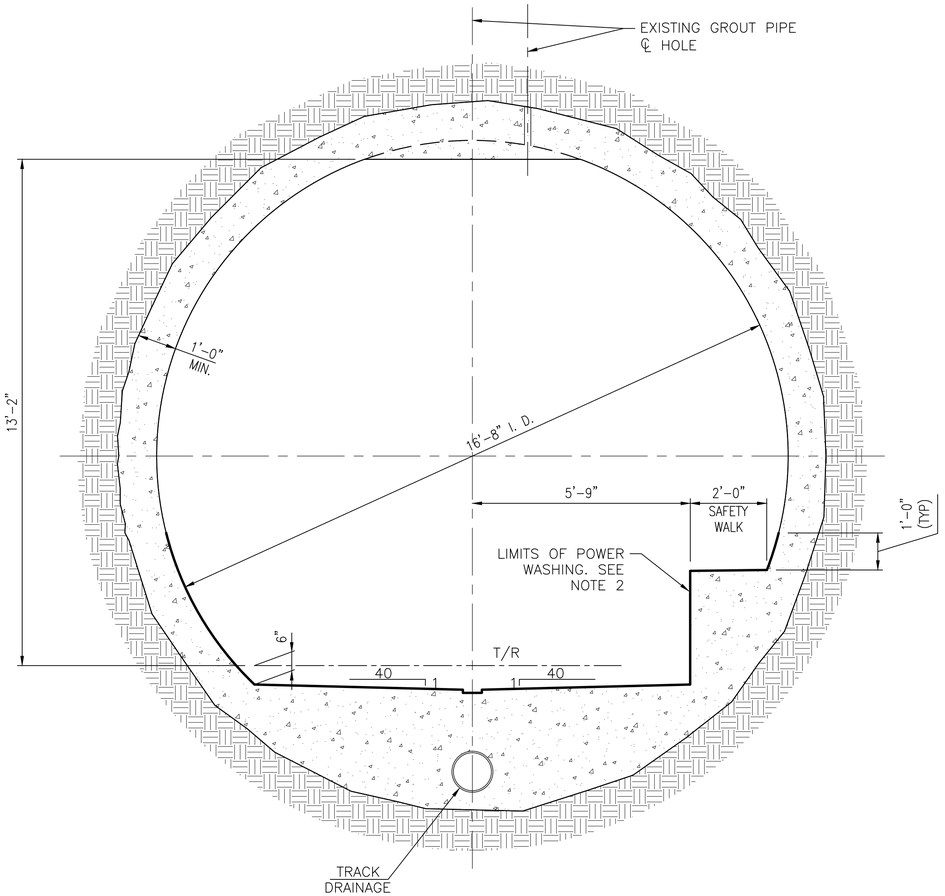
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-108	M1272-020



1 S-300 **SECTION**
SCALE: 1/2" = 1'-0"

NOTES

1. SECTION ~~APPLIES TO STA. 309+24 TO 329+00 AND STA. 336+00 TO~~ 389+00 EXCEPT AS ALTERED BY EXIT SHAFT STRUCTURES. AM2
2. ~~ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.~~
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2



2 S-300 **SECTION**
SCALE: 1/2" = 1'-0"

NOTES

1. SECTION APPLIES TO INBOUND STA. 397+11 TO 440+24.02 AND OUTBOUND STA. 397+51.50 TO 440+24.02 SECTION APPLIES IN BOTH DIRECTIONS FROM 452+14.92 TO 496+50.00. SECTION ALTERED BY EXIT SHAFT STRUCTURES. AM2 AM2
2. ~~ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.~~
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2

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

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REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	REVISED NOTES AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

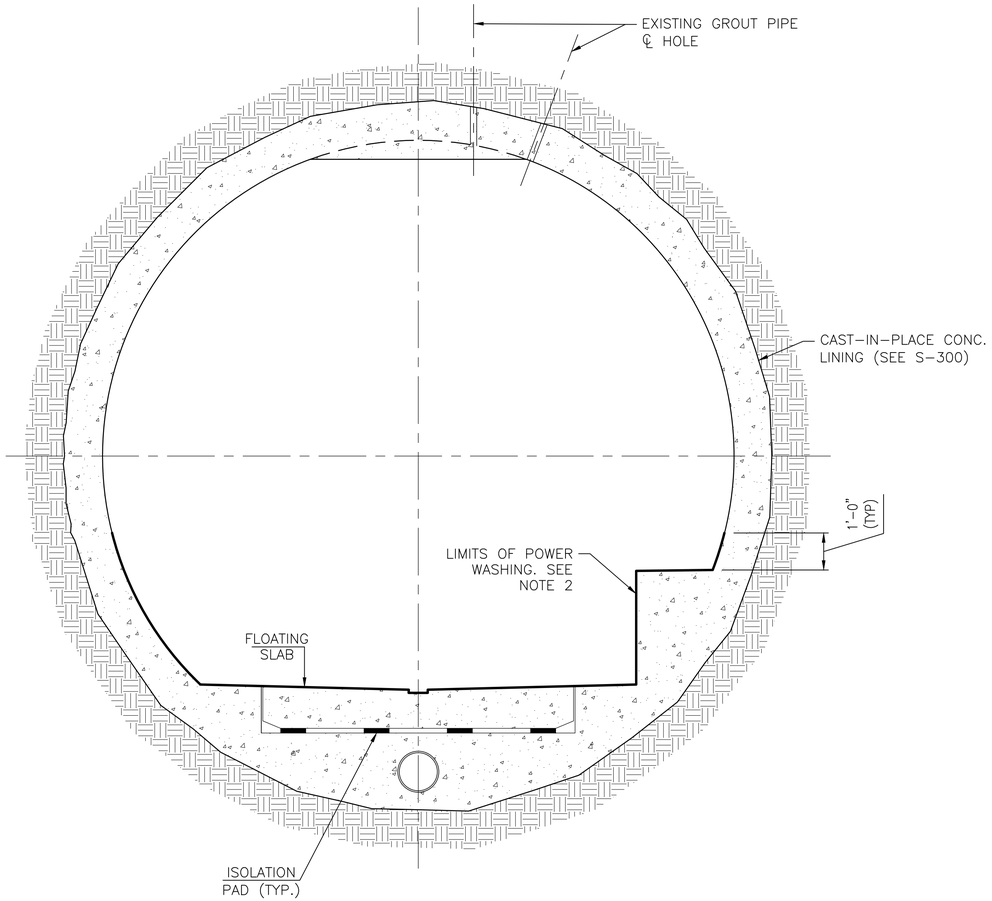
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

SECTIONS

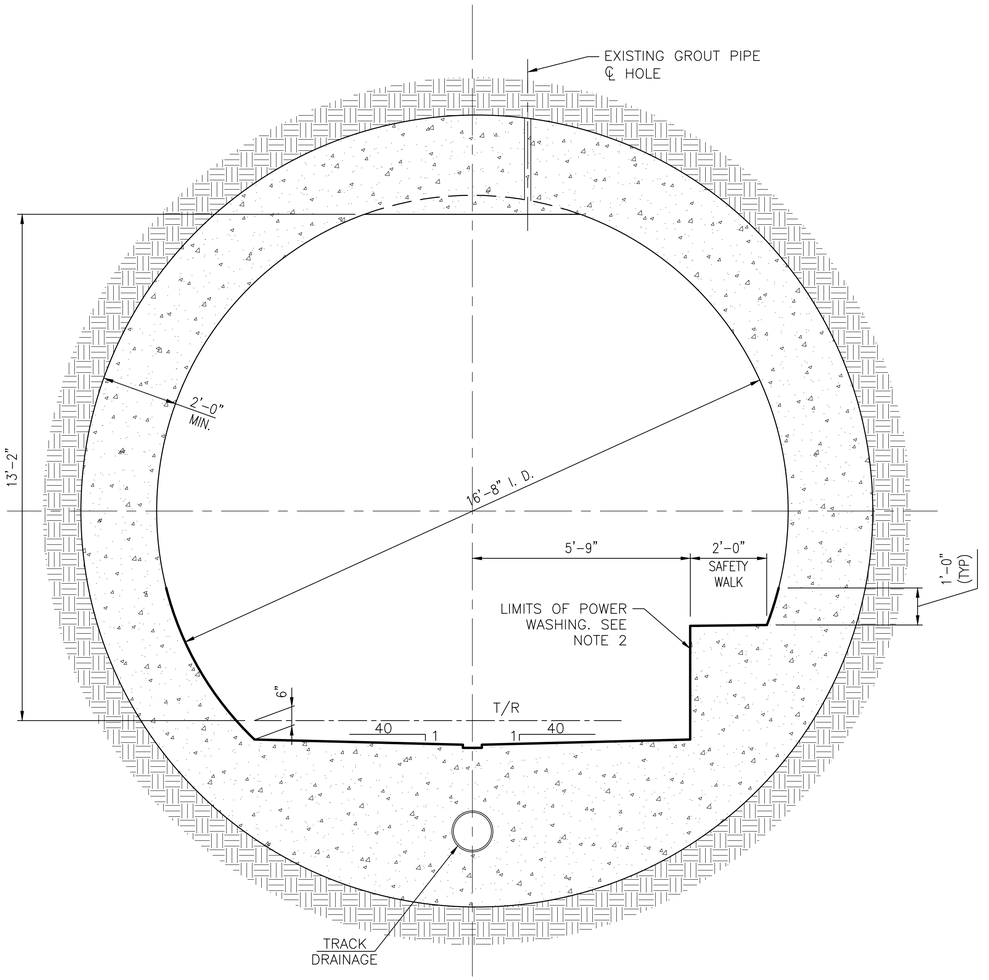
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-300	M1272-023



1 S-301 **SECTION**
SCALE: 1/2" = 1'-0"

NOTES:

1. SECTION APPLIES TO STA. 329+00 TO 336+00 EXCEPT AS ALTERED BY EXIT SHAFT STRUCTURES. AM2
2. ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2



2 S-301 **SECTION**
SCALE: 1/2" = 1'-0"

NOTES:

1. SECTION APPLIES TO STA. 496+50 TO 502+50 EXCEPT AS ALTERED BY EXIT SHAFT STRUCTURES. AM2
2. ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2

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

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WHERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22331, EXPIRATION DATE: 05-03-2015."

FINAL

CONTRACT NO. FQ15093

DESIGNED	A. ZENDEK	01-15 DATE
DRAWN	D. DILLON	01-15 DATE
CHECKED	V. CECKA	01-15 DATE
APPROVED	M. AVERSO	01-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	REVISED NOTES AM 2

STATE OF MARYLAND · MARTIN JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

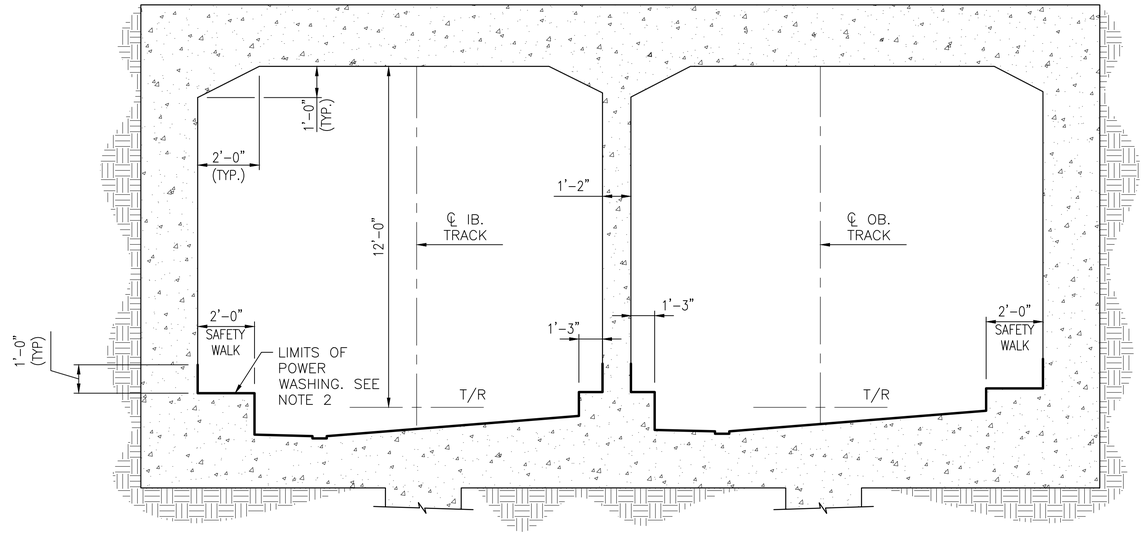
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

