



Wayne County Community College District

Eastern Campus Foundation Structural

Rehabilitation

5901 Conner
Detroit, Michigan 48238

Engineer :

FEMI TALABI & ASSOC. INC.
18820 Woodward Ave
Detroit, Michigan 48203
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BUILDING DATA:

Project Title
WCCCD EASTERN CAMPUS FOUNDATION STRUCTURAL REHABILITATION

Client:
5901 CONNER; DETROIT, MI

WAYNE COUNTY COMMUNITY COLLEGE DISTRICT

DETROIT, MICHIGAN

NO.	DESCRIPTION	DATE
1	100% OWNERS REVIEW	08/20/18
2	BID SET	10/31/18

Project No. **1802**
Approved By: **F TALABI**
Drawn By: **B BENNETT**
Check By: **F TALABI**

CERTIFICATION STATEMENT:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature:

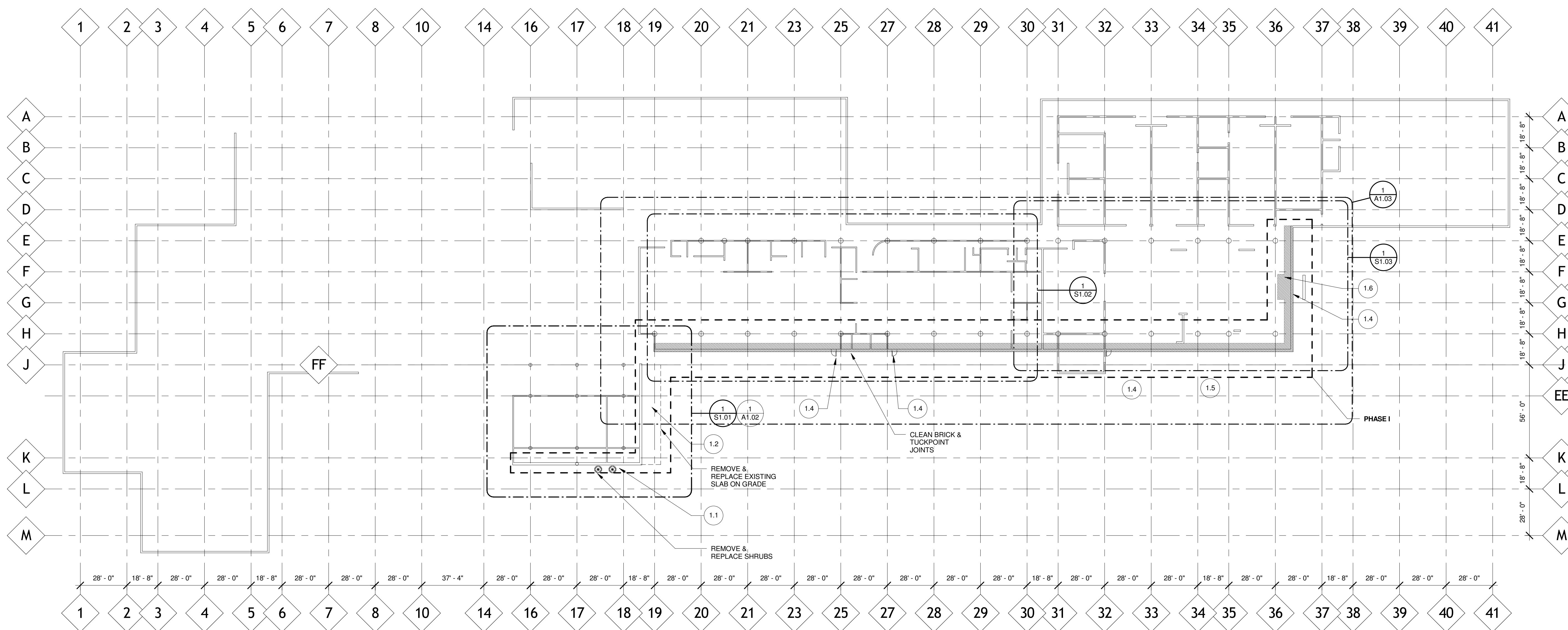
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Sheet Title:
ARCHITECTURAL COMPOSITE PLAN

Sheet Number:
A1.01

FOUNDATION WORK ITEM NOTES

- 1.1 REMOVE & REPLACE SHRUB AS REQUIRED TO DRILL CAISSON AT COLUMN LINE 18.
- 1.2 REMOVE AND REPLACE 6" CONCRETE PAVEMENT. PROVIDE 8" OF STONE BACKFILL. MINIMUM STONE SIZE 3" x 4" OF MDOT 21AA COMPACTED TO 95% MOIST CONTENT.
- 1.3 NOT USED
- 1.4 REMOVE AND REPLACE HOLLOW METAL DOOR AND FRAME BETWEEN COLUMN LINES 27 & 28, 32 & 33. PAINT TO MATCH EXISTING COLOR.
- 1.5 SAWCUT AND DEMOLISH 5'-0" OF EXISTING INTERIOR SLAB ON GRADE FOR PROPOSED FOUNDATION IMPROVEMENT. UPON COMPLETION, PLACE NEW CONCRETE SLAB ON GRADE.
- 1.6 SAWCUT AND DEMO 6'-0" x 18'-6" EXISTING SLAB ON GRADE. PLACE NEW SLAB TO ENSURE THE EXTERIOR HOLLOW METAL DOOR OPENS FREELY. SLOPE SLAB TOWARDS BUILDING EXTERIOR.
- 1.7 NO SLAB ON GRADE IMPROVEMENT REQUIRED.
- 1.8 GROUT EXISTING SLAB ON GRADE, PER SOIL REPORT DATED APRIL 12, 2018 DONE BY TESTING ENGINEERS CONSULTANT (TEC) INC.
- 1.9 a. CONTRACTOR SHALL SHUT ALL ELECTRICAL AND MECHANICAL SYSTEMS.
b. CONTRACTOR SHALL PROVIDE TEMPORARY PIPE SUPPORTS FOR ALL ELECTRICAL & MECHANICAL PIPE BETWEEN COLUMN LINES 25 & 27. REVIEW EXISTING DOCUMENT. BEFORE WORK COMMENCEMENT, DETACH ALL PIPES FROM CMU WALLS. ATTACH THEM TO THE TEMPORARY PIPE SUPPORTS.
c. DEMOLISH ALL EXISTING CMU WALLS AND THE THICKEN SLAB UNDERNEATH. PROVIDE NEW FOUNDATION, BEAM FOUNDATION.
- 1.10 DEMOLISH AND REMOVE EXISTING SLAB, INTERIOR CMU WALL AND FOUNDATION. PROVIDE NEW FOUNDATIONS, SLAB AND CMU WALLS.



FOUNDATION PLAN-COMPOSITE
SCALE: 1/32" = 1'-0"

INTERIOR REPAIR NOTES:

- a REPAIR ALL ROOF LEAKS, EXPOSED SOFFIT /OR WINDOW ENCLOSURE FRAMING, REPLACE ANCHORAGE CLIPS & BRACKETS AS REQUIRED; VERIFY CONDITION OF ALUM. WINDOW FRAME ANCHORAGE (REPAIR AS REQ.)
- b REPAIR FOOTING BEARING, REMOVE CMU AS REQUIRED TO ALIGN WALL & FILL VOIDS, REPAIR VOIDS & GAPS @ GYP. BRD. INTERSECTION
- c REMOVE CMU WALL, RESTORE SOIL BEARING PER ENGINEER; INSTALL NEW METAL STUDS & GYPSUM WALL
- d REMOVE 24" OF GYPSUM BOARD ALONG TOP OF CMU WALL, REPAIR FRAMING, INSTALL NEW GYPSUM BOARD
- e REMOVE PARAPET CLOSURE / SOFFIT INTERIOR GYPSUM BOARD, VERIFY CONDITION OF FRAMING, REPAIR FRAMING AS REQUIRED, INSTALL NEW M.R. GYPSUM BOARD
- f REMOVE ALL WATER DAMAGED GYPSUM BOARD @ WINDOW SILL AND JAMBS, REPAIR FRAMING & ANCHORS AS REQUIRED, INSTALL NEW SOFFIT, SILL & JAMB CLOSURE
- g REMOVE FLOOR SLAB, REPAIR GRADING, LEVEL FLOOR, INSTALL NEW COMPACTED BASE, VAPOR BARRIER & 6" CONCRETE SLAB

CONTRACTOR SHALL PROVIDE PLASTIC SHEET HUNG FROM CEILING FOR DUST CONTROL ALONG COLUMN LINE H, DUST SPREADING SHALL BE PREVENTED FROM SPREADING TO OTHER AREAS OF THE BUILDING DURING FOUNDATION WORK.

