

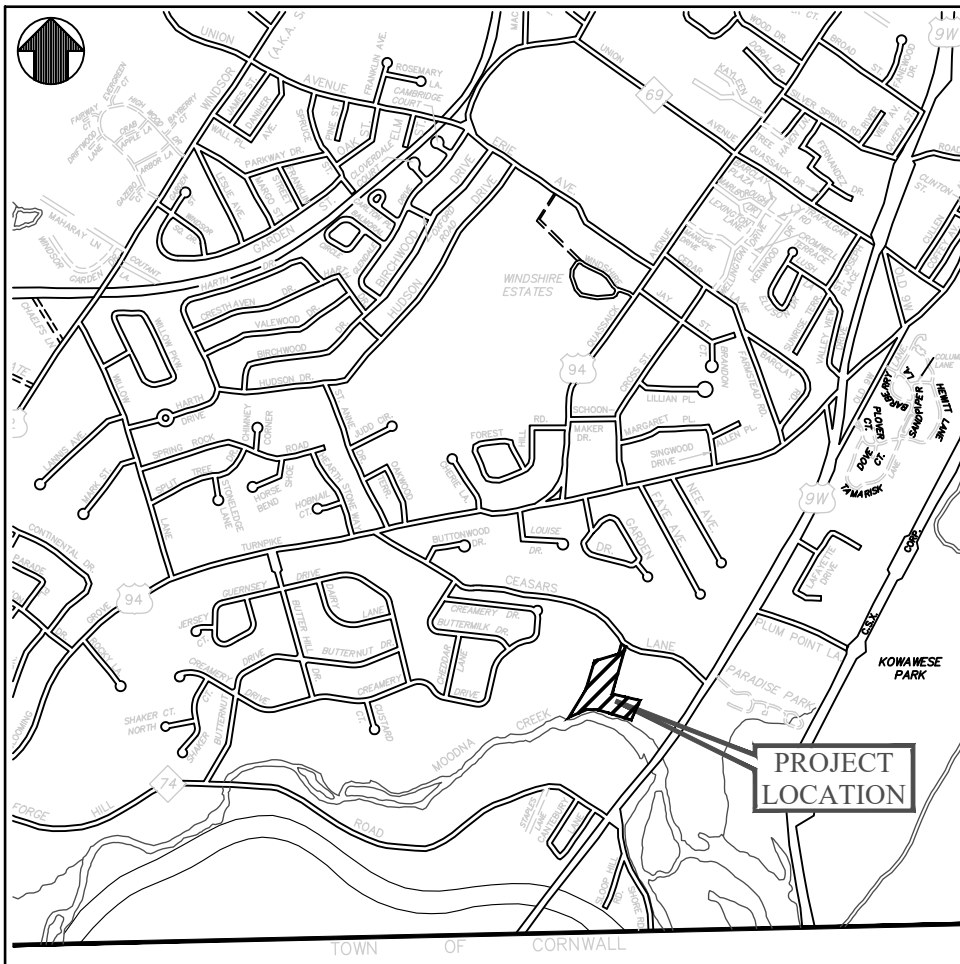
CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE 1
145 CAESARS LN., NEW WINDSOR, NY 12553

Town Officials

Supervisor - Stephen A. Bedetti

Council Persons - Steve Moreau
Sylvia Santiago
Eve Lincoln
Charles H. Broe

Town Clerk - Patricia A. Clarino



LOCATION MAP
SCALE : 1" = 2000'

LEGEND

- ---

PL

EXIST. PROPERTY/LOT LINE
- ---

W

EXIST. WATER PIPE
- ~~~~~

~~~~~

W

~~~~~

EXIST. WATER PIPE TO BE ABANDONED
- ⊙

W.V.

⊙

EXIST. WATER VALVE
- ⊙

HYD.

⊙

EXIST. HYDRANT
- X-

-X-

X

-X-

EXIST. CHAIN LINK FENCE
- +

490.0

EXIST. SPOT ELEV.
- ---

490

EXIST. 5' CONTOUR
- ---

492

EXIST. 1' CONTOUR
- ⊕

U.P.

⊕

EXIST. UTILITY POLE
- ---

OHP

EXIST. OVERHEAD UTILITY LINES
- ⊙

S

⊙

EXIST. SANITARY MANHOLE
- ===

===

EXIST. SANITARY PIPE
- ---

S

EXIST. SANITARY LATERAL
- ⊠

EXIST. CATCH BASIN
- ===

===

EXIST. STORM SEWER PIPE
- ---

G

EXIST. GAS MAIN
- ⊙

G.V.

⊙

EXIST. GAS VALVE
- ---

W

PROP. WATER LINE / WATER SERVICE
- ⊗

W.V.

⊗

PROP. WATER VALVE
- ⊗

C.S.V.

⊗

PROP. CURB STOP VALVE
- ⬆

PROP. HYDRANT



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EXPANSION PROJECT:
PHASE 1
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

TITLE PAGE

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	MJS
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REVIEWED BY:	MDL

SHEET NO.	
T-101	
PROJECT # 18-732	PHASE # 1

P:\2018\18-732 Caesars Lane WWTP Improvements\Expansion Phase 1 - CDE\Drawings\Phase 1 - Cover Sheet.dwg T:\02-11\10\2024 12:57 PM

TITLE PAGE & DRAWING INDEX	
DWG No.	DESCRIPTION
T-101	TITLE PAGE
T-102	DRAWING INDEX SHEET 1
CIVIL - PROCESS DRAWING LIST	
DWG No.	DESCRIPTION
100 SERIES - SITE	
C-101	OVERALL EXISTING PLANT SITE PLAN
C-102	KEY PLAN FOR NEW WORK
C-103	NEW WORK AREA DEMOLITION PLAN
C-104	NEW CONTROL BUILDING SITE PLAN SHEET 1 OF 2
C-105	NEW CONTROL BUILDING SITE PLAN SHEET 2 OF 2
C-106	EROSION & SEDIMENT CONTROL PLAN
C-107	EXISTING CONTROL BUILDING SITE PLAN
200 SERIES - SITE DETAILS	
C-201	WATER MAIN PROFILE & DETAILS
C-202	SANITARY SEWER, STORM & SITE DETAILS
C-203	SITE DETAILS
C-204	EROSION & SEDIMENT CONTROL NOTES AND DETAILS
ARCHITECTURAL DRAWING LIST	
DWG No.	DESCRIPTION
G-001	ADA CLEARANCES, ABBREVIATIONS & LEGEND
700 SERIES - EXISTING CONTROL BLDG./DEWATERING	
AD-701	DEWATERING BUILDING - LOWER LEVEL DEMOLITION PLAN, EXISTING INCINERATOR PHOTOS & NOTES
AD-702	DEWATERING BUILDING - UPPER LEVEL DEMOLITION PLAN & NOTES
AD-703	DEWATERING BUILDING - ROOF DEMOLITION PLAN & NOTES
AD-704	DEWATERING BUILDING - EXTERIOR ELEVATIONS DEMOLITION, PHOTOS & NOTES
A-701	DEWATERING BUILDING - LOWER LEVEL FLOOR PLAN & NOTES
A-702	DEWATERING BUILDING - UPPER LEVEL FLOOR PLAN & DETAILS
A-703	DEWATERING BUILDING - ROOF PLAN, DETAILS & NOTES
900 SERIES - NEW CONTROL BUILDING	
G-901	CONTROL BUILDING - EGRESS PLAN, CODE ANALYSIS & DETAILS
A-901	CONTROL BUILDING - FLOOR PLAN & WALL TYPES
A-902	CONTROL BUILDING - ROOF PLAN & DETAILS
A-903	CONTROL BUILDING - EXTERIOR ELEVATIONS
A-904	CONTROL BUILDING - SECTIONS
A-905	CONTROL BUILDING - INTERIOR PLAN, ELEVATIONS & DETAILS
A-906	CONTROL BUILDING - FLOOR PLAN LAB & INTERIOR ELEVATIONS
A-907	CONTROL BUILDING - WINDOW, DOOR & MISCELLANEOUS DETAILS & SCHEDULES
A-908	CONTROL BUILDING - REFLECTED CEILING PLAN & CEILING DETAILS
A-909	CONTROL BUILDING - FINISH FLOOR PLAN, SCHEDULE & DETAILS
STRUCTURAL DRAWING LIST	
DWG No.	DESCRIPTION
100 SERIES - SITE WORK RETAINING WALLS	
S-100	CONTROL BUILDING RETAINING WALL (WALL #1) NOTES
S-101	CONTROL BUILDING RETAINING WALL (WALL #1) ELEVATIONS, SECTIONS & DETAILS
700 SERIES - SLUDGE DEWATERING BUILDING	
S-700	SLUDGE DEWATERING BUILDING MODIFICATION NOTES
S-701	SLUDGE DEWATERING BUILDING - GROUND LEVEL MODIFICATION PLAN
S-702	SLUDGE DEWATERING BUILDING - UPPER LEVEL MODIFICATION PLAN
S-703	SLUDGE DEWATERING BUILDING - ROOF MODIFICATION PLAN
S-704	SLUDGE DEWATERING BUILDING - SECTIONS
S-705	SLUDGE DEWATERING BUILDING - STRUCTURAL DETAILS
S-706	SLUDGE DEWATERING BUILDING - STRUCTURAL DETAILS CONTINUED
S-707	RETAINING WALL DETAILS AND ELEVATION
900 SERIES - NEW CONTROL BUILDING	
S-900	CONTROL BUILDING - STRUCTURAL NOTES AND PROVISIONS
S-901	CONTROL BUILDING - FOUNDATION PLAN
S-902	CONTROL BUILDING - SLAB PLAN
S-903	CONTROL BUILDING - WALL FRAMING PLAN
S-904	CONTROL BUILDING - ROOF FRAMING PLAN
S-905	CONTROL BUILDING - BUILDING SECTIONS
S-906	CONTROL BUILDING - WALL SECTIONS

ELECTRICAL DRAWING LIST	
DWG No.	DESCRIPTION
000 SERIES - SCHEMATICS	
E-001	ELECTRICAL LEGENDS, ABBREVIATIONS & NOTES
E-010	ELECTRICAL NEW WORK SINGLE LINE DIAGRAMS
E-030	ELECTRICAL DETAILS
E-031	ELECTRICAL DETAILS
E-040	ELECTRICAL SCHEDULES
E-041	ELECTRICAL SCHEDULES
100 SERIES - SITE WORK	
E-100	ELECTRICAL SITE PLAN - NEW WORK
700 SERIES - DEWATERING BUILDING	
E-700	ELECTRICAL DEMOLITION PLAN - DEWATERING BUILDING
900 SERIES - NEW CONTROL BUILDING	
E-900	ELECTRICAL POWER PLAN - CONTROL BUILDING
E-901	ELECTRICAL SYSTEMS PLAN - CONTROL BUILDING
E-902	ELECTRICAL LIGHTING PLAN - CONTROL BUILDING
MECHANICAL DRAWING LIST	
DWG No.	DESCRIPTION
000 SERIES - SCHEMATICS	
M-001	MECHANICAL LEGENDS, ABBREVIATIONS & NOTES
M-030	MECHANICAL DETAILS
M-040	MECHANICAL SCHEDULES
900 SERIES - NEW CONTROL BUILDING	
M-900	MECHANICAL FLOOR PLAN - NEW WORK
PLUMBING DRAWING LIST	
DWG No.	DESCRIPTION
000 SERIES - SCHEMATICS	
P-001	PLUMBING LEGENDS, ABBREVIATIONS & NOTES
P-030	PLUMBING DETAILS & SCHEDULES
900 SERIES - NEW CONTROL BUILDING	
P-900	PLUMBING FLOOR PLAN - CONTROL BUILDING
P-901	PLUMBING FLOOR PLAN - CONTROL BUILDING


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DRAWING INDEX

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DESIGN BY:	MJS
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T-102

PROJECT # 18-732 PHASE # 1

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EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
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NEW WINDSOR, NY 12553

**OVERALL
EXISTING PLANT
SITE PLAN**

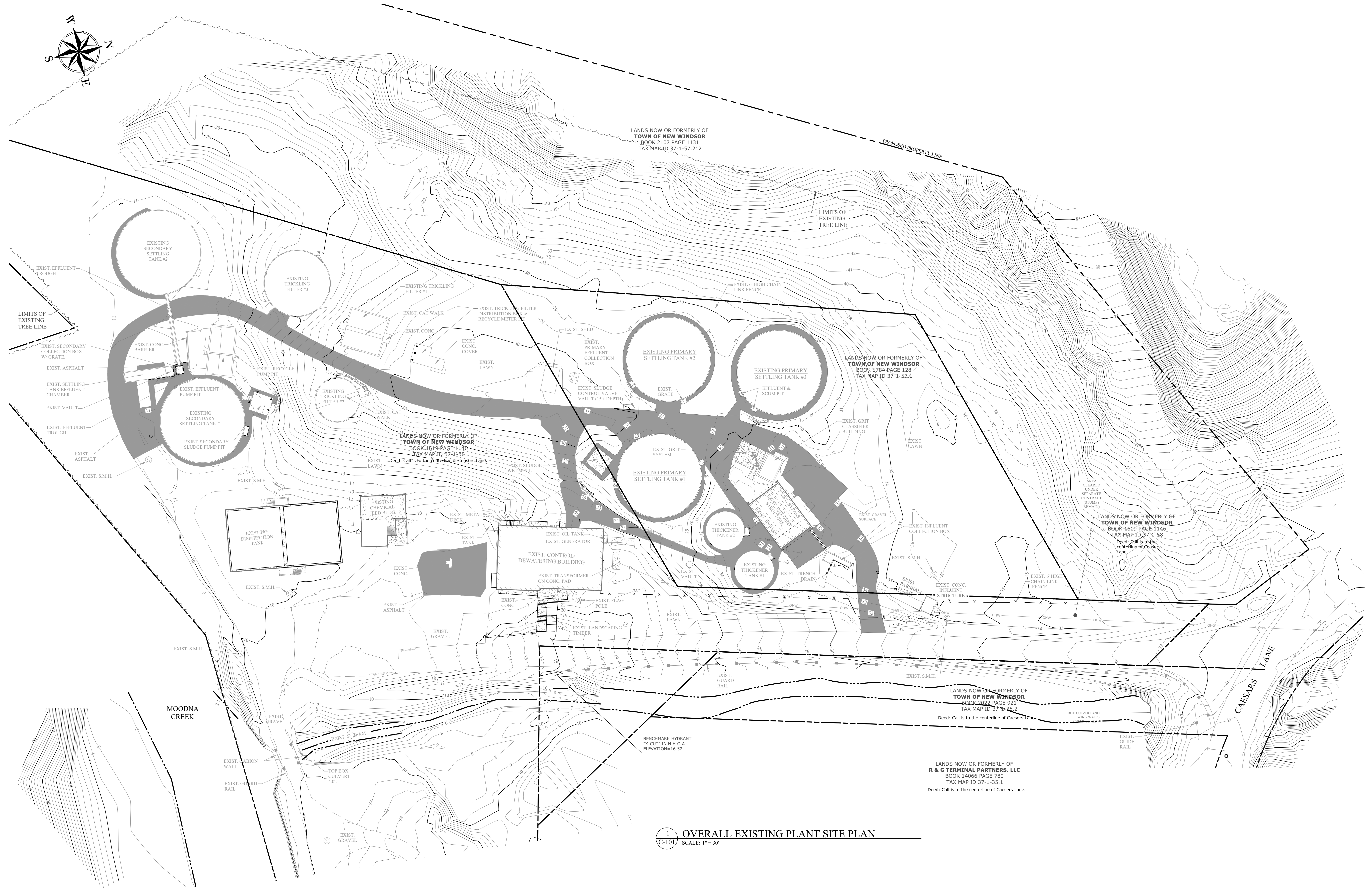
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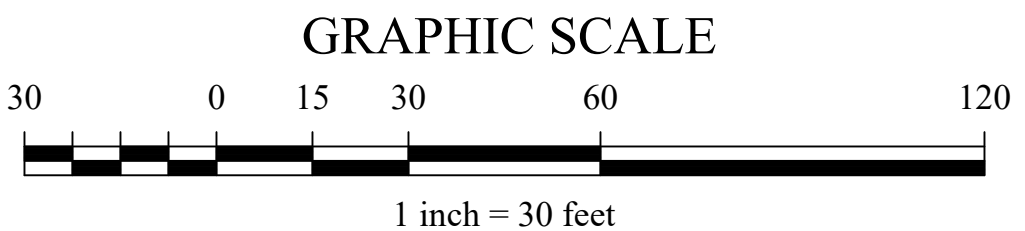
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C-101

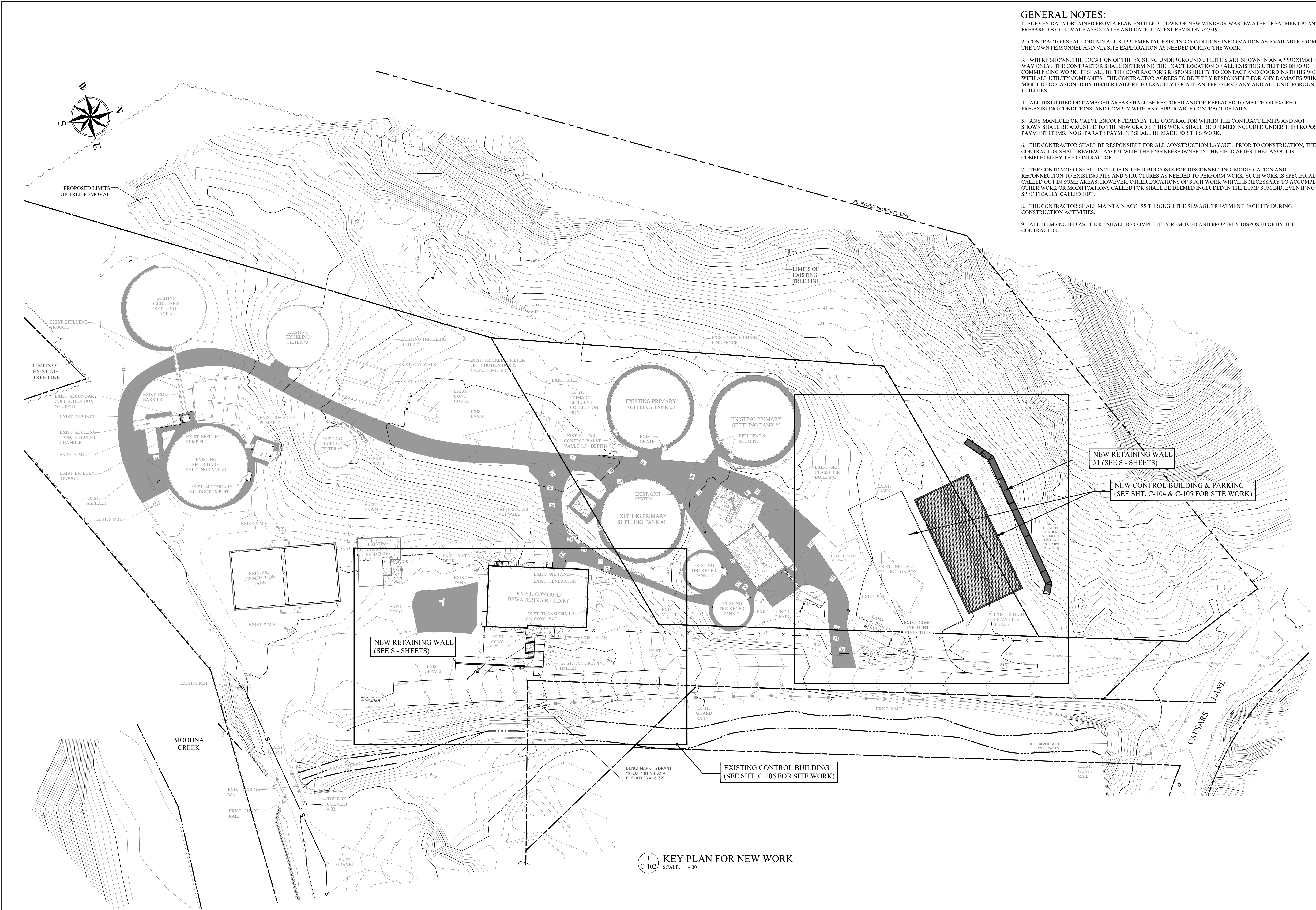
PROJECT # 18-732 PHASE # 1



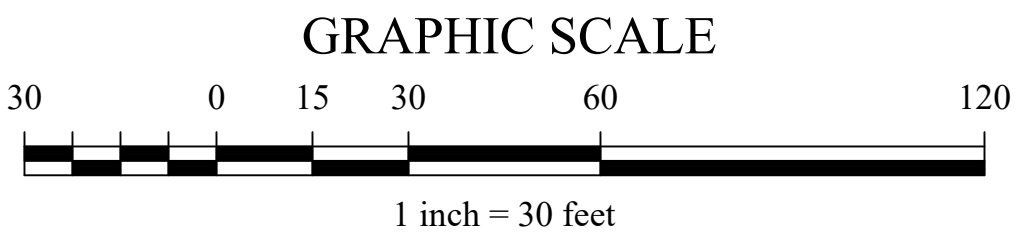
1 OVERALL EXISTING PLANT SITE PLAN
SCALE: 1" = 30'



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1
C-102 KEY PLAN FOR NEW WORK
SCALE: 1" = 30'



- GENERAL NOTES:**
1. SURVEY DATA OBTAINED FROM A PLAN ENTITLED "TOWN OF NEW WINDSOR WASTEWATER TREATMENT PLANT" PREPARED BY C.T. MALE ASSOCIATES AND DATED LATEST REVISION 7/23/19.
 2. CONTRACTOR SHALL OBTAIN ALL SUPPLEMENTAL EXISTING CONDITIONS INFORMATION AS AVAILABLE FROM THE TOWN PERSONNEL AND VIA SITE EXPLORATION AS NEEDED DURING THE WORK.
 3. WHERE SHOWN, THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AND COORDINATE HIS WORK WITH ALL UTILITY COMPANIES. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 4. ALL DISTURBED OR DAMAGED AREAS SHALL BE RESTORED AND/OR REPLACED TO MATCH OR EXCEED PRE-EXISTING CONDITIONS, AND COMPLY WITH ANY APPLICABLE CONTRACT DETAILS.
 5. ANY MANHOLE OR VALVE ENCOUNTERED BY THE CONTRACTOR WITHIN THE CONTRACT LIMITS AND NOT SHOWN SHALL BE ADJUSTED TO THE NEW GRADE. THIS WORK SHALL BE DEEMED INCLUDED UNDER THE PROPOSAL PAYMENT ITEMS. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW LAYOUT WITH THE ENGINEER/OWNER IN THE FIELD AFTER THE LAYOUT IS COMPLETED BY THE CONTRACTOR.
 7. THE CONTRACTOR SHALL INCLUDE IN THEIR BID COSTS FOR DISCONNECTING, MODIFICATION AND RECONNECTION TO EXISTING PITS AND STRUCTURES AS NEEDED TO PERFORM WORK. SUCH WORK IS SPECIFICALLY CALLED OUT IN SOME AREAS; HOWEVER, OTHER LOCATIONS OF SUCH WORK WHICH IS NECESSARY TO ACCOMPLISH OTHER WORK OR MODIFICATIONS CALLED FOR SHALL BE DEEMED INCLUDED IN THE LUMP SUM BID, EVEN IF NOT SPECIFICALLY CALLED OUT.
 8. THE CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE SEWAGE TREATMENT FACILITY DURING CONSTRUCTION ACTIVITIES.
 9. ALL ITEMS NOTED AS "T.B.R." SHALL BE COMPLETELY REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.



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KEY PLAN FOR NEW WORK

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C-102

PROJECT # 18-732 PHASE # 1



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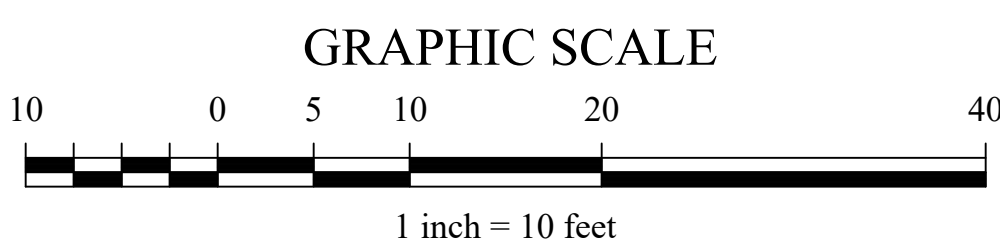


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NEW WORK AREA
DEMOLITION PLAN

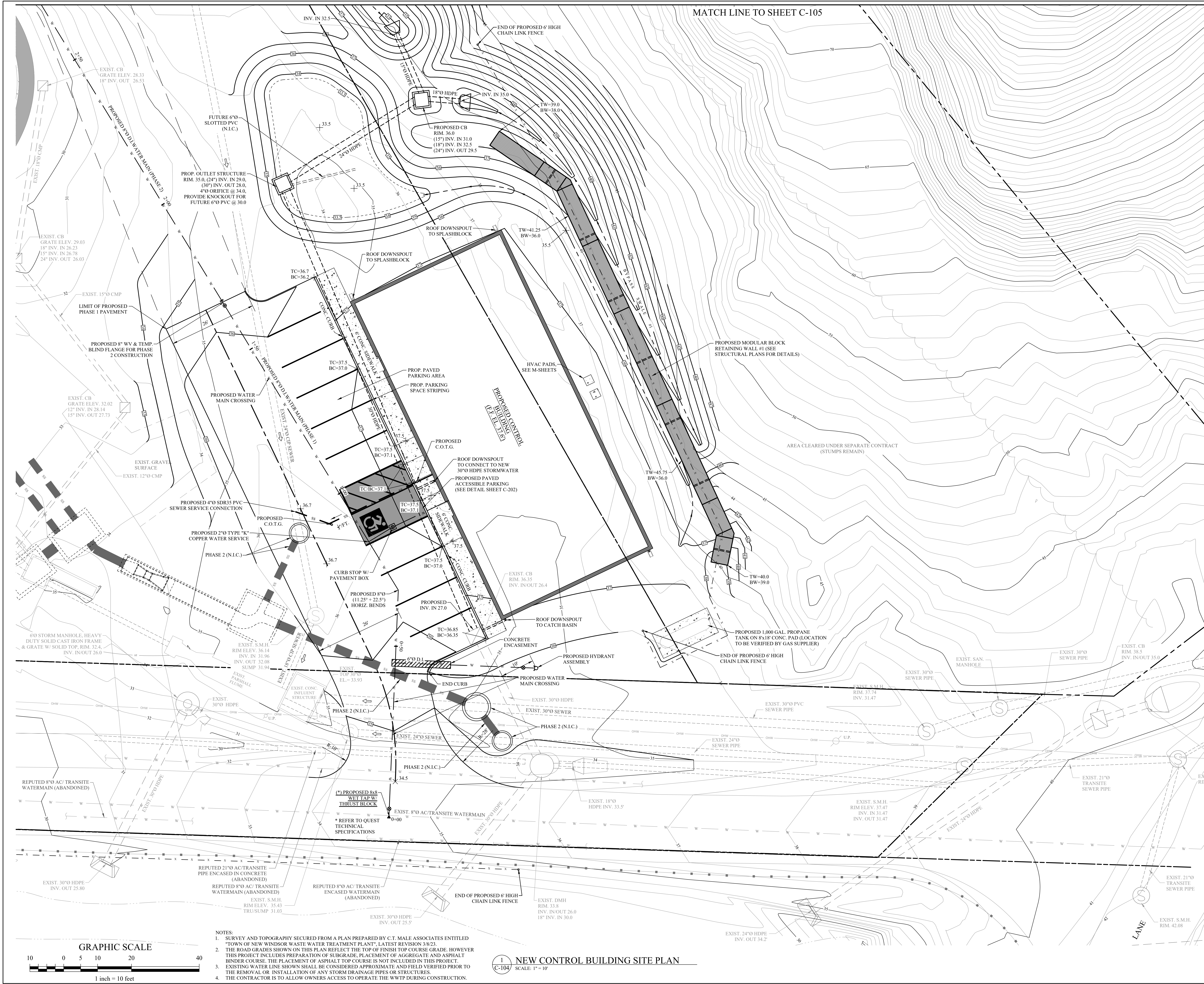
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PROJECT # 18-732	PHASE # 1
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1 NEW WORK AREA DEMOLITION PLAN
C-103 SCALE: 1" = 10'

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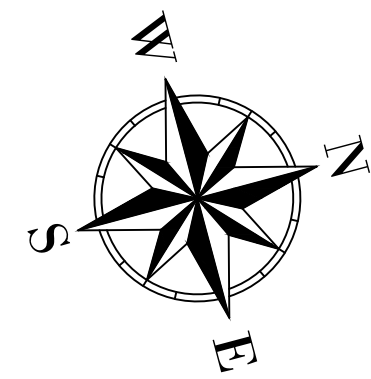
- NOTES:
1. SURVEY AND TOPOGRAPHY SECURED FROM A PLAN PREPARED BY C.T. MALE ASSOCIATES ENTITLED "TOWN OF NEW WINDSOR WASTE WATER TREATMENT PLANT", LATEST REVISION 3/8/23.