SECTIONS

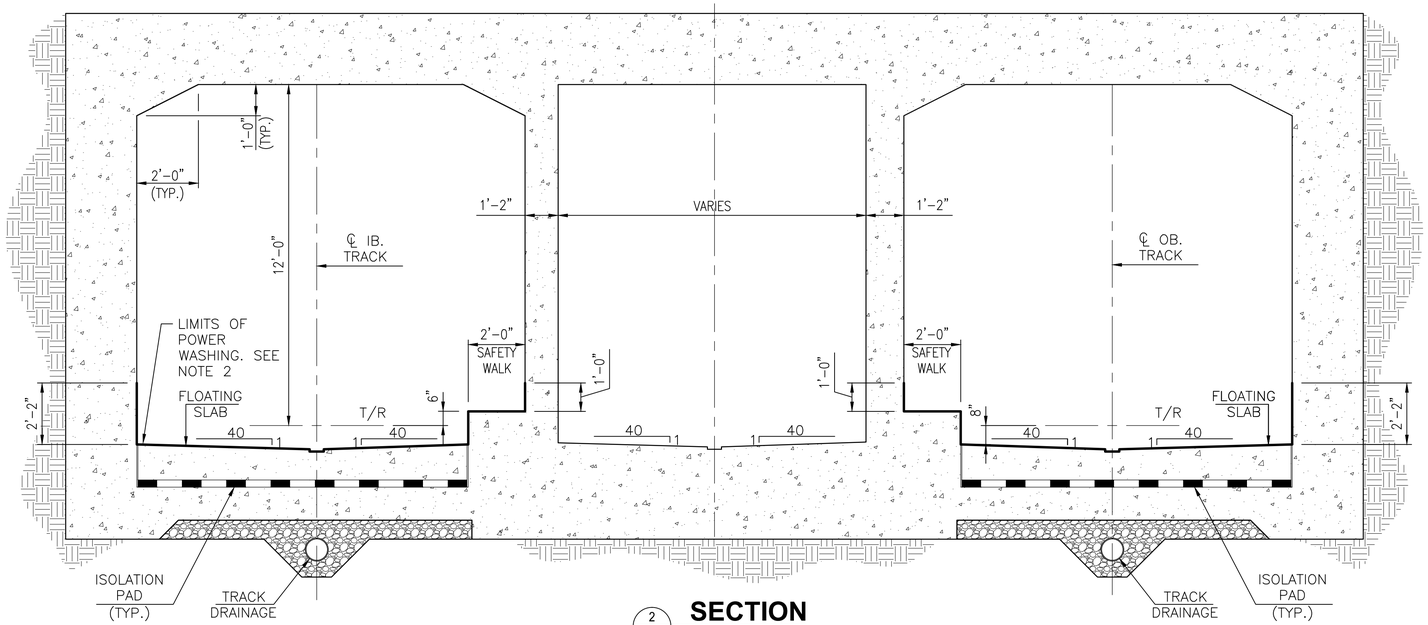
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-301	M1272-024



1 S-302 **SECTION**
SCALE: 3/8" = 1'-0"

NOTES:

1. SECTION APPLIES TO STA. 510+00 TO 507+80 EXCEPT AS ALTERED BY EXIT SHAFT STRUCTURES. AM2
2. ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2



2 S-302 **SECTION**
SCALE: 3/8" = 1'-0"

NOTES:

1. SECTION APPLIES TO STA. 504+24 TO 502+50 EXCEPT AS ALTERED BY EXIT SHAFT STRUCTURES. STA. 507+80 TO 504+00 SIM WITHOUT FLOATING SLAB. AM2
2. ALL SIGNAGE IN TUNNEL TO BE POWER WASHED ALSO.
3. SEE POWER WASHING NOTES ON S-001 FOR POWER WASHING STATION LIMITS. AM2

0 2' 4' 6'
SCALE: 3/8"=1'

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REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
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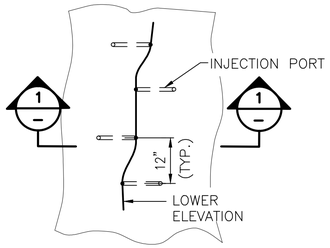
SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

SECTIONS

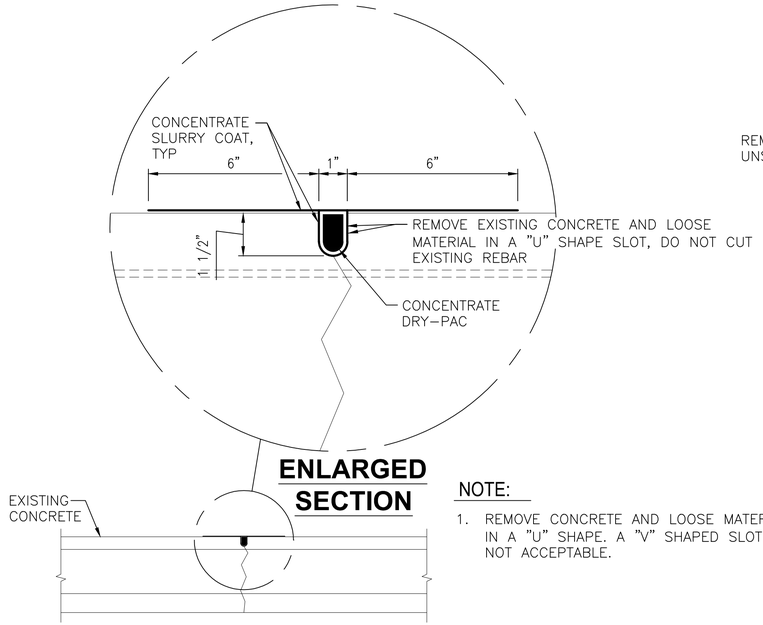
SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-302	M1272-025



1 S-500 TYPE 1 REPAIR - INJECTION

SCALE: NTS

(FOR HORIZONTAL, VERTICAL, AND OVERHEAD REPAIRS)



NOTE:

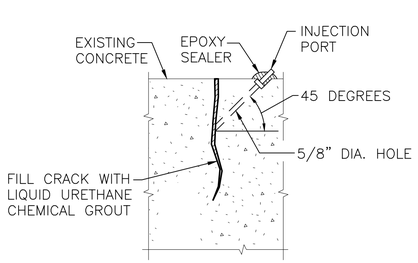
1. REMOVE CONCRETE AND LOOSE MATERIAL IN A "U" SHAPE. A "V" SHAPED SLOT IS NOT ACCEPTABLE.

SECTION

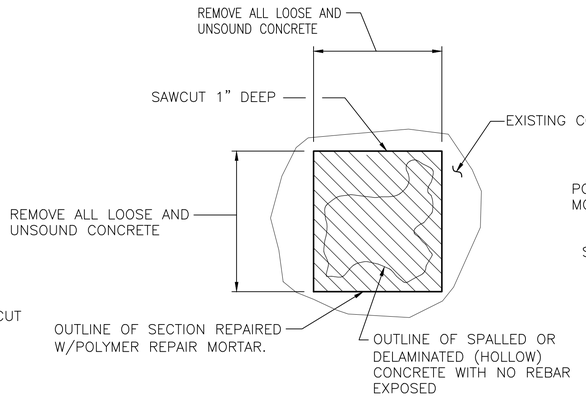
2 S-500 TYPE 2 REPAIR - CEMENTITIOUS

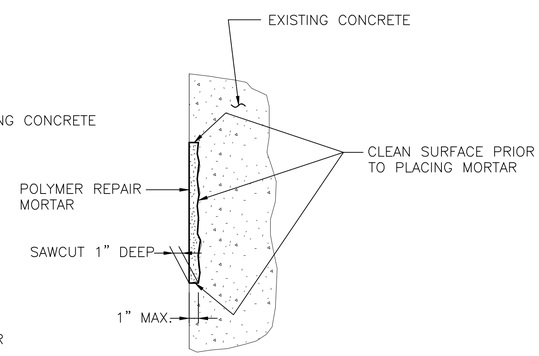
SCALE: NTS

(FOR HORIZONTAL, VERTICAL, AND OVERHEAD REPAIRS)



SECTION 1-1



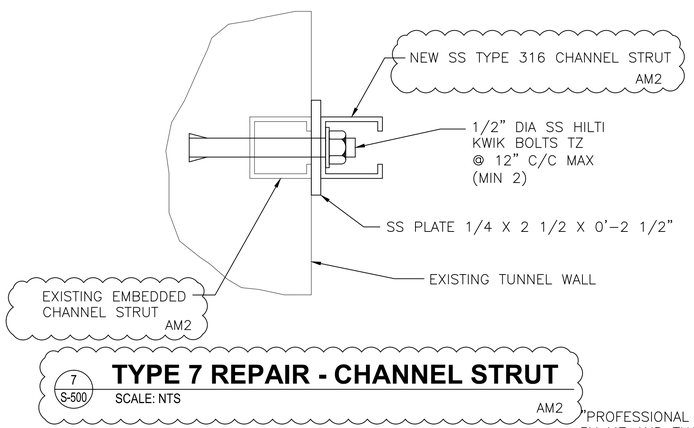


VIEW SECTION

3 S-500 TYPE 3 REPAIR - SHALLOW SPALL

SCALE: NTS

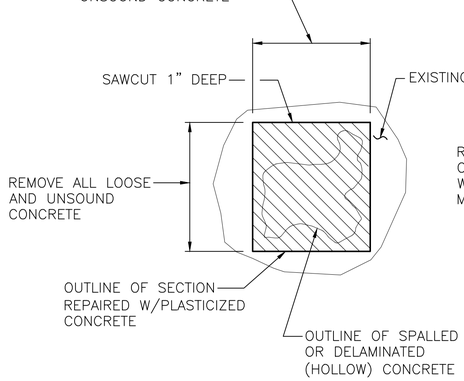
(FOR HORIZONTAL, VERTICAL, AND OVERHEAD REPAIRS)

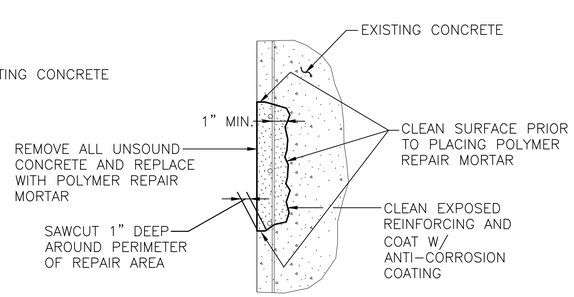


7 S-500 TYPE 7 REPAIR - CHANNEL STRUT

SCALE: NTS

AM2





VIEW SECTION

4 S-500 TYPE 4 REPAIR - DEEP SPALL

SCALE: NTS

(FOR HORIZONTAL, VERTICAL, AND OVERHEAD REPAIRS)

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REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06–15	VC	CHANGED UNISTRUT TO CHANNEL STRUT AM 2

STATE OF MARYLAND · MARTHA JEAN AVERSO · 22331 · REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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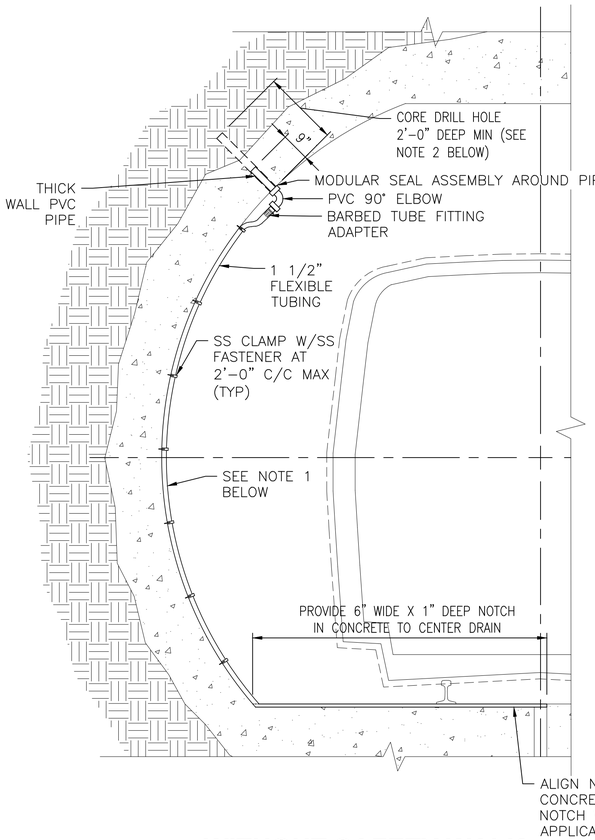
GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

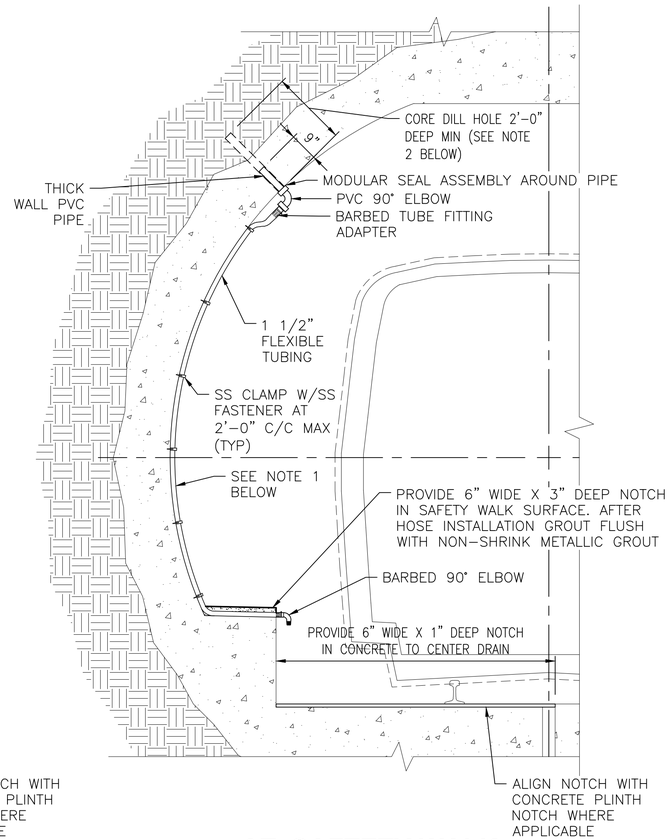
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

REPAIR DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-500	M1272-032



WITHOUT SAFETY WALK



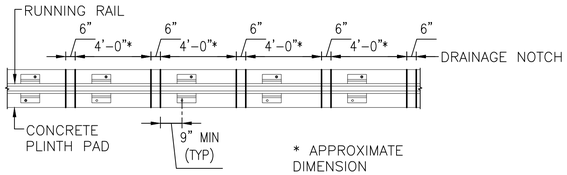
AT SAFTETY WALK

5 S-501 TYPE 5 REPAIR - DRAINAGE HOSE

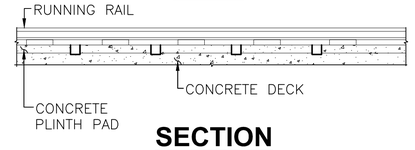
SCALE: 1/2" = 1'-0"

NOTES:

1. AT LOCATIONS THAT HOSE DOES NOT FIT BEHIND EXISTING CONDUITS, INSTALL FLEXIBLE HOSE IN FRONT OF CONDUITS.
2. COORDINATE HOLE DIAMETER WITH MODULAR SEAL ASSEMBLY REQUIREMENTS.