EXTERIOR REPAIR NOTES:

- 1 REMOVE DAMAGED BRICK, TOOTH IN NEW UNITS
 - 2 REMOVE & CLEAN CONTROL JOINTS, INSTALL NEW BACKER ROD & SILICON SEALANT, DO NOT DAMAGE HORIZONTAL REINFORCING
 - 3 VERIFY PARAPET FRAMING & ATTACHMENT CONDITIONS, REPAIR & REPLACE AS REQUIRED
 - 4 ALIGN & ADJUST METAL TRIM & JOINT CLOSURE IN PARAPET WALL, ALUM. TRIM & FRAMING (AFTER FOUNDATION & EXTERIOR STABILIZATION AND REPAIRS)
 - 5 CONTRACTOR SHALL RESTORE CONSTRUCTION STAGING AREA BACK TO THE WAY IT WAS PRIOR TO CONSTRUCTION COMMENCEMENT, NEW LANDSCAPE, GRASS, ETC.
 - 6 AFTER FOUNDATION STABILIZATION & REPAIRS, REMOVE & REPLACE MAN DOOR & FRAME, REMOVE EXTERIOR PAVING AS REQUIRED FOR PROPER DOOR OPERATION
- EXTERIOR FOUNDATION WALL REPAIRS & REINFORCEMENT, EXTENT OF ROOFING & PARAPET WALL REPAIRS; REMOVE ROOFING & INSULATION 5' MINIMUM ALONG EXTERIOR WALL, VERIFY CONDITION OF PARAPET WALL FRAMING & ANCHORAGE; INSTALL NEW INSULATION, ROOFING CONTRACTOR TO DETERMINE RE-USE OR REPLACEMENT OF ROOF MEMBRANE

STRUCTURAL REPAIR NOTE

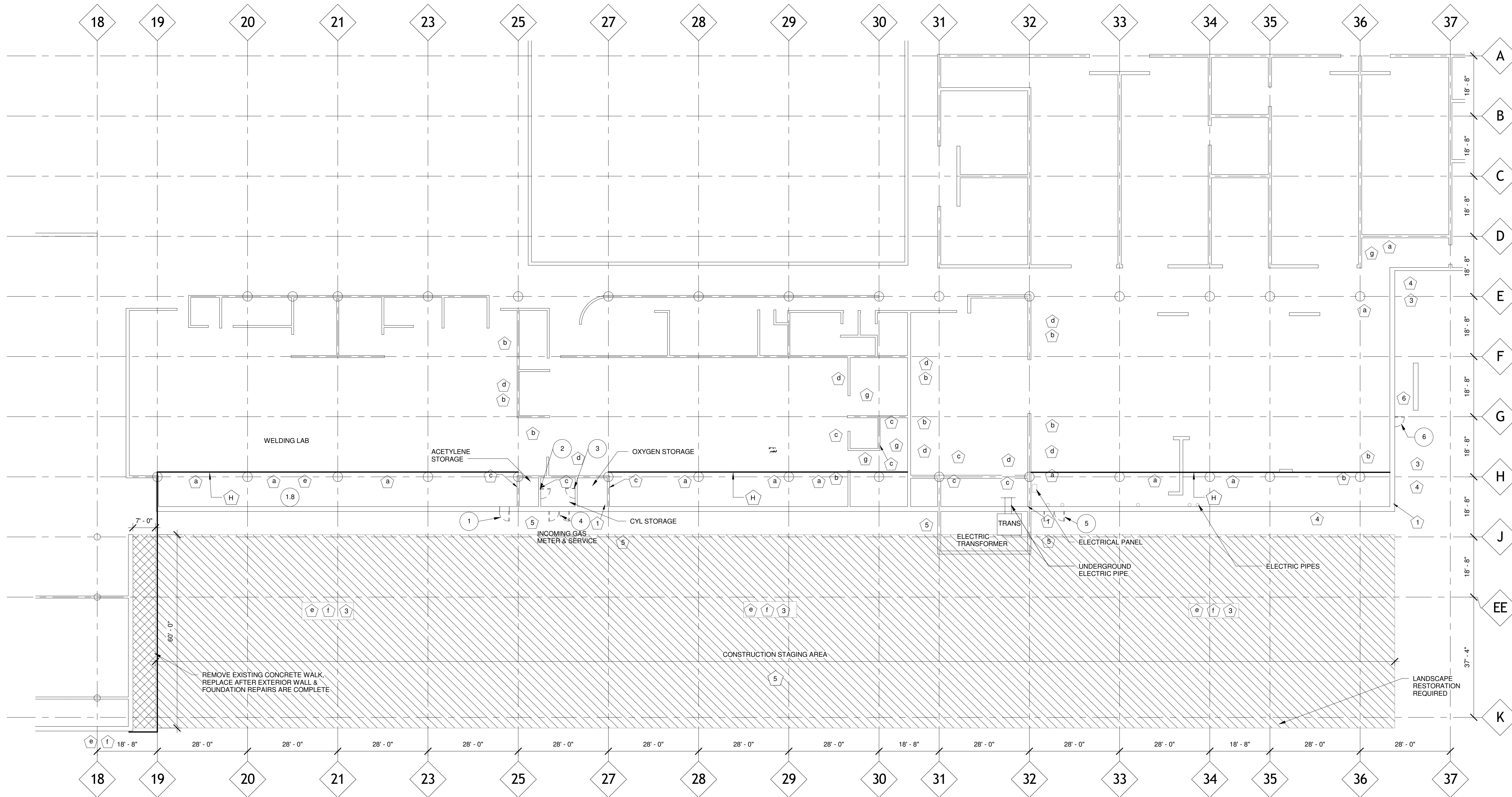
THE CONTRACTOR SHALL INSPECT ALL BUILDING EXPANSION JOINTS FOR LEAKS, REMOVE, REPLACE OR REPAIR EXPANSION JOINTS &/OR JOINT COVERS AS REQUIRED

SEE DETAIL "E" ON S3.01 FOR DOUBLE TEE FLANGE REPAIR DETAILS, THE CONTRACTOR SHALL FIELD INSPECT & INVESTIGATE TO DETERMINE THE EXACT LOCATIONS & NUMBER OF TEES REQUIRING REPAIRS

SEE DETAIL "D" ON S3.01 FOR REPAIRS OF SPALLING TEES

THE CONTRACTOR SHALL PROVIDE UNIT PRICING FOR REPAIRS OF STRUCTURAL PRE-CAST TEES, QUANTITIES TO BE FIELD DETERMINED JOINTLY WITH ENGINEER & INSPECTION TEAM

SPECIAL NOTE:
THE CONTRACTOR SHALL PROVIDE BASE BID COST TO REPLACE ALL GYPSUM ALONG WINDOW OPENINGS & UPPER SOFFITS, BID SHALL ALSO PROVIDE DEDUCT COST PER SQUARE FOOT FOR CASES WHERE REPLACEMENT IS NOT REQUIRED



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5901 CONNER; DETROIT, MI
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Drawn By: Author
Check By: Checker

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1
PARTIAL FIRST FLOOR PLAN - AREA D
SCALE: 1/16" = 1'-0"
NOTE: 1. CONTRACTOR SHALL REPLACE ALL DOORS IDENTIFIED, PROVIDE MATCHING EXISTING DOOR HARDWARES.