 2. THE ROAD GRADES SHOWN ON THIS PLAN REFLECT THE TOP OF FINISH TOP COURSE GRADE. HOWEVER THIS PROJECT INCLUDES PREPARATION OF SUBGRADE, PLACEMENT OF AGGREGATE AND ASPHALT BINDER COURSE. THE PLACEMENT OF ASPHALT TOP COURSE IS NOT INCLUDED IN THIS PROJECT.
 3. EXISTING WATER LINE SHOWN SHALL BE CONSIDERED APPROXIMATE AND FIELD VERIFIED PRIOR TO THE REMOVAL OR INSTALLATION OF ANY STORM DRAINAGE PIPES OR STRUCTURES.
 4. THE CONTRACTOR IS TO ALLOW OWNERS ACCESS TO OPERATE THE WWTP DURING CONSTRUCTION.

1 C-104 NEW CONTROL BUILDING SITE PLAN
SCALE: 1" = 10'

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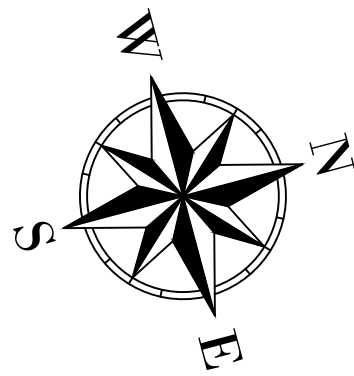
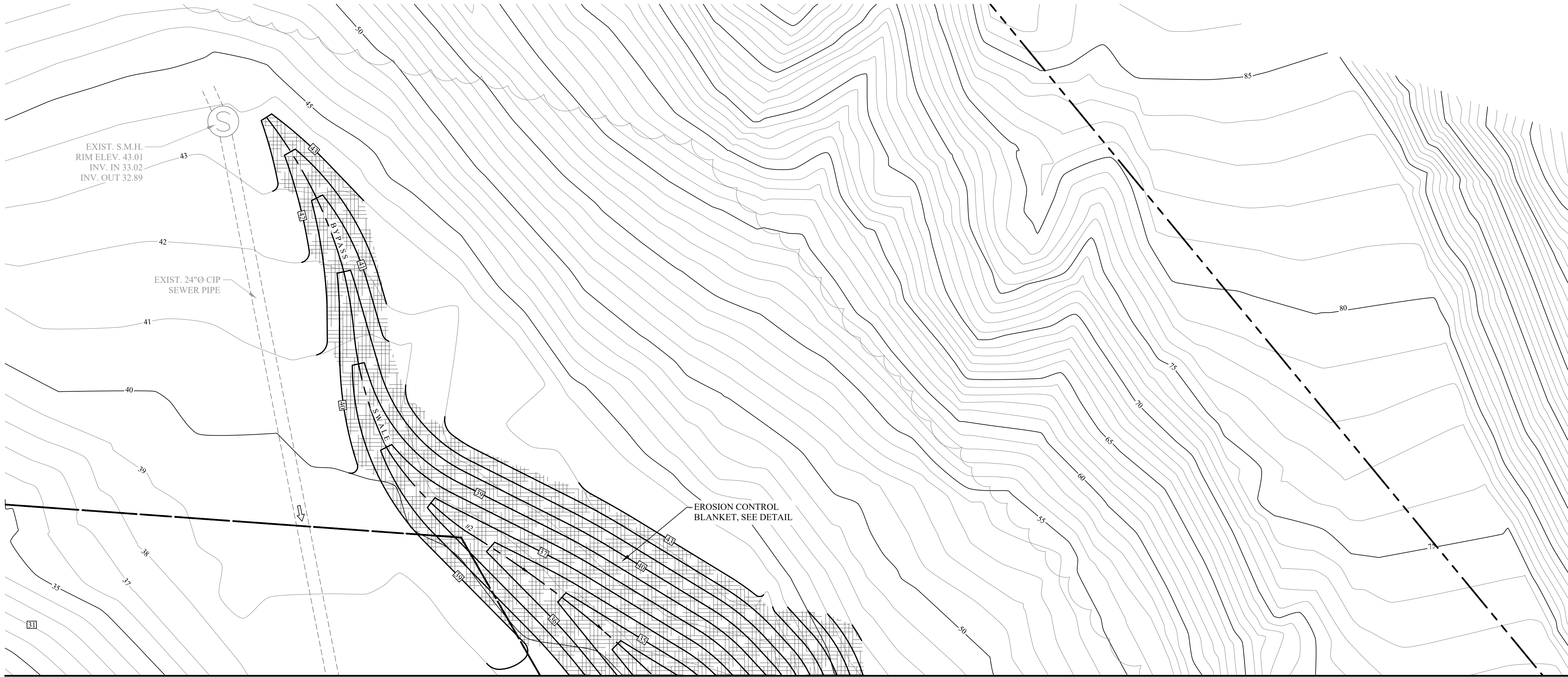
CAESARS LANE WWTP EXPANSION PROJECT: PHASE 1
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NEW CONTROL BUILDING SITE PLAN SHEET 1 OF 2

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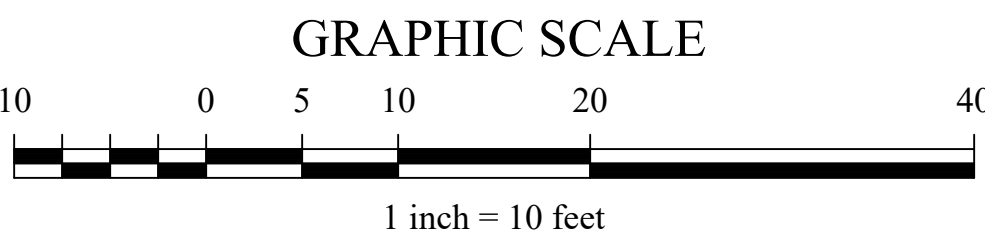
C-104

PROJECT # 18-732 PHASE # 1



1
C-105
NEW CONTROL BUILDING SITE PLAN
SCALE: 1" = 10'

MATCH LINE TO SHEET C-104 & C-106



- NOTES:
1. SURVEY AND TOPOGRAPHY SECURED FROM A PLAN PREPARED BY C.T. MALE ASSOCIATES ENTITLED "TOWN OF NEW WINDSOR WASTE WATER TREATMENT PLANT", LATEST REVISION 3/8/23.
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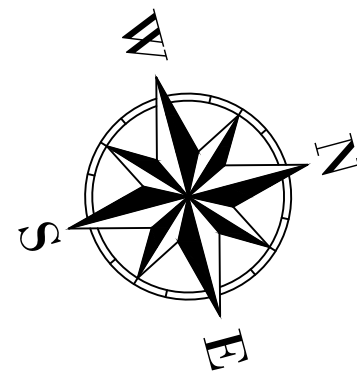
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**NEW CONTROL
BUILDING SITE PLAN
SHEET 2 OF 2**

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C-105
PROJECT # 18-732 PHASE # 1



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FOR TOWN OF NEW WINDSOR
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**EXISTING CONTROL
BUILDING SITE PLAN**

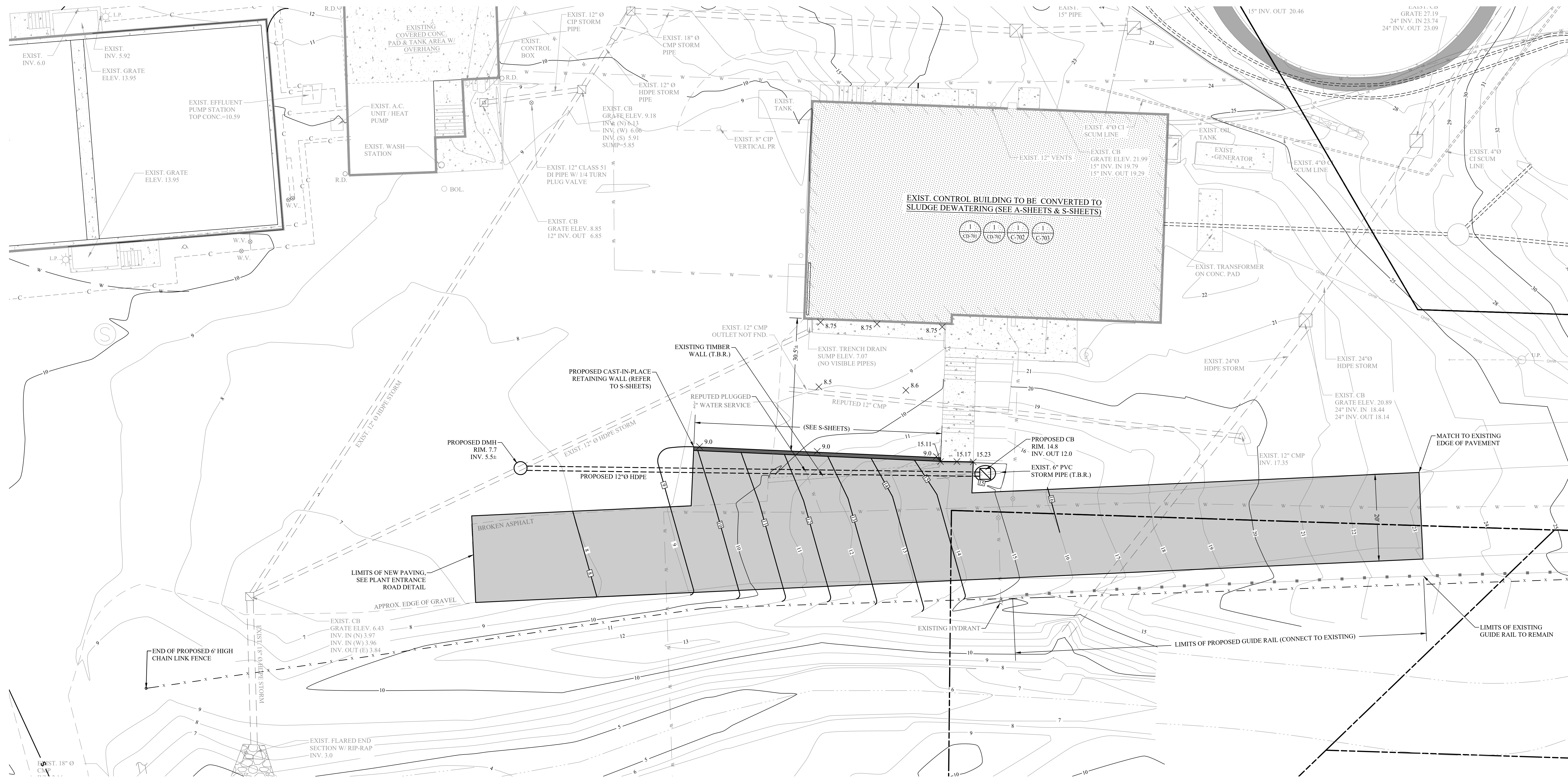
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CHECKED BY:	MWW
REVIEWED BY:	MDL

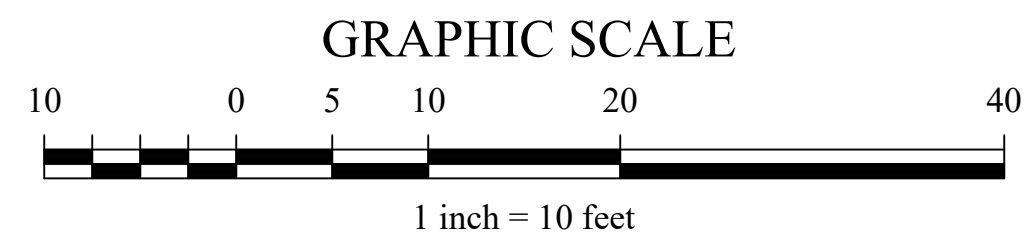
SHEET NO.

C-107

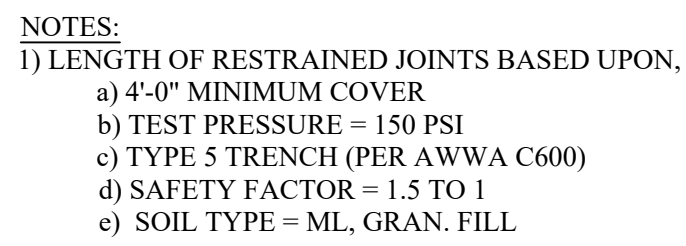
PROJECT # 18-732 PHASE # 1



EXISTING CONTROL BUILDING SITE PLAN
SCALE: 1" = 10'



- NOTES:
1. SURVEY AND TOPOGRAPHY SECURED FROM A PLAN PREPARED BY C.T. MALE ASSOCIATES ENTITLED "TOWN OF NEW WINDSOR WASTE WATER TREATMENT PLANT", LATEST REVISION 3/8/23.
 2. THE ROAD GRADES SHOWN ON THIS PLAN REFLECT THE TOP OF FINISH TOP COURSE GRADE. HOWEVER THIS PROJECT INCLUDES PREPARATION OF SUBGRADE, PLACEMENT OF AGGREGATE AND ASPHALT BINDER COURSE. THE PLACEMENT OF ASPHALT TOP COURSE IS NOT INCLUDED IN THIS PROJECT.
 3. EXISTING WATER LINE SHOWN SHALL BE CONSIDERED APPROXIMATE AND FIELD VERIFIED PRIOR TO THE REMOVAL OR INSTALLATION OF ANY STORM DRAINAGE PIPES OR STRUCTURES.
 4. THE CONTRACTOR IS TO ALLOW OWNERS ACCESS TO OPERATE THE WWTP DURING CONSTRUCTION.



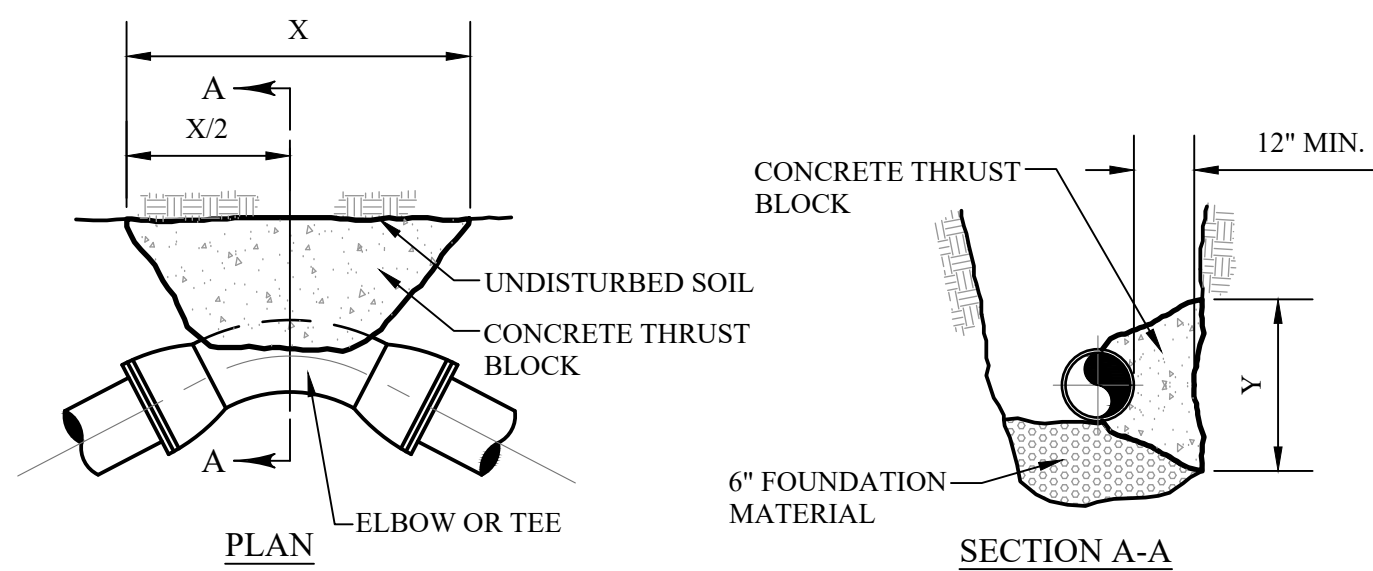
WATER MAIN RESTRAINED JOINT TABLE (D.I. PIPE)						
MINIMUM RESTRAINED JOINT LENGTH IN LINEAR FT (L)						
FITTING:	PIPE DIAMETER					
	6"	8"	10"	12"	16"	24"
DEAD ENDS	2'-0"	3'-0"	4'-5"	5'-3"	6'-8"	9'-7"
TEES (SEE NOTE 4)	1'-9"	1'-10"	5'-0"	13'-0"	28'-0"	55'-0"
90 DEG. BEND	13'-0"	17'-0"	20'-0"	23'-0"	29'-0"	41'-0"
45 DEG. BEND	6'-0"	7'-0"	8'-0"	10'-0"	12'-0"	17'-0"
22½ DEG. BEND	3'-0"	4'-0"	4'-0"	5'-0"	6'-0"	9'-0"
1½ DEG. BEND	2 FT	2 FT	2 FT	3 FT	3 FT	4'-0"
VERTICAL BENDS	3' 1"	4' 2"	5' 2"	6' 2"	7' 2"	10' 3"
REDUCER	24"x12"					72'-0"
REDUCER	12"x8"					28'-0"

NOTES:

- 1) LENGTH OF RESTRAINED JOINTS BASED UPON,
 - a) 4'-0" MINIMUM COVER
 - b) TEST PRESSURE = 150 PSI
 - c) TYPE 3 TRENCH (PER AWWA C600)
 - d) SAFETY FACTOR = 1.5 TO 1
 - e) SOIL TYPE = ML, GRAN. FILL
- 2) ALL REQUIRED JOINT RESTRAINT SHALL BE MEGALUG RETAINING GLANDS AS MANUFACTURED BY EBAA IRON, OR APPROVED EQUAL.
- 3) CALCULATIONS WERE BASED ON DUCTILE IRON RESTRAINT LENGTH CALCULATOR FROM EBAA IRON FOR DUCTILE IRON PIPE.
- 4) TABLE CALCULATIONS FOR THE "TEE" ARE BASED ON A MINIMUM "L/T" LENGTH (TO THE NEXT JOINT) OF 10 FEET. IF "L/T" LENGTH IS LESS THAN 10 FEET, THE LENGTH OF "L" WITH RESTRAINED JOINTS MUST BE INCREASED.
- 5) TABLE CALCULATIONS FOR "VERTICAL BENDS" ARE BASED ON LOW SIDE DEPTH OF 6' AND 45 DEGREE BENDS. IF LOW SIDE DEPTH OR TYPE OF BEND CHANGES THE LENGTH OF VERTICAL BEND (L1) & (L2) MUST BE ADJUSTED PER DESIGN ENGINEER.

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C-201

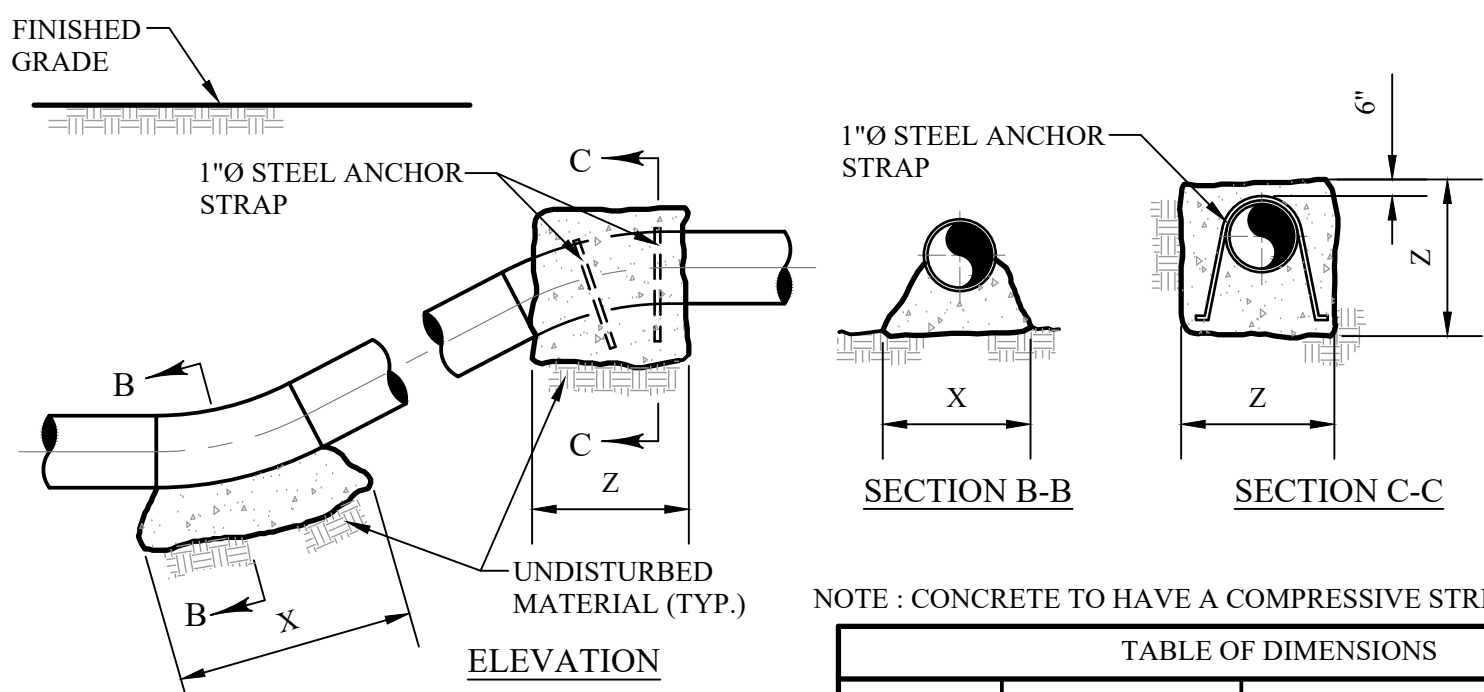
TYPICAL WATER RESTRAINED JOINT DETAIL
SCALE: N.T.S.



NOTE: CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.

PIPE SIZE (BRANCH OF TEE)	90° BEND		45° BEND		22 1/2° BEND		TEE & PLUG	
	X	Y	X	Y	X	Y	X	Y
(ϕ OR = TO ϕ)	30"	24"	24"	18"	18"	12"	27"	21"
8"	42"	30"	30"	24"	24"	18"	36"	27"
12"	66"	42"	45"	33"	33"	24"	48"	42"
16"	84"	48"	51"	39"	39"	30"	60"	48"
24"	102"	75"	78"	60"	60"	39"	108"	108"
30"	136"	84"	97"	64"	71"	44"	112"	120"

HORIZONTAL BEND THRUST BLOCK DETAIL

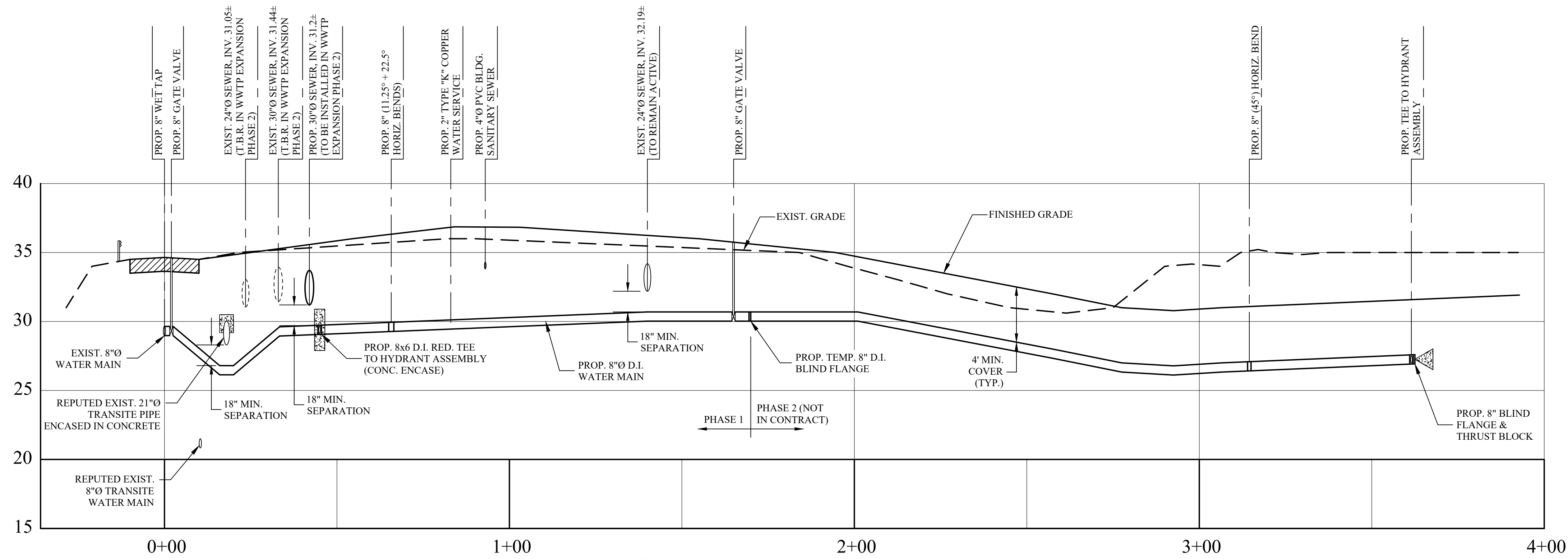


NOTE : CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.