PLAN



SECTION

6 S-501 TYPE 6 REPAIR - PLINTH

SCALE: NTS

NOTES:

1. AREAS WHERE THERE ARE NO SLOTS IN CONTINUOUS PLINTH PAD ARE NOT SHOWN ON DRAWINGS.
2. CONTRACTOR TO SURVEY AND LOCATE ALL AREAS WITHIN THIS CONTRACT'S LIMITS (BOTH TRACKS) TO DETERMINE LOCATIONS OF CONTINUOUS PLINTH PADS WITH NO DRAINAGE SLOTS.
3. ~~CUT SLOTS IN CONTINUOUS PAD TO ALLOW FOR WATER TO DRAIN TO CENTER TRACK DRAIN.~~
4. SEE SPECIFICATION 00434 FOR PRICE PROPOSAL FOR TYPE 6 REPAIR. AM2
5. ~~STANDING WATER BETWEEN RAIL AND CONCRETE WALL CAUSED BY IMPROPER SLOPE, COLLECTED DIRT, AND CONTINUOUS PLINTHS. LIST OF APPROXIMATE STANDING WATER LOCATIONS SHOWN BELOW.~~

TRACK 1

326+40	328+00	328+40	329+00	336+88	337+50	339+00
342+80	343-20	344+80	345+20	345+50	345+90	347+90
348+10	349+20	352+30	354+50	358+50	363+30	363+40
363+80	363+32	363+70	364+40	364+80	365+80	376+00
368+40	368+80	369+45	364+80	367+00	368+40	368+80
369+40	370+31	373+85	375+00	375+60	375+90	376+25
378+75	380+20	380+90	381+75	383+00	385+50	388+00
388+20	396+00	397+00	399+20	399+70	400+00	400+60
401+00	402+10	402+90	403+05	403+50	404+05	406+70
406+80	407+00	407+00	407+30	407+50	407+60	407+70
408+30	408+70	408+85	408+90	409+40	417+90	424+50
426+20	428+00	428+40	430+05	432+00	432+10	432+32
432+85	433+50	434+75	435+40	436+25	438+50	450+60
453+50	455+00	456+65	456+70	461+85	462+00	462+30
465+00	465+30	468+60	470+30	471+00	476+00	478+00
479+80	482+40	484+50	485+50	486+30	486+52	488+00
489+60	491+20	494+50	495+00	497+00	497+60	498+00
498+50	498+90					

TRACK 2

308+90	309+40	310+00	311+00	313+00	317+20	318+00
319+00	322+00	323+00	324+20	324+60	325+00	326+80
337+00	338+00	339+15	339+55	339+90	340+90	341+40
341+80	346+50	350+75	351+30	356+00	359+75	360+00
362+00	405+60	406+10	408+15	409+25	416+10	418+50
422+50	451+10	451+40	453+40	453+60	458+40	460+90
461+10	463+60	463+65	463+77	486+50	488+00	495+80
495+90	498+15					

0 1' 2' 4'

SCALE:1/2"=1'-0"

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REFERENCE DRAWINGS

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REVISIONS

DATE	BY	DESCRIPTION
06-15	VC	REVISED NOTE 4 AM 2

STATE OF MARYLAND * MARTHA JEAN AVERSO * 22331 * REGISTERED PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

REPAIR DETAILS

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	S-501	M1272-033

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M1272-003	G-003		INDEX OF DRAWINGS – II
M1272-003A	G-003A		INDEX OF DRAWINGS – III
M1272-003B	G-003B		INDEX OF DRAWINGS – IV
M1272-003C	G-003C	AM 2	INDEX OF DRAWINGS – V
M1272-003D	G-003D		INDEX OF DRAWINGS – VI
M1272-004	G-004		GENERAL NOTES, VICINITY, & LOCATION MAP

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M1272-007	A10-A-100	PLATFORM & PASSAGEWAY REFLECTED CEILING DEMOLITION PLANS
M1272-008	A10-A-101	PLATFORM & PASSAGEWAY REFLECTED CEILING PLANS
M1272-009	A10-A-500	METAL PAN CEILING DETAILS – I
M1272-010	A10-A-501	METAL PAN CEILING DETAILS – II

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M1272-012	S-100	STATIONING PLANS
M1272-013	S-101	STATIONING PLANS
M1272-014	S-102	STATIONING PLANS
M1272-015	S-103	STATIONING PLANS
M1272-016	S-104	STATIONING PLANS
M1272-017	S-105	STATIONING PLANS
M1272-018	S-106	STATIONING PLANS
M1272-019	S-107	STATIONING PLANS
M1272-020	S-108	STATIONING PLANS
M1272-021	S-109	STATIONING PLANS
M1272-022	S-110	STATIONING PLANS
M1272-023	S-300	SECTIONS
M1272-024	S-301	SECTIONS
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M1272-027	A10-S-304	MEDICAL CENTER – PASSAGEWAY SECTION
M1272-028	A10-S-305	MEDICAL CENTER – PASSAGEWAY SECTION
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M1272-030	A10-S-400	MEDICAL CENTER – PASSAGEWAY ENLARGED PLAN
M1272-031	A10-S-500	METAL PAN CEILING SUPPORT DETAILS
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M1272-033	S-501	REPAIR DETAILS
M1272-034	S-600	TRACK 1 REPAIR TABLE
M1272-035	S-601	TRACK 1 REPAIR TABLE
M1272-036	S-602	TRACK 1 REPAIR TABLE
M1272-037	S-603	TRACK 1 REPAIR TABLE
M1272-038	S-604	TRACK 2 REPAIR TABLE
M1272-039	S-605	TRACK 2 REPAIR TABLE
M1272-040	A10-S-900	MEDICAL CENTER PASSAGEWAY MISCELLANEOUS PICTURES

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M1272-042	M-101	MANHOLE REPLACEMENT SCHEDULES SHEET 1 OF 4
M1272-043	M-102	MANHOLE REPLACEMENT SCHEDULES SHEET 2 OF 4
M1272-044	M-103	MANHOLE REPLACEMENT SCHEDULES SHEET 3 OF 4
M1272-045	M-104	MANHOLE REPLACEMENT SCHEDULES SHEET 4 OF 4
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M1272-048	A10-E-100	PASSAGEWAY AND PLATFORM UNDER MEZZANINE LIGHTING DEMOLITION PLANS
M1272-049	A10-E-101	PASSAGEWAY AND PLATFORM UNDER MEZZANINE LIGHTING NEW WORK PLANS
M1272-050	A10-E-102	PASSAGEWAY AND PLATFORM UNDER MEZZANINE
M1272-051	A10-E-103	ELECTRICAL SECTION PASSAGEWAY AND PLATFORM UNDER MEZZANINE
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M1272-053	T-E-002	SYMBOL LEGEND, ABBREVIATIONS, AND KEY PLAN
M1272-054	T-E-100	ELECTRICAL PLAN SHEET 1 OF 14 STA 308+00 TO 321+00
M1272-055	T-E-101	ELECTRICAL PLAN SHEET 2 OF 14 STA 321+00 TO 345+00
M1272-056	T-E-102	ELECTRICAL PLAN SHEET 3 OF 14 STA 345+00 TO 367+00
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M1272-058	T-E-104	ELECTRICAL PLAN SHEET 5 OF 14 STA 396+00 TO 407+00
M1272-059	T-E-105	ELECTRICAL PLAN SHEET 6 OF 14 STA 407+00 TO 427+00
M1272-060	T-E-106	ELECTRICAL PLAN SHEET 7 OF 14 STA 427+00 TO 453+00
M1272-061	T-E-107	ELECTRICAL PLAN SHEET 8 OF 14 STA 453+00 TO 473+00
M1272-062	T-E-108	ELECTRICAL PLAN SHEET 9 OF 14 STA 473+00 TO 493+00
M1272-063	T-E-109	ELECTRICAL PLAN SHEET 10 OF 14 STA 493+00 TO 513+00
M1272-064	T-E-110	ELECTRICAL PLAN SHEET 11 OF 14 STA 513+00 TO 525+00
M1272-065	T-E-111	ELECTRICAL PLAN SHEET 12 OF 14 STA 525+00 TO 547+00
M1272-066	T-E-112	ELECTRICAL PLAN SHEET 13 OF 14 STA 547+00 TO 568+50
M1272-067	T-E-113	CROSSOVER ENLARGED PLAN SHEET 14 OF 14/FRIENDSHIP HEIGHTS STATION
M1272-068	T-E-500	MISCELLANEOUS DETAILS
M1272-069	T-E-501	ETS CABINET MOUNTING DETAILS
M1272-070	T-E-502	ETS ENCLOSURE AND PANEL LAYOUTS
M1272-071	T-E-503	ETS RELAY CABINET ENCLOSURE LAYOUTS
M1272-072	T-E-504	ETS WIRING DIAGRAMS AND BILL OF MATERIAL
M1272-073	T-E-505	ETS ENCLOSURE AND PANEL LAYOUTS
M1272-074	T-E-600	CONTACT RAIL SCHEMATICS AND ETS CONTROLS STA 298+00 TO 470+00
M1272-075	T-E-601	CONTACT RAIL SCHEMATICS AND ETS CONTROLS STA 470+00 TO 578+00
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M1272-077	T-E-700	REPRESENTATIVE PICTURES

PART 1: REFERENCE DRAWINGS AM 1

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	DD-M-040	MISCELLANEOUS DRAINAGE DETAILS
	DD-M-098	TYPICAL DRAINAGE CROSS-SECTIONS & DETAILS FOR STD. BOX & CIRCULAR TUNNEL
	DD-M-149	DRAINAGE DETAILS AND CASTINGS SHEET 1
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M139-191	A10A-M-41	TRACK DRAINAGE TYPICAL SECTIONS

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M427-21	SSI6-E-21	FRIENDSHIP HTS. TIE BREAKER STATION CONDUIT & CABLE TRAY & GROUNDING
M229-429	A9B-E-7	OLIVER ST. TRACTION POWER SUBSTATION & FAN SHAFT PLANS AND SECTIONS
M229-430	A9B-E-8	OLIVER STREET FAN SHAFT SECTIONS AND DETAILS
M231-181	FA10-E-7	TUNNEL LIGHTING PLAN STA. 321+00 TO STA. 333+00
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M335-269	FA12-E-9	ELECTRICAL KEY PLAN STA. 493+00 TO STA. 483+00 – LIGHTING
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M277-287	A11C-E-35	MEDICAL CENTER STATION TRACTION POWER SUBSTATION & CHILLED WATER PLANT
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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45732, EXPIRATION DATE 07-22-2016

FINAL

CONTRACT NO. FQ15093

DESIGNED	CF	02-15 DATE
DRAWN	CF	02-15 DATE
CHECKED	JT	02-15 DATE
APPROVED	JP	02-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION	
05-15	JP	REFERENCE DRAWINGS ADDED	AM 1
06-15	JP	SHEETS G003C & G003D ADDED	AM 2
06-15	JP	PART 2 REFERENCE DRAWINGS ADDED	AM 2

STATE OF MARYLAND · JAMES T. PERRY · 45732 · PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR

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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45732, EXPIRATION DATE 07-22-2016

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REFERENCE DRAWINGS

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05-15	JP	REFERENCE DRAWINGS ADDED	AM 1
06-15	JP	PART 6 TELECOMMUNICATION DRAWINGS ADDED	AM 2

STATE OF MARYLAND · PROFESSIONAL ENGINEER · 45732

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED

PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR

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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45732, EXPIRATION DATE 07-22-2016

FINAL

CONTRACT NO. FQ15093

DESIGNED	CF	06-15 DATE
DRAWN	CF	06-15 DATE
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APPROVED	AA	06-15 DATE

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STATE OF MARYLAND · ANNE ARUNDEL · 45732 · PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR

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M220-327	A13-S-110	AERIAL STRUCTURE DIAPHRAGM DETAILS
M220-328	A13-S-111	AERIAL STRUCTURE DIAPHRAGM DETAILS
M220-329	A13-S-109	AERIAL STRUCTURE DIAPHRAGM DETAILS
M220-330	A13-S-112	AERIAL STRUCTURE BEARING ASSEMBLIES
M220-331	A13-S-113	AERIAL STRUCTURE BEARING ASSEMBLIES
M220-332	A13-S-152	AERIAL STRUCTURE BEARING ASSEMBLIES
M220-333	A13-S-153	AERIAL STRUCTURE BEARING ASSEMBLIES
M220-334	A13-S-73	AERIAL STRUCTURE SAFETY WALK AND CABLE TROUGH DETAILS
M220-335	A13-S-74	AERIAL STRUCTURE SAFETY WALK AND CABLE TROUGH DETAILS
M220-336	A13-S-75	AERIAL STRUCTURE SAFETY WALK AND CABLE TROUGH DETAILS
M220-337	A13-S-161	AERIAL STRUCTURE SAFETY WALK AND CABLE TROUGH DETAILS
M220-338	A13-S-168	AERIAL STRUCTURE TYPICAL RAILING DETAILS AND EMERGENCY TRIP & TELEPHONE STATION
M220-339	A13-S-169	AERIAL STRUCTURE ACOUSTICAL BARRIER-ELEVATIONS, SECTIONS AND DETAILS
M220-340	A13-S-67	AERIAL STRUCTURE DECK SLAB JOINT SEAL DETAILS
M220-341	A13-S-96	AERIAL STRUCTURE DECK SLAB JOINT SEAL DETAILS
M220-342	A13-S-101	AERIAL STRUCTURE DECK SLAB JOINT SEAL DETAILS
M220-343	A13-S-69	AERIAL STRUCTURE SLAB DETAILS AT PIERS
M220-344	A13-S-155	AERIAL STRUCTURE SLAB DETAILS AT PIERS
M220-345	A13-S-156	AERIAL STRUCTURE SLAB DETAILS AT PIERS
M220-346	A13-S-162	AERIAL STRUCTURE LIMITS OF PAYMENT TYPICAL EXCAVATION AND BACKFILL DIAGRAMS
M220-347	A13-S-170	AERIAL STRUCTURE TYPICAL BONDING DETAILS
M220-348	A13-S-171	AERIAL STRUCTURE TYPICAL BONDING DETAILS

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45732, EXPIRATION DATE 07-22-2016

FINAL

CONTRACT NO. FQ15093

DESIGNED	CF	06-15 DATE
DRAWN	CF	06-15 DATE
CHECKED	JP	06-15 DATE
APPROVED	AA	06-15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06-15	JP	ADDED SHEET G003D AM2

STATE OF MARYLAND · ANNE ARUNDEL · 45732 · PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____
PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR

INDEX OF DRAWINGS – VI

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	G-003D	M1272-003D

GENERAL STRUCTURAL NOTES

1. SPECIFICATIONS:
   A. WMATA "GENERAL PROVISIONS AND STANDARD SPECIFICATIONS FOR CONTRACT DRAWINGS."
   B. WMATA "DIRECTIVE DRAWINGS."
2. DESIGN CRITERIA:
   A. WMATA "MANUAL OF DESIGN CRITERIA FOR MAINTAINING AND CONTINUED OPERATION OF FACILITIES AND SYSTEMS, MAY 2014." AM2
   B. ACI 318-99 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ALTERNATE DESIGN METHOD.
   C. AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
   D. AMERICAN WELDING SOCIETY STANDARD D1.1.
   E. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   F. INTERNATIONAL BUILDING CODE, 2012.
3. DESIGN LOADING
   A. DEAD LOADS
   - CONCRETE — 150 PCF
   - STEEL — 490 PCF
   - SOILS — 130 PCF (BUOYANT WEIGHT = 68 PCF)
   - ROCK — 170 PCF

   B. LIVE LOADS
   - STATION PLATFORMS — 150 PSF
   - STAIRWAYS — 150 PSF OR CONCENTRATED LOAD OF 300 LBS. ON STAIR TREAD
   - MEZZANINE — 150 PSF
   - PASSAGEWAYS — 150 PSF
   - EQUIPMENT AND SERVICE ROOMS — 250 PSF (UNO)
   - HORIZONTAL LOAD AT TOP OF CONCRETE PARAPET — 150 PLF
   - VERTICAL LOAD AT TOP OF CONCRETE PARAPET — 100 PLF
   - SAFETY WALKS — 85 PSF
   - RAILINGS — 200 LBS. IN ANY DIRECTION OR 50 PLF
   - AIR PRESSURE FROM RUNNING TRAINS ON SERVICE AREA WALLS, DOORS & HARDWARE — 70 PSF
   - GRATINGS AND HATCHES — 250 PSF
4. DESIGN LOADINGS FOR ELEVATORS
   A. SURFACE ELEVATORS
   - SNOW LOAD — 30 PSF
   - BASIC WIND LOAD — 40 PSF
   - CANOPY FRAME LIVE LOAD — 100 PLF FOR FREE EDGES
   - ELEVATOR PIT SLAB — AS PER MEP AND ELEVATOR MANUFACTURER DWGS. PLUS IMPACT

   B. MEZZANINE TO PLATFORM ELEVATORS
   - ENCLOSURE, GLAZED AREA — 30 PSF
   - ENCLOSURE, UNGLAZED AREA — 15 PSF
5. WIND LOADS
   - COMPONENTS AND CLADDING — IN ACCORDANCE WITH ASCE 7-10
   - BASIC WIND VELOCITY — 90 MPH
   - EXPOSURE — C
   - IMPORTANCE FACTOR — 1.15
   - CATEGORY — III
6. CONCRETE
   A. ALL CONSTRUCTION JOINTS IN EXTERIOR WALLS SHALL BE BONDED JOINTS.
   B. ALL VERTICAL CONSTRUCTION JOINTS IN EXTERIOR WALLS AND SLABS SHALL BE KEYED.
   C. ALL HORIZONTAL CONSTRUCTION JOINTS IN INTERIOR MEMBERS SHALL BE KEYED.
   D. ALL VERTICAL CONSTRUCTION JOINTS IN INTERIOR MEMBERS SHALL BE KEYED.
   E. ADDITIONAL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS MAY BE ADDED ONLY WITH WRITTEN AUTHORIZATION OF THE ENGINEER. ENGINEER APPROVED ADDITIONAL CONSTRUCTION JOINTS SHALL NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER.
   F. ALL CONTRACTION JOINTS SHALL HAVE A BOND BREAKER APPLIED.
   G. PROVIDE 9" PVC DUMBBELL WATERSTOPS IN ALL EXTERIOR CONSTRUCTION AND CONTRACTION JOINTS. FOR JOINT DETAILS, SEE DWG. NO. ST-S-001.
   H. CHAMFER ALL EXPOSED EDGES 3/4" X 3/4". CHAMFER REQUIRED UNLESS NOTED OTHERWISE IN DRAWINGS.
   I. ALLOW 48 HOURS MINIMUM CURING TIME BETWEEN PLACEMENT OF ADJACENT CONCRETE POURS.
   J. ALL CONDUITS IN THE FINAL LINER AND SLABS SHALL BE ROUTED ON THE DRY SIDE OF THE WATER STOPS.
   K. REINFORCED CONCRETE STRUCTURES SHALL BE DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE CURRENT "ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
   L. SEE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL EMBEDDED ITEMS SUCH AS SCREWS, ANCHORS, ELECTRICAL CONDUITS, OPENINGS, ETC. WHICH MAY INTERFERE WITH CONCRETE CONSTRUCTION.
   M. CONCRETE STRENGTH SHALL BE AS FOLLOWS:
   - WALLS, SLABS, SLABS ON GRADE, BEAMS AND COLUMNS f'c = 4,000 PSI
   - PRECAST CONCRETE f'c = 5,000 PSI
   - ALL OTHER CAST-IN-PLACE CONCRETE f'c = 3,500 PSI
7. REINFORCING STEEL
   A. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
   B. CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   - UNFORMED CONCRETE BOTTOM BARS IN FOOTINGS AND SLABS ON EARTH, GRAVEL OR CRUSHED STONE..........3"
   - EXTERIOR UNFORMED SURFACE OF WALLS..........3"
   - BEAMS, COLUMNS, SLABS AND WALLS EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS.........2"
   - BEAMS, COLUMNS AND WALLS NOT EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS..........1 1/2"
   - SLABS NOT EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS..........3/4"

   C. ALL SPLICES SHALL BE CLASS B TENSION LAPS UNLESS OTHERWISE NOTED ON THE PLANS.
   D. ALL REINFORCEMENT SHALL BE MADE ELECTRICALLY CONTINUOUS. THIS INCLUDES INTERFACE WITH ADJACENT CONTRACTS; CHIP OUT EXISTING CONCRETE TO MAKE CONNECTION WHERE NECESSARY. UNLESS OTHERWISE SHOWN OR NOTED, ELECTRICALLY BONDED CIRCUMFERENTIAL CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT A MAXIMUM INTERVAL OF 50'-0" MEASURED HORIZONTALLY. FOR DETAILS OF ELECTRICAL BONDING, SEE DWG. NO. ST-S-007 AND ST-S-021.
   E. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-99 "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES." THE CONTRACTOR SHALL SUBMIT DRAWINGS OF REINFORCING STEEL BEFORE PROCEEDING WITH FABRICATION.
   F. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A185-06. THE FABRIC SHALL BE FURNISHED IN FLAT SHEETS.
   G. UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS, SPLICE AND EMBEDMENT LENGTHS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH TABLE SHOWN BELOW:

REINFORCING SPLICE AND DEVELOPMENT LENGTHS (INCHES)

	#3	#4	#5	#6	#7	#8	#9	#10	#11
Ld	12	14	17	26	41	53	68	86	106
TOP BAR Ld	14	18	22	36	46	60	77	97	120
Ls	14	18	22	33	53	69	88	112	138
TOP BAR Ls	17	23	29	47	60	78	100	127	156

Ld=DEVELOPMENT LENGTH

Ls=SPLICE LENGTH

NOTE: TOP BARS ARE DEFINED AS HAVING MORE THAN 12" OF FRESH CONCRETE CAST BELOW BAR.

8. STRUCTURAL STEEL
   A. MATERIALS SHALL CONFORM TO THE FOLLOWING:
   - W-SHAPES — ASTM A572 GRADE 50
   - SHAPES AND PLATES — ASTM A36
     - TUBES — ASTM A500 GRADE B
     - STRUCTURAL BOLTS — ASTM A325
     - ANCHOR BOLTS — ASTM F1554 GRADE 55
     - ROCK BOLTS — ASTM F432

   B. THE CONTRACTOR SHALL SUBMIT ERECTION PLANS AND SHOP DETAILS BEFORE PROCEEDING WITH FABRICATION.
   C. MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH AISC SPECIFICATIONS. BASE PLATES SHALL BE WELDED TO BOTTOM OF COLUMNS.
   D. 1/4" THICK LEVELING PLATES SHALL BE USED UNDER ALL BEAMS AND COLUMNS RESTING ON CONCRETE.
   E. ALL SHOP CONNECTIONS SHALL BE WELDED WITH ELECTRODES AS SPECIFIED. ALL FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED JOINTS, TYPE ST, EXCEPT WHERE NOTED. BOLTS SHALL BE A325 AND CERTIFIED AS NOT TO BE COUNTERFEIT.
   F. ELECTRODES FOR WELDING CONNECTIONS SHALL BE AS FOLLOWS:
   SHIELDED METAL ARC — E70XX
   SUBMERGED ARC — F7X-EXXX
   G. CONNECTION DETAILS SHALL BE DESIGNED AND SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR AND ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SIGNED AND SEALED BY AN ENGINEER, LICENSED IN THE STATE OF MARYLAND.
9. GENERAL REQUIREMENTS
   A. ELEVATIONS ARE TO BE ACTUAL FINISH ELEVATION.
   B. SHORING REQUIRED FOR THE STABILITY OF THE UNCOMPLETED STRUCTURE OR FOR INSTALLATION OR MODIFICATION OF STRUCTURAL MEMBERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ANY REQUIRED TEMPORARY STRUCTURES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON DWG. NO. ST-S-009.
   C. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAIL DRAWINGS. THE ± MARKS SHOWN WITH DIMENSIONS AND STATIONS DO NOT INDICATE ANY DEGREE OF PRECISION. THESE ± MARKS INDICATE DIMENSIONS AND STATIONS FROM EXISTING PLANS THAT MAY VARY AND DO REQUIRE FIELD VERIFICATION BY THE CONTRACTOR.
   D. CONTRACTOR SHALL COORDINATE ALL REQUIRED OPENINGS WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE FINAL SIZE AND LOCATION OF ALL OPENINGS WITH THE ACTUAL EQUIPMENT SUPPLIED, PROJECT REQUIREMENTS, AND WITH FIELD CONDITIONS.
   E. THE ENGINEER PERMITS NO ALTERATIONS OR OPENINGS THROUGH BEAMS OR COLUMNS, UNLESS DETAILED ON STRUCTURAL PLANS.
   F. THE SIZES AND LOCATIONS OF EQUIPMENT PADS, PEDESTALS AND FLOOR AND SLAB OPENINGS ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND VERIFY ALL SUCH ITEMS. NO DIMENSIONS INDICATED ON THESE DRAWINGS SHALL BE ALTERED WITHOUT THE ENGINEERS APPROVAL.
   G. THE STRUCTURES SHALL BE DESIGNED TO RESISTS DESIGN LOADS ONLY AS COMPLETED STRUCTURES, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS WHICH EXCEED THE DESIGN LOADS, OR ANY LOADS APPLIED TO A PARTIALLY COMPLETED STRUCTURE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL THE COST OF ANALYSIS, REDESIGN AND ANY ADDITIONAL CONSTRUCTION COSTS RESULTING FROM THE REDESIGN SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S EXPENSE.
   H. WHERE A SPECIFIC MODEL AND/OR MANUFACTURER OF AN ITEM ARE NAMED ON A DRAWING AND/OR IN THE SPECIFICATIONS, THE MODEL AND/OR MANUFACTURER ARE THE BASIS OF DESIGN. ITEMS BY OTHER MANUFACTURERS OF EQUAL DESIGN MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AS APPROVED EQUAL.
   I. ALL PLAN DIMENSIONS ON THE DRAWINGS ARE MEASURED IN A TRUE HORIZONTAL PLANE UNLESS NOTED OTHERWISE.
   J. ALL VERTICAL DIMENSIONS SHALL BE MEASURED IN A TRUE VERTICAL PLANE FOR ALL STRUCTURES UNLESS NOTED OTHERWISE..
   K. COLUMNS, WALLS, DOORS, CONSTRUCTION JOINTS AND ELEVATORS WITHIN THE STATION AND THE SERVICE AREAS SHALL BE PLACED TRULY VERTICAL, UNLESS NOTED OTHERWISE.
   L. SUBMITTALS
   - REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
   - ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE STATE OF MARYLAND. ALL SUBMISSIONS SHALL BEAR HIS SEAL AND SIGNATURE.
   - ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTORS ENGINEER REGISTERED IN THE STATE OF MARYLAND. ALL SUBMITTALS SHALL BEAR HIS/HER SEAL AND SIGNATURE AND MUST ACCOUNT FOR THE CONSTRUCTION SEQUENCE, DRAINAGE AND WALL THICKNESS. SUPPORT OF EXCAVATION SYSTEM FOR SHAFT AND ARCH SHALL PROVIDE SUFFICIENT CLEARANCE FOR CONSTRUCTION EXCAVATION, DELIVERY OF EQUIPMENT AND MATERIALS, WORKER ACCESS AND CONSTRUCTION OF FINAL STRUCTURE.
   - STEEL GRATING SHALL HAVE DEPTH AS SHOWN ON DRAWINGS. MANUFACTURER SHALL DESIGN GRATING FOR THE LOADS SPECIFIED IN SECTION "3 DESIGN LOADING". ALL GRATING SHALL BE GALVANIZED PER ASTM A123.
   - CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES ON ONE PLAN FOR EACH LEVEL. CONFLICTS BETWEEN TRADES WILL BE RESOLVED BY GENERAL CONTRACTOR BEFORE SUBMISSION TO THE ENGINEER.
   - REVIEW OF SHOP DRAWINGS DESIGNED BY CONTRACTORS ENGINEER'S SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.