Sheet Title:
PARTIAL FIRST FLOOR PLAN - AREA D

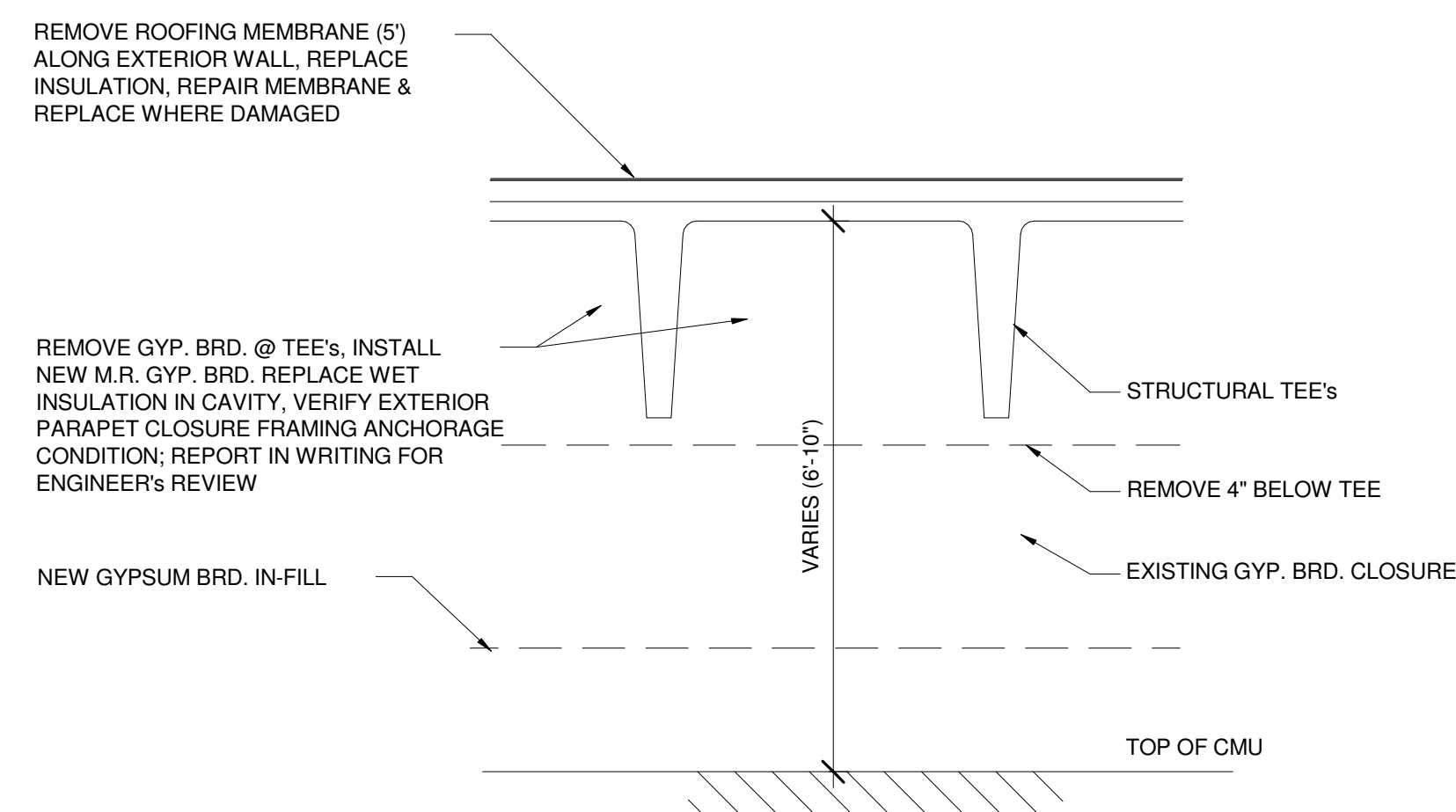
Sheet Number:
A1.03

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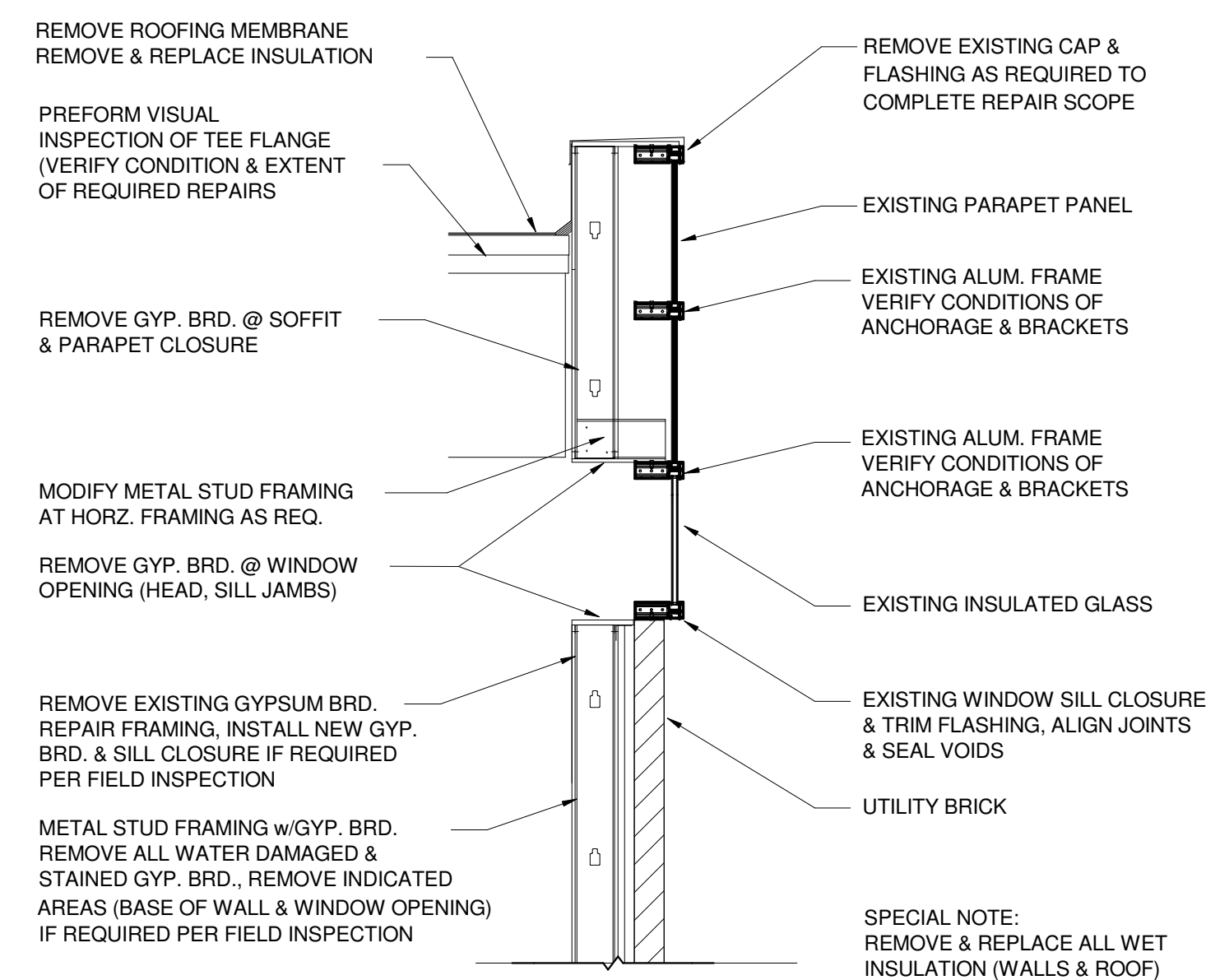
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2 REPAIR DETAIL
 SCALE: 1/2" = 1'-0"



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

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Sheet Title:
ARCHITECTURAL SECTIONS & DETAILS

Sheet Number:
A2.01

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Approved By:	F TALABI	Check By:	F TALABI

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Seal and Signature:

 FEMI TALABI, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF MICHIGAN, LICENSE NO. 93087