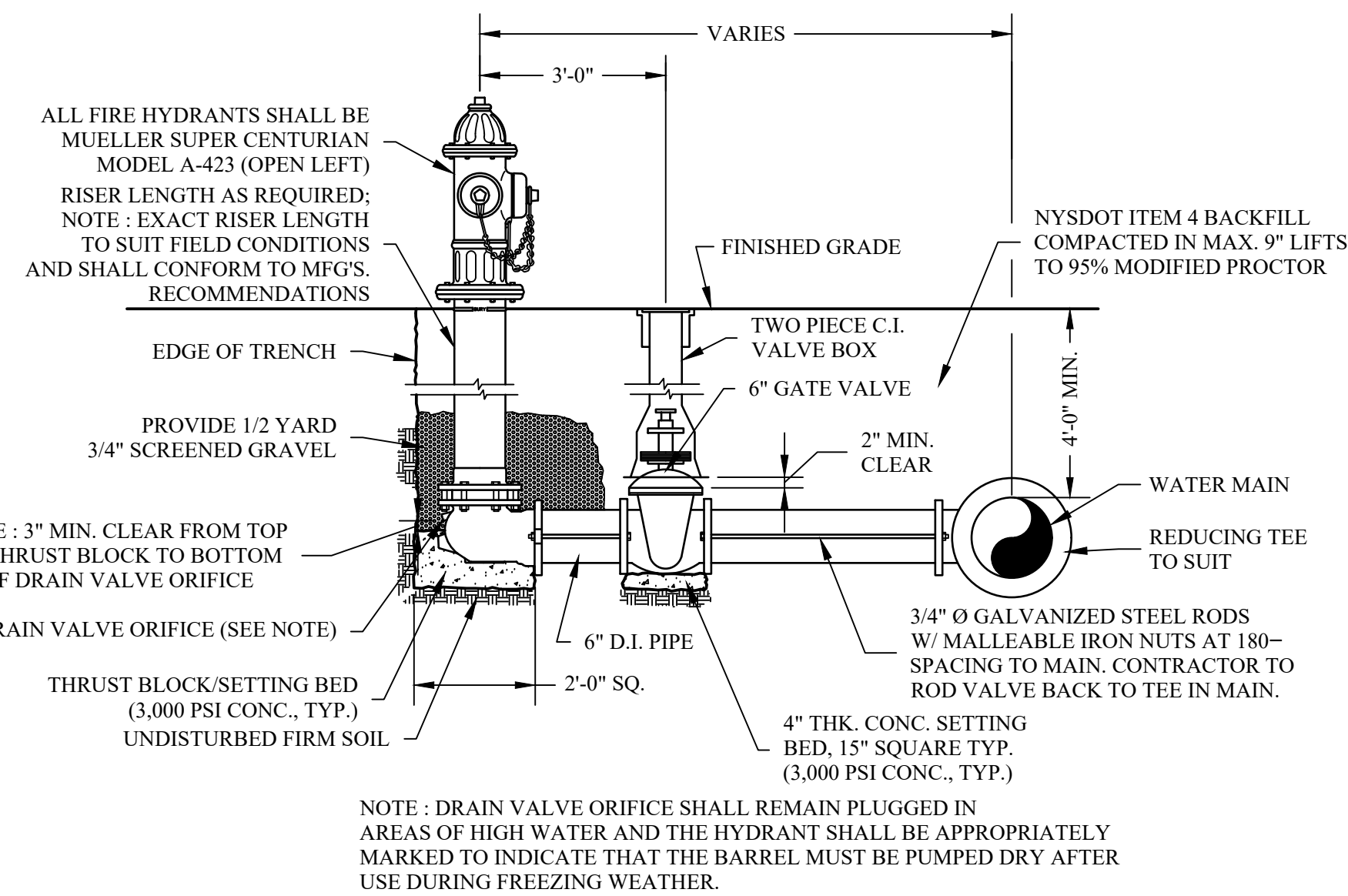
PIPE SIZE (C=OR = TO C)	90° BEND			45° BEND			22 1/2° BEND		
	X	Y	Z	X	Y	Z	X	Y	Z
8"	30"	24"	48"	24"	18"	39"	18"	12"	33"
12"	46"	30"	60"	30"	24"	48"	24"	18"	39"
16"	66"	42"	75"	45"	33"	60"	33"	24"	51"
20"	84"	48"	97"	51"	39"	75"	39"	30"	62"
24"	102"	75"	120"	78"	60"	90"	60"	39"	72"
30"	136"	84"	120"	97"	64"	96"	71"	44"	86"

VERTICAL BEND THRUST BLOCK DETAIL

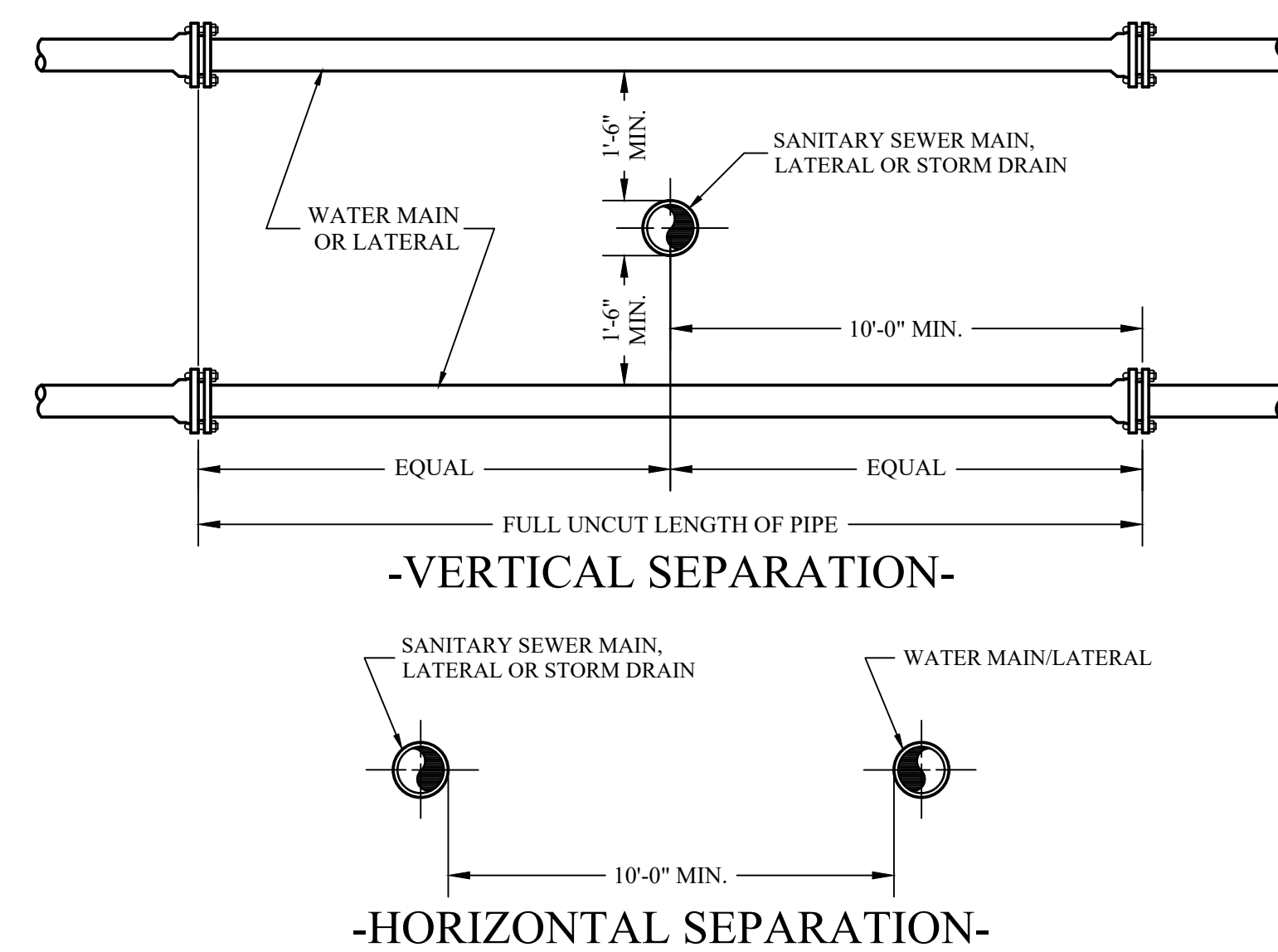
2 TYPICAL THRUST BLOCK DETAILS
C-201 SCALE: N.T.S.



3 WATER MAIN PROFILE
C-201 SCALE: HORIZ. 1"=20'/VERT. 1"=5'

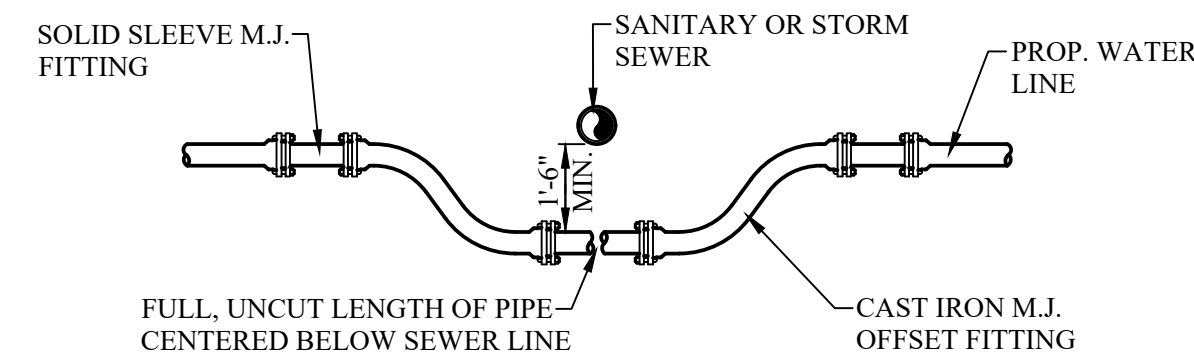


4 HYDRANT ASSEMBLY DETAIL
C-201 SCALE: N.T.S.



6
C-201

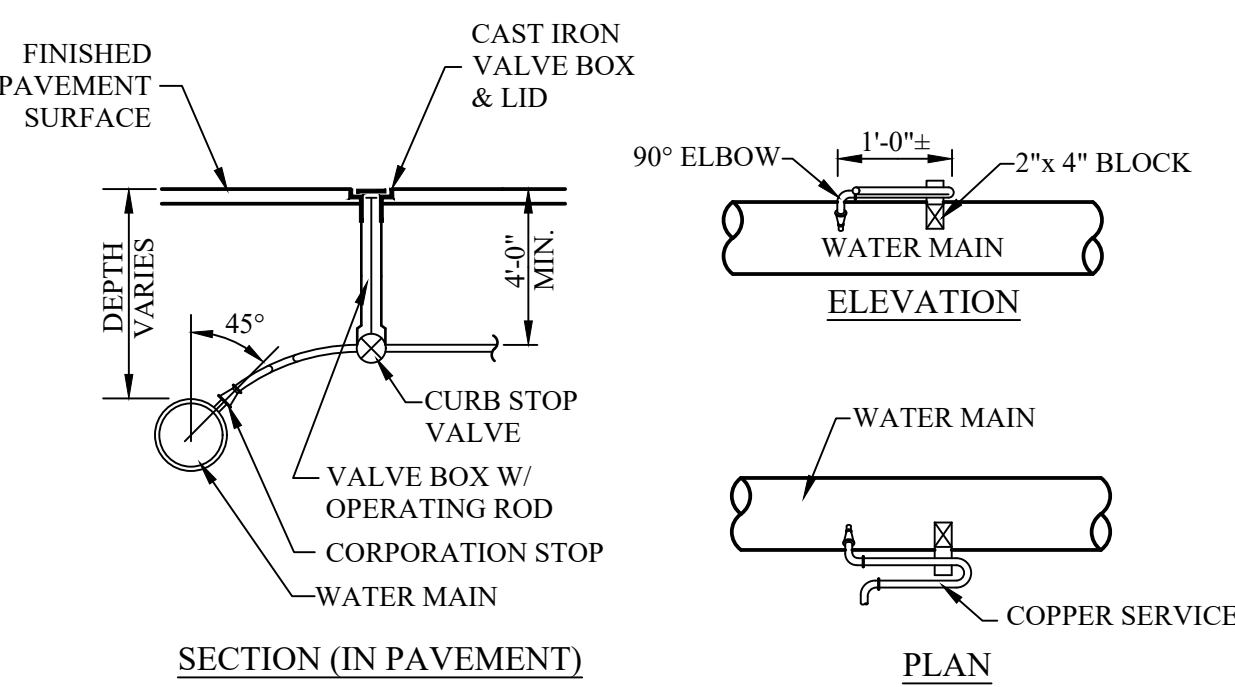
SANITARY SEWER/WATER MAIN SEPARATION DETAIL
SCALE: N.T.S.



NOTES:

1. WATER LINE OFFSET TO BE USED ONLY WHERE SEWER INTERFERENCE IS UNAVOIDABLE.
2. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM WATER MAIN JOINTS.
3. FLOWABLE FILL TO BE UTILIZED AS BACKFILL FOR WATER MAIN OFFSET FROM BEDDING OF WATER MAIN TO SPRING LINE OF SEWER.

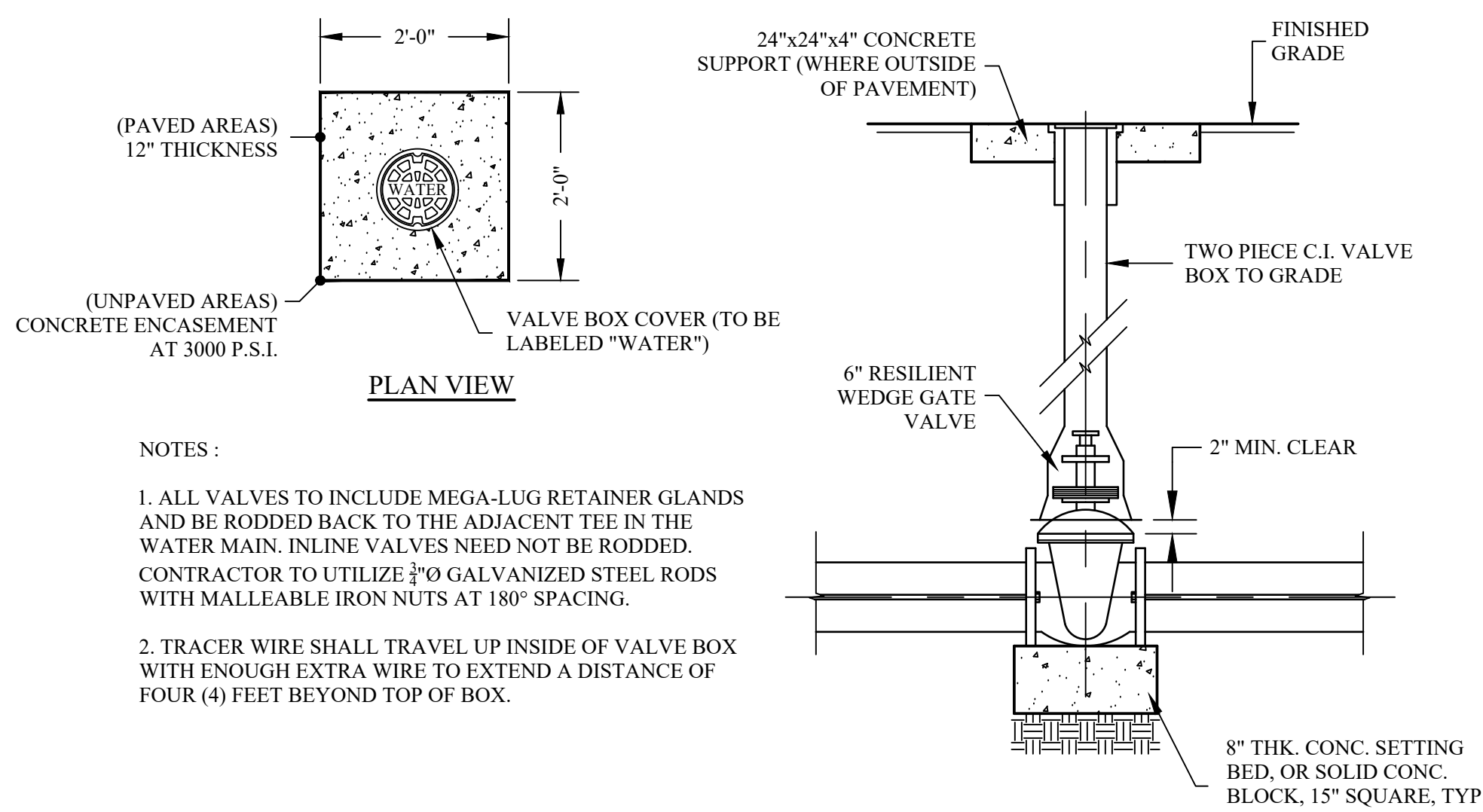
9 TYPICAL WATERLINE OFFSET DETAIL
C-201 SCALE: N.T.S.



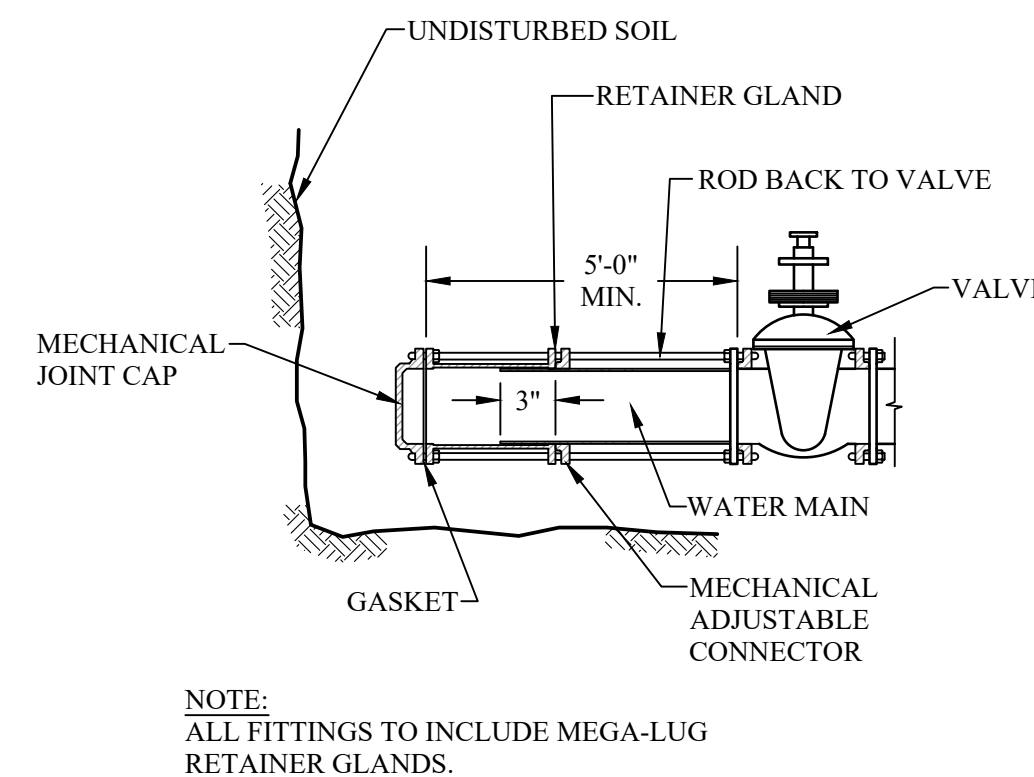
10
C-201

TYPICAL WATER SERVICE DETAILS

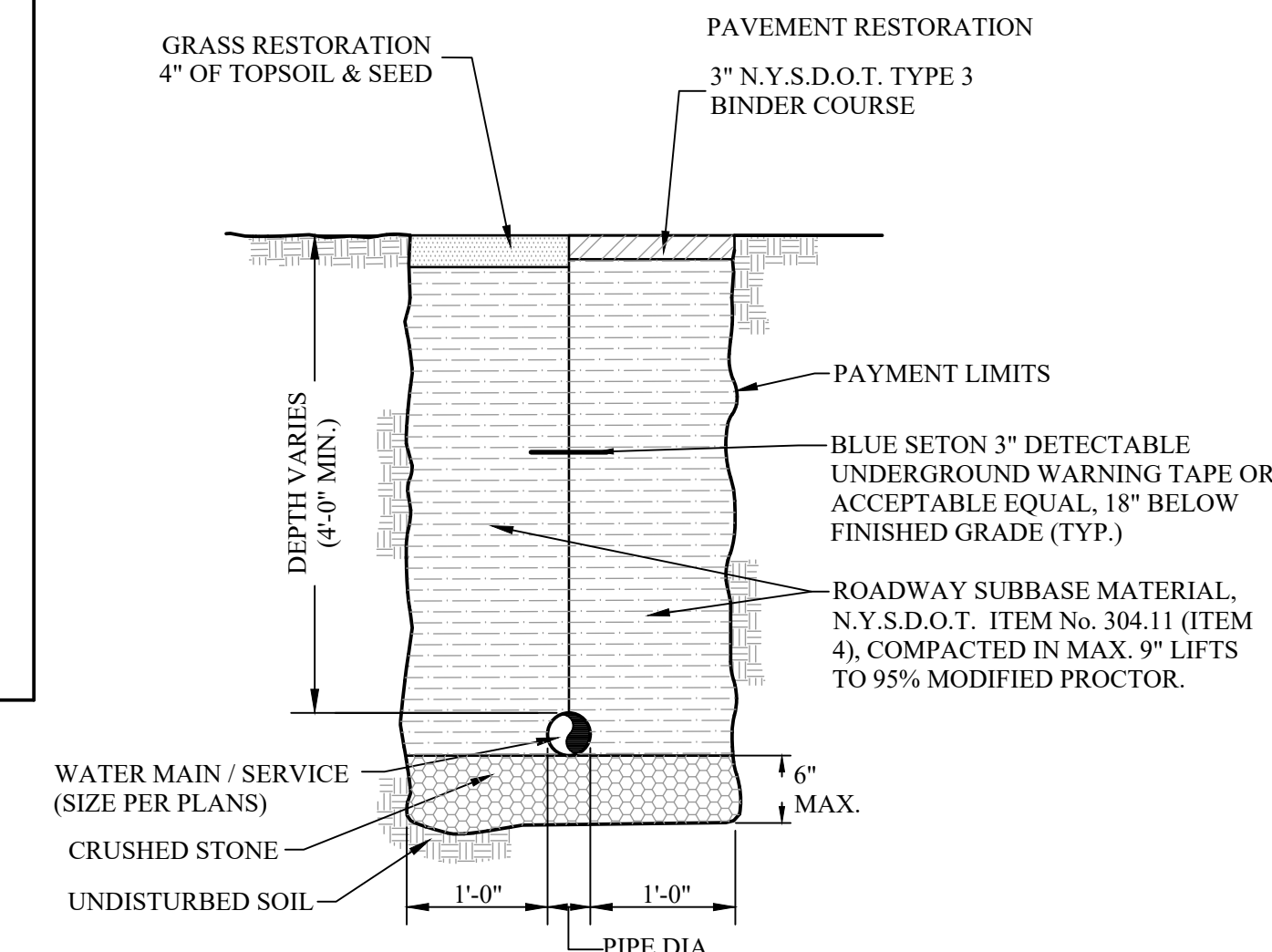
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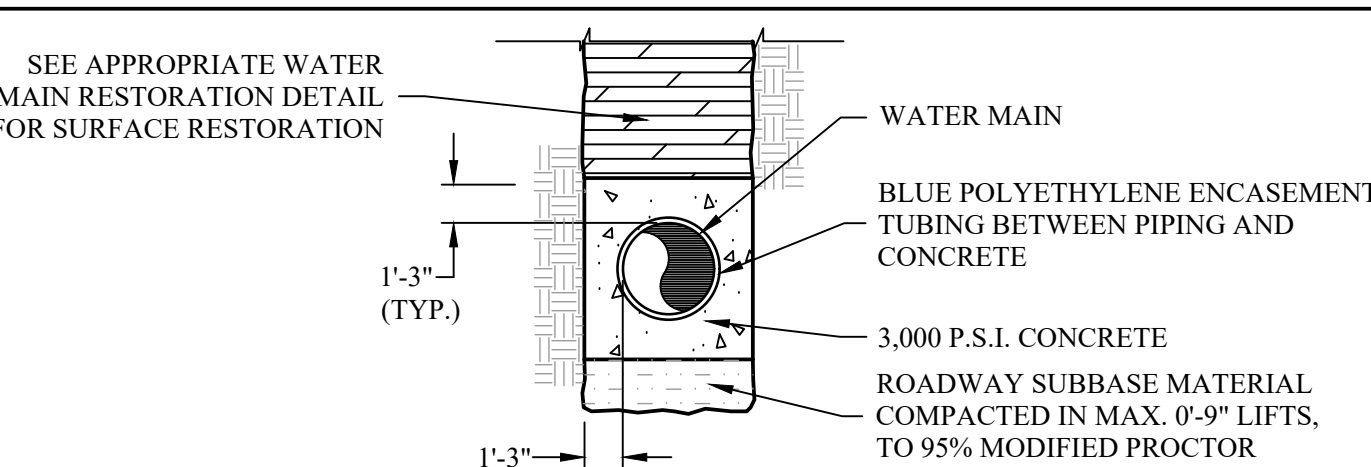
7 TYPICAL WATER VALVE DETAIL
C-201 SCALE: N.T.S.



8 TYPICAL BLIND FLANGE DETAIL
C-201 SCALE: N.T.S.

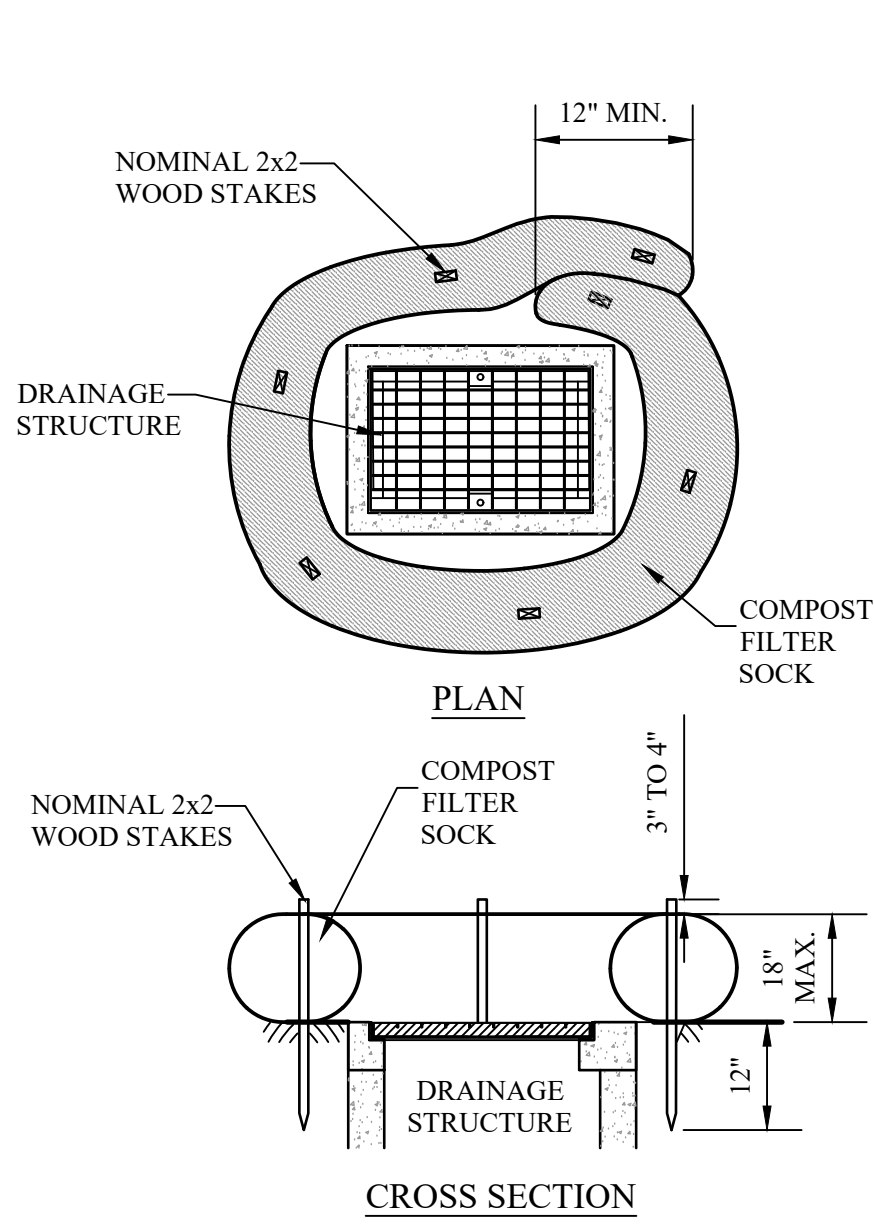


11 TYPICAL WATER MAIN/SERVICE TRENCH DETAIL
C-201 SCALE: N.T.S.

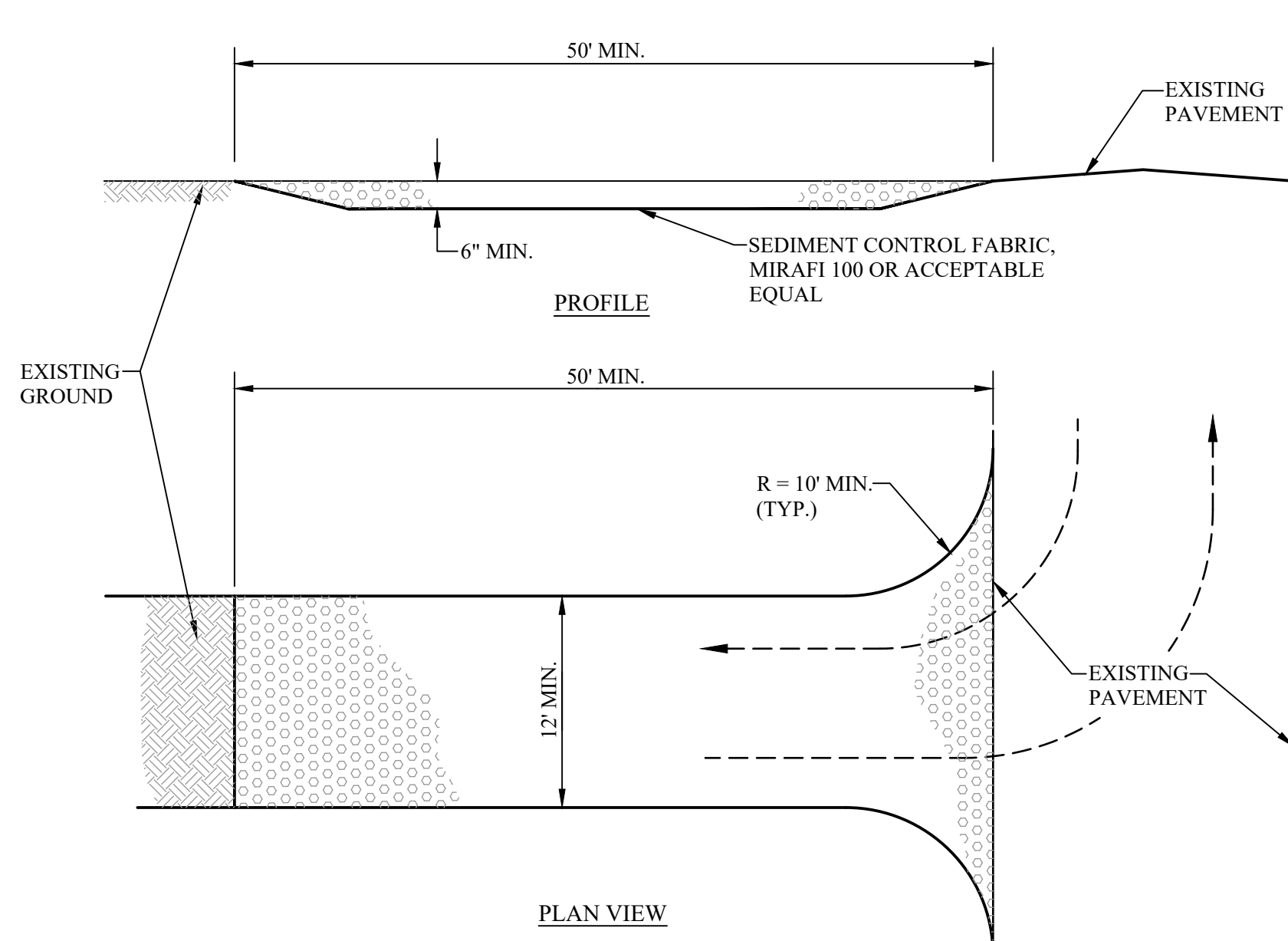


12 TYPICAL WATER MAIN ENCASEMENT DETAIL
C-201 SCALE: N.T.S.