   M. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC., FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY LIQUIDS, SLURRY, SOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.
   N. THESE CONCEPT STRUCTURAL DRAWINGS REPRESENT THE GENERAL REQUIREMENTS FOR THE PROJECT WHICH SHALL BE DESIGNED, FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING ETC.
   O. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
   P. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
   Q. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
   R. BACKFILL PLACED AROUND SHAFT STRUCTURE SHALL BE SELECT MATERIAL.
10. EXCAVATION AND EARTHWORK
   A. REFERENCE GEOTECHNICAL DATA REPORT FOR SOUTH ENTRANCE TO BETHESDA METRO STATION BY E2CR, INC. DATED FEBRUARY 2010 FOR INFORMATION.
   B. LOCATE ANY EXISTNG UTILITY LINES OR APPURTENANCES AND ADVISE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES SHOWN IN PLANS PRIOR TO CONSTRUCTION. DO NOT DEMOLISH ANY EXISTING STRUCTURES WITHOUT WRITTEN AUTHORIZATION.
   C. ALL EXCAVATIONS SHALL BE KEPT DRY. STANDING WATER SHALL NOT BE ALLOWED IN EXCAVATIONS.
11. EXISTING GEOTECHNICAL INFORMATION
   A. FOR EXISTING BORING INFORMATION AT BETHESDA STATION, REFER TO RECORD DRAWINGS OF ROCKVILLE ROUTE DATED MAY 1977. FOR ROCK CAPACITY, REFER TO FINAL SUBSURFACE INVESTIGATION PREPARED BY MUESER RUTLEDGE WENTWORTH & JOHNSON DATED MARCH 1972.

AS DIRECTED BY WMATA, ALL STRUCTURAL DRAWINGS IN THIS PACKAGE HAVE BEEN ANNOTATED BY GANNETT FLEMING PARSONS JOINT VENTURE WITH MODIFICATION. ALL MODIFICATIONS ARE HIGHLIGHTED WITH CLOUDS.

NOTE: DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON INITIAL COORDINATION WITH WMATA. FINAL DIMENSIONS SHALL BE COORDINATED WITH WMATA AND EQUIPMENT SUPPLIED. FOR MINIMUM DIMENSIONS, SEE TECHNICAL PROVISIONS.

CONTRACT NO. XXXXXX

DESIGNED ______ DATE

DRAWN E.M. THOMPSON DATE

CHECKED D.S. TUSING DATE

APPROVED ______ DATE

REVISIONS

DATE	BY	DESCRIPTION
06/19/15	IA	CHANGED NOTES - AM2

MONTGOMERY COUNTY MARYLAND 17 76 GARDEZ BIEN

MTA Maryland

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
OFFICE OF ENGINEERING SERVICE

SUBMITTED BY ______

RK&K Rummel, Klepper & Kahl, LLP 81 MOSHER STREET | BALTIMORE, MD 21217 PH: (410) 728-2900 FAX: (410) 728-3160

WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP 801 South Caroline Street, Baltimore, Maryland 21231

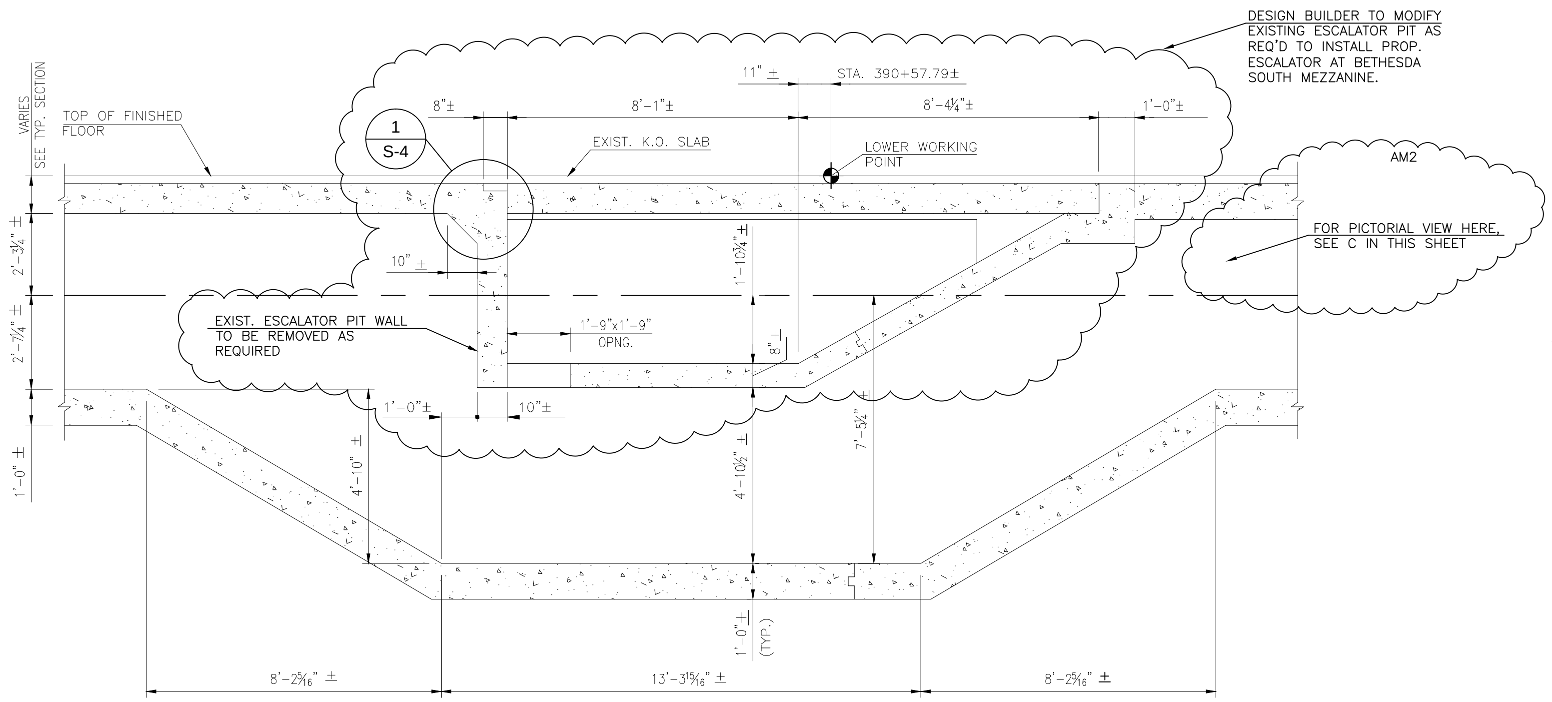
APPROVED ______

BETHESDA STATION - SOUTH ENTRANCE

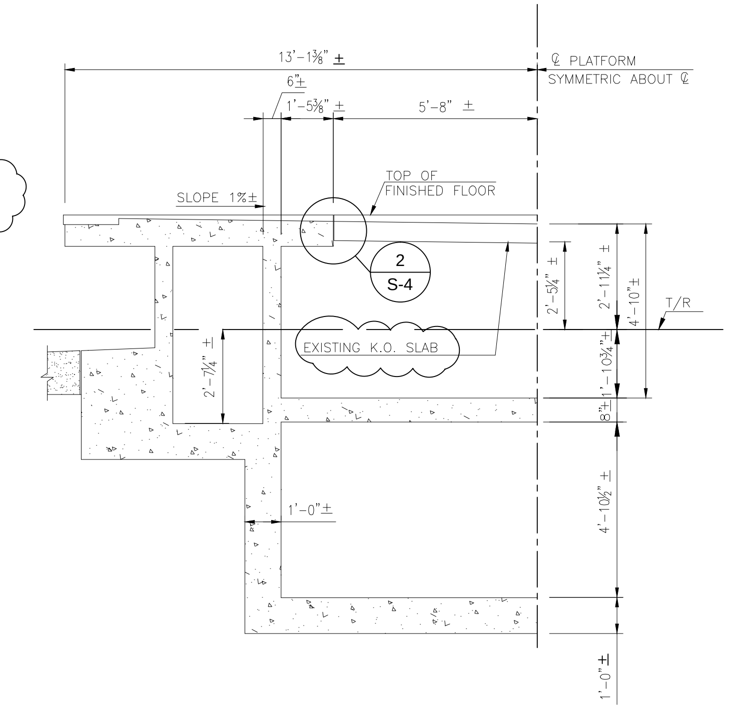
STRUCTURAL GENERAL NOTES

SCALE AS NOTED

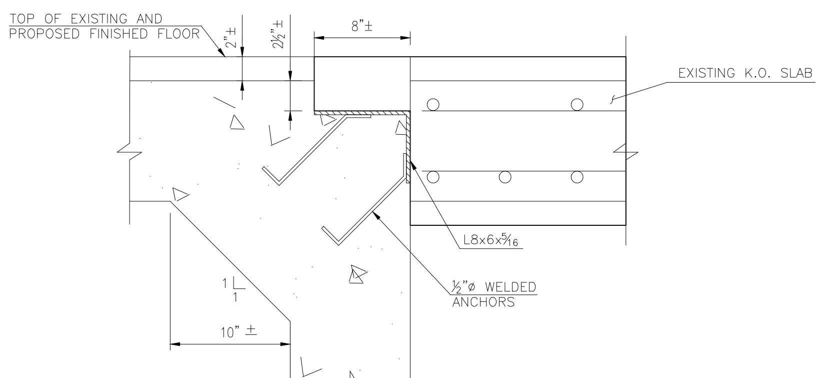
DRAWING NO. S-1



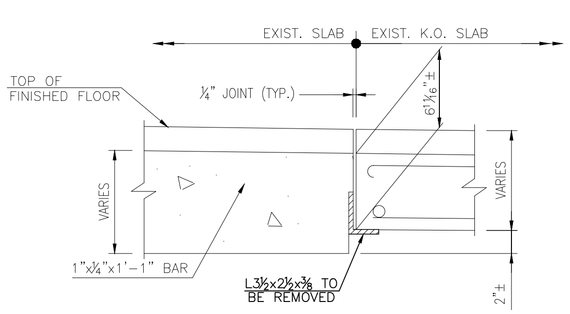
A SECTION THRU EXISTING PIT
S-3
SCALE: 3/8"=1'-0"



B SECTION THRU EXISTING PIT
S-3
SCALE: 3/8"=1'-0"



1 KNOCK OUT SLAB DETAIL
S-4
SCALE: NTS



2 KNOCK OUT SLAB DETAIL
S-4
SCALE: NTS

C A VIEW OF ESCALATOR PIT
S-4
NTS

AS DIRECTED BY WMATA, ALL STRUCTURAL DRAWINGS IN THIS PACKAGE HAVE BEEN ANNOTATED BY GANNETT FLEMING PARSONS JOINT VENTURE WITH MODIFICATION. ALL MODIFICATIONS ARE HIGHLIGHTED WITH CLOUDS.