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CAISSON SCHEDULE					
MARK	BEARING CAP	SHAFT DIA	BELL DIA	LOAD KIPS	COMMENT
DF-1	4ksf	3'-0"	7'-0"	140k	CAISSON REINFORCEMENT 6 - #7 X 10'-0" LONG
DF-2	4ksf	3'-0"	5'-0"	80k	CAISSON REINFORCEMENT 6 - #7 X 10'-0" LONG

fc' = 4,000 psi
 fy = 60 ksi

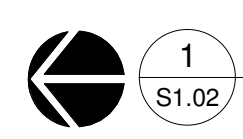
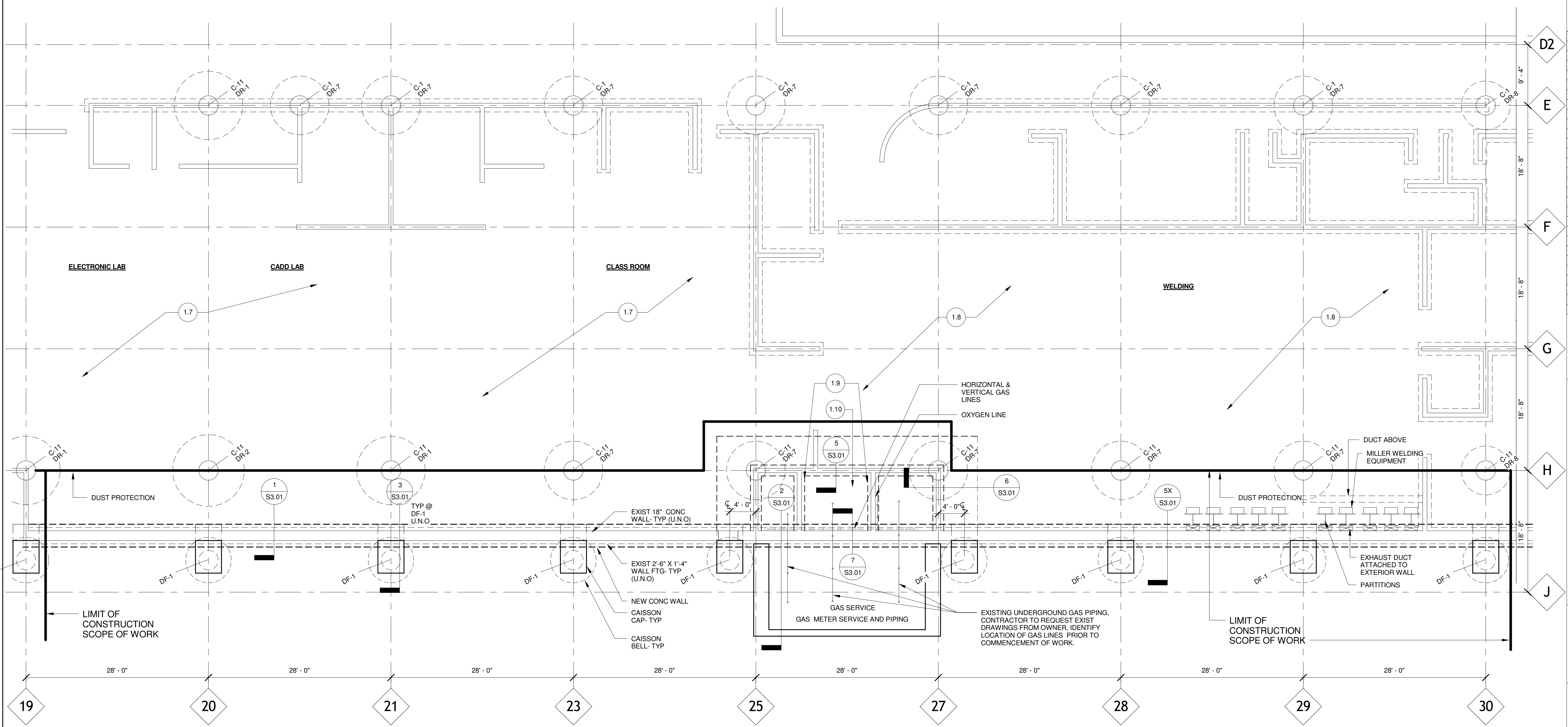
NOTES:
 1. BELL BEARING 27' FEET FROM TOP OF EXISTING FOOTING OR CONCRETE WALL GRADE.
 2. BELL SHALL BE ANCHORED 12" BEYOND BEARING LEVEL.
 3. CONTRACTOR SHALL INSPECT DRILLED CAISSON HOLES UPON EXCAVATION TO ENSURE THAT THE HOLES ARE FREE OF RESIDUAL EXCAVATED MATERIAL PRIOR TO REINFORCEMENT AND CONCRETE PLACEMENT.

- SELECTIVE DEMOLITION NOTES**
- SD.1 ALL EQUIPMENT ALONG THE EXTERIOR WALL BETWEEN COLUMN LINE H SHALL BE REMOVED AND THE PARTITIONS, BEFORE COMMENCEMENT OF FOUNDATION WORK AND REINSTALLED UPON WORK COMPLETION.
 - SD.2 THE WALL MOUNTED EXHAUST (RETURN) DUCT SHALL BE LEFT IN PLACE DURING CONSTRUCTION.
 - SD.3 THE CONTRACTOR SHALL DISCONNECT OXYGEN LINE FROM PARTITIONS MILLER WELDING MACHINES AND REINSTALL AND RECONNECT PIPES.
 - SD.4 THE CONTRACTOR SHALL DISCONNECT POWER TO ALL EQUIPMENT PRIOR TO WORK COMMENCEMENT (NO EXCEPTION)

- GENERAL NOTES**
1. ALL CAISSONS ARE TYPE DF-1 UNLESS OTHERWISE NOTED.
 2. CONTRACTOR SHALL REVIEW TESTING ENGINEERS & CONSULTANTS SOIL REPORT COMPLETELY PRIOR TO WORK COMMENCEMENT.
 3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO STEEL FABRICATION OF STEEL REINFORCING.
 4. IF DURING INSTALLATION, THE REINFORCEMENT CAGE SHIFTS MORE THAN 3 INCHES, THE CONTRACTOR SHALL DOCUMENT FIELD WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
 5. CONTRACTOR REVIEW EXISTING DOCUMENT BY ROSSETTI ASSOCIATES, SHOP EQUIPMENT AREA D DRAWING 7.10 & SHOP EQUIPMENT AREA E DRAWING 7.11

- FOUNDATION WORK ITEM NOTES**
- 1.1 REMOVE & REPLACE SHRUB AS REQUIRED TO DRILL CAISSON AT COLUMN LINE 18.
 - 1.2 REMOVE AND REPLACE 6" CONCRETE PAVEMENT. PROVIDE 8" OF STONE BACKFILL. MINIMUM STONE SIZE 3" + 4" OF MDOT 21AA COMPACTED TO 95% MOIST CONTENT.
 - 1.3 NOT USED
 - 1.4 REMOVE AND REPLACE HOLLOW METAL DOOR AND FRAME BETWEEN COLUMN LINES 27 & 28, 32 & 33, PAINT TO MATCH EXISTING COLOR.
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 - 1.6 SAWCUT AND DEMO 6'-0" x 18'-6" EXISTING SLAB ON GRADE. PLACE NEW SLAB TO ENSURE THE EXTERIOR HOLLOW METAL DOOR OPENS FREELY. SLOPE SLAB TOWARDS BUILDING EXTERIOR.
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- 1.9 a. CONTRACTOR SHALL SHUT ALL ELECTRICAL AND MECHANICAL SYSTEMS.
 b. CONTRACTOR SHALL PROVIDE TEMPORARY PIPE SUPPORTS FOR ALL ELECTRICAL & MECHANICAL PIPE BETWEEN COLUMN LINES 25 & 27. REVIEW EXISTING DOCUMENT, BEFORE WORK COMMENCEMENT, DETACH ALL PIPES FROM CMU WALLS, ATTACH THEM TO THE TEMPORARY PIPE SUPPORTS.
 c. DEMOLISH ALL EXISTING CMU WALLS AND THE THICKEN SLAB UNDERNEATH, PROVIDE NEW FOUNDATION, BEAM FOUNDATION.
- 1.10 DEMOLISH AND REMOVE EXISTING SLAB, INTERIOR CMU WALL AND FOUNDATION. PROVIDE NEW FOUNDATIONS, SLAB AND CMU WALLS.