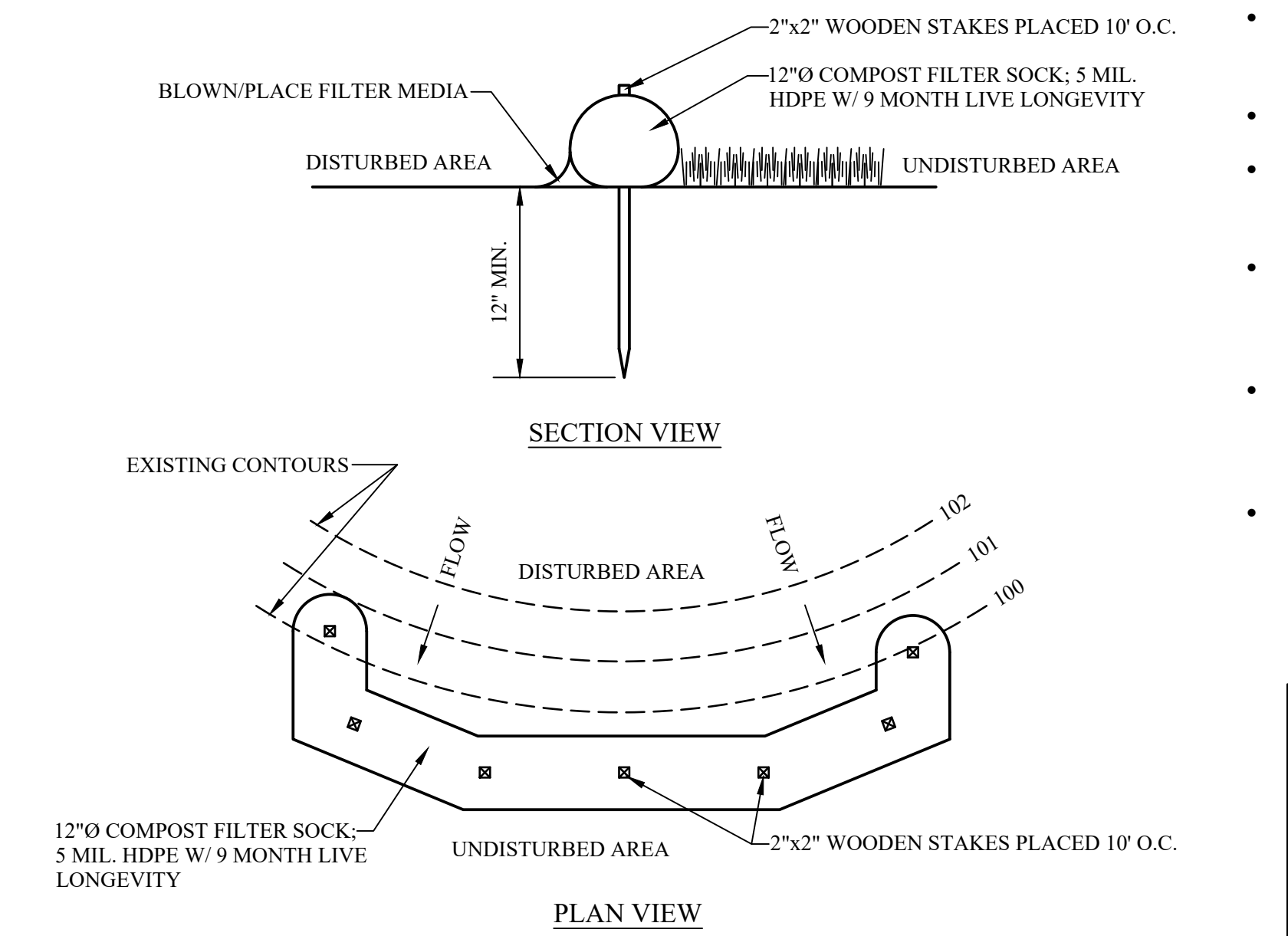
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TYPICAL INLET PROTECTION DETAIL
1
C-204
SCALE: N.T.S.



2 STABILIZED CONSTRUCTION ENTRANCE DETAIL
C-204
SCALE: N.T.S.

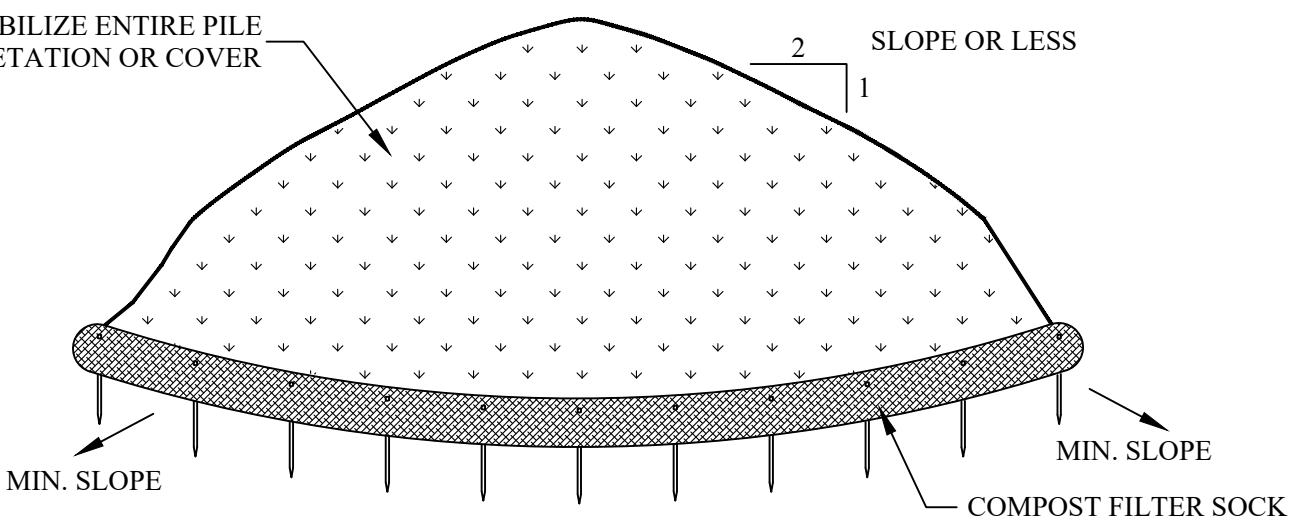


4 COMPOST FILTER SOCK DETAIL
C-204
SCALE: N.T.S.

- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (SEE DETAIL).
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE ON THE PLAN.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, THE STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	6.0-8.0
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	100% PASS 1" SCREEN AND 10.50% PASS THE 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 AS MAXIMUM

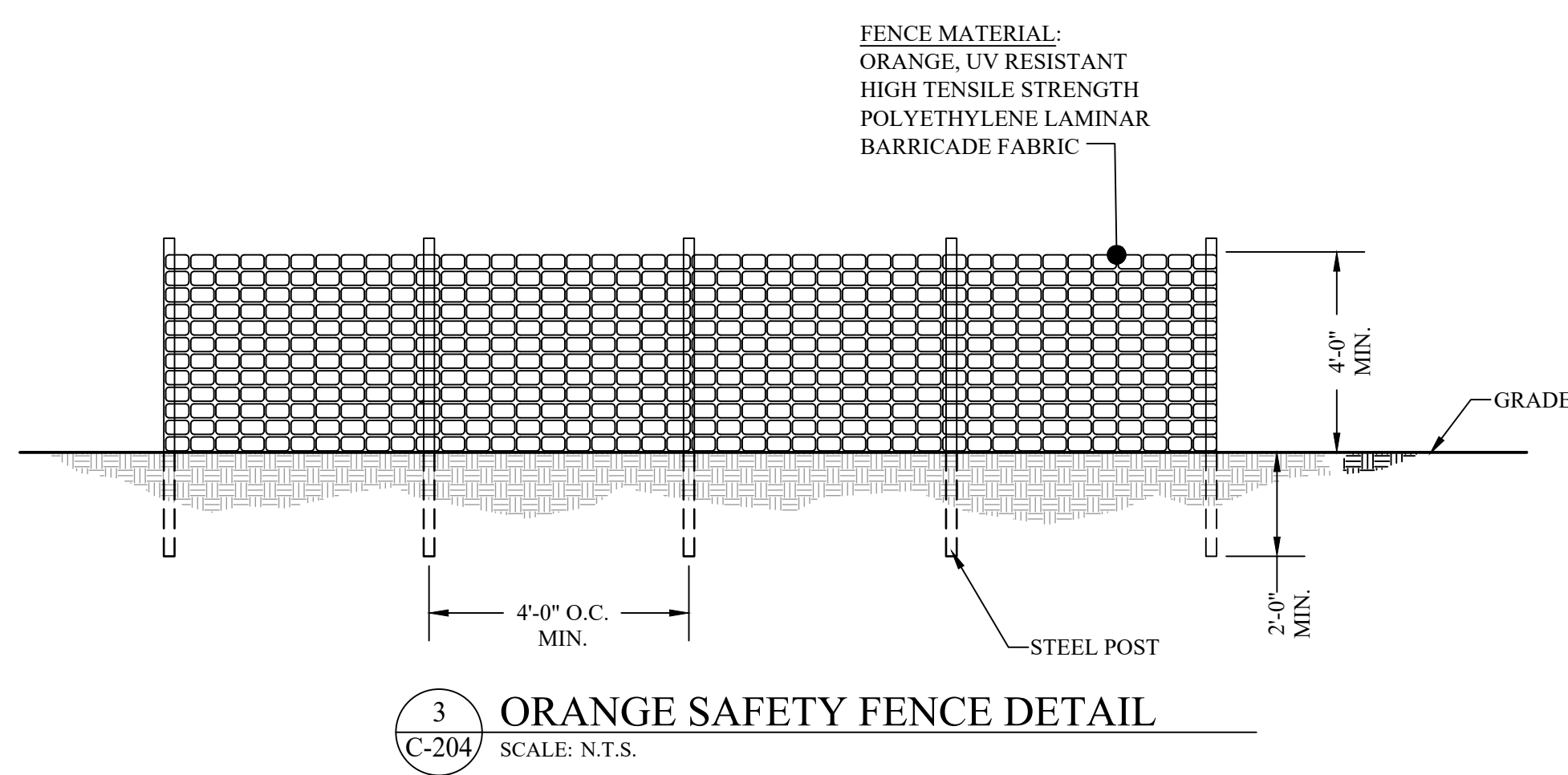


- NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER COMPOST FILTER SOCK OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 4. SEE DETAILS FOR INSTALLATION OF COMPOST FILTER SOCK.

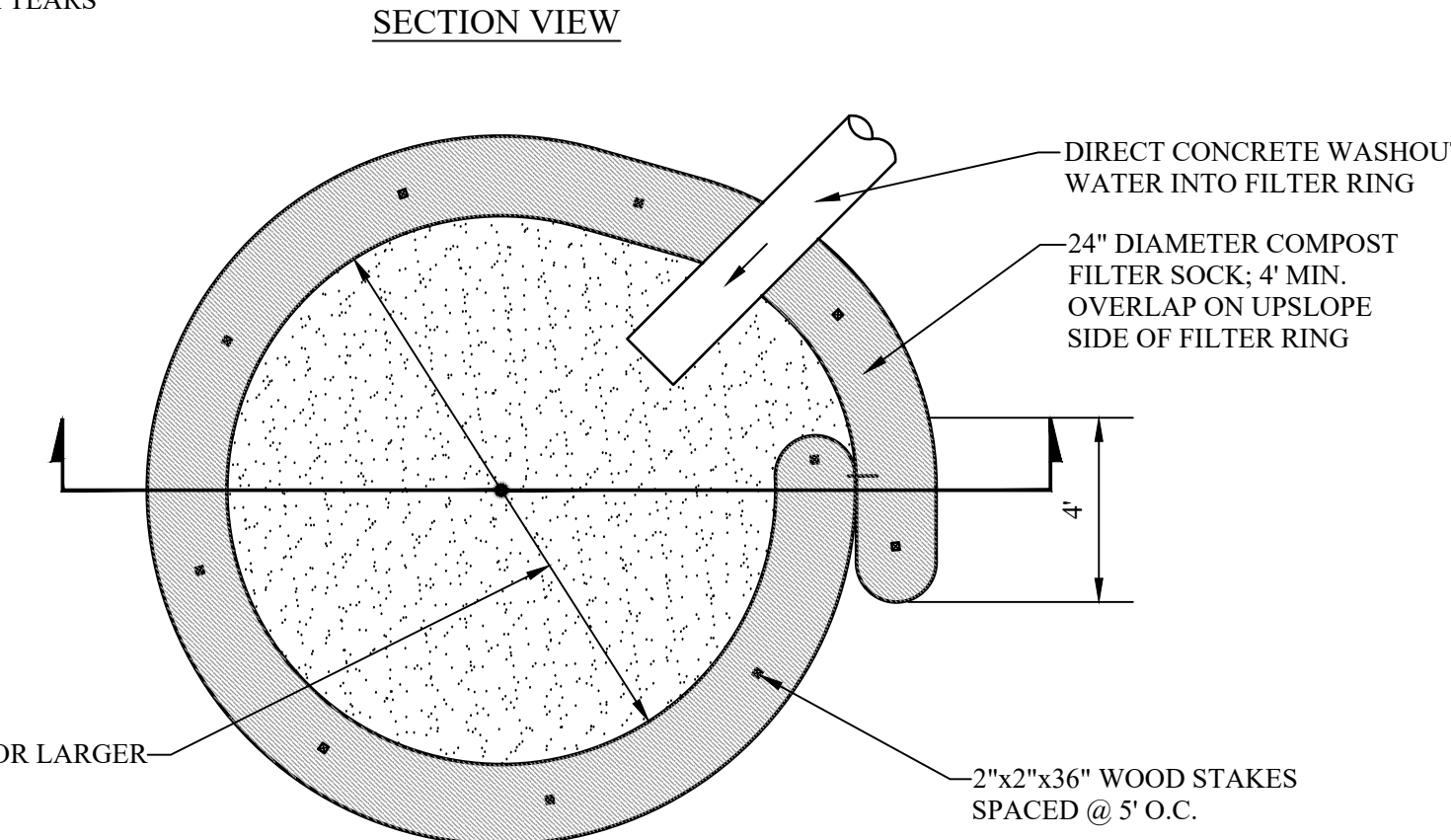
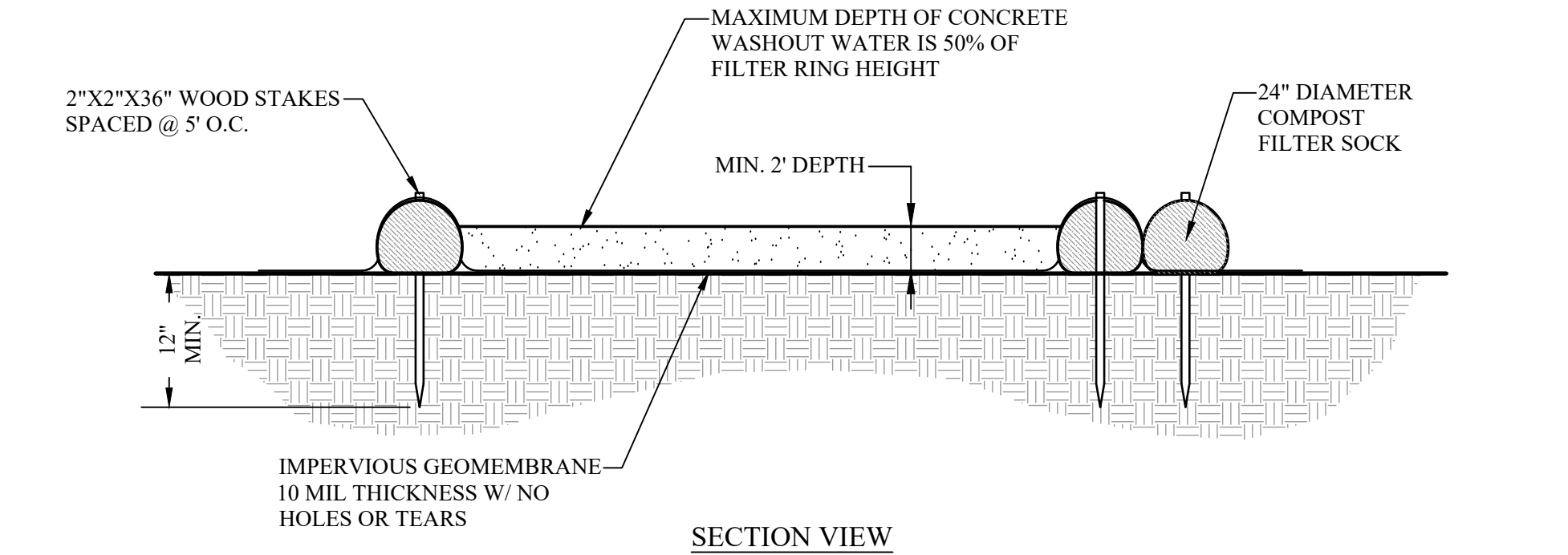
6 TEMPORARY STOCKPILE DETAIL
C-204
SCALE: N.T.S.

SEEDING AND MULCHING SPECIFICATIONS:

TEMPORARY STABILIZATION:			PERMANENT STABILIZATION (UNPAVED AREAS)		
SEEDING MIXTURE	RATE (LBS./ACRE)	(LBS./1,000 SQ. FT.)	SEEDING MIXTURE	% BY WEIGHT	(LBS./1,000 SQ. FT.)
ANNUAL RYE GRASS	40	1.0	PERENNIAL RYE GRASS	20%	0.8
MULCH			KENTUCKY BLUEGRASS	80%	3.2
TYPE	RATE (TONS/ACRE)		TOTAL = 4.0 LBS./1,000 SQ. FT.		
HAY OR STRAW	3.0				
SOIL PREPARATION			SOIL PREPARATION		
SOIL AMENDMENT	RATE	(LBS./1,000 SQ. FT.)	SOIL AMENDMENT	RATE	(LBS./1,000 SQ. FT.)
AGRICULTURAL GRADE LIMESTONE	1.0 TONS/ACRE	46	AGRICULTURAL GRADE LIMESTONE	6.0 TONS/ACRE	275
PLUS			PLUS		
10-20-10 FERTILIZER	50 LBS./ACRE	2	10-20-10 FERTILIZER	1,000 LBS./ACRE	20

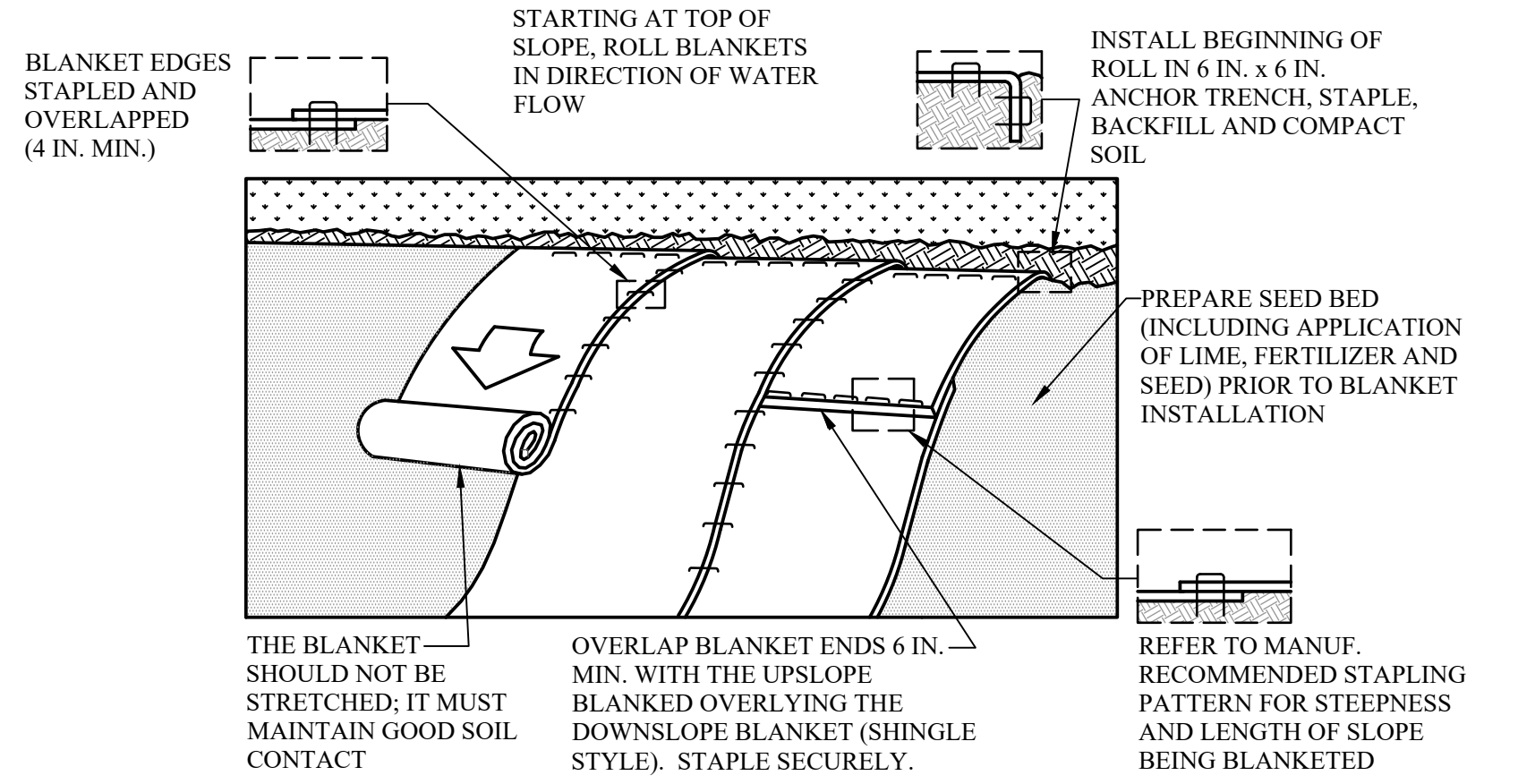


3 ORANGE SAFETY FENCE DETAIL
C-204
SCALE: N.T.S.



- NOTES:
1. CONCRETE WASHOUTS (CW) SHOULD BE LOCATED A MINIMUM OF 100' FROM DRAINAGE SWALES, STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH CW SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
 2. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 3. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
 4. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
 5. ALL CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY. DAMAGED, LEAKING OR 75% FULL FACILITIES SHALL BE REPLACED.
 6. WHEN THE CW(S) ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED.

5 PUMPED CONCRETE WASHOUT DETAIL
C-204
SCALE: N.T.S.



- NOTES:
1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
 2. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
 3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
 4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
 5. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

7 EROSION CONTROL BLANKET INSTALLATION
C-204
SCALE: N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. THIS PLAN MUST BE USED IN CONJUNCTION WITH THE COMPLETE PROJECT SITE PLAN SET.
2. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL FACILITIES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. FACILITIES SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT, BUT NOT LESS THAN ONCE A WEEK, AND IMMEDIATELY RESTORED WHERE NECESSARY.
- a) Disturbed areas are to be re-seeded, if necessary.
- b) Compost filter socks are to be cleaned, re-filled or replaced as necessary.
3. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. DURING PERIODS OF NON-GERMINATION, MULCH WILL BE APPLIED IN ACCORDANCE WITH THE RATES.
4. ALL SEDIMENT REMOVED FROM BMPs SHALL BE PLACED IN THE SEDIMENT STOCKPILE AREA(S) SHOWN ON THE PLAN.
5. CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL DURING CONSTRUCTION.
6. EROSION CONTROLS MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS.
7. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
8. INITIATE EARTHMOVING ACTIVITIES FOR SITE DEVELOPMENT. ANY UNSUITABLE MATERIAL IS TO BE REMOVED FROM THE PROJECT SITE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EROSION AND SEDIMENTATION CONTROL MEASURES AT ANY OFF-SITE SPOIL AREAS. PLACE AND COMPACT MATERIAL IN AREAS OF FILL TO OBTAIN NECESSARY GRADES.
9. PIPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF PIPE/UTILITY LINE THAT CAN BE PLACED IN THE TRENCH AND BACKFILLED IN ONE WORKING DAY. SOIL SUPPLEMENTS, SEED AND MULCH SHOULD BE APPLIED IMMEDIATELY AFTER THE PIPELINE/UTILITY LINE IS INSTALLED. ALL TRENCHES SHOULD BE BACKFILLED AND TEMPORARILY STABILIZED AT THE END OF EACH DAY.
10. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE TOWN OF NEW WINDSOR, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
11. BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS THAT MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE TOWN OF NEW WINDSOR.
12. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION
13. DUE DILIGENCE IS TO BE PERFORMED BY THE CONTRACTOR FOR ANY IMPORTED TOPSOIL FILL MATERIAL TO ENSURE ONLY CLEAN FILL IS BROUGHT ONSITE.
14. ALL DISTURBED AREAS WILL BE RESTORED IN ACCORDANCE WITH THE SOIL RESTORATION REQUIREMENTS IN TABLE 5.3 OF THE DESIGN MANUAL.
17. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE APPLICABLE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WATER QUALITY CERTIFICATION PROGRAM.
18. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE STREAMS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE, LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
19. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS.
20. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
21. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY REENTER ANY WATER BODY OR WETLAND AREA.
22. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE SEEDED WITH PERENNIAL GRASS SEED AND MULCHED WITH HAY OR STRAW WITHIN ONE (1) WEEK OF FINAL GRADING. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, TEMPORARY GRADING SHALL ALSO BE SEEDED AND MULCHED. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED.
23. PERIODIC CLEANING OF TEMPORARY SOIL EROSION AND POLLUTION CONTROL DEVICES MAY BE NECESSARY AS REQUESTED BY THE PROJECT ENGINEER.
24. IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. LOCATION AND DESIGN TO BE APPROVED BY THE PROJECT ENGINEER. IF DEWATERING IS DISCHARGED TO THE TOWN'S STORM DRAINAGE SYSTEM IT MUST BE FREE OF EXCESS SEDIMENTS.
25. HAY/BALLES HAVE A LIMITED LIFE EXPECTANCY AND SHALL BE REPLACED IN LOCATIONS WHERE THEY HAVE BEEN IN USE FOR EXTENDED PERIODS AS DIRECTED BY THE PROJECT ENGINEER.
26. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERCOURSES.
27. EROSION CONTROL MEASURES SHALL BE DEEMED INCLUDED UNDER THE BID ITEMS OF THE PROPOSAL. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

CONSTRUCTION SEQUENCE:

1. SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING WITH CONTRACTORS, PROJECT ENGINEER AND TOWN OF NEW WINDSOR REPRESENTATIVES AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
2. INSTALL STABILIZED SITE CONSTRUCTION ENTRANCE.
3. INSTALL FILTER SOCKS IN ACCORDANCE WITH THE PLANS AND DETAILS.
4. INSTALL UTILITY LINES AND STABILIZE SURFACE AS SOON AS CONSTRUCTION ALLOWS.
5. INSTALL INLET PROTECTION.
6. BUILDING CONSTRUCTION:
 - Excavate for Building foundation. Excavated material to be stockpiled per the E&S Plan.
 - Pour concrete foundation and slabs, backfill.
 - Excavate and install Precast Retaining Wall.
 - Prepare finish grade around perimeter of building. Stabilize immediately with mulch until building is constructed.
 - Upon completion of building exterior construction, construct permanent site stabilization including jute mesh, topsoil, seed, mulch and fertilizer.
 - Protect Infiltration areas from compaction and sedimentation. Infiltration areas are to be protected from run-off during construction. No run-off should enter the infiltration areas until the site has been stabilized with grass.
7. EXCAVATE STORMWATER PIPE TRENCHES AND INSTALL STORMWATER OUTLET PIPING. BACKFILL UPON COMPLETION OF PIPE INSTALLATION.
8. PAVE PARKING AREA AND ACCESS DRIVES IN ACCORDANCE WITH THE DETAILS.
9. FINAL GRADING AND APPLY TOPSOIL AS NECESSARY, SEED, FERTILIZER AND MULCH PER SPECIFICATIONS. APPLY JUTE MATTING (PARALLEL WITH FLOW) ON SLOPES AS SHOWN ON THE E&S PLANS TO FACILITATE SOIL STABILIZATION.