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CONTRACT NO. XXXXXX

DESIGNED ______ DATE
DRAWN E.M. THOMPSON DATE
CHECKED D.S. TUSING DATE
APPROVED ______ DATE

REVISIONS

DATE	BY	DESCRIPTION
06/26/15	IA	PICTURE ADDED - AM2

MONTGOMERY COUNTY MARYLAND 1776

MTA Maryland

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
OFFICE OF ENGINEERING SERVICE

SUBMITTED BY ______

RK&K Rummel, Klepper & Kahl, LLP 81 MOSHER STREET BALTIMORE, MD 21217 PH: (410) 728-2900 FAX: (410) 728-3160

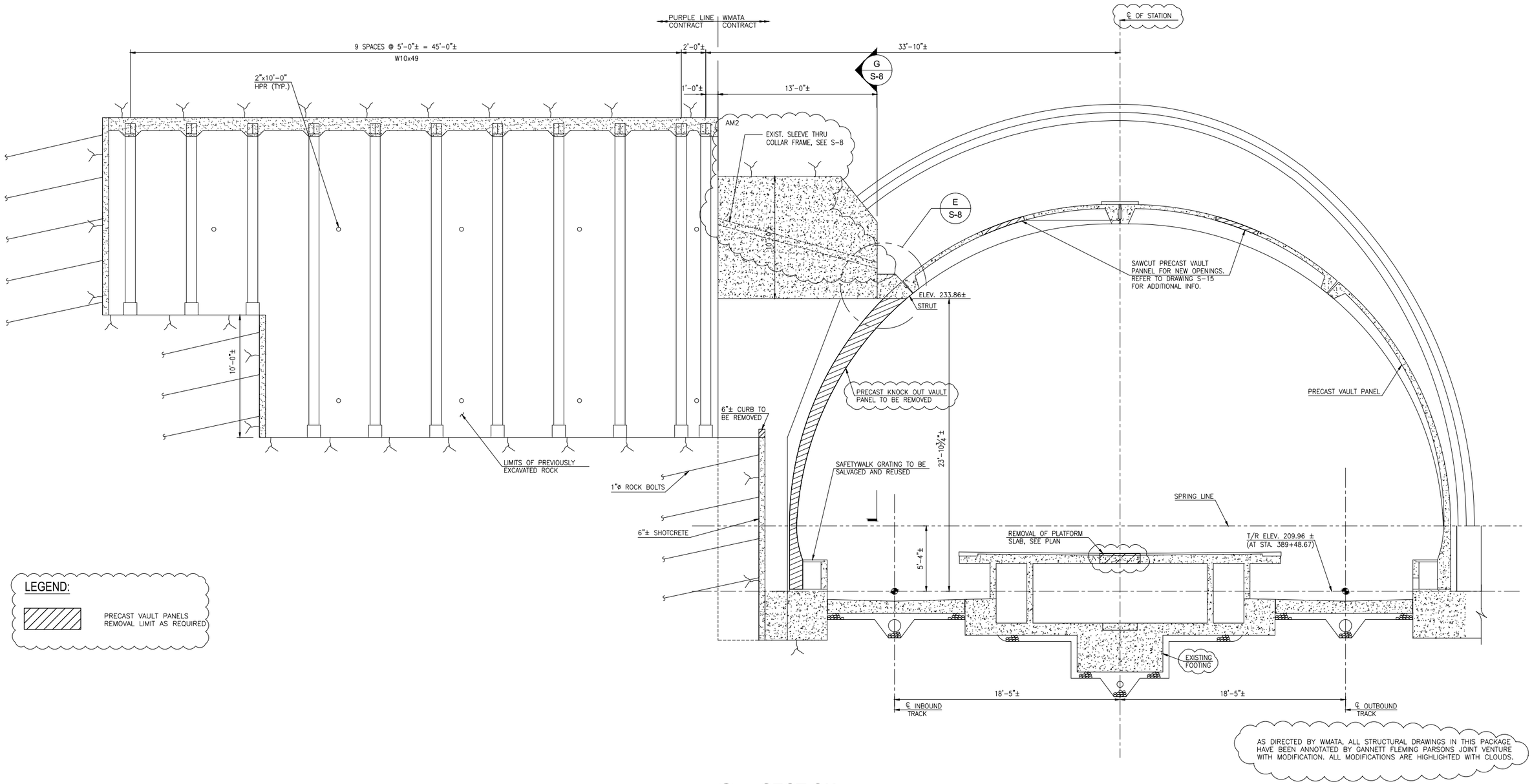
WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP

APPROVED ______

BETHESDA STATION - SOUTH ENTRANCE
BETHESDA STATION PLATFORM DEMOLITION
PLAN AND SECTIONS
STA. 391+07 TO STA. 389+07

SCALE AS NOTED

DRAWING NO. S-4



C S-3,7 **SECTION**
SCALE: ¼"=1'-0"

NOTE: DIMENSIONS SHOWN ARE APPROXIMATE AND BASED ON INITIAL COORDINATION WITH WMATA. FINAL DIMENSIONS SHALL BE COORDINATED WITH WMATA AND EQUIPMENT SUPPLIED. FOR MINIMUM DIMENSIONS, SEE TECHNICAL PROVISIONS.

CONTRACT NO. XXXXXX

DESIGNED ____ DATE
DRAWN E.M. THOMPSON DATE
CHECKED D.S. TUSING DATE
APPROVED ____ DATE

REVISIONS		
DATE	BY	DESCRIPTION
06/19/15	IA	EXIST. SLEEVE SHOWN – AM2

MONTGOMERY COUNTY MARYLAND 1776

MTA Maryland

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
OFFICE OF ENGINEERING SERVICE

SUBMITTED BY ____

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WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP
200 South Charles Street, Baltimore, Maryland 21201

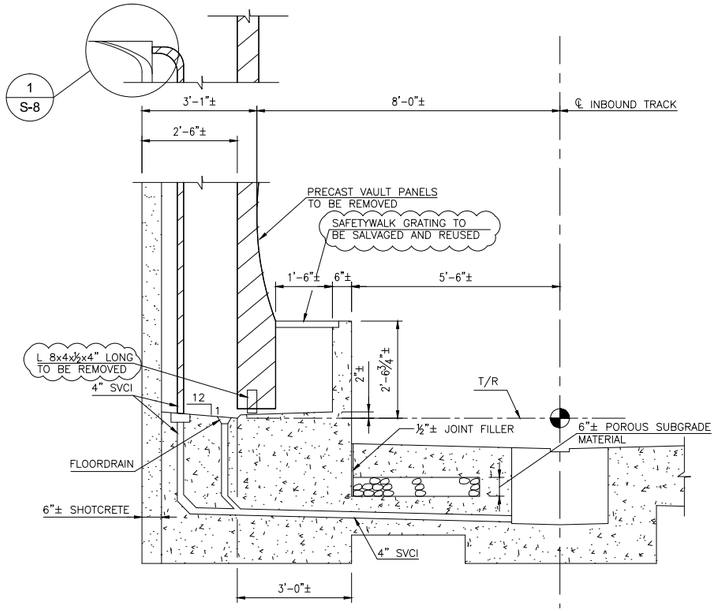
APPROVED ____

BETHESDA STATION - SOUTH ENTRANCE

PRECAST VAULT DEMOLITION
DETAILS AT SOUTH PASSAGEWAY

SCALE AS NOTED

DRAWING NO. S–6



H S-3 **SECTION**
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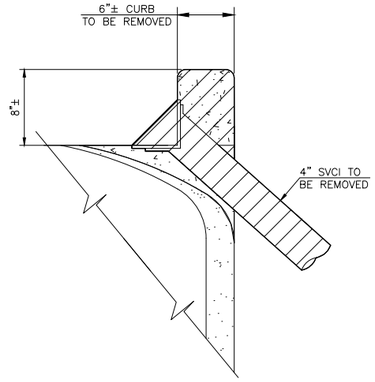
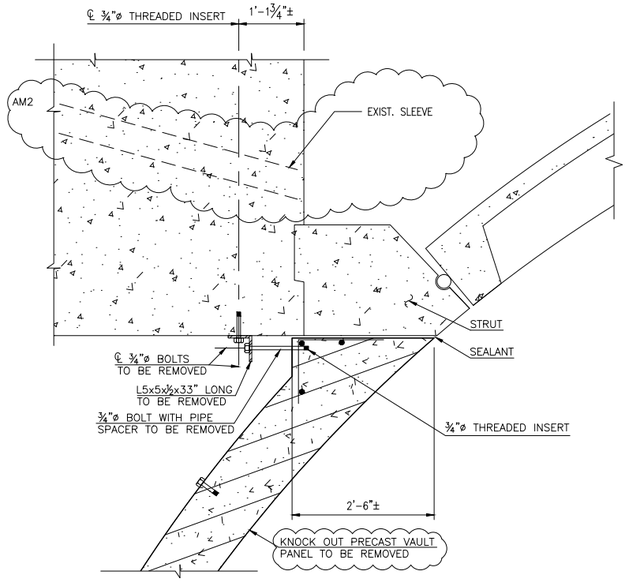
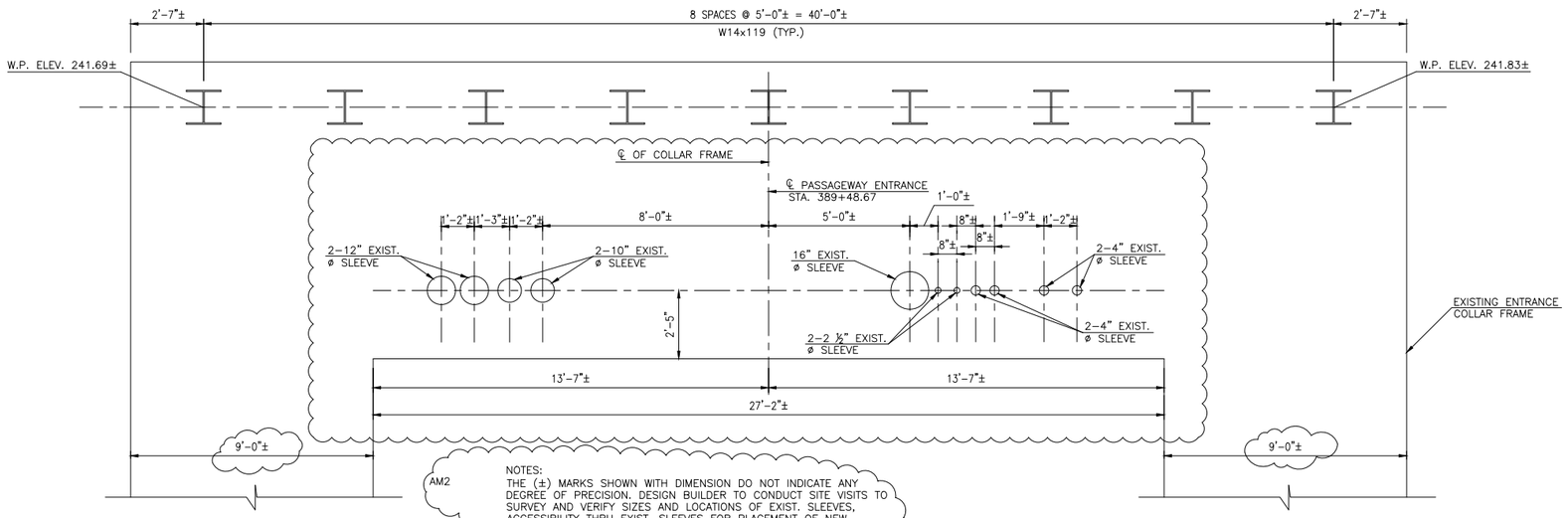


1 S-8 **DETAIL**
SCALE: 1½"=1'-0"



E S-7 **SECTION**
SCALE: ¾"=1'-0"



G S-6 **ELEVATION VIEW OF COLLAR FRAME**
SCALE: ⅜"=1'-0"

LEGEND:

PRECAST VAULT PANELS
REMOVAL LIMIT AS REQUIRED

AS DIRECTED BY WMATA, ALL STRUCTURAL DRAWINGS IN THIS PACKAGE HAVE BEEN ANNOTATED BY GANNETT FLEMING PARSONS JOINT VENTURE WITH MODIFICATION. ALL MODIFICATIONS ARE HIGHLIGHTED WITH CLOUDS.

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CONTRACT NO. XXXXXX

DESIGNED _____ DATE
DRAWN E.M. THOMPSON DATE
CHECKED D.S. TUSING DATE
APPROVED _____ DATE

REVISIONS

DATE	BY	DESCRIPTION
06/19/15	IA	CHANGED NOTES – AM2

MONTGOMERY COUNTY MARYLAND 1776

MTA Maryland

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
OFFICE OF ENGINEERING SERVICE

SUBMITTED BY _____

RK&K Rummel, Klepper & Kahl, LLP
81 MOSHER STREET | BALTIMORE, MD 21217
PH: (410) 728-2900 FAX: (410) 728-3160

WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP

APPROVED _____

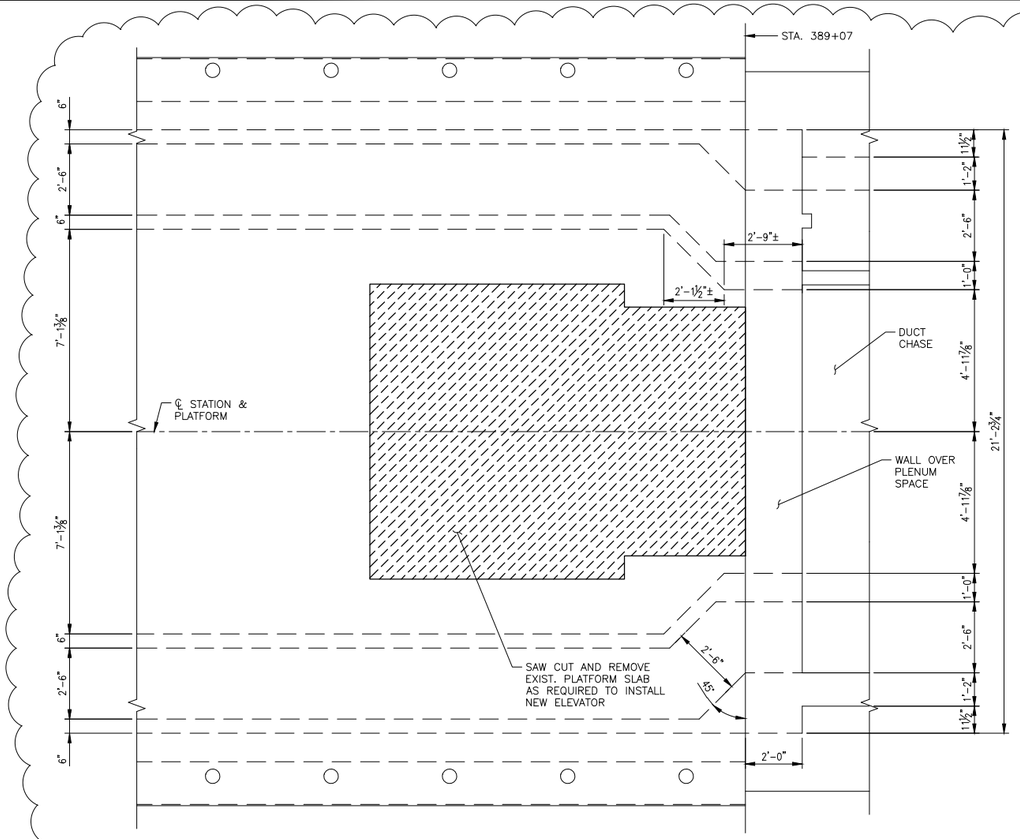
BETHESDA STATION - SOUTH ENTRANCE

PRECAST VAULT DEMOLITION DETAILS AT
SOUTH PASSAGEWAY

SCALE AS NOTED

DRAWING NO. S-8

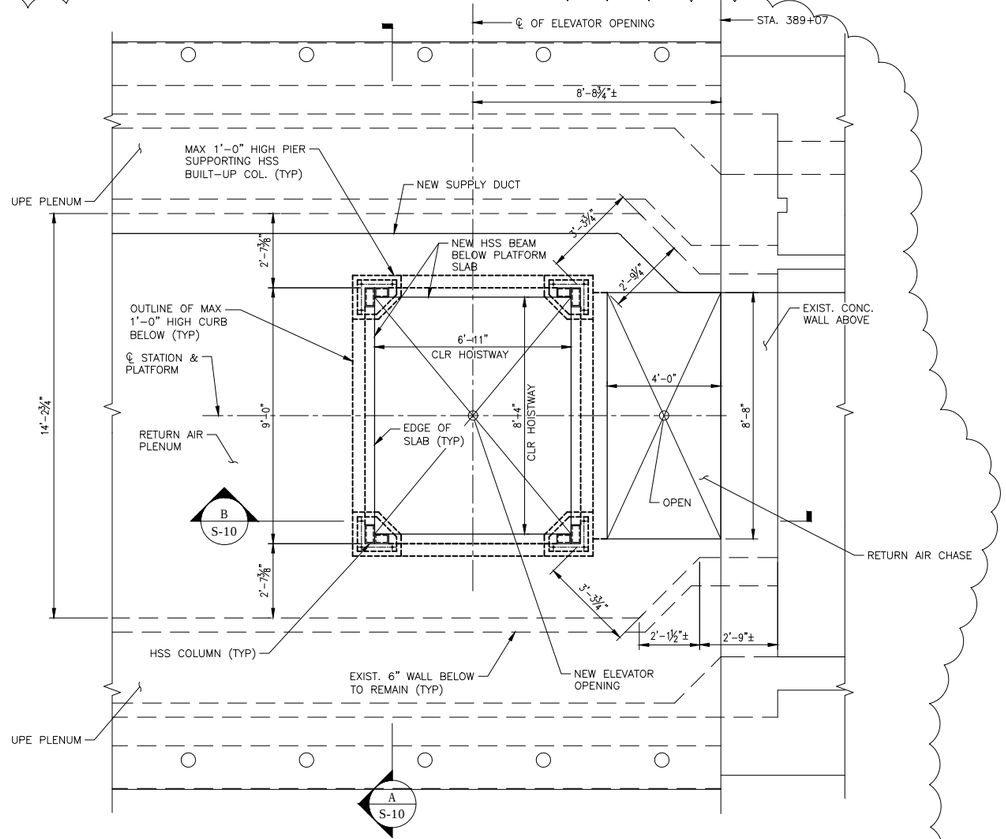
AM2



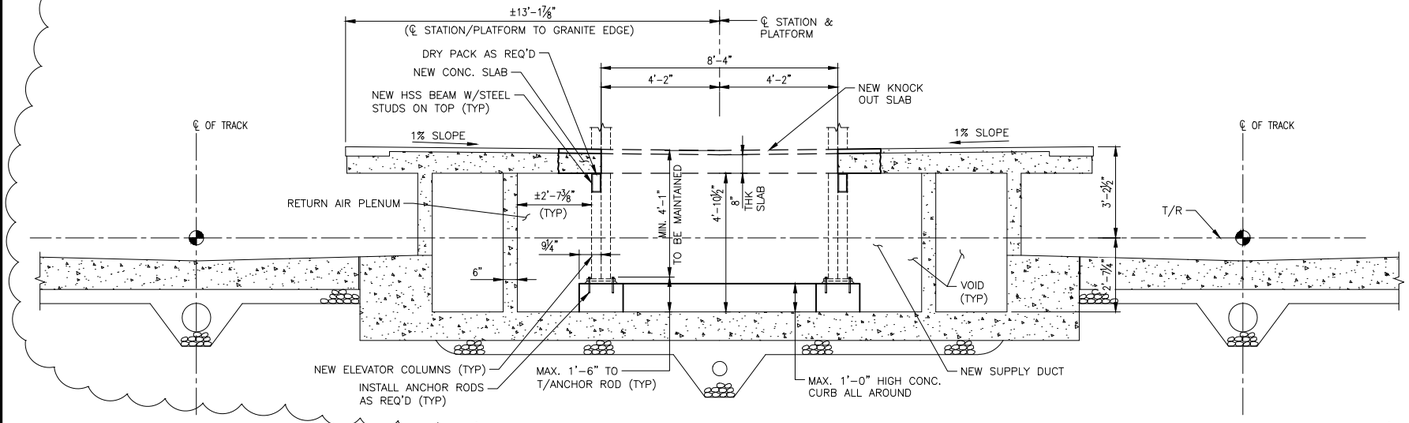
1 S-10 PLATFORM PART PLAN - DEMO
SCALE: 3/8" = 1'-0"

LEGEND:

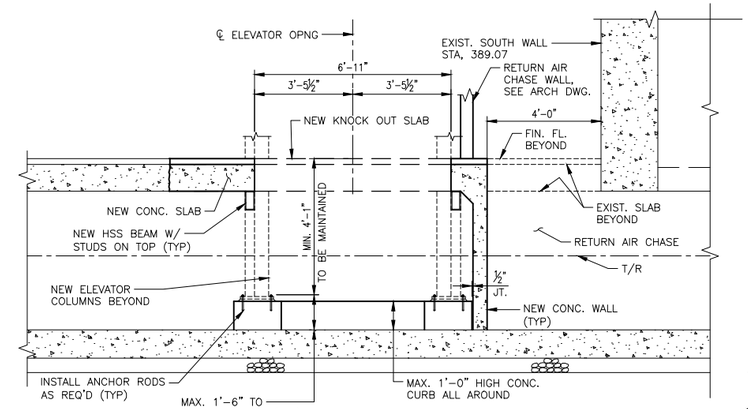
PLATFORM SLAB REMOVAL LIMIT AS REQUIRED



2 S-10 PLATFORM PART PLAN - NEW WORK
SCALE: 3/8" = 1'-0"



A S-10 SECTION
SCALE: 3/8" = 1'-0"



B S-10 SECTION
SCALE: 3/8" = 1'-0"

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DESIGNED ____ DATE
DRAWN E.M. THOMPSON DATE
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REVISIONS

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06/19/15	IA	ELEVATOR PIT REVISED – AM2

MONTGOMERY COUNTY MARYLAND 1776

MTA Maryland

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OFFICE OF ENGINEERING SERVICE

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WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP
One South Charles Street, Baltimore, Maryland 21201

APPROVED ____

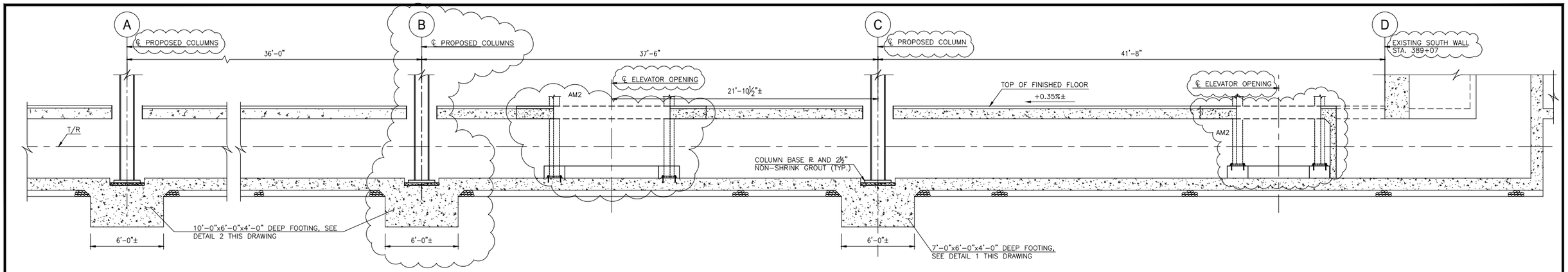
BETHESDA STATION - SOUTH ENTRANCE

BETHESDA STATION PLATFORM PLANS AND SECTIONS

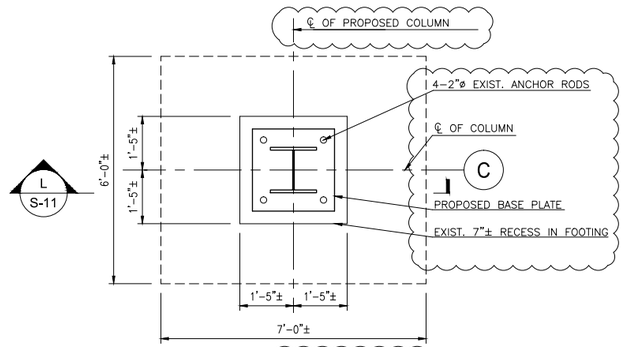
SCALE AS NOTED

DRAWING NO. S-10

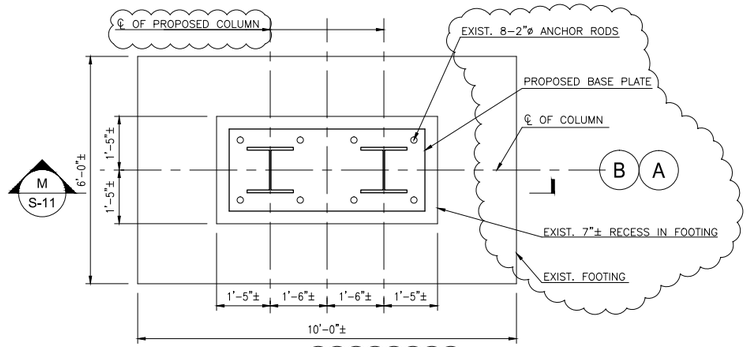
RK&K 22\SYS – C:\pw_working\gtapalisek\d0051415\d01590453\S-10.dwg Jun 26, 2015 – 9:52am Plot Scale 1=1 Plot By: ltnguyen Tab:Layout1 monochrome.CTB



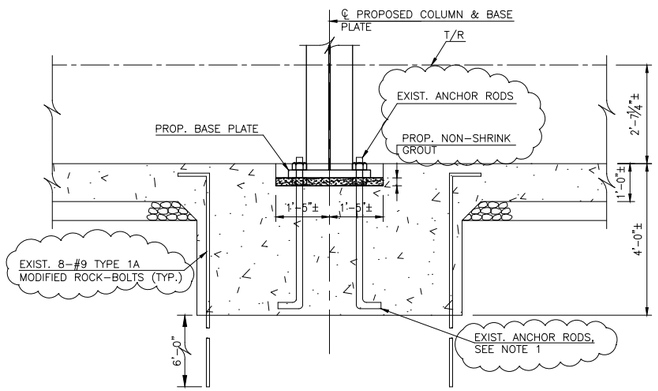
C S-9 **SECTION**
SCALE: ¼"=1'-0"



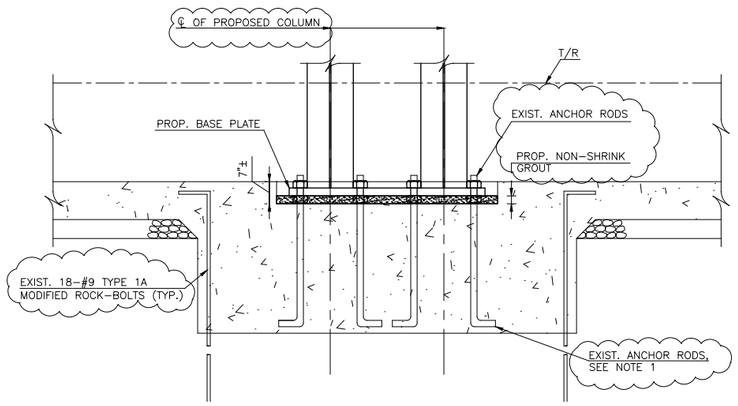
1 S-11 **PLAN VIEW**
SCALE: ½"=1'-0"



2 S-11 **PLAN VIEW**
SCALE: ½"=1'-0"



L S-11 **SECTION**
SCALE: ½"=1'-0"



M S-11 **SECTION**
SCALE: ½"=1'-0"

NOTES:

1. ALL EXISTING FOOTINGS FOR FUTURE COLUMNS CONSTRUCTED AROUND 1977 HAVE PRE-INSTALLED J TYPE ANCHOR RODS. CORROSION OF ANCHOR RODS AND SECTION LOSS WERE OBSERVED PER 2011 WMATA ROUTINE INSPECTION AND RECENT GFP INSPECTION. CORROSION WAS ALSO EVIDENT IN THREADS OF EXISTING ANCHOR RODS. DESIGN BUILDER TO ANALYZE SOUTH MEZZANINE FRAMING AND DETERMINE NET
AM2 UPLIFT/TENSION SERVICE LOAD DEMAND ON EACH ANCHOR ROD. PERFORM STATIC PULLOUT TESTS ON ALL EXISTING ANCHOR RODS TO THE NET SERVICE DESIGN (TENSION) LOAD LIMIT. DESIGN BUILDER THEN TO DETERMINE THE SUITABILITY OF ANCHOR RODS TO SAFETY WITHSTAND THE ANTICIPATED DESIGN LOAD AND REPLACE ANY ANCHOR ROD NECESSARY TO MEET THE LOAD DEMAND. AT ANY INSTANCE, REBAR IN THE EXISTING FOOTINGS AND WATER PROOFING MEMBRANE UNDERNEATH THE FOOTING SHALL NOT BE DAMAGED.
2. FOR ROCK BOLT TYPE 1A, REFER BETHESDA METRO STATION RECORD DRAWINGS

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DESIGNED ____ DATE
DRAWN E.M. THOMPSON DATE
CHECKED D.S. TUSING DATE
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06/19/15	IA	ELEVATOR PIT REVISED -AM2

MONTGOMERY COUNTY 1776 MARYLAND

MTA Maryland

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
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WR&A WHITMAN, REQUARDT & ASSOCIATES, LLP
One South Charles Street, Baltimore, Maryland 21201

APPROVED ____

BETHESDA STATION - SOUTH ENTRANCE

PLATFORM SECTIONS AND DETAILS

SCALE AS NOTED

DRAWING NO. S-11

TUNNEL REHABILITATION
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER & MODEL	NOTES
L	INDUSTRIAL LINEAR LED 48" LONG, 50W, 120/277V, REMOTE DRIVER, RATED IP66, COLD TEMP. RATED, (-30°C TO 50°C)	WALL	OSRAM-SYLVANIA ILL-L-50-7-45-LB-UNV-GR OR APPROVED EQUAL.	--
ETS BLUE LIGHT	LED WARNING LIGHT	WALL	FEDERAL SIGNAL 191 XLM-277-B 36 WATTS	PROVIDE STEADY-BURN (NON-FLASHING) MODEL

REFERENCE DRAWINGS

A08 - TBS - FRIENDSHIP HEIGHTS
A9b-E-12
SSI6-E-21

A08 - TPSS - OLIVER STREET
A9b-E-7
A9b-E-8
FA10-E-7

A09 - TBS - NORWOOD DRIVE
FA10-E-4
SSI6-E-31

A09 - TPSS - BETHESDA
FA11-E-32
SSI6-E-34
SSI6-E-35

A10 - TBS - MEDICAL CENTER
A11c-E-26
SSI6-E-41

A10 - TPSS - MEDICAL CENTER
A11c-E-35
SSI6-E-44
SSI6-E-45

A10 - TBS - LOCUST HILL
A-11a-E-18
FA12-E-9
SSI6-E-51

A11 - TPSS - POOKS HILL
FA12-E-5
SSI6-E-54
SSI6-E-55

A11 - TBS - MONTROSE AVE
A13-E-41
A13-E-44
SSI6-E-61

GENERAL NOTES

1. SCOPE OF WORK: REFER TO SPECIFICATIONS SECTION 01000 FOR DETAILED SCOPE OF WORK. SPECIFICATION SECTIONS 01000 AND ALL DIVISION 16000 SPECIFICATIONS ARE HEREBY MADE AN INTEGRAL PART OF THESE CONSTRUCTION DOCUMENTS.

2. CONTRACTOR SHALL CONTACT WMATA AR (AUTHORITY REPRESENTATIVE) TO DEFINE ACCEPTABLE WORKING HOURS, SPACE FOR STORAGE OF MATERIALS, PARKING, ETC.

3. ALL MATERIALS PROVIDED SHALL BE UL LISTED, NEW AND CONFORM TO CONTRACT SPECIFICATIONS, DRAWINGS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

4. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.

5. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL PULL BOXES, OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED. FURNISHING SUCH MATERIALS AS REQUIRED TO MEET FIELD CONDITIONS AND NEC REQUIREMENTS SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY.

6. THE CONTRACTOR SHALL EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE CONTEMPLATED WORK PRIOR TO SUBMITTING A BID. ANY REQUESTED VARIANCE TO THESE CONTRACT DOCUMENTS SHALL BE SUBMITTED AS PART OF THE BID. ANY VARIANCE REQUIRED FOR FIELD CONDITIONS IDENTIFIED AFTER THE BID PERIOD WILL BE RESPONSIBILITY OF CONTRACTOR.

7. EXISTING TUNNEL LIGHTING IS SUPPLIED FROM ALTERNATE PHASES OF A 3-CIRCUIT HOMERUN. REPLACEMENT WIRING SHALL FOLLOW THE SAME PATTERN.

8. INDICATED DIMENSIONS OF EQUIPMENT ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE FINAL VERIFICATION OF ALL MEASUREMENTS SO THAT THE NEW EQUIPMENT CAN BE MANUFACTURED TO RETROFIT EXISTING CONDITIONS.

9. THE CONTRACTOR SHALL ONLY WORK ON DE-ENERGIZED EQUIPMENT. ALL OUTAGES SHALL BE COORDINATED WITH WMATA AR.

10. CONTRACTOR SHALL TAKE PROPER ACTION TO SECURE AND PROTECT THE OPERATIONAL EQUIPMENT IN THE STATION OR FACILITY DURING CONTRACTOR'S WORK, TO PREVENT DAMAGE OR SHUT DOWN OF EQUIPMENT.

11. CONTRACTOR SHALL PROTECT EXISTING ELECTRICAL EQUIPMENT TO REMAIN FROM DUST AND WATER DURING CONTRACTOR'S WORK.

12. ALL NEW EQUIPMENT TO BE INSTALLED SHALL BE STORED PROPERLY. EQUIPMENT DAMAGED DURING SHIPPING, HANDLING, STORAGE, WATER OR OTHER CAUSES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

13. CONTRACTOR SHALL TEMPORARILY STORE THE EXISTING REMOVED EQUIPMENT UNTIL ITS DISPOSAL. A STAGING AREA INSIDE THE FACILITY SHALL BE ESTABLISHED TO AVOID OBSTRUCTION TO EXISTING ELECTRICAL EQUIPMENT WITH LOCATION APPROVED BY WMATA AR. COORDINATE WITH AR TO DETERMINE WHETHER EQUIPMENT SHOULD BE RETURNED TO WMATA OR DISPOSED OF BY CONTRACTOR.

14. INTERRUPTION OF SERVICE TO EQUIPMENT SHALL BE KEPT TO A MINIMUM, SHOULD OCCUR ONLY IN METRO NON-REVENUE HOURS AND SHALL BE COORDINATED WITH WMATA AR AT LEAST TWO WEEKS PRIOR TO THE REQUIRED OUTAGE.

15. CONTRACTOR SHALL OBTAIN & BECOME FAMILIAR WITH WMATA'S SAFETY AND OPERATING PROCEDURES & RULES. SAFETY TRAINING & CERTIFICATION FOR ALL CONTRACTOR EMPLOYEES ON THE WORK SITE IS MANDATORY.

16. A CLEAR AND UNOBSTRUCTED PATHWAY FROM TRACK TO STREET SHALL BE MAINTAINED AT ALL TIMES FOR PERSONNEL ACCESS. THIS INCLUDES PROHIBITING SUCH ACTIVITIES AS BLOCKING DOORWAYS, PATHWAYS OR STAIRS WITH EQUIPMENT AND MATERIALS, DISMANTLING STAIRS AND OBSTRUCTING STREET HATCHWAYS.

17. NOT USED. AM2

18. ALL TUNNEL RECEPTACLE BRANCH CIRCUIT WIRING SHALL BE 2/ C #10 + 1 # 10G MULTICONDUCTOR CABLE.

19. ALL NEW POWER WIRES SHALL BE WITH RHW-2 INSULATION LOW SMOKE, ZERO HALOGEN. ALL NEW CONDUITS - GRS TYPE. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH NFPA-130.

20. MAINTAIN CONTINUITY OF THE SERVICE OF ALL CONTROL AND COMMUNICATION WIRING. WHERE SUCH WIRING IS TO BE REPLACED, PROVIDE TEMPORARY WIRING TO ENSURE UNINTERRUPTED SERVICE. MINIMIZE ANY REQUIRED DOWNTIME AND COORDINATE TIME AND DURATION OF DOWNTIME WITH WMATA AR.

21. ALL MOUNTING HARDWARE INCLUDING CLAMPS, NUTS, BOLTS, SUPPORTS, ETC SHALL BE 316 STAINLESS STEEL. PROVIDE SAMPLES OF FOR WMATA'S APPROVAL BEFORE PURCHASING.

22. WHERE TESTING OF EXISTING ALS CABLES FOR ETS STATIONS IS CALLED FOR, TESTING OF WIRING SHALL INCLUDE CONTINUITY AND INSULATION RESISTANCE TESTING ACCORDING TO NETA STANDARDS. PROVIDE TEST REPORTS TO WMATA AR. TESTING SHALL INCLUDE VISUAL INSPECTION FOR SIGNS OF DETERIORATION.

23. EXISTING CABLE SUPPORTS ARE INSTALLED ON CHANNEL INSERTS EMBEDDED IN TUNNEL CONCRETE WALLS. THEY ARE LOCATED 4'-0" APART. CABLE SUPPORTS CLAMPS OR STRAPS SHALL BE REPLACED ON EVERY CHANNEL INSERT LOCATED IN HEAVY OR VERY HEAVY CALCIFICATION AREAS, AND WHERE FOUND TO BE CORRODED OR BROKEN. WHERE EXISTING EMBEDDED UNISTRUTS ARE CORRODED AND/OR DETERIORATED SUCH THAT THEY CANNOT SUPPORT CABLES, PROVIDE NEW 316 STAINLESS UNISTRUT AND INSTALL IT OVER THE EXISTING EMBEDDED UNISTRUTS. REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION DETAIL.

24. TUNNEL LIGHT FIXTURE REPLACEMENT SHALL BE PHASED SUCH THAT EXISTING POWER SUPPLY ELECTRICAL PANELS ARE NOT OVERLOADED. THE FOLLOWING IS A POSSIBLE WORKING SEQUENCE FOR EACH LIGHTING FEEDER CONSISTING OF 3 CIRCUITS:

    A. INSTALL NEW TUNNEL FIXTURES NEAR EXISTING FIXTURES.
    B. INSTALL NEW LIGHTING POWER SUPPLY CABLE FROM DESIGNATED PANEL TO FIXTURES. TERMINATE WIRING AT LOAD END ONLY.
    C. DISCONNECT EXISTING POWER SUPPLY CABLE FROM SOURCE.
    D. CONNECT NEW POWER SUPPLY CABLE TO SOURCE.
    E. REMOVE EXISTING FIXTURES.

25. MAINTAIN A MINIMUM ILLUMINATION LEVEL IN THE TUNNELS OF 0.5 FC AT ALL TIMES. PROVIDE TEMPORARY LIGHTING AS REQUIRED.

26. REFER TO "TYPICAL SCHEMATIC DIAGRAM FOR LOAD CENTERS AND RECEPTACLES" ON DWG. T-E-500 FOR RECEPTACLE CIRCUITING.

27. ELECTRICAL PANEL LOCATIONS:
    REFER TO THE FOLLOWING "ELECTRICAL MAINTENANCE MAPS" DRAWINGS FOR LOCATION OF ELECTRICAL PANELS:
    MM - A - E21 FRIENDSHIP HEIGHTS STATION
    MM - A - E22 FRIENDSHIP HEIGHTS STATION
    MM - A - E24 BETHESDA STATION
    MM - A - E26 MEDICAL CENTER STATION
    MM - A - E29 GROSVENOR STATION
    USE EXISTING CONDUIT SLEEVES CONNECTING ELECTRICAL ROOMS TO TUNNELS. FOR BID PURPOSES, ASSUME A DISTANCE OF 100 FT FOR THE HOME RUN LENGTH

28. FOR INSTALLATION DETAILS SEE DWGS T-E-500 & T-E-501.

29. SEE REFERENCE DRAWINGS FOR LOCATIONS OF TPSS's AND TBS's.

30. WHEREVER ON THE DRAWINGS THE TERM "CABLE SUPPORT" IS USED IT SHALL BE UNDERSTOOD TO MEAN THE SAME AS "CABLE CLAMP."

31. ALL REMOVED AND REPLACED EQUIPMENT, FIXTURES, CABLES, WIRING, CONDUIT, AND JUNCTION BOXES SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSE OF IN A LEGAL MANNER. AM2

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 43224, EXPIRATION DATE 04-14-2015.

FINAL

CONTRACT NO. FQ15093

DESIGNED	K. IBRAHIM	01/30/15 DATE
DRAWN	V. BHALLA	01/30/15 DATE
CHECKED	A. FISHEL	01/30/15 DATE
APPROVED	J. PURDY	01/30/15 DATE

REFERENCE DRAWINGS

NUMBER	DESCRIPTION

REVISIONS

DATE	BY	DESCRIPTION
06/15	K.I.	REVISED NOTES AM2

STATE OF MARYLAND — VINCENT MAMDOUH IBRAHIM — No. 43224 — PROFESSIONAL ENGINEER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gannett Fleming/Parsons JOINT VENTURE

SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR - PART 1

GENERAL NOTES

SCALE	DRAWING NO.	SHEET NO.
NOT TO SCALE	T-E-001	M1272-052