ENLARGED FOUNDATION PLAN - AREA D
 SCALE: 1/8" = 1'-0"

NOTE:
 1. CONTRACTOR TO SHUT OFF EXISTING GAS SUPPLY PRIOR TO COMMENCEMENT OF WORK.
 2. CONTRACTOR TO OBTAIN EXISTING ELECTRICAL DOCUMENTS FROM OWNER, IDENTIFY LOCATION OF THE UNDERGROUND FEEDERS, PROVIDE ADEQUATE PROTECTION AROUND LIVE FEEDERS TO ENSURE NO STRUCTURAL LOAD IS IMPOSED ON THE FEEDER.

CAISSON SCHEDULE					$f_c = 4,000$ psi $f_y = 60$ ksi
MARK	BEARING CAP	SHAFT DIA	BELL DIA	LOAD KIPS	COMMENT
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AUTO SERVICE LAB NOTES

- CONTRACTOR SHALL REMOVE AND REINSTALL AUTO PAINT BOOTH UPON WORK COMPLETION.
- ELECTRICAL PANEL & UNDERGROUND CONDUIT SHALL REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING FOR FOUNDATION REPAIR WORK. INSTALL AUTO PAINT BOOTH UPON WORK COMPLETION.
- CONTRACTOR SHALL OBTAIN ALL EXISTING CONSTRUCTION FOR WCCCD EASTERN CAMPUS. REVIEW FAMILIARIZE HIS/HERSELF PRIOR TO BID SUBMITTAL.

GENERAL NOTES

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WCCCD EASTERN CAMPUS FOUNDATION STRUCTURAL REHABILITATION

5901 CONNER; DETROIT, MI

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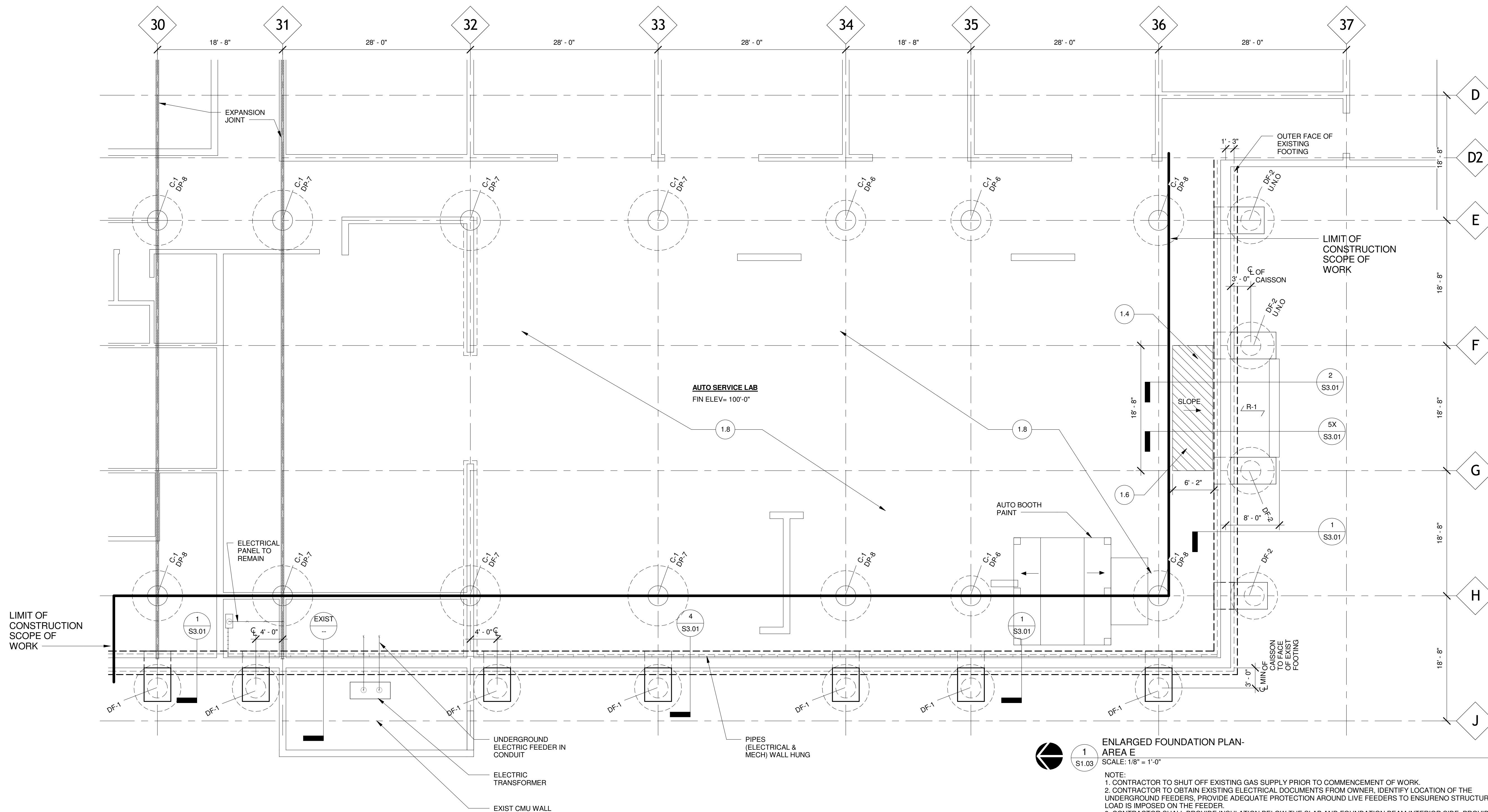
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ENLARGED FOUNDATION PLAN - AREA E

Sheet Number: **S1.03**



ENLARGED FOUNDATION PLAN - AREA E
SCALE: 1/8" = 1'-0"

- NOTE:
- CONTRACTOR TO SHUT OFF EXISTING GAS SUPPLY PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR TO OBTAIN EXISTING ELECTRICAL DOCUMENTS FROM OWNER. IDENTIFY LOCATION OF THE UNDERGROUND FEEDERS. PROVIDE ADEQUATE PROTECTION AROUND LIVE FEEDERS TO ENSURE NO STRUCTURAL LOAD IS IMPOSED ON THE FEEDER.
 - CONTRACTOR SHALL PROVIDE INSULATION BELOW THE SLAB AND FOUNDATION BEAM INTERIOR SIDE. PROVIDE MOISTURE CONTROL PLASTIC 60 MIL BENEATH THE FOUNDATION.

Project Title
**WCCCD EASTERN
CAMPUS FOUNDATION
STRUCTURAL
REHABILITATION**

5901 CONNER; DETROIT, MI

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CC
D** WAYNE COUNTY
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**ENLARGED ROOF PLAN
- AREA C**