10. REMOVE FILTER SOCKS ONLY AFTER ENTIRE PHASE HAS BEEN STABILIZED, VEGETATED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIFIED HAS BEEN ACHIEVED, OR THE DISTURBED AREAS ARE COVERED WITH AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZE ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENT CONTROL BMPs THAT ARE NOT USED TO TREAT PROJECT RUN-OFF MAY NOT BE REMOVED. DURING PERIODS OF DROUGHT, IRRIGATION SHOULD BE UTILIZED UNTIL STABILIZATION HAS OCCURRED.



33 Airport Center Drive, Suite 202 111 Wheatfield Drive, Suite 1
New Windsor, NY 12553 Milford, PA 18337
(845) 567-3100 (870) 296-2765

BID SET

HAZARDOUS MATERIAL NOTE:
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CAESARS LANE WWTP EXPANSION PROJECT: PHASE I:
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

EROSION & SEDIMENT CONTROL NOTES AND DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE: 21 NOV, 2024
DESIGN BY: MJS
DRAWN BY: HPBj
CHECKED BY: MWV
REVIEWED BY: MJL
SHEET NO.

C-204

PROJECT # 18-732 PHASE # 1

FRONT APPROACHES - SWINGING DOORS

Diagram 1 (Left): PULL SIDE (Arrow pointing down) and PUSH SIDE (Arrow pointing down). Dimensions: 18" MIN. (top), 60" MIN. (left), 48" MIN. (right), X (width of door).
 Diagram 2 (Right): PULL SIDE (Arrow pointing left) and PUSH SIDE (Arrow pointing right). Dimensions: 24" MIN. (top), X (width of door), Y (height of door).
 NOTE: X=12" IF THE DOOR HAS BOTH A CLOSER AND A LATCH

LATCH-SIDE APPROACHES - SWINGING DOORS

Diagram 1 (Left): PULL SIDE (Arrow pointing left) and PUSH SIDE (Arrow pointing right). Dimensions: 48" MIN. (left), 24" MIN. (top), X (width of door), Y (height of door).
 Diagram 2 (Right): PULL SIDE (Arrow pointing left) and PUSH SIDE (Arrow pointing right). Dimensions: 42" MIN. (left), 24" MIN. (top), X (width of door), Y (height of door).
 NOTE: Y=54" MIN. IF THE DOOR HAS A CLOSER

HINGE-SIDE APPROACHES - SWINGING DOORS

Diagram 1 (Left): PULL SIDE (Arrow pointing left) and PUSH SIDE (Arrow pointing right). Dimensions: 12" MIN. (top), 42" MIN. (left), X (width of door), Y (height of door).
 Diagram 2 (Right): PULL SIDE (Arrow pointing left) and PUSH SIDE (Arrow pointing right). Dimensions: 22" MIN. (top), 42" MIN. (left), X (width of door), Y (height of door).
 NOTE: **X=48" MIN. IF THE DOOR HAS BOTH A CLOSER AND A LATCH

CLEAR FLOOR SPACE

KNEE & TOE CLEARANCE

OBSTRUCTED HIGH FORWARD REACH

FRONT OR REAR ACCESS

SIDE ACCESS

OBSTRUCTED HIGH SIDE REACH

TWO HINGED DOORS IN SERIES

67" MIN.

20" MIN.

64" MIN.

40" MIN.

60" MIN.

12" MIN.

40" MIN.

12" MIN.

NOTE: OVERLAP OF KNEE & TOE CLEARANCE

CIRCULAR

T-SHAPED

60" MIN.

60" MIN.

40" MIN.

RAMP RUN

LANDING

RAMP RUN

48"

36" MIN.

WITH DOOR AT ONE END

PLATFORM

WITH DOORS AT OPPOSITE ENDS

32" MIN.

PLATFORM

WITH DOOR ON ADJACENT SIDES

42" MIN.

SIDE DOOR STRIKE SIDE OF HINGE SIDE IN CORNER

ALTERNATE TURNING SPACE

RAMP LANDING AT CHANGE IN DIRECTION

PLATFORM LIFT DOORS AND GATES

RAMP LANDING AT STRAIGHT RAMP

TOILET CLEAR FLOOR SPACE

HEIGHT OF URINALS

(A) ACCESSIBLE WATER CLOSETS
WATER CLOSET LOCATION

DRINKING FOUNTAIN
SPOUT LOCATION

HEIGHT OF LAVATORIES AND SINK

WATER CLOSET SEAT HEIGHT

ACT	AT		OA	OVERALL
ADJ	ACOUSTICAL CEILING TILE	E.C.	OAD	OVERALL DIMENSION
A.F.C.	ADJUSTABLE	ELEV	O.C., O.C	ON CENTER
A.F.F.	ABOVE FINISHED FLOOR	ELECTR	OD	OUTSIDE DIAMETER
AIE	ABOVE FINISHED CEILING	ENAM	OFF.	OFFICE
ALA	AMERICAN INSTITUTE OF ARCHITECTS	ENGR		
ALC	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS	EQ	PA	PUBLIC ADDRESS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EQUAL	P.C.	PLUMBING CONTRACTOR
AL., ALUM.	ALUMINUM	EQUIP	PCF	POUNDS PER CUBIC FOOT
ALM	ALARM	EXH	PERF	PERFORATED
ALT	ALTERNATE	EXTING	PL, LAM.	PLASTIC LAMINATE
AMP	AMPERE	EXP	PLMB	PLUMBING
ANSI	AMERICAN NATIONAL STANDARDS	EXTR	PLYWD	PLYWOOD
			PNL	PANEL
APT	APARTMENT	F.A.	POL	POLISHED
APPROX.	APPROXIMATE	F.D.	POS	POSITIVE
ARCH	ARCHITECT	FIN	PSF	POUND PER SQUARE FOOT
ASB	AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR CONDITIONING ENGINEERS	FL, FLR	PSI	POUND PER SQUARE INCH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	FIN.	PTN	PARTITION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FLR	PTD	PAINTED
		FIG.	PR	PAIR
AWG	AMERICAN WIRE GAUGE	FRF	PROP.	PROPOSED
		FIXT	P.V.C.	POLYVINYL CHLORIDE
		F.P.S.C.		
		FT. LB.	QUAL	QUALITY
		FTG		
BD.	BOARD	GA	R	RADIUS
BL	BUILDING LINE	GAL	REC(S)	RECOMMENDATION(S)
BLK	BLOCK	GALV	RECD	RECEIVED
BM	BEAM	GALV	RECP	RECEPTACLE
CFM	CUBIC FEET PER MINUTE	GEN	REF	REFRIGERATOR
BOT.	BOTTOM	GLASS	REINF.	REINFORCED
BTU	BRITISH THERMAL UNIT	GPM	RET.	RETAINING
		GYP.	RH	RIGHT HAND
			RHR	RIGHT HAND REVERSE
CAB	CABINET	H. HGT	RTO	REQUIRED ROOM(S)
CB	CATCH BASIN	H.P.E.	RM(S)	
CLG	CEILING	HDWR		
C.T.	CERAMIC TILE	HD	SAN	SANITARY
CFM	CUBIC FEET PER MINUTE	HOR., HORIZ.	S/S	STAINLESS STEEL
C.H.	CEILING HEIGHT	HR	S.C.	SOLID CORE
C.I.	CAST IRON	HR	S.DR	STANDARD DIMENSION RATIO
C.I. LMJ.	CAST IRON MECHANICAL JOINT	HW	SECT	SECTION
C.I.P.	CAST IRON PIPE	HYD	SEP	SEPARATE
CL	CENTERLINE	H.R.	SIM	SIMILAR
CLG	CAULKING	ID	S.M.H.	SANITARY MANHOLE
CLO	CLOSET	IN	SPEC(S)	SPECIFICATION(S)
CLR	CLEAR	INCH	SPKR	SPEAKER
C.M.P.	CORRUGATED METAL PIPE	INCL	SPRINK	SPRINKLER
CMU	CONCRETE MASONRY UNIT	INFO	SQ	SQUARE
COL	COLUMN	INSUL	SR	SENIOR
CONC	CONCRETE	INT	STN	STANDARD
CONC	CONSTRUCTION	INVT	STL	STEEL
CONT	CONTINUOUS	JAN	STRUC	STRUCTURAL
CONTR	CONTRACTOR	JANIT	SUPT	SUPERINTENDENT
CORR	CORRIDOR	KD	SUSP	SUSPENDED
COVG	COVERING	KNOCK		
CPT	CARPET	KNOCK OUT	T.B.R.	TO BE REMOVED
CSK	COUNTERSINK	KW	T.C.	TERRA COTTA
CSK	CENTER	L	TEL	TELEPHONE
CU FT	CUBIC FEET	LAV	TH, THK	THICK / THICKNESS
CU IN	CUBIC INCHES	LB	TYP	TYPICAL
CU YD	CUBIC YARD	LH	UL	UNDERWRITER'S LABORATORIES
		LHR	U.O.N.	UNLESS OTHERWISE NOTED
		LN		
D	DEPTH	LIGHT	VAV	VARIABLE AIR VOLUME
DB	DECIBEL	LI	VCT	VINYL COMPOSITE TILE
DBL	DOUBLE	MANUF., MNFR	V.F.T	VERTICAL
DEMO	DEMOLITION	MATL.	V.I.F	VERTIFY IN FIELD
DEPT.	DEPARTMENT	MAX.	V.S.	VERSUS
DET., DETL.	DETAIL	M.C.	VOL.	VOLUME
D.F.	DRINKING FOUNTAIN	MECH		
DIA	DIAMETER	MED	W	WIDTH
DIAG	DIAGONAL	MEZZ	W/	WITH
DIM	DIMENSION	MIN	WC	WATER CLOSET
D.I.	DUCTILE IRON	MISC	WCV	WALL COVERING
D.I.P	DUCTILE IRON PIPE	M.O.	WOOD	WOOD
DIV	DIVISION	MTL	W.L.	WATER LINE
DN	DOWN	N	W/O	WITHOUT
DR	DROR(S)	NEC	W.P.	WATERPROOF
DRWG, DWG(S)	DRAWING(S)	NEMA	WT.	WEIGHT
		NATIONAL ELECTRICAL CODE	YD	YARD
		NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION		
		NOT IN CONTRACT		
		NATIONAL PIPE THREAD		
		NO		
		NOT TO SCALE		

NEW DOOR - SEE SCHEDULE
INDICATES DOOR No

NEW WINDOW - SEE SCHEDULE
LETTER INDICATES WINDOW

DETAIL No
SHOWN ON SHEET No

DETAIL No
SHOWN ON SHEET No

SECTION VIEW
SHOWN ON SHEET No

NEW CONSTRUCTION NOTE.
INDICATES NOTE No

DEMO CONSTRUCTION NOTE.
INDICATES NOTE No

WALL TYPE
X INDICATES WALL TYPE LETTER
- SEE LEGEND ON SHEET FOR LOCATION

HATCH INDICATES INFILL OF EXISTING DOOR OR WINDOW OPENING w/ CONCRETE MASONRY UNITS
- SEE FLOOR PLANS & ELEVATIONS FOR MORE DETAIL & SEE S-DWGS

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New Windsor, NY 12553 Milford, PA 18337
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HAZARDOUS MATERIAL NOTE:

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NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

[illegible]

ISSUED DATE:	21 NOV, 2024
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DESIGN BY:	AW
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DRAWN BY:	EDITION:
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CHECKED BY:	AW
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REVIEWED BY: JZ, M

SHEET NO.

G-001

PROJECT # 18-732

PHASE # 1

BID SET

GENERAL - DEMOLITION NOTES

- SEE EXHIBIT 'A' HAZARDOUS MATERIALS REPORT FOR FURTHER INFORMATION
- SEE EXHIBIT 'A-1' FOR ASBESTOS ABATEMENT SPEC AND LEAD SAFE WORK PRACTICES SPEC AND ADHERE TO ALL REQUIREMENTS FOR SPECIFIED REMOVALS
- SEE EXHIBIT 'A-2' DRAWING AA-101 & AA-102 FOR FURTHER INFORMATION
- EXISTING INCINERATOR STRUCTURE CONSISTS OF ±1" THICK STEEL CASING ALONG w/ ±12" FIRE BRICK INTERIOR LAYER - THE EXISTING STRUCTURE SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ITS BASE PAD ON THE GROUND FLOOR, ALL ASSOCIATED PIPING, CONDUIT, WIRING, & ROOF PENETRATIONS INCLUDING THE FOUNDATION BOTH ABOVE AND BELOW GRADE - EXCAVATED AREA TO BE BACKFILLED IN CONTROLLED COMPACTED LIFTS USING APPROVED MATERIAL
- REMOVE METAL STAIRS, PLATFORMS & RAILINGS AROUND EXISTING INCINERATOR INCLUDING ALL ATTACHMENTS TO BUILDING U.O.N.
- CONTRACTOR SHALL PROVIDE ADEQUATE CONTAINMENT MEASURES TO SHIELD ACTIVE AREAS OF PLANT OPERATION (I.E. EXISTING BELT PRESS AREA) DURING INCINERATOR AND ROOF DEMOLITION
- CONTRACTOR TO BUILD ANY TEMPORARY WALLS & BARRIERS REQUIRED TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK
- CONTRACTOR TO MAINTAIN WEATHER PROOF ENCLOSURE DURING



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145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

DEWATERING BUILDING - LOWER LEVEL DEMOLITION PLAN, EXISTING INCINERATOR PHOTOS & NOTES

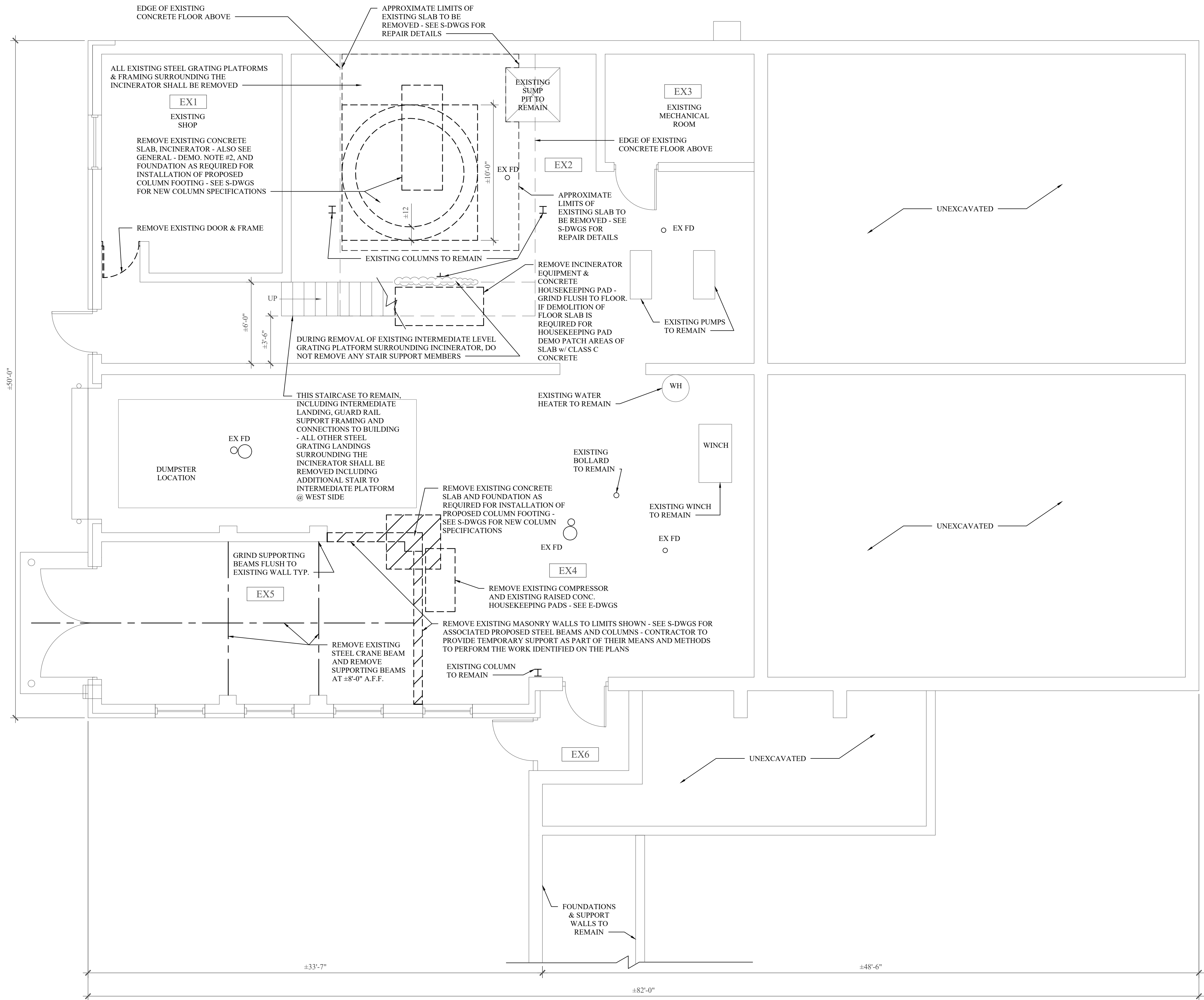
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	AW
DRAWN BY:	EDIII
CHECKED BY:	AW
REVIEWED BY:	JZ, ML

SHEET NO.

AD-701

PROJECT # 18-732 PHASE # 1



EXISTING INCINERATOR PHOTOS
SCALE: N.T.S.

LEGEND

DOOR & FRAME TO BE REMOVED

EXISTING TO REMAIN



1000000000

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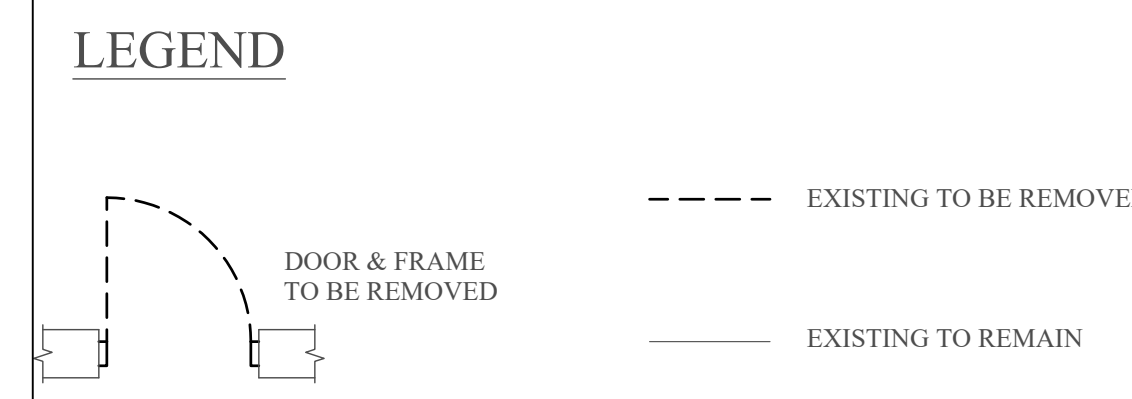
**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

[illegible]

SHEET NO.

PROJECT # 18-732	PHASE # 1
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1. SEE EXHIBIT "A" HAZARDOUS MATERIALS REPORT FOR FURTHER INFORMATION
2. SEE EXHIBIT "A" FOR ASBESTOS ABATEMENT SPEC AND LEAD SAFE WORK PRACTICES SPEC AND ADHERE TO ALL REQUIREMENTS FOR SPECIFIED REMOVALS
3. SEE EXHIBIT "A-2" DRAWING AA-101 & AA-102 FOR FURTHER INFORMATION
4. EXISTING INCINERATOR STRUCTURE CONSISTS OF 41" THICK STEEL CASING ALONG W/ 412" FIRE BRICK INTERIOR LAYER - THE EXISTING STRUCTURE SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ITS BASE PAD ON THE 1ST FLOOR, AND THE ASSOCIATED PIPING, CONDUIT, WIRING & ROOF PENETRATIONS INCLUDING THE FOUNDATION BOTH ABOVE AND BELOW GRADE - EXCAVATED AREA TO BE BACKFILLED IN CONTROLLED COMPACTED LITS USING APPROVED MATERIAL
5. REMOVE METAL STAIRS, PLATFORMS & RAILINGS ALONG EXISTING INCINERATOR - ADDING ALL ATTACHMENTS TO BUILDING U.O.N.
6. CONTRACTOR SHALL PROVIDE ADEQUATE CONTAINMENT MEASURES TO GUARANTEE ACTIVE AREA DURING ALL OPERATIONS (EXISTING BELL PRESS AREA) DURING INCINERATOR AND ROOF DEMOLITION
7. CONTRACTOR TO BUILD ANY TEMPORARY WALLS & BARRIERS REQUIRED TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK
8. CONTRACTOR TO MAINTAIN WEATHER PROOF ENCLOSURE DURING DEMOLITION TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION



1
AD-702

UPPER LEVEL DEMOLITION PLAN

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



GENERAL - DEMOLITION NOTES

- SEE EXHIBIT 'A' HAZARDOUS MATERIALS REPORT FOR FURTHER INFORMATION
- SEE EXHIBIT 'A-1' FOR ASBESTOS ABATEMENT SPEC AND LEAD SAFE WORK PRACTICES SPEC AND ADHERE TO ALL REQUIREMENTS FOR SPECIFIED REMOVALS
- SEE EXHIBIT 'A-2' DRAWING AA-101 & AA-102 FOR FURTHER INFORMATION
- EXISTING INCINERATOR STRUCTURE CONSISTS OF ±1" THICK STEEL CASING ALONG w/ ±12" FIRE BRICK INTERIOR LAYER - THE EXISTING STRUCTURE SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ITS BASE PAD ON THE GROUND FLOOR, ALL ASSOCIATED PIPING, CONDUIT, WIRING, & ROOF PENETRATIONS INCLUDING THE FOUNDATION BOTH ABOVE AND BELOW GRADE - EXCAVATED AREA TO BE BACKFILLED IN CONTROLLED COMPACTED LIFTS USING APPROVED MATERIAL
- REMOVE METAL STAIRS, PLATFORMS & RAILINGS AROUND EXISTING INCINERATOR INCLUDING ALL ATTACHMENTS TO BUILDING U.O.N.
- CONTRACTOR SHALL PROVIDE ADEQUATE CONTAINMENT MEASURES TO SHIELD ACTIVE AREAS OF PLANT OPERATION (I.E. EXISTING BELT PRESS AREA) DURING INCINERATOR AND ROOF DEMOLITION
- CONTRACTOR TO BUILD ANY TEMPORARY WALLS & BARRIERS REQUIRED TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK
- CONTRACTOR TO MAINTAIN WEATHER PROOF ENCLOSURE DURING DEMOLITION TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK



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New Windsor, NY 12553 Millport, PA 15237
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EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

DEWATERING BUILDING -
ROOF DEMOLITION PLAN
& NOTES

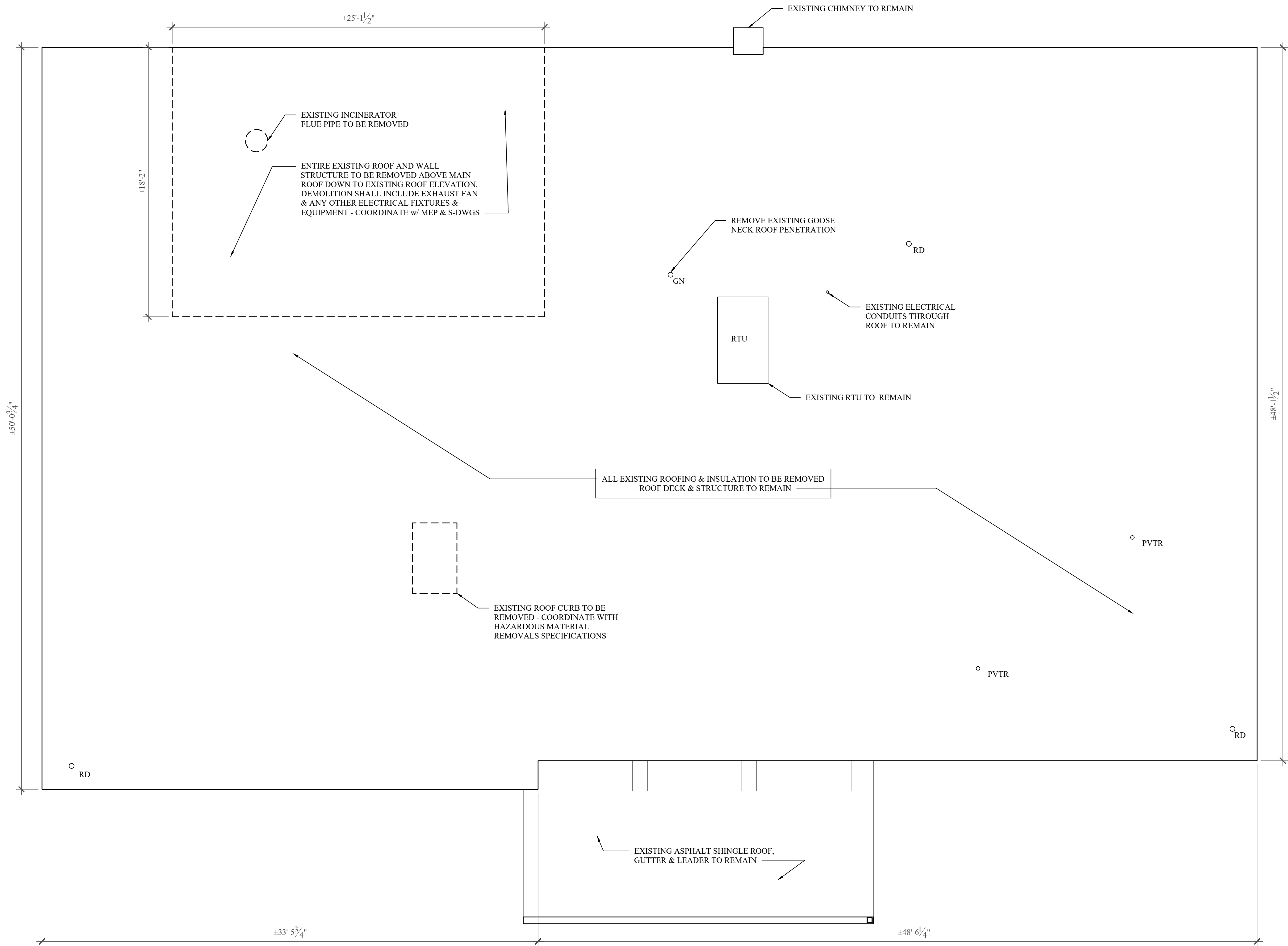
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	AW
DRAWN BY:	EDIII
CHECKED BY:	AW
REVIEWED BY:	JZ, ML

SHEET NO.

AD-703

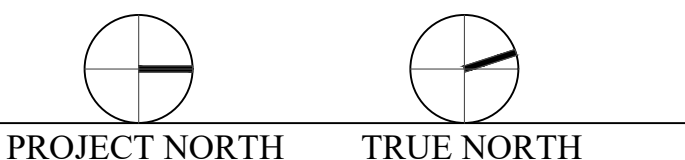
PROJECT # 18-732 PHASE # 1



GENERAL - ROOF PLAN NOTES

- ALL EXISTING PLUMBING PIPE PENETRATION LOCATIONS THROUGH ROOF TO REMAIN U.O.N. - SEE P-DWGS
- EXISTING PVTR PIPE LOCATION TO REMAIN U.O.N. - SEE P-DWGS
- EXISTING ROOF DRAIN BODY TO BE REMOVED AND REPLACED IN SAME EXISTING PIPING LOCATION U.O.N. - SEE DETAILS ON A-703 & SEE P-DWGS

- RD - ROOF DRAIN
PVTR - PLUMBING VENT THROUGH ROOF
RV - ROOF VENT
RS - ROOF SCUPPER
RCEF - ROOF CURB WITH EXHAUST FANS
GN - GOOSE NECK EXHAUST
RTU - ROOF TOP UNIT

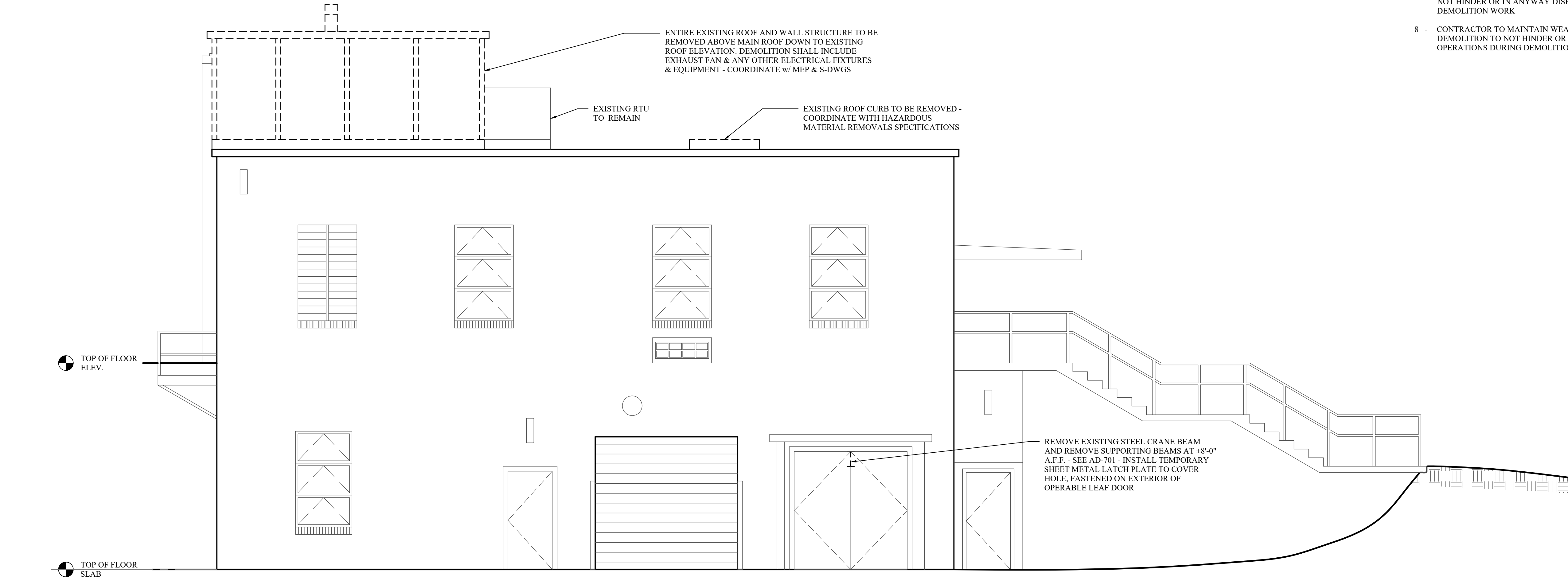


LEGEND

- EXISTING TO BE REMOVED
— EXISTING TO REMAIN



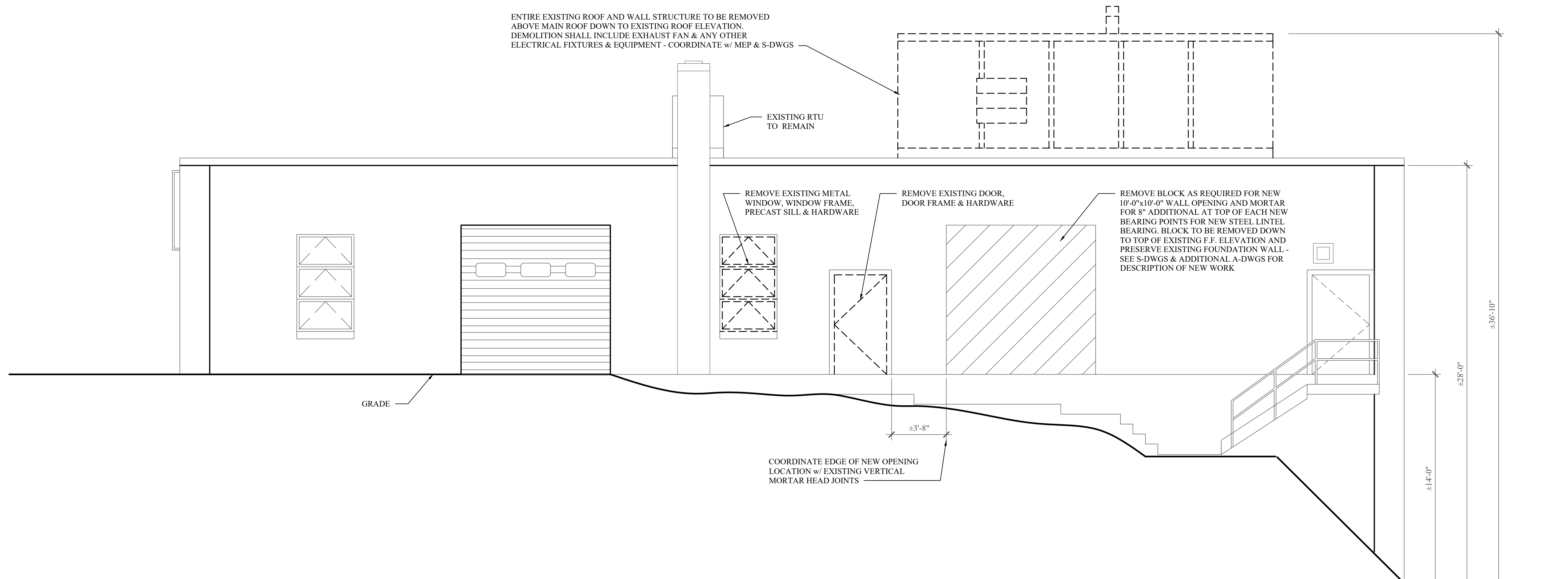
PHOTO AT SOUTH SIDE
SCALE: N.T.S



1
AD-704 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



PHOTO AT WEST SIDE
SCALE: N.T.S



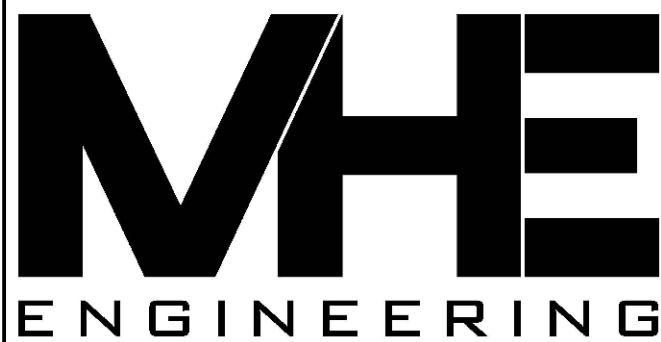
2
AD-704 WEST ELEVATION
SCALE: 1/4" = 1'-0"

LEGEND

- EXISTING TO BE REMOVED
— EXISTING TO REMAIN

GENERAL - DEMOLITION NOTES

- SEE EXHIBIT 'A' HAZARDOUS MATERIALS REPORT FOR FURTHER INFORMATION
- SEE EXHIBIT 'A-1' FOR ASBESTOS ABATEMENT SPEC AND LEAD SAFE WORK PRACTICES SPEC AND ADHERE TO ALL REQUIREMENTS FOR SPECIFIED REMOVALS
- SEE EXHIBIT 'A-2' DRAWING AA-101 & AA-102 FOR FURTHER INFORMATION
- EXISTING INCINERATOR STRUCTURE CONSISTS OF ±1" THICK STEEL CASING ALONG w/ ±12" FIRE BRICK INTERIOR LAYER - THE EXISTING STRUCTURE SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ITS BASE PAD ON THE GROUND FLOOR, ALL ASSOCIATED PIPING, CONDUIT, WIRING, & ROOF PENETRATIONS INCLUDING THE FOUNDATION BOTH ABOVE AND BELOW GRADE - EXCAVATED AREA TO BE BACKFILLED IN CONTROLLED COMPACTED LIFTS USING APPROVED MATERIAL
- REMOVE METAL STAIRS, PLATFORMS & RAILINGS AROUND EXISTING INCINERATOR INCLUDING ALL ATTACHMENTS TO BUILDING U.O.N.
- CONTRACTOR SHALL PROVIDE ADEQUATE CONTAINMENT MEASURES TO SHIELD ACTIVE AREAS OF PLANT OPERATION (I.E. EXISTING BELT PRESS AREA) DURING INCINERATOR AND ROOF DEMOLITION
- CONTRACTOR TO BUILD ANY TEMPORARY WALLS & BARRIERS REQUIRED TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK
- CONTRACTOR TO MAINTAIN WEATHER PROOF ENCLOSURE DURING DEMOLITION TO NOT HINDER OR IN ANYWAY DISRUPT ACTIVE PLANT OPERATIONS DURING DEMOLITION WORK



33 Airport Center Drive, Suite 202 111 Wheatfield Drive, Suite 1
New Windsor, NY 12553 Millers, PA 15357
(845) 567-3100 (610) 296-2765

BID SET

HAZARDOUS MATERIAL NOTE:
THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MHE PLANS, DO NOT INCLUDE SERVICES RELATED TO THE IDENTIFICATION, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD PAINT. ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE ENCOUNTERED WHILE UNDERTAKING THE WORK SHOWN HEREON, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT PRIOR TO THE CONTINUATION OF WORK INVOLVING SUSPECTED MATERIAL.



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**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

**DEWATERING BUILDING -
EXTERIOR ELEVATIONS
DEMOLITION, PHOTOS &
NOTES**

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE: 21 NOV, 2024
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SHEET NO.

AD-704

PROJECT # 18-732 PHASE # 1

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PHASE I**
145 CAESARS LN.
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FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

**DEWATERING BUILDING -
LOWER LEVEL FLOOR
PLAN**

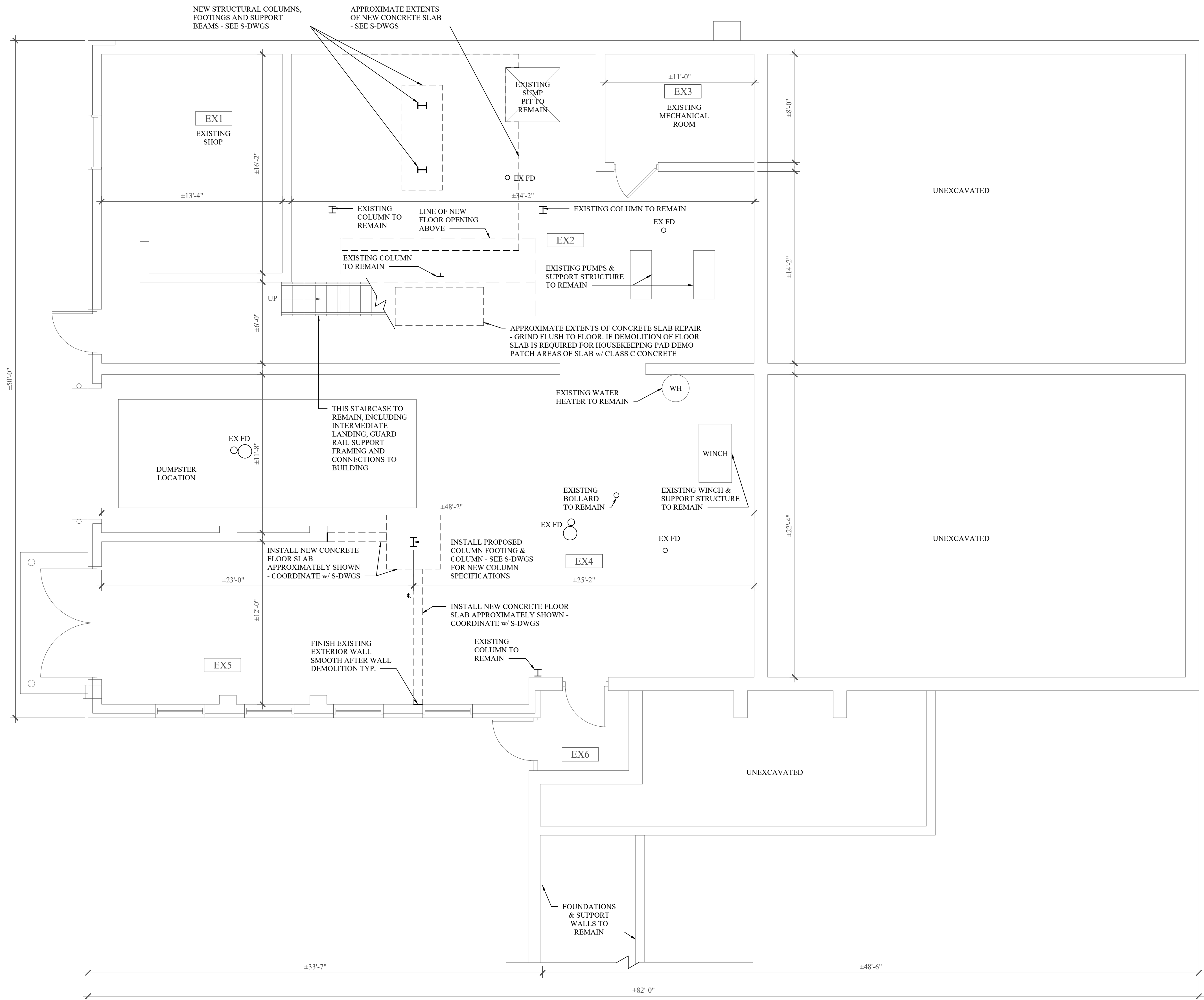
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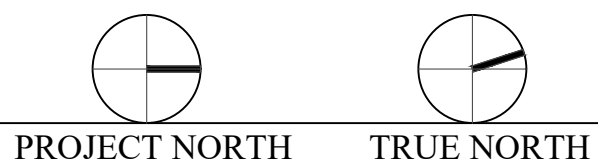
SHEET NO.

A-701

PROJECT # 18-732 PHASE # 1



1
A-701
PROPOSED LOWER LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"



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FOR TOWN OF NEW WINDSOR
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DEWATERING BUILDING -
UPPER LEVEL FLOOR
PLAN & DETAILS

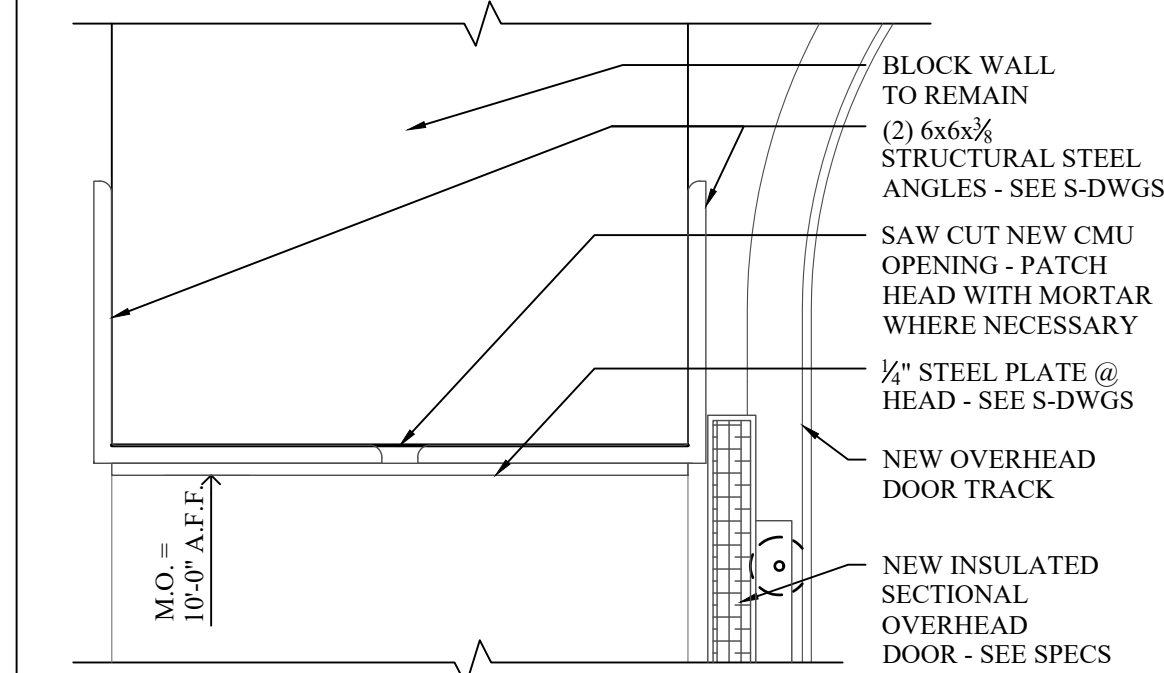
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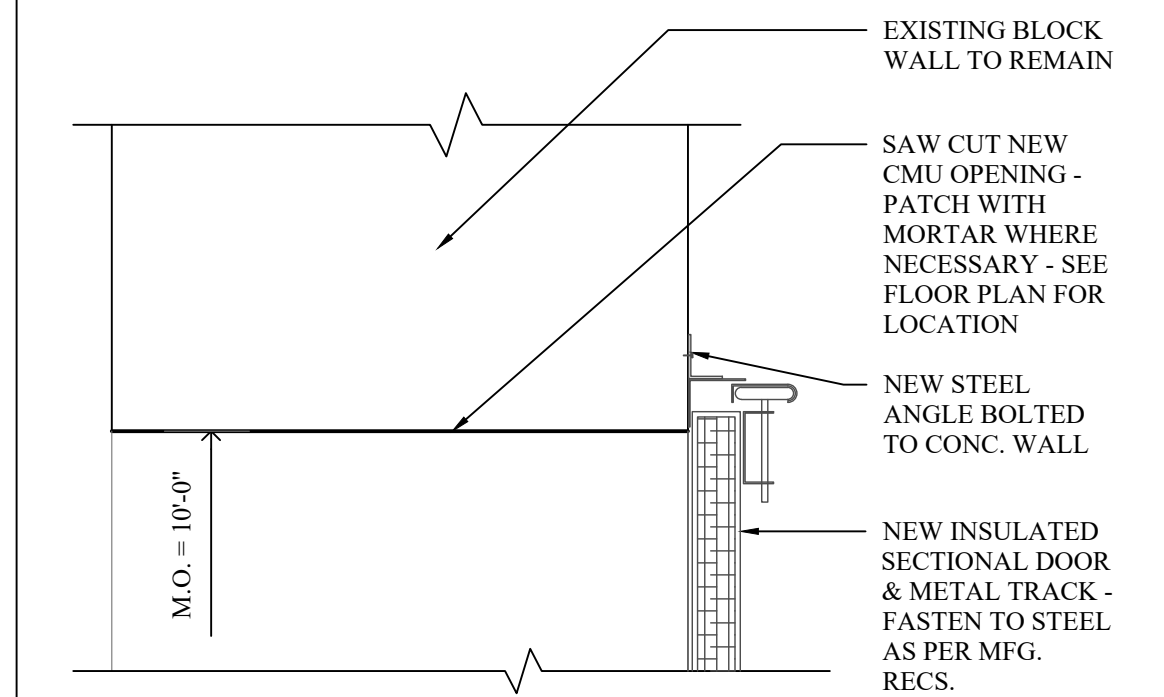
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A-702

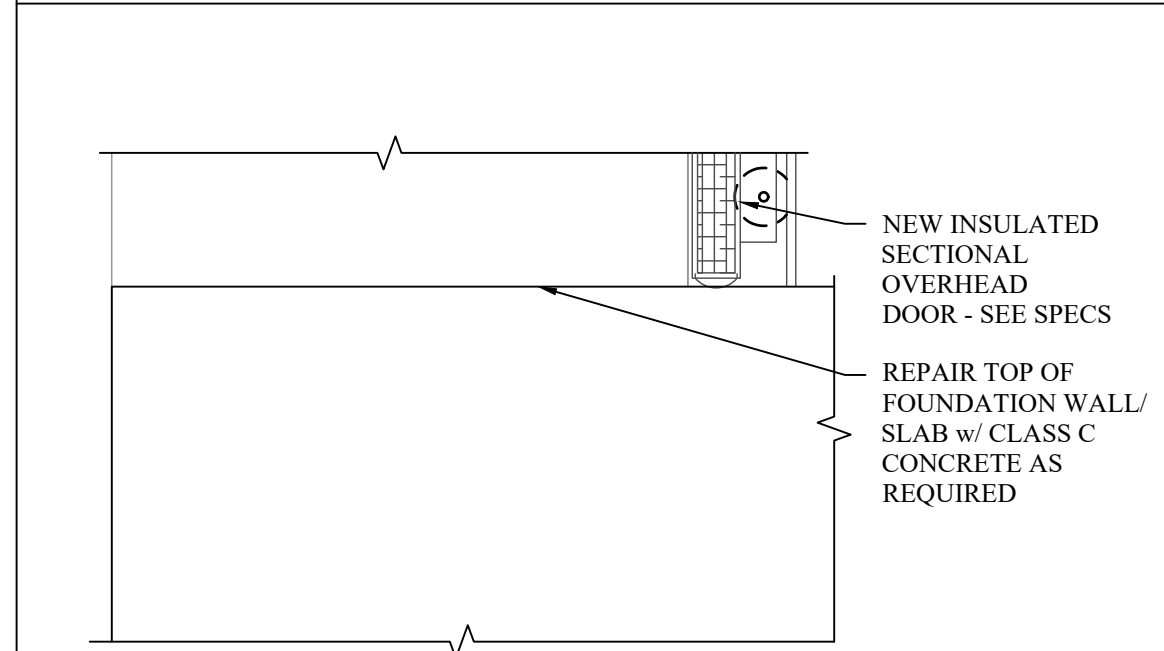
PROJECT # 18-732 PHASE # 1



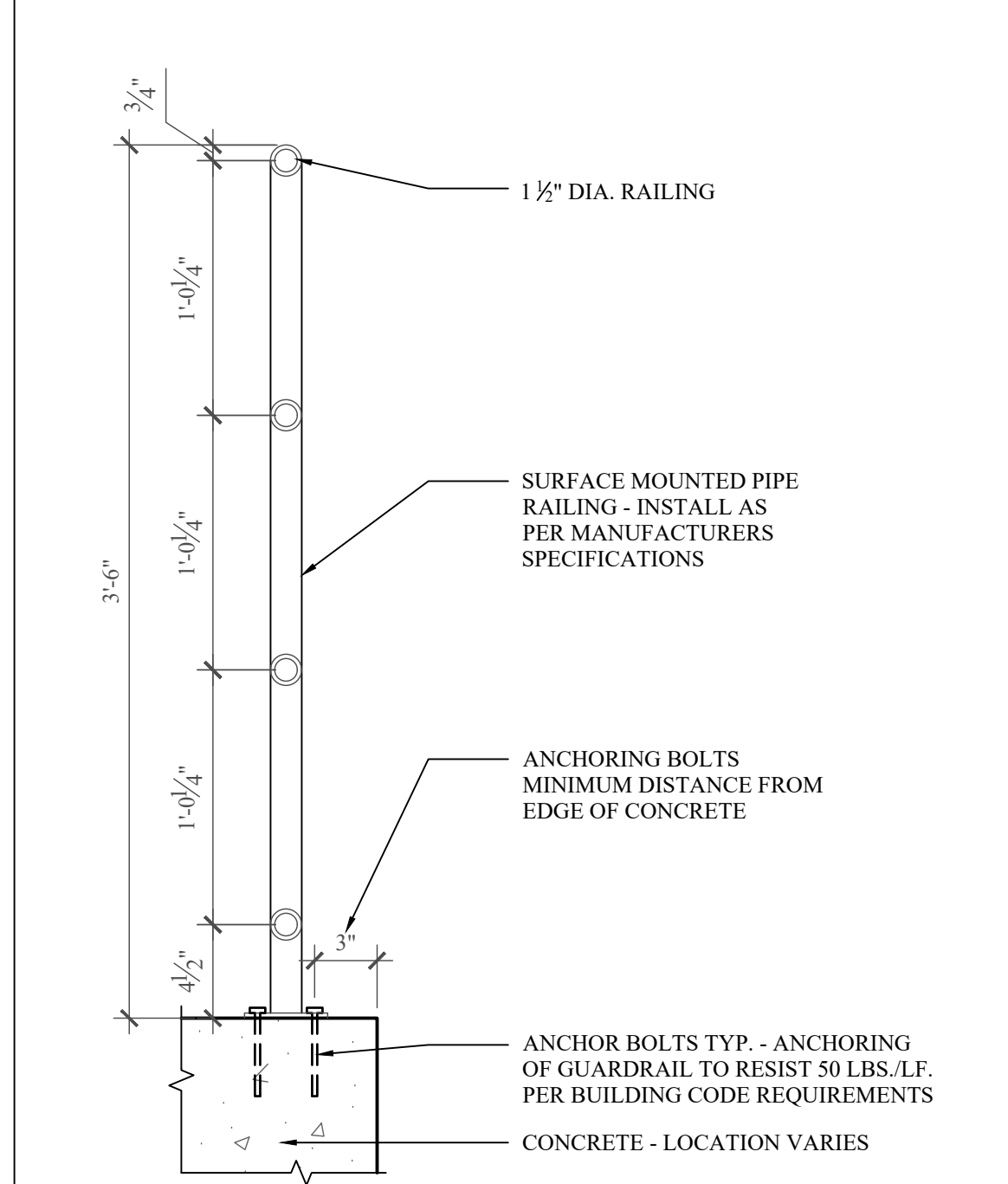
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A-702
SECTIONAL O.H. DOOR - HEAD DETAIL
SCALE: 3" = 1'-0"



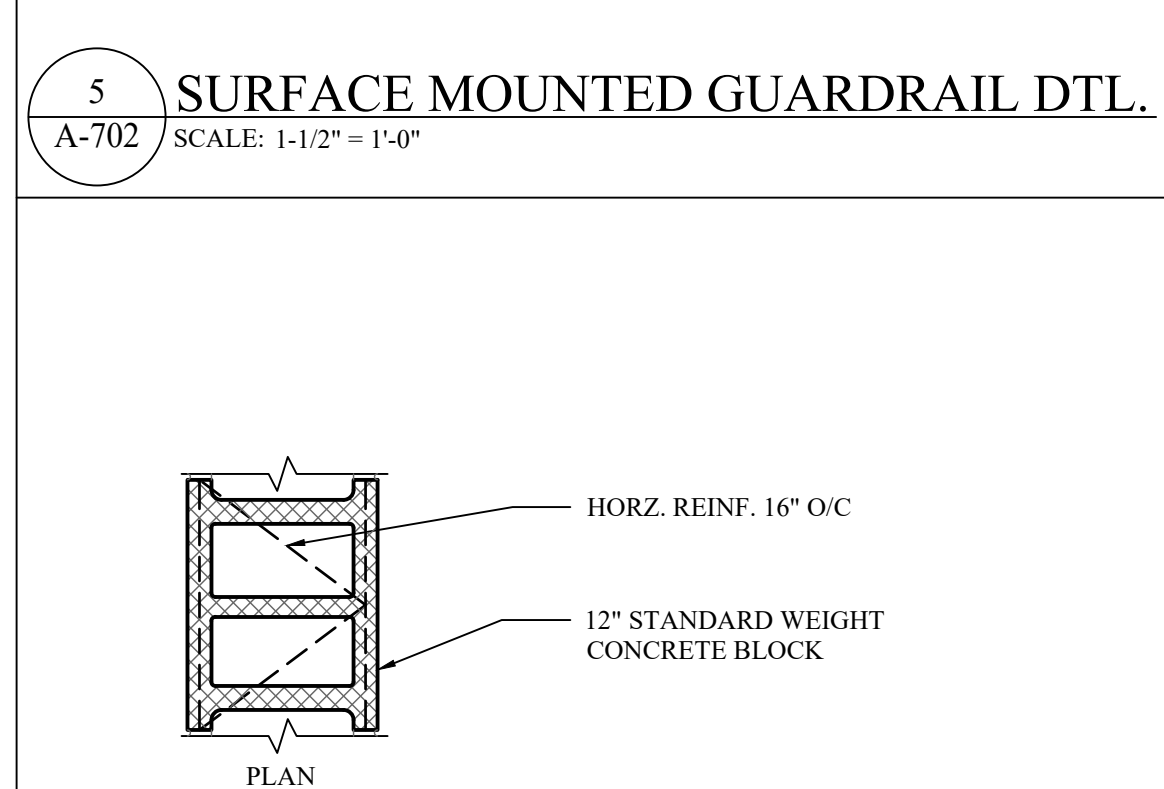
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A-702
SECTIONAL O.H. DOOR - JAMB DETAIL
SCALE: 3" = 1'-0"



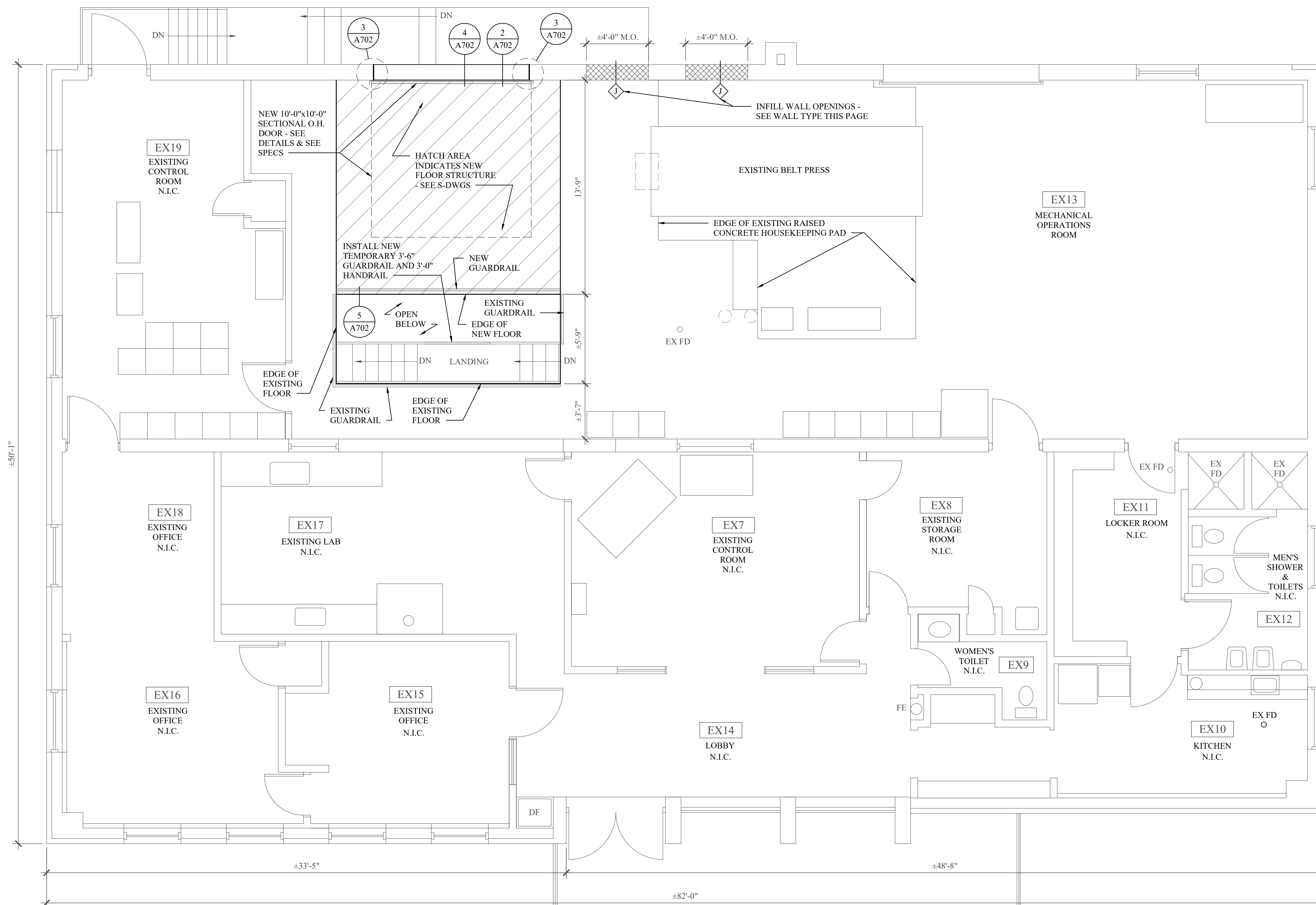
4
A-702
SECTIONAL O.H. DOOR - SILL DETAIL
SCALE: 3" = 1'-0"



5
A-702
SURFACE MOUNTED GUARDRAIL DTL.