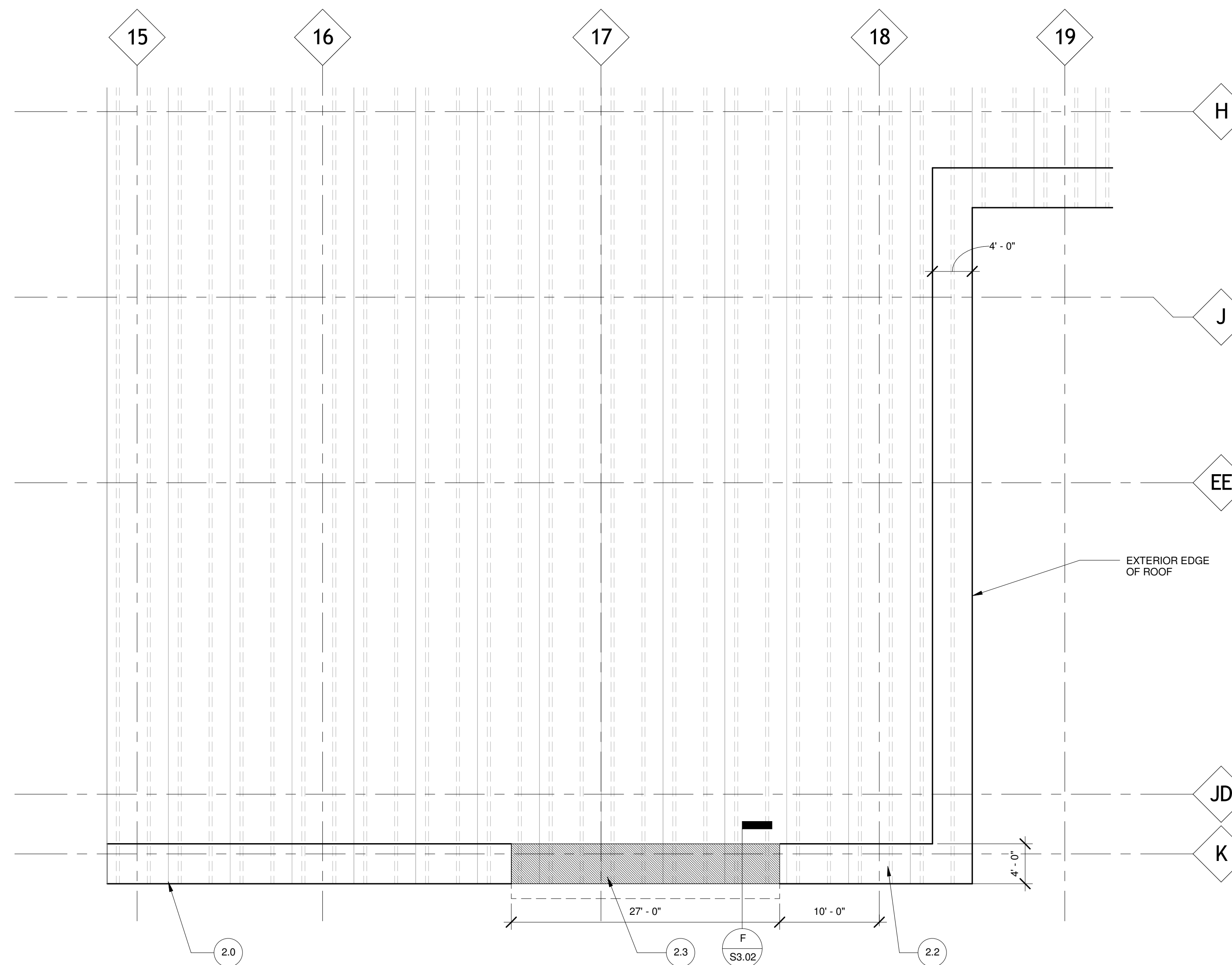
Sheet Number:
S1.04

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE UNIT PRICES FOR REPAIR OF PRECAST CONCRETE FLANGES WITH PARTIAL DEPTH REPAIR AND FULL DEPTH REPAIR. (SEE PROJECT SPECIFICATIONS)
- CONTRACTOR SHALL FOLLOW THE METHODOLOGY PER DETAILS D & E/S3.02
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE ROOF INSPECTION. THE ENGINEER AND CONTRACTOR SHALL JOINTLY AGREE TO THE QUANTITY OF CONCRETE SPALLING TO BE REPAIRED.
- UPON COMPLETION OF FLANGE REPAIR, THE CONTRACTOR SHALL INSTALL NEW EPDM SECURELY TO PRECAST CONCRETE FLANGE AND PARAPET WALL AND ITS COMPLETE SET AND DRIED PLACE AND SPREAD THE STONE ALONG THE OUTER EDGE OF THE ROOF.

ROOF WORK ITEMS

- REMOVE AND REPLACE EXISTING STAINED GYPSUM BOARD ABOVE EXISTING EXTERIOR WINDOWS, EXISTING FRAMING TO REMAIN, PAINT WHITE TO MATCH EXISTING PAINT.
 - IF CONCRETE SPALLING IS CONFINED TO SURFACE OF DOUBLE TEE FLANGE, USE DETAIL E/S3.02 FOR REPAIRS.
 - REMOVE 4'-0" WIDTH OF EXISTING STONE ALONG THE OUTER EDGE OF ROOF DOUBLE TEE FLANGE, TAKE OUT 5'-0" OF EPDM ROOF MEMBRANE TO INSPECT THE DOUBLE TEE PRECAST CONCRETE BEAMS, TO IDENTIFY CONCRETE SPALLING, CRACKS AND DELAMINATION.
 - IF CONCRETE SPALLING HAS PENETRATED THE DOUBLE TEE FLANGE AND IT IS OBSERVED FROM THE GROUND FLOOR LOOKING AT THE CEILING, USE DETAIL D/S3.02 FOR REPAIRS.
- CONTRACTOR SHALL INSPECT ALL BUILDING EXPANSION JOINTS FOR LEAKS AND REPAIR THE EPDM MEMBRANE AS REQUIRED.



1
S1.04 ENLARGED ROOF PLAN- AREA C
SCALE: 1/8" = 1'-0"

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Sheet Title:
ENLARGED ROOF PLAN - AREA E