SCALE: 1-1/2" = 1'-0"



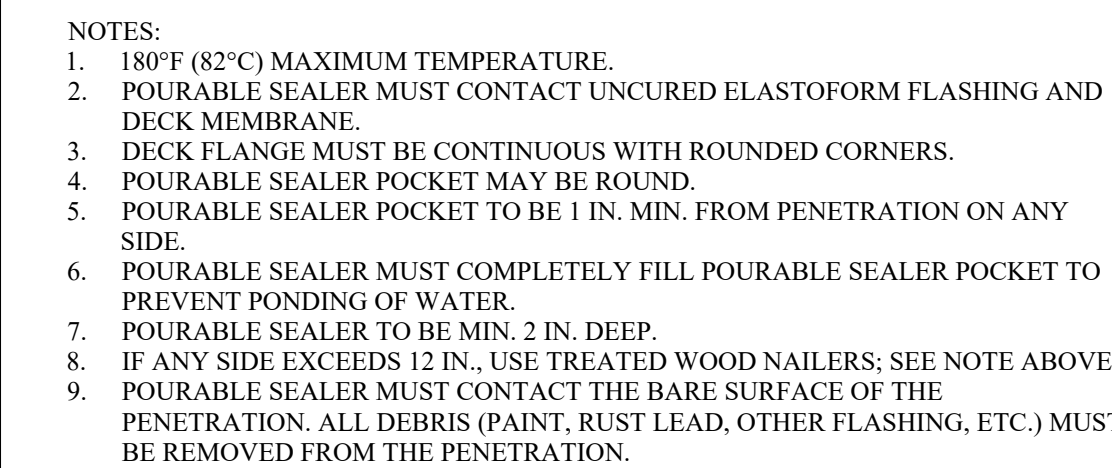
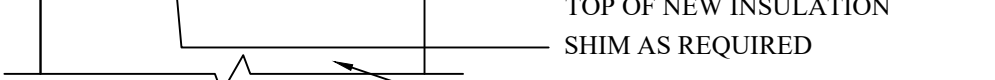
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EXTERIOR WALL TYPE
SCALE: 1" = 1'-0"



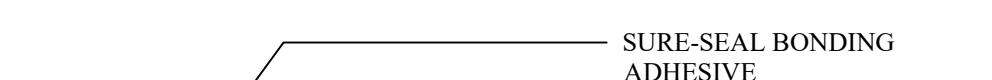
1
A-702
PROPOSED UPPER LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"



SEE C-DWGS & S-DWGS FOR
LOCATION AND DETAILS TO
INSTALL NEW RETAINING WALL



(A-703) SCALE: N.T.S

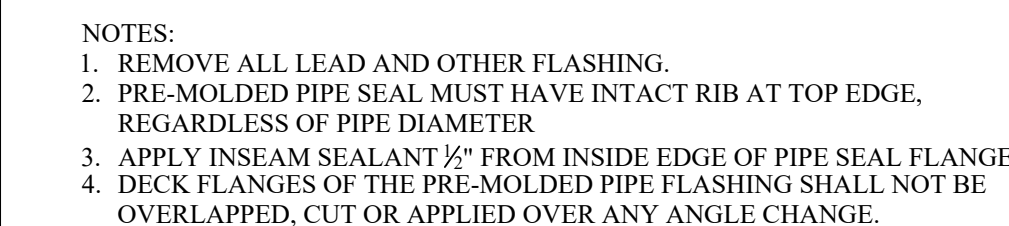


3 / SCALE: N.T.S.

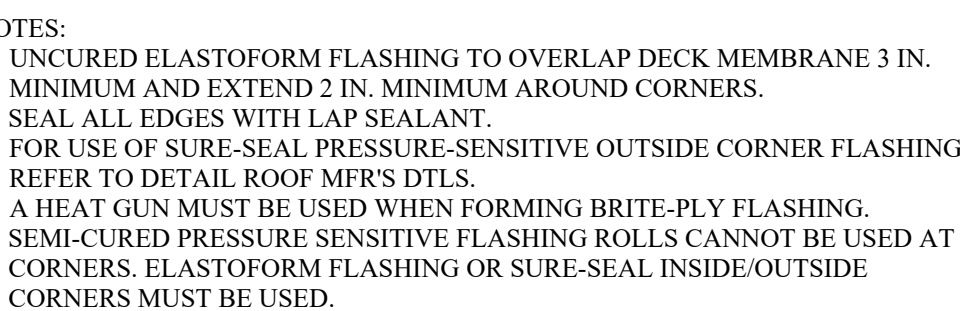


- ALL EXISTING PLUMBING PIPE PENETRATION LOCATIONS THROUGH ROOF TO REMAIN U.O.N. - SEE P-DWGS
- EXISTING PVTR PIPE LOCATION TO REMAIN U.O.N. - SEE P-DWGS
- EXISTING ROOF DRAIN BODY TO BE REMOVED AND REPLACED IN SAME LOCATION U.O.N. - SEE DETAILS ON A-703 & SEE P-DWGS

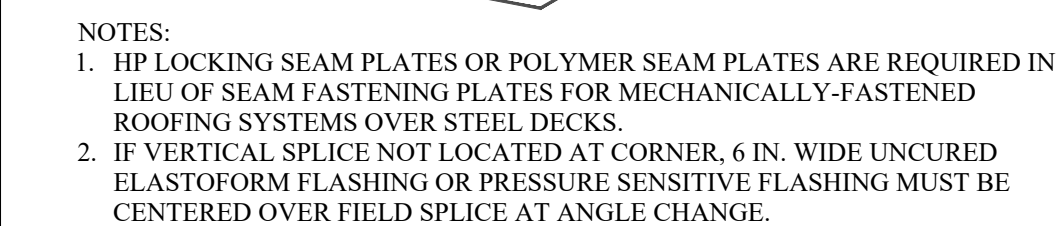
- | | |
|--------|-----------------------------|
| RD - | ROOF DRAIN |
| PVTR - | PLUMBING VENT THROUGH ROOF |
| RV - | ROOF VENT |
| RS - | ROOF SCUPPER |
| RCEF - | ROOF CURB WITH EXHAUST FANS |
| GN - | GOOSE NECK EXHAUST |



(A-703) SCALE: N.T.S



3 / SCALE: N.T.S.



SCALE: N.T.S.

HAZARDOUS MATERIAL NOTE:

THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DERIVED ON MHE PLANS, DO NOT INCLUDE THE SERVICES RELATED TO THE IDENTIFICATION, ASSESSMENT, TESTING, REMEDIATION, AND DISPOSAL OF MATERIALS INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD. PAINT, ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE THE RESPONSIBILITY OF A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE WITH THE CONSULTANT AND CERTIFIED PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK DERIVED ON OR ADJACENT TO MATERIALS AS UNIDENTIFIED MATERIALS OF CONCERN ARE DISCOVERED WHILE UNDER CONTRACT. IF IT IS SHOWN HEREIN, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT TO THE EXTENT OF ANY WORK DERIVED INVOLVING SUSPECTED MATERIALS.



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FOR TOWN OF NEW WINDSOR
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NEW WINDSOR, NY 12553

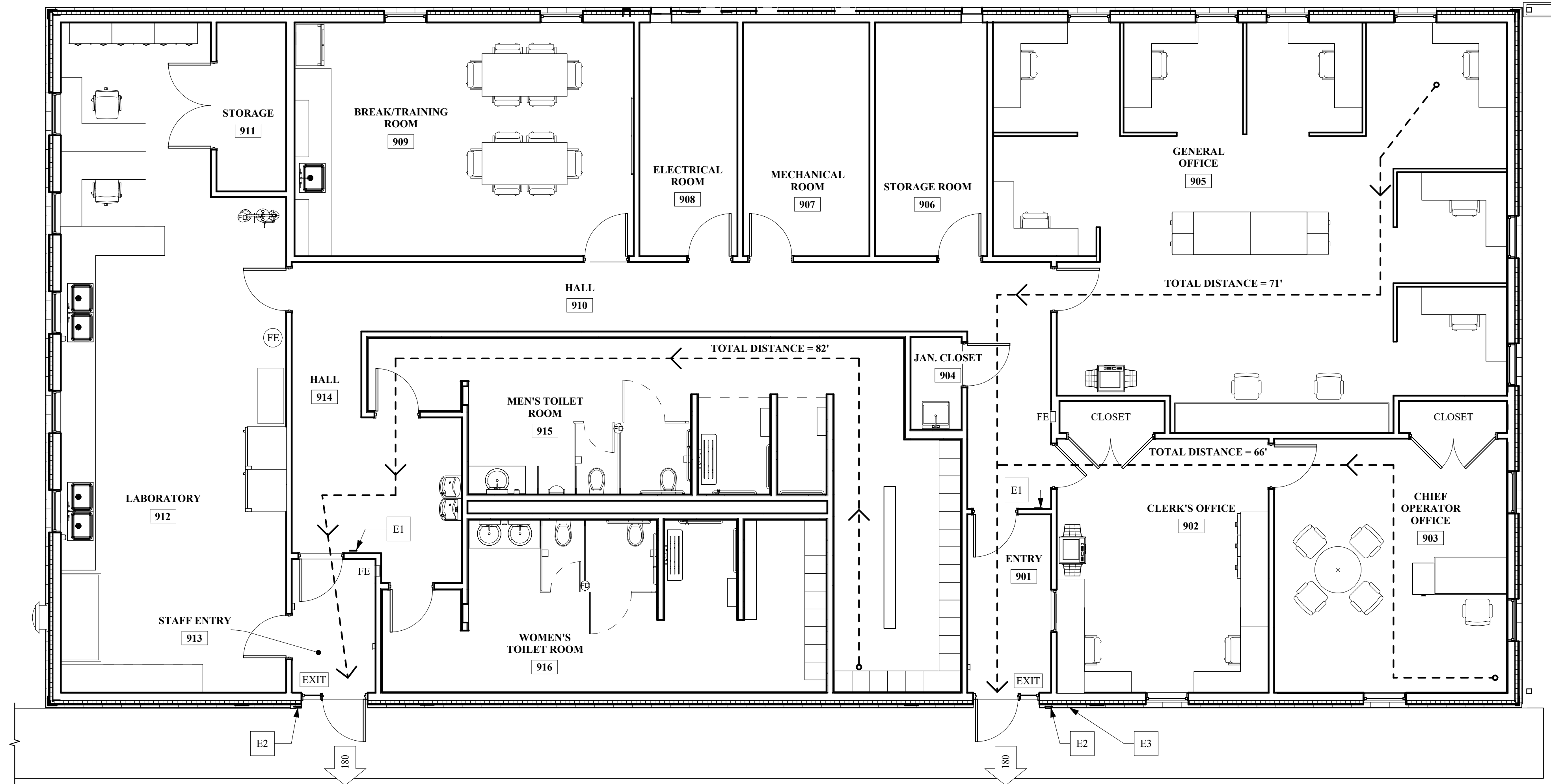
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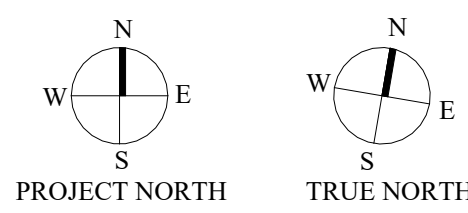
SHEET NO. _____

A-703

PROJECT # 18-732	PHASE # 1
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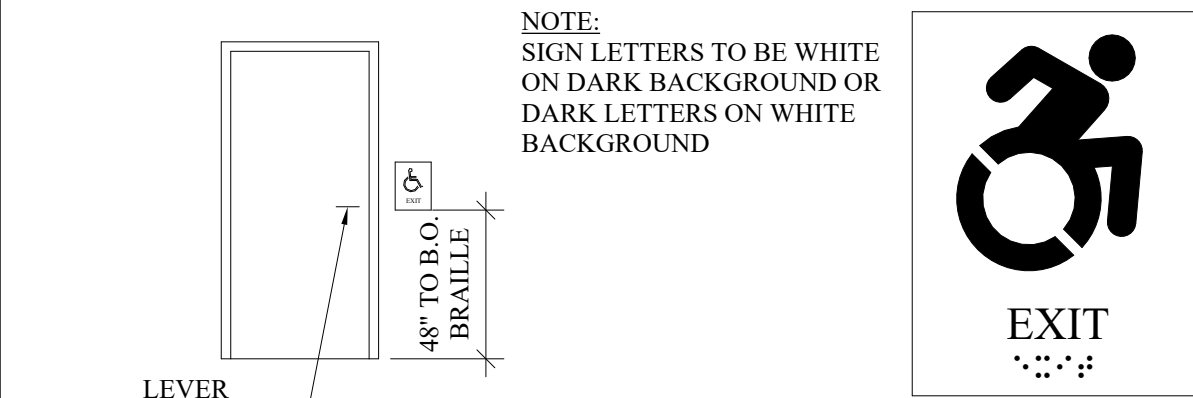
EGRESS PLAN
SCALE: 3/16" = 1'-0"



SYMBOLS LEGEND

- # SIGNIFIES CAPACITY OF EXIT IN # OF PERSONS
- EXIT EXIT LIGHT LOCATION
- FE WALL MOUNTED FIRE EXTINGUISHER ON BRACKET - COORDINATE LOCATIONS WITH AUTHORITY HAVING JURISDICTION
- FE FIRE EXTINGUISHER IN RECESSED WALL CABINET
- - - - - INDICATES PATH OF EGRESS WITH TRAVEL DISTANCE
- E1 WALL MOUNTED EXIT SIGN - SEE DETAIL 2/G901
- E2 TRUSS PLACARD DETAIL - SEE SETAIL 4/G901
- E3 FIRE DEPARTMENT KNOXBOX COORDINATE REQUIREMENTS W/ AUTHORITY HAVING JURISDICTION

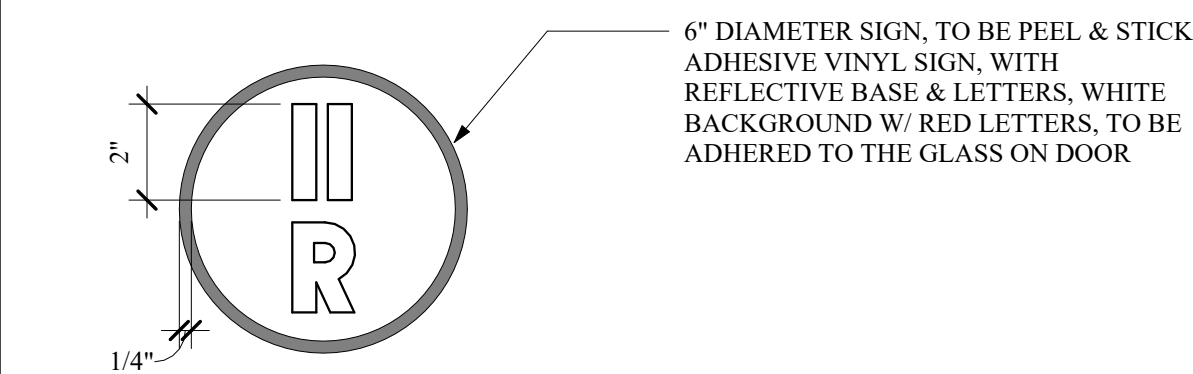
APPLICABLE CODES				
2020 BUILDING CODE OF NEW YORK STATE				
GENERAL DESCRIPTION OF BUILDING				
THE PROPOSED PROJECT IS A NEW 1 STORY BUILDING				
GENERAL DESCRIPTION OF THE PROJECT				
THE PROJECT IS DESIGNED AS OFFICES FOR THE SEWAGE TREATMENT PLANT WITH LAB SPACE TO TEST WATER, ETC. AND TOILET ROOMS LOCKER ROOMS FOR STAFF				
CODE SUMMARY				
ITEM	CODE SECTION	REQUIRED / ALLOWED	PROVIDED	REMARKS
OCCUPANCY				
B (BUSINESS) OFFICES WITH INCIDENTAL STORAGE / MECH. SPACE	304.1			
INCIDENTAL STORAGE / MECHANICAL SPACE	TABLE 302.1.1			
SEPARATED USES	302.3.2	N/A		SINGLE OCCUPANCY
GENERAL DESCRIPTION OF BUILDING				
1 STORY				
FLOOR AREA			4,978 SF	
CONSTRUCTION				COLD FORMED METAL FRAMED BEARING WALLS WITH POURED CONCRETE FOUNDATION WALLS, A POURED CONCRETE FLOOR SLAB ON GRADE, WITH ROOF FRAMING TO BE COLD FORMED METAL TRUSSES WITH STANDING SEAM METAL ROOF
OCCUPANCY SEPARATION				
SINGLE OCCUPANCY	N/A		NONE	
GENERAL BUILDING HEIGHT AND FIRE AREAS - BASED ON TYPE 5b CONSTRUCTION				
B OCCUPANCY HEIGHT (STORIES)	TABLE 504.4	1 STORY	1 STORY	
B OCCUPANCY HEIGHT (FEET)	TABLE 504.3	40 FEET	29 FEET	
B OCCUPANCY AREA	TABLE 506.2	ALLOWED - 6000 SF (NON-SPR)	4,978 SF	
TYPES OF CONSTRUCTION				
TYPE 5b	TABLE 601			
STRUCTURAL FRAME	TABLE 601	0	0	COLD FORMED METAL
BEARING EXTERIOR WALLS	TABLE 601	0	0	
BEARING WALLS - INTERIOR	TABLE 601	0	N/A	NONE
NONBEARING WALLS AND PARTITIONS-EXTERIOR	TABLE 601	SEE BELOW		
NONBEARING WALLS AND PARTITIONS-INTERIOR	TABLE 601	0	0	
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	TABLE 601	0	0	POURED CONCRETE SLAB ON GRADE
ROOF CONSTRUCTION	TABLE 601	0	0	COLD FORMED ROOF TRUSSES
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE				
FIRE SEPARATION DISTANCE	TABLE 602	GREATER THAN 30 FEET		NO RATING REQUIRED
FIRE RESISTANCE RATED CONSTRUCTION				
EXTERIOR WALLS	705	N/A		
FIRE WALLS	706	N/A		
FIRE BARRIERS	707	N/A		
SHAFT ENCLOSURES	713	N/A		
FIRE PARTITIONS	708	N/A		
DRAFT STOPPING IN ATTICS	708.4.2	N/A		
INTERIOR FINISHES				
B OCCUPANCY				
VERTICAL EXITS AND PASSAGEWAYS	TABLE 803.13	B	N/A	
EXIT ACCESS CORRIDORS AND OTHER EXITS	TABLE 803.13	B	A	PAINTED GYPSUM BOARD & OR/ SUSPENDED CLGS.
ROOM AND ENCLOSED SPACES	TABLE 803.13	C	A	PAINTED GYPSUM BOARD/ SUSPENDED CEILINGS
FIRE PROTECTION SYSTEMS				
AUTOMATIC SPRINKLER SYSTEMS	903	NOT REQUIRED	NOT PROVIDED	FIRE AREA IS LESS THAN 12,000 SF OCCUPANT LOAD IS 34 THE FIRE AREA IS THE LEVEL OF DISCHARGE
STANDPIPE SYSTEMS	905	N/A		
FIRE ALARM SYSTEM	907.2.1	NOT REQUIRED	PROVIDED	OCCUPANCY LOAD IS LESS THAN 500
MEANS OF EGRESS				
OCCUPANT LOAD	TABLE 1004.5	B - 150 SF / OCCUPANT	B - 4,978 / 150 = 34 PEOPLE	
B - BUSINESS OCCUPANCY			TOTAL - 34 PEOPLE	
EGRESS WIDTH - STAIRS	1005.3.1	0.3" PER OCCUPANT		
EGRESS WIDTH - OTHER	1005.3.2	0.2" PER OCCUPANT	DOORS 36" WIDE / 2 = 180 CAPACITY AT EACH OF 2 EXIT DOORS	
MEANS OF EGRESS ILLUMINATION	1008	REQUIRED		BUILDING EQUIPPED WITH STANDBY GENERATOR
ACCESSIBLE MEANS OF EGRESS	1009 / TABLE 1006.2.1	2 REQUIRED	2 PROVIDED	
AREA OF REFUGE	1009.6	NONE REQUIRED		
EXIT ACCESS	1016	N/A		
EXIT TRAVEL DISTANCE	TABLE 1017.2	200 FEET	LESS THAN 200 FEET	
ACCESSIBILITY				
GENERAL REQUIREMENTS	1101	REQUIRED	PROVIDED	
ONE STORY BUILDINGS	1104	SPACES ABOVE OR BELOW GRADE OVER 5,000 SF REQUIRED TO BE ACCESSIBLE	N/A	THE ENTIRE BUILDING WILL BE ACCESSIBLE AT GRADE ENTRY
PLUMBING FACILITIES				
B OCCUPANCY				
WATER CLOSETS	TABLE 2902.1	1 PER 25 FOR THE FIRST 50 1 PER 50 FOR THE REMAINDER (1 MALE / 1 FEMALE)	COMPLIES 1 MALE 1 FEMALE	
LAVATORIES	TABLE 2902.1	1 PER 40 FOR THE FIRST 80 1 PER 80 FOR THE REMAINDER (1 MALE / 1 FEMALE)	COMPLIES 1 MALE 1 FEMALE	
BATHUBS OR SHOWERS	TABLE 2902.1	NONE REQUIRED	3 PROVIDED	
DRINKING FOUNTAIN	TABLE 2902.1	1 PER 100	PROVIDED	



NOTE:
ALL SIGNAGE SHALL CONFORM WITH ADA ACCESSIBILITY GUIDELINES, INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF, AND GRADE 2 BRAILLE REQUIREMENTS.

ACCESSIBILITY SIGN
ANSI APPROVED E.S.
PLASTIC NEMA RATED
SELF EXTINGUISHING
ADHESIVE MOUNTED

1
G-901
ACCESSIBLE EXIT SIGNAGE DETAIL
SCALE: 3" = 1'-0"



PLACARDS SHALL BE LOCATED AT ALL EXTERIOR BUILDING ENTRANCE DOORS, EXTERIOR DISCHARGE DOORS, AND ADJACENT TO THE FIRE DEPARTMENT HOSE CONNECTION, NO MORE THAN 12" FROM THE LATCH SIDE OF THE DOOR JAMB, OR HOSE CONNECTION, MOUNTED BETWEEN 42" AND 60" ABOVE THE ADJACENT WALKING SURFACE

3
G-901
TRUSS PLACARD DETAIL
SCALE: 3" = 1'-0"

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EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

CONTROL BUILDING -
EGRESS PLAN, CODE
ANALYSIS & DETAILS

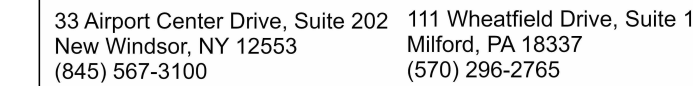
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NO.	DESCRIPTION	DATE

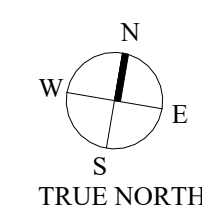
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DRAWN BY: CH, EDII
CHECKED BY: AW
REVIEWED BY: ML

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G-901

PROJECT # 18-732 PHASE #



SHEET NO.

PROJECT #	18-732	PHASE #
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FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553**

CONTROL BUILDING - ROOF PLAN & DETAILS

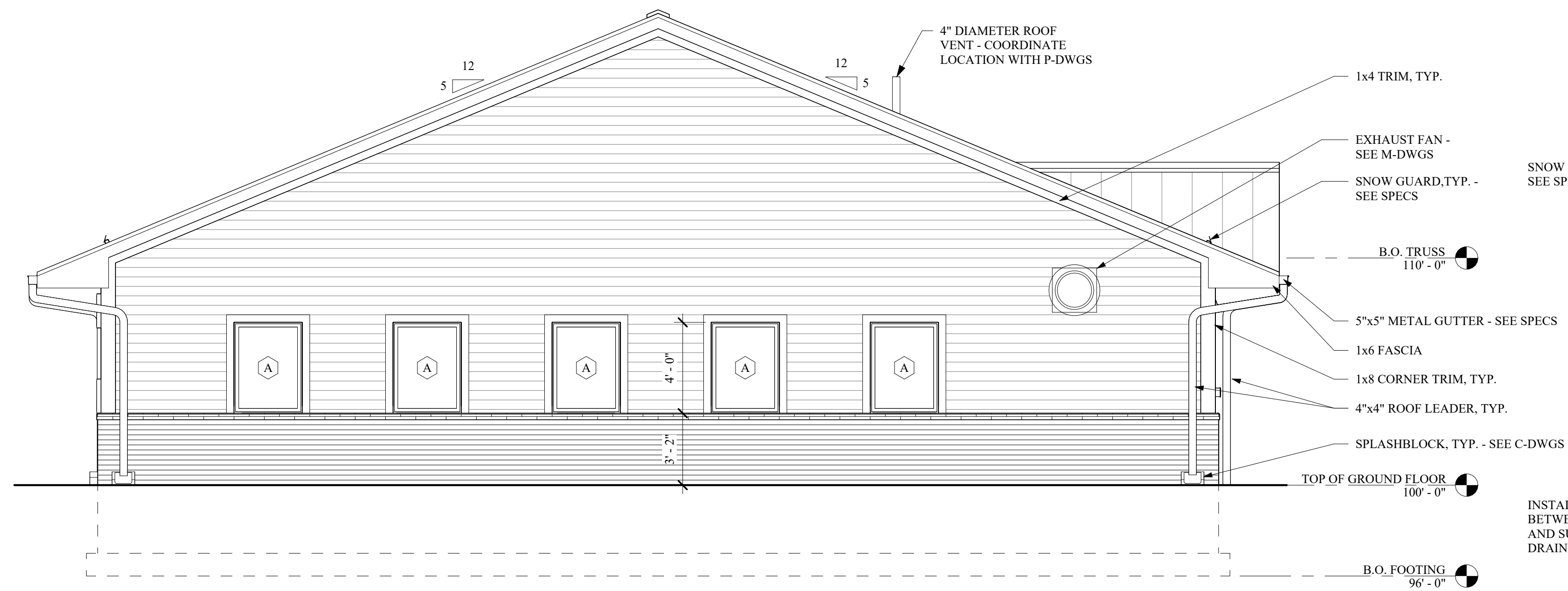
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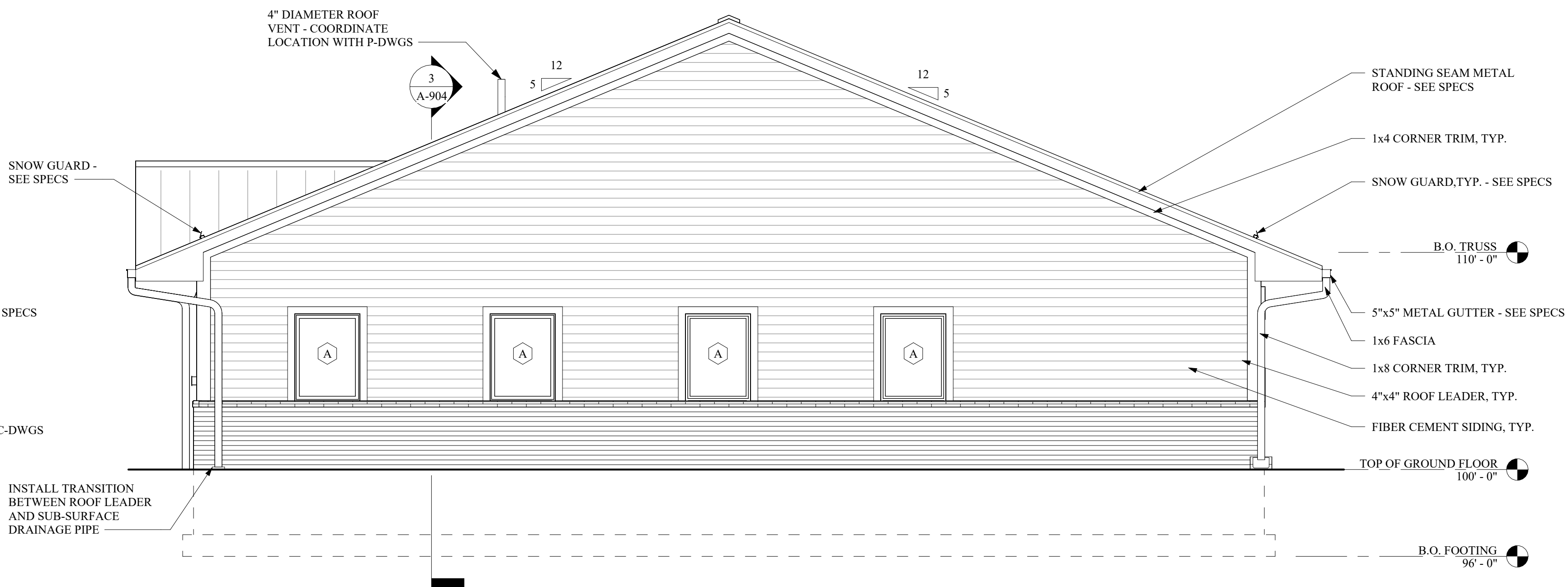
A-902

PROJECT #	18-732	PHASE #
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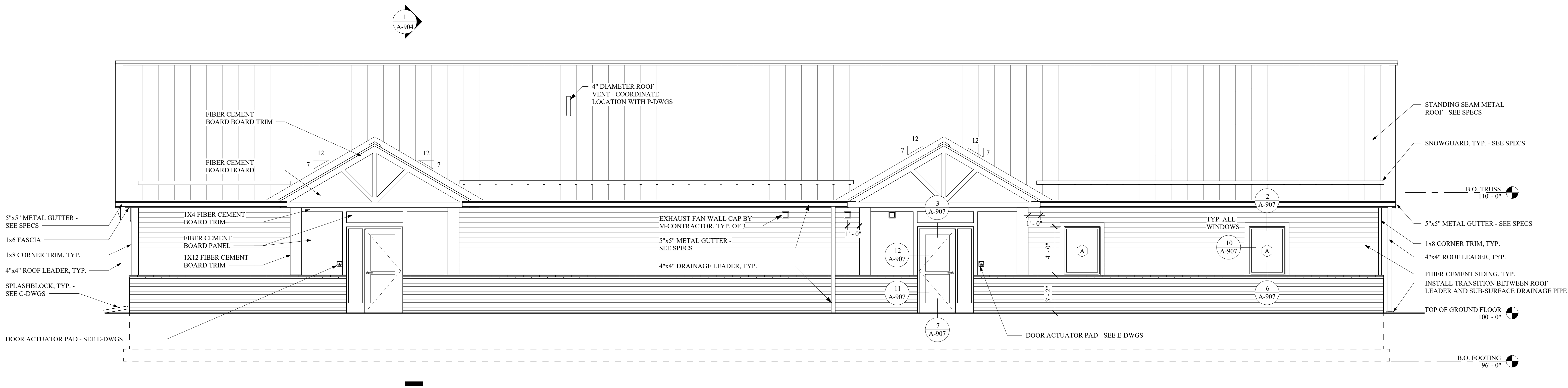
BID SET



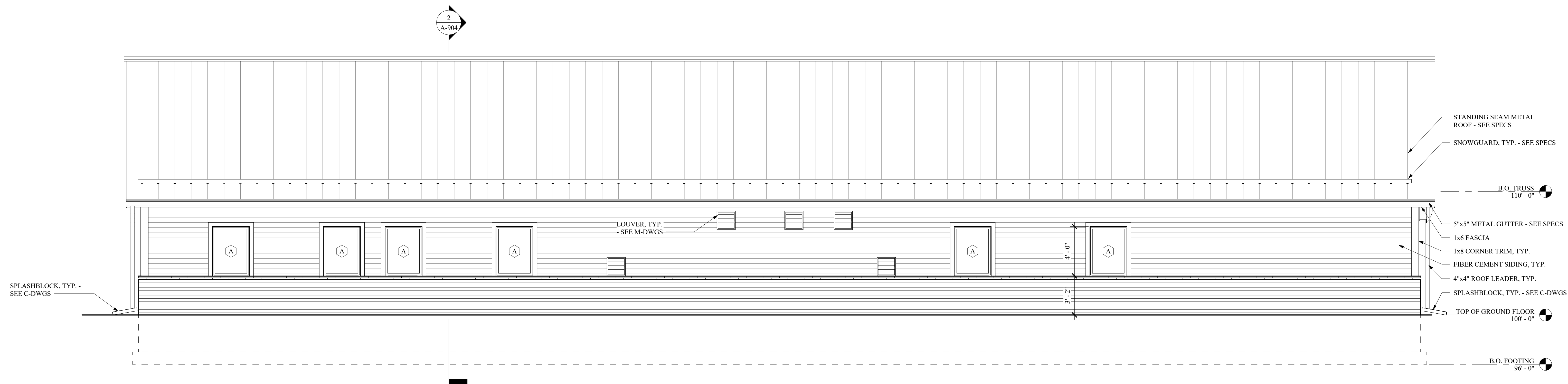
1 WEST ELEVATION
A-903 SCALE: 1/4" = 1'-0"



2 EAST ELEVATION
A-903 SCALE: 1/4" = 1'-0"



3 SOUTH ELEVATION
A-903 SCALE: 1/4" = 1'-0"



4 NORTH ELEVATION
A-903 SCALE: 1/4" = 1'-0"



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NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
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CONTROL BUILDING -
EXTERIOR ELEVATIONS

REVISIONS		
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PROJECT # 18-732 PHASE #

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NEW WINDSOR, NY 12553

CONTROL BUILDING -
SECTIONS

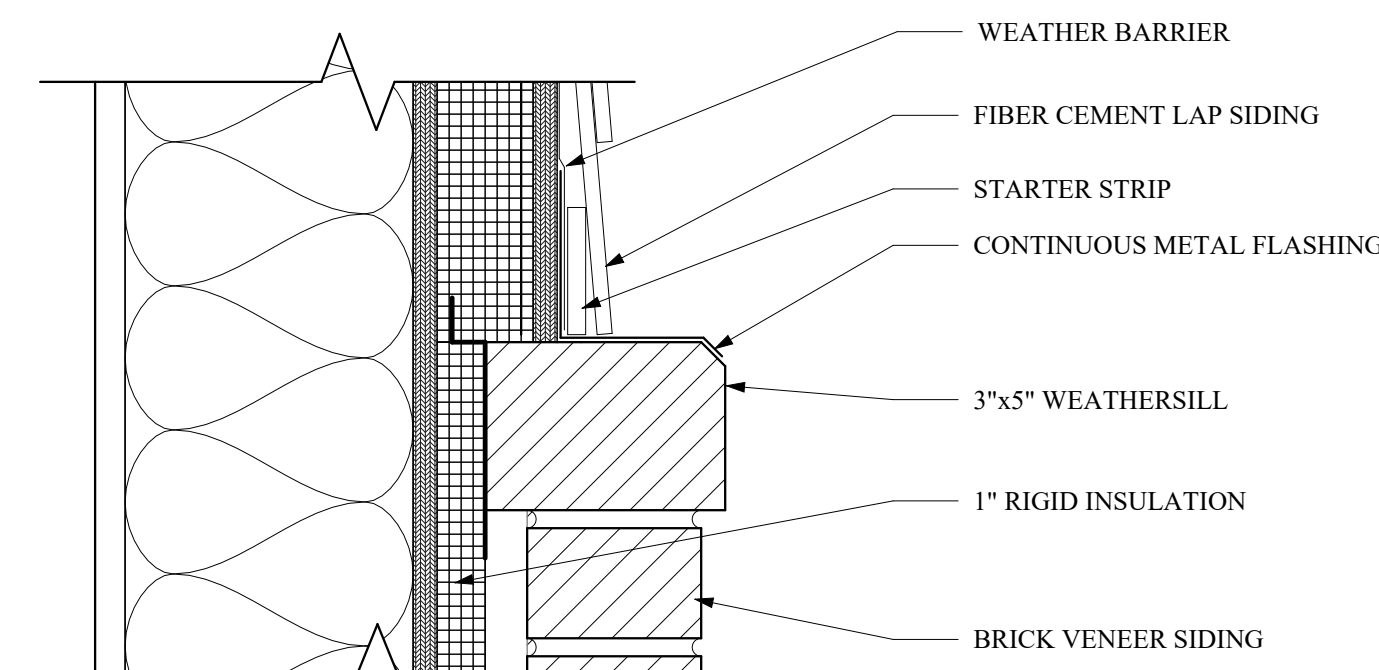
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	AW
DRAWN BY:	TS, EDIII, CH
CHECKED BY:	AW
REVIEWED BY:	ML

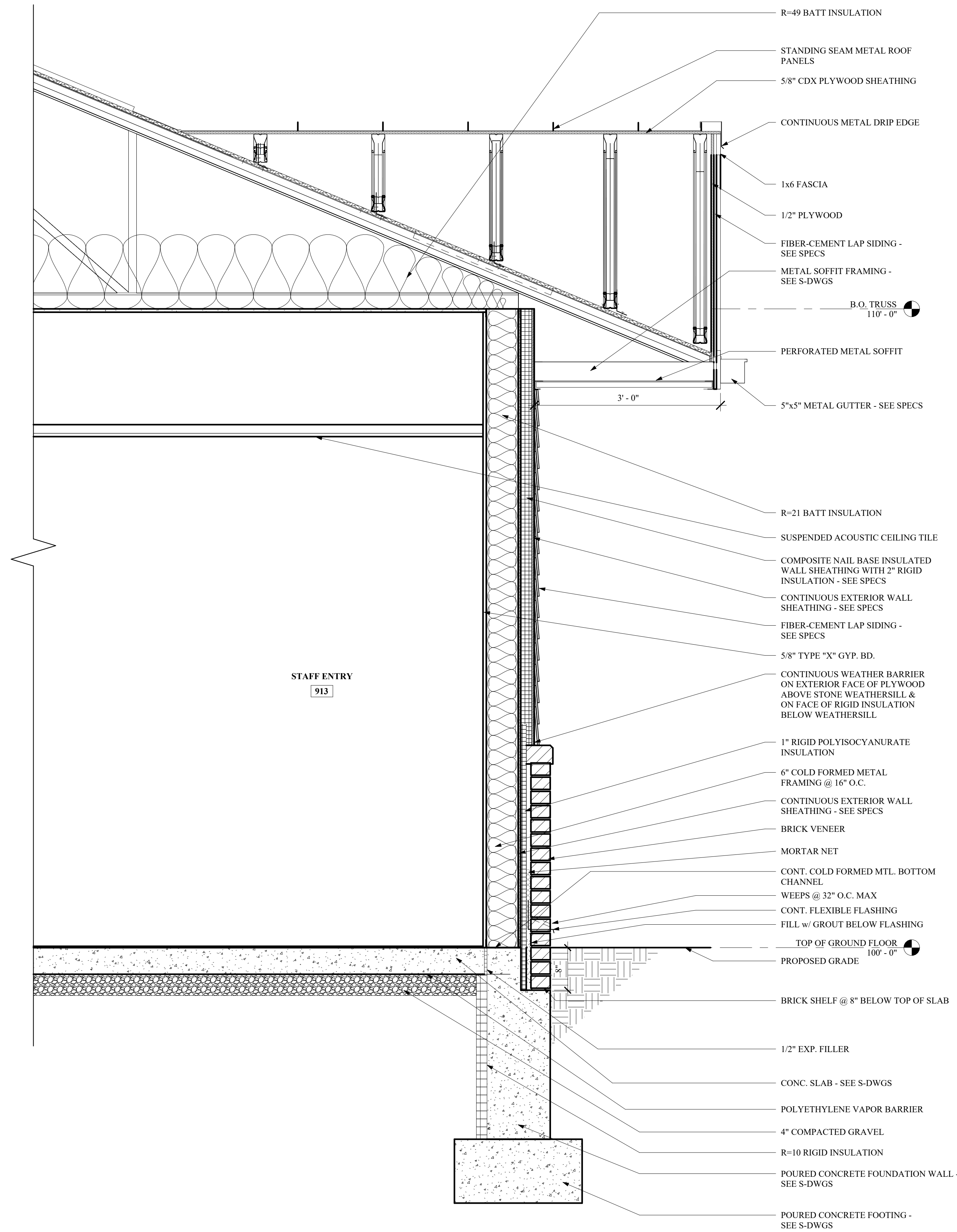
SHEET NO.

A-904

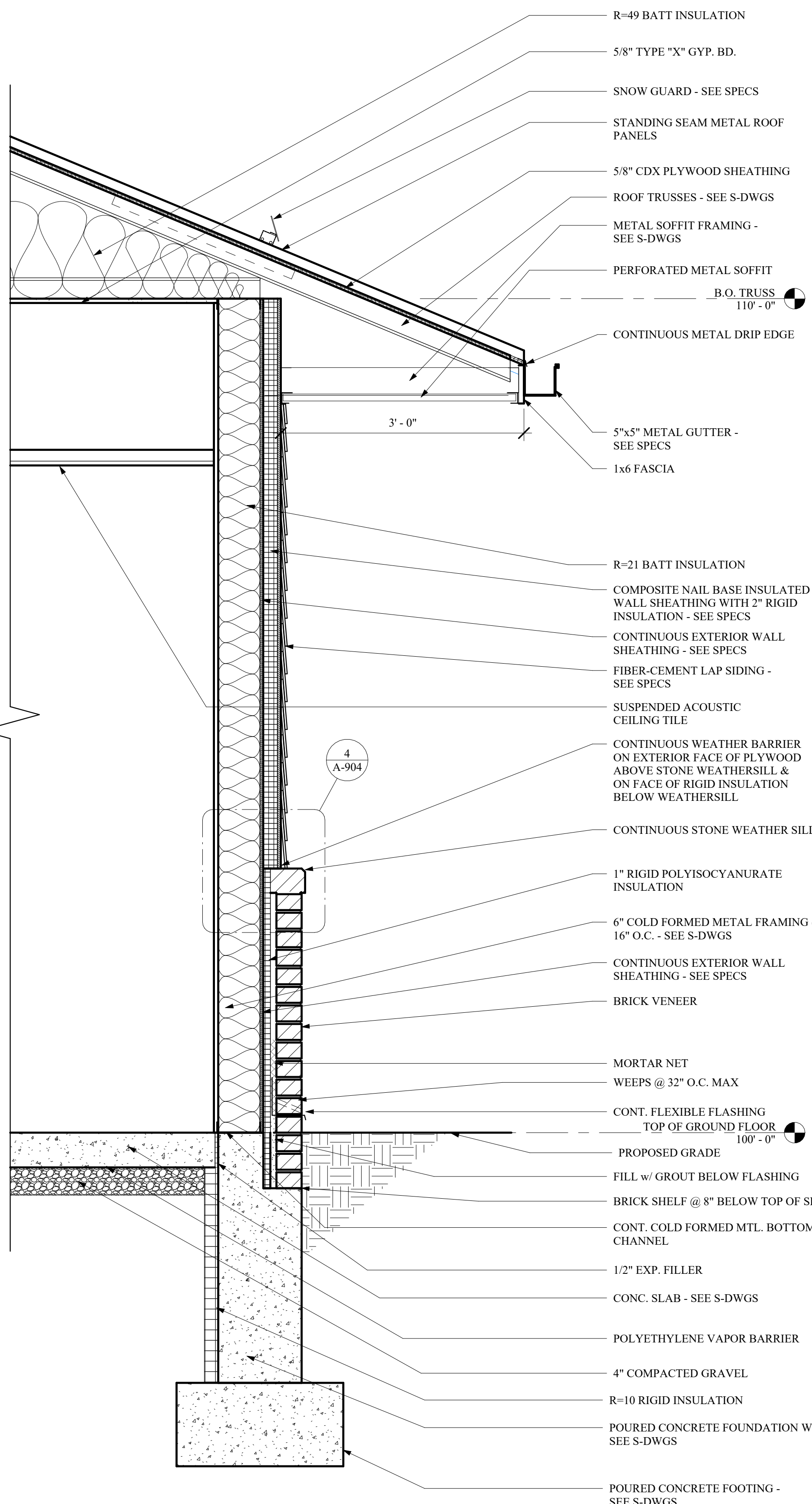
PROJECT # 18-732 PHASE #



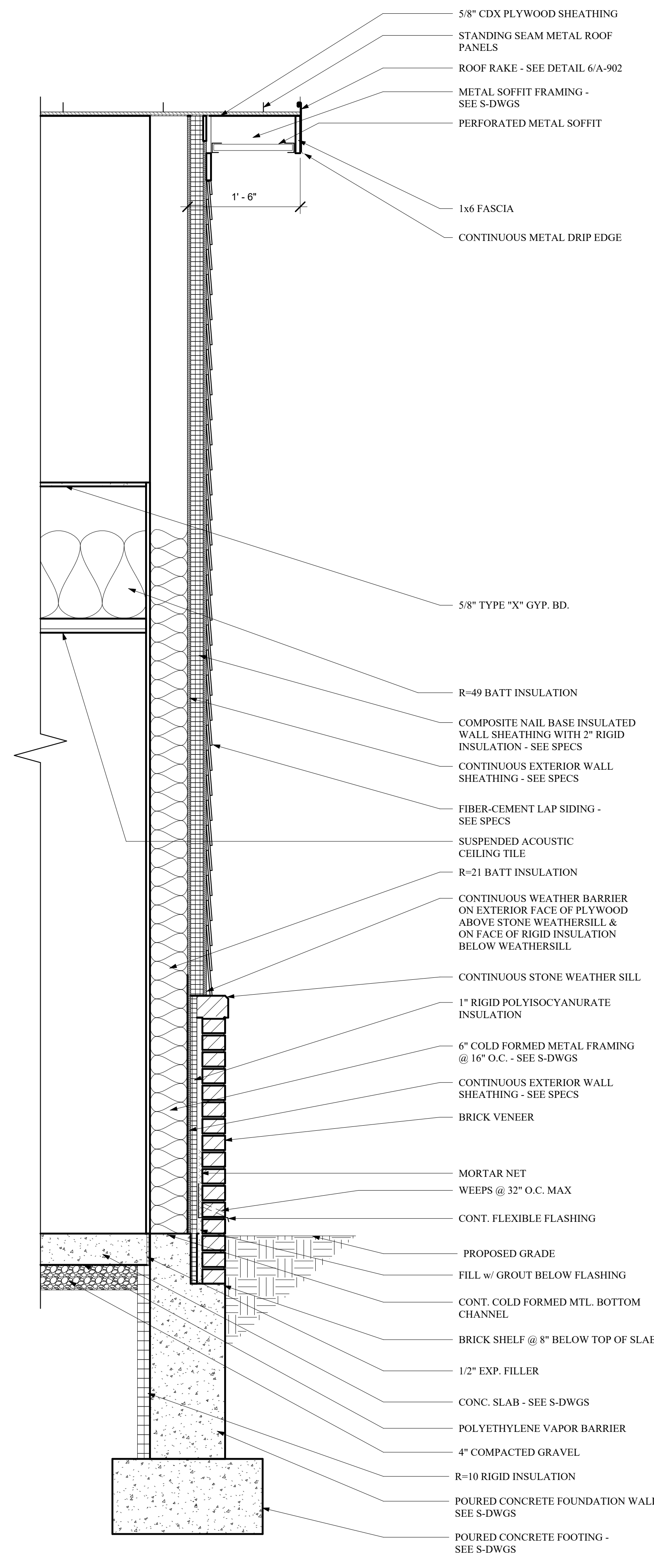
4 WEATHERSILL DETAIL, TYP.
SCALE: 3" = 1'-0"



1 TYPICAL DORMER SECTION
SCALE: 1" = 1'-0"



2 TYPICAL WALL SECTION
SCALE: 1" = 1'-0"



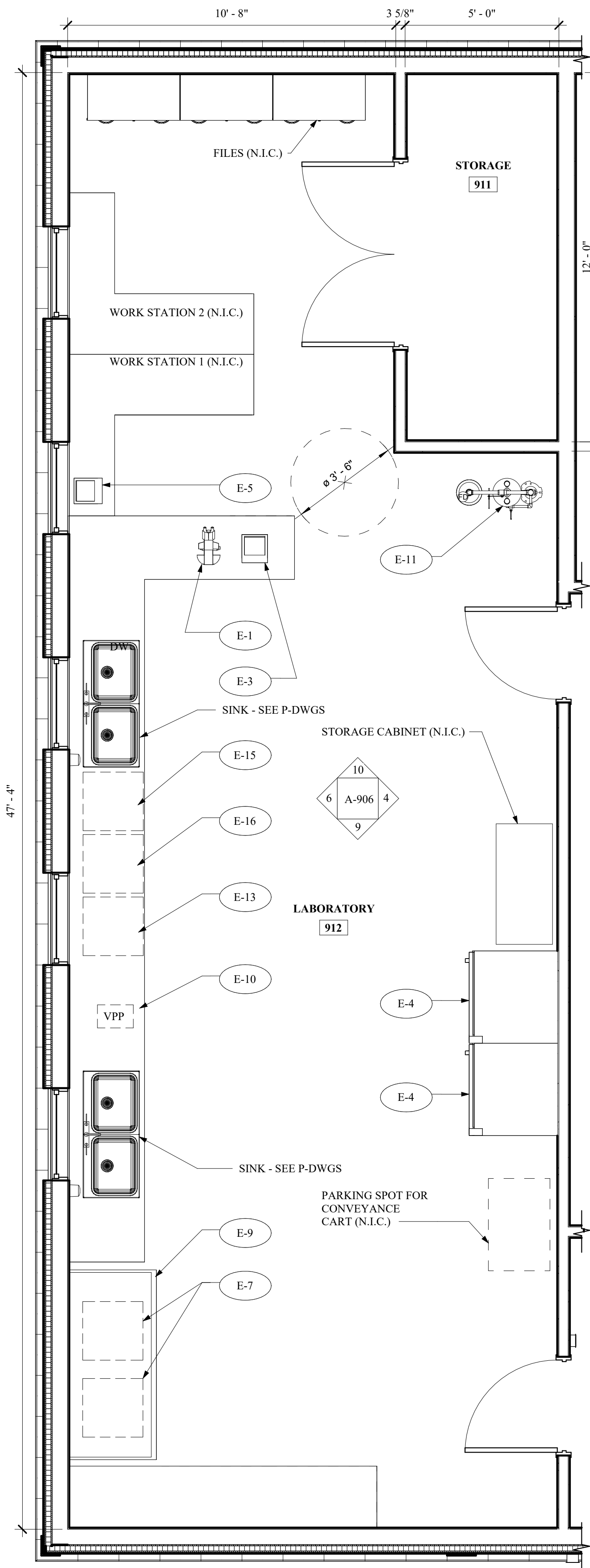
3 TYPICAL GABLE SECTION
SCALE: 1" = 1'-0"

EQUIPMENT AND FURNITURE
LOCATIONS FOR REFERENCE
PURPOSES ONLY

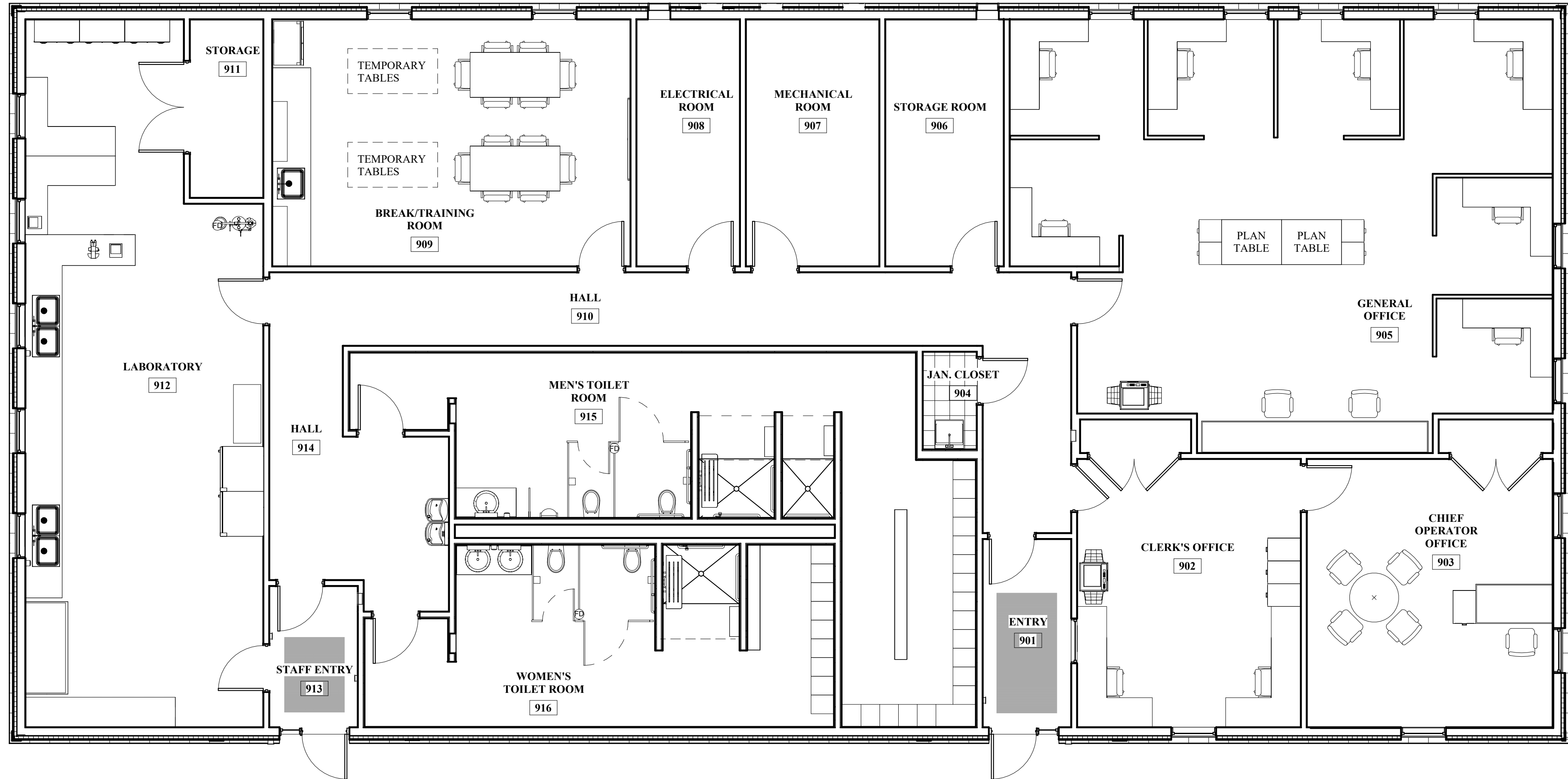
NOT IN CONTRACT UNLESS
NOTED OTHERWISE

LAB EQUIPMENT