Sheet Number:
S1.06

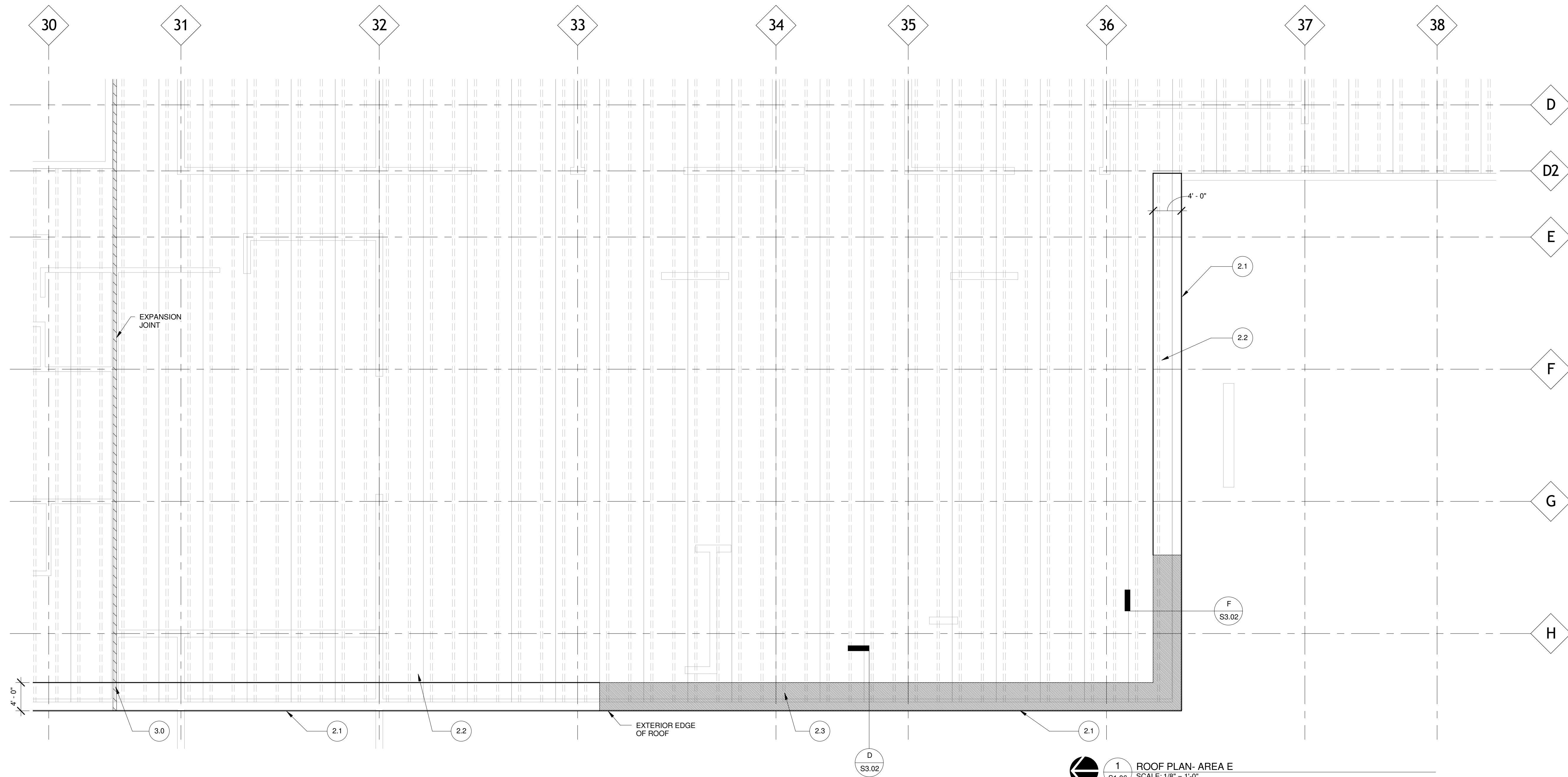
GENERAL NOTES

- CONTRACTOR SHALL PROVIDE UNIT PRICES FOR REPAIR OF PRECAST CONCRETE FLANGES WITH PARTIAL DEPTH REPAIR AND FULL DEPTH REPAIR. (SEE PROJECT SPECIFICATIONS)
- CONTRACTOR SHALL FOLLOW THE METHODOLOGY PER DETAILS D & E/S3.02
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE ROOF INSPECTION, THE ENGINEER AND CONTRACTOR SHALL JOINTLY AGREE TO THE QUANTITY OF CONCRETE SPALLING TO BE REPAIRED.
- UPON COMPLETION OF FLANGE REPAIR, THE CONTRACTOR SHALL INSTALL NEW EPDM SECURELY TO PRECAST CONCRETE FLANGE AND PARAPET WALL AND ITS COMPLETE SET AND DRIED PLACE AND SPREAD THE STONE ALONG THE OUTER EDGE OF THE ROOF.

ROOF WORK ITEMS

- REMOVE AND REPLACE EXISTING STAINED GYPSUM BOARD ABOVE EXISTING EXTERIOR WINDOWS, EXISTING FRAMING TO REMAIN. PAINT WHITE TO MATCH EXISTING PAINT.
- IF CONCRETE SPALLING IS CONFINED TO SURFACE OF DOUBLE TEE FLANGE, USE DETAIL E/S3.02 FOR REPAIRS.
- REMOVE 4'-0" WIDTH OF EXISTING STONE ALONG THE OUTER EDGE OF ROOF DOUBLE TEE FLANGE, TAKE OUT 5'-0" OF EPDM ROOF MEMBRANE TO INSPECT THE DOUBLE TEE PRECAST CONCRETE BEAMS, TO IDENTIFY CONCRETE SPALLING, CRACKS AND DELAMINATION.
- IF CONCRETE SPALLING HAS PENETRATED THE DOUBLE TEE FLANGE AND IT IS OBSERVED FROM THE GROUND FLOOR LOOKING AT THE CEILING, USE DETAIL D/S3.02 FOR REPAIRS.

CONTRACTOR SHALL INSPECT ALL BUILDING EXPANSION JOINTS FOR LEAKS AND REPAIR THE EPDM MEMBRANE AS REQUIRED.



1 ROOF PLAN - AREA E
 SCALE: 1/8" = 1'-0"

Project Title
WCCCD EASTERN CAMPUS FOUNDATION STRUCTURAL REHABILITATION

5901 CONNER; DETROIT, MI



DETROIT, MICHIGAN

NO.	DESCRIPTION	DATE
1	100% OWNERS REVIEW	08/20/18
2	BID SET	10/31/18

Project No. **1802**
Designer
Drawn By: **B BENNETT**
Checked By: **Checker**

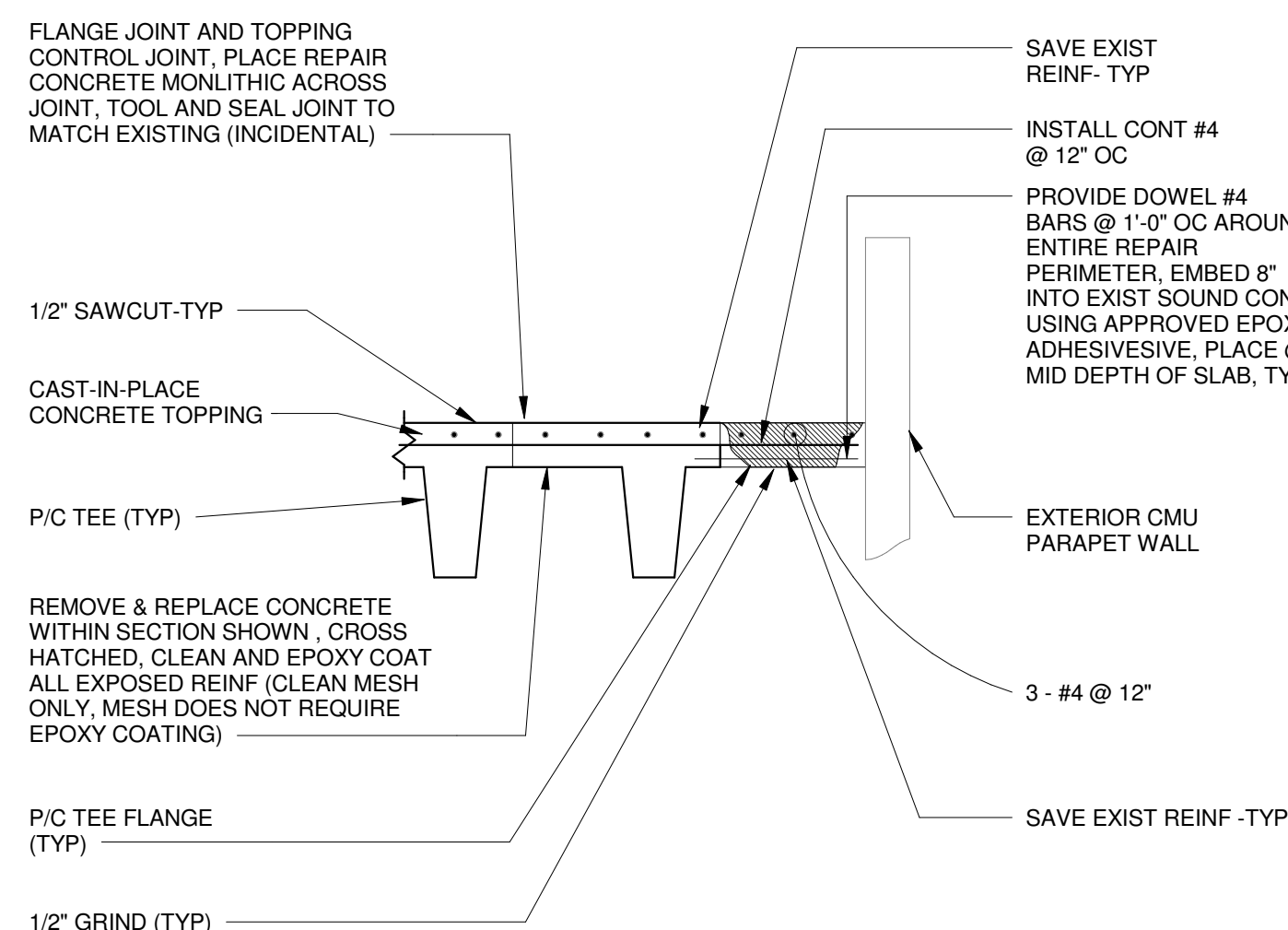
CERTIFICATION STATEMENT:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature:

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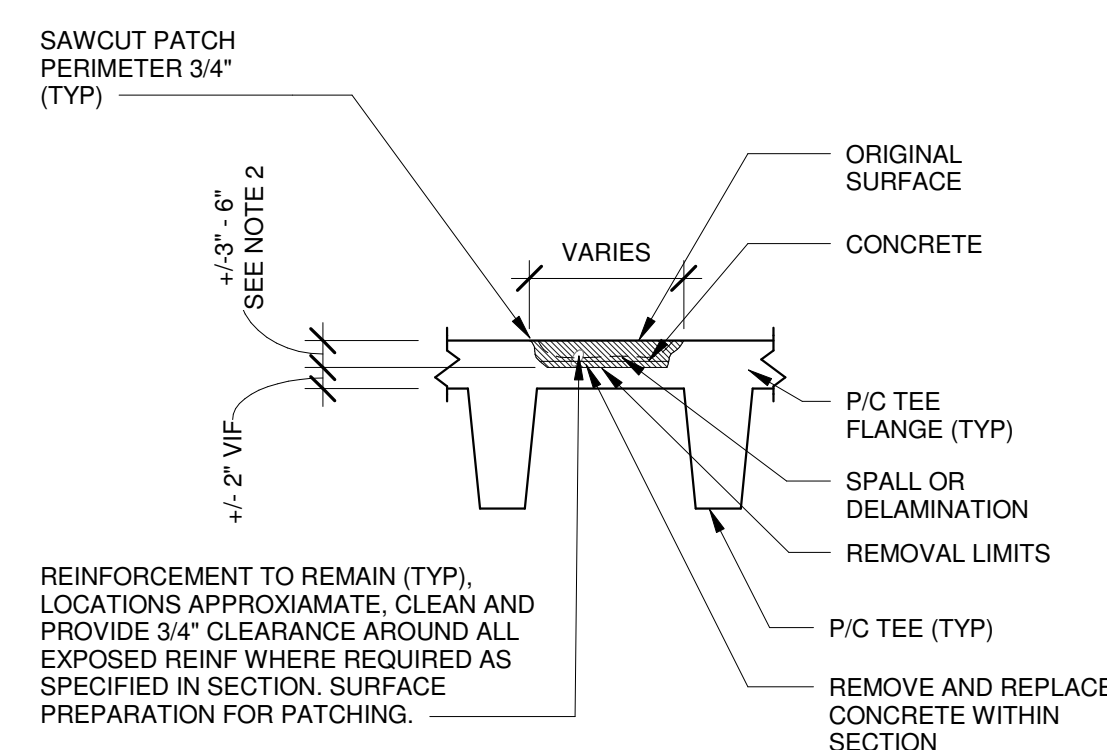
Sheet Title: **DETAILS**

Sheet Number: **S3.02**



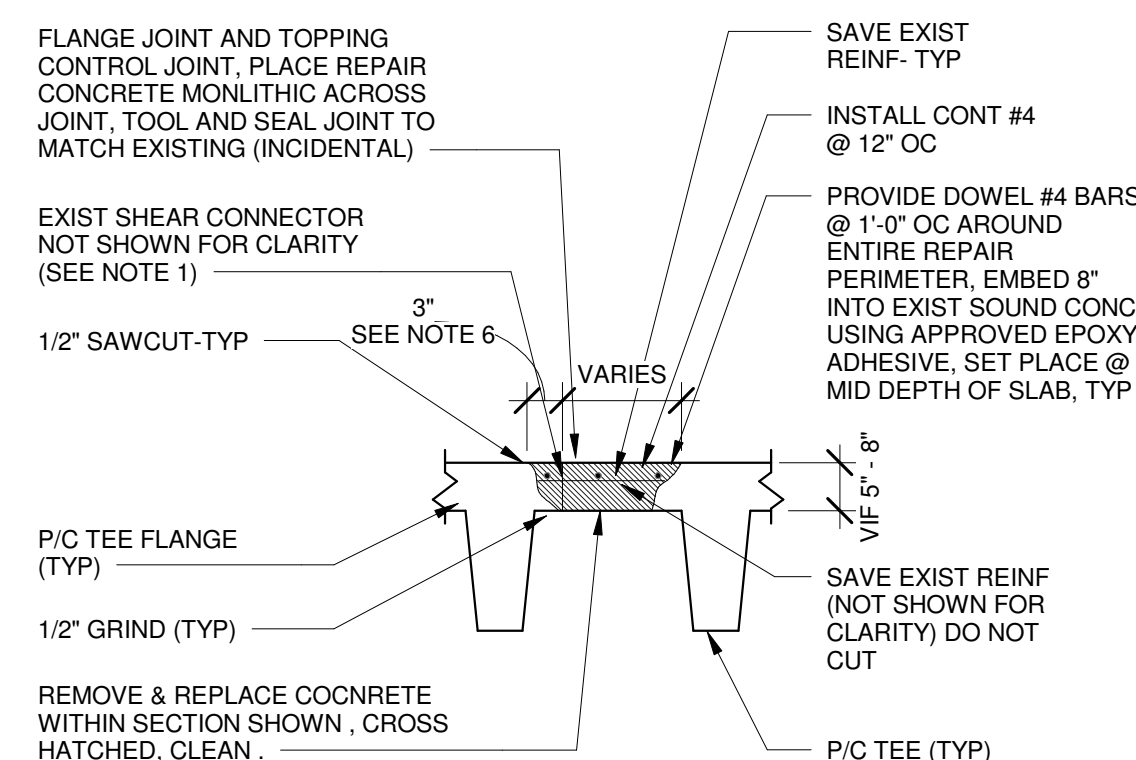
- NOTES:**
1. PROVIDE 1 1/2" COVER OVER ALL REINFORCEMENT
 2. REINFORCING STEEL INSTALLATION REQUIRED ON THIS DETAIL IS INCIDENTAL TO THIS WORK ITEM.
 3. MINIMUM LAP SPLICE FOR #4 BARS IS 20"
 4. CAUTION: FLOOR SLABS MAY CONTAIN EMBEDDED ELECTRICAL CONDUIT. LOCATE PRIOR TO START OF WORK AND PERFORM REMOVALS IN A MANNER TO NOT DAMAGE. COORDINATE REPAIR W/OWNER, AND REMOVE ONLY IF ABANDONED. EXTERNALLY-MOUNTED CONDUIT MAY OCCUR ON CEILING SURFACE.
 5. PERFORM FULL DEPTH REMOVALS TO MAINTAIN AN INWARD ANGLE AROUND THE REPAIR PERIMETER AS SHOWN.

F REPAIR - FULL DEPTH
3/4" = 1'-0"



- NOTES:**
1. PROVIDE TOOLED JOINTS IN REPAIR AREAS AS REQUIRED TO MAINTAIN EXISTING JOINT LAYOUT (INCIDENTAL) INSTALL JOINT SEALANT PER OTHER WORK ITEMS.
 2. ACTUAL DEPTH OF REQUIRED REMOVALS VARIES. CONTRACTOR RESPONSIBLE FOR REMOVAL DEPTHS UP TO 8" (AS SHOWN), INCLUDE IN SUBMITTED UNIT PRICE; NO EXTRAS ALLOWED.
 3. JUNCTION BOXES MAY BE PRESENT IN TOPPING CONCRETE, LOCATE PRIOR TO START OF WORK AND PERFORM REMOVALS IN MANNER TO NOT DAMAGE EMBEDDED CONDUIT.

E REPAIR - PARTIAL DEPTH
3/4" = 1'-0"



- NOTES:**
1. SANDBLAST AND EPOXY COAT ALL BROKEN TEE FLANGE SHEAR CONNECTION (OR REMOVE) AND EPOXY ANCHOR (2) ADDITIONAL #4 X 3'-0" LONG ACROSS JOINT @ MID-DEPTH AS DIRECTED BY ENGINEER (INCIDENTAL)
 2. PROVIDE 1 1/2" COVER OVER ALL REINFORCEMENT
 3. REINFORCING STEEL INSTALLATION REQUIRED ON THIS DETAIL IS INCIDENTAL TO THIS WORK ITEM.
 4. MINIMUM LAP SPLICE FOR #4 BARS IS 20"
 5. CAUTION: FLOOR SLABS MAY CONTAIN EMBEDDED ELECTRICAL CONDUIT. LOCATE PRIOR TO START OF WORK AND PERFORM REMOVALS IN A MANNER TO NOT DAMAGE. COORDINATE REPAIR W/OWNER, AND REMOVE ONLY IF ABANDONED. EXTERNALLY-MOUNTED CONDUIT MAY OCCUR ON CEILING SURFACE.
 6. PERFORM FULL DEPTH REMOVALS TO MAINTAIN AN INWARD ANGLE AROUND THE REPAIR PERIMETER AS SHOWN.

D REPAIR - FULL DEPTH
3/4" = 1'-0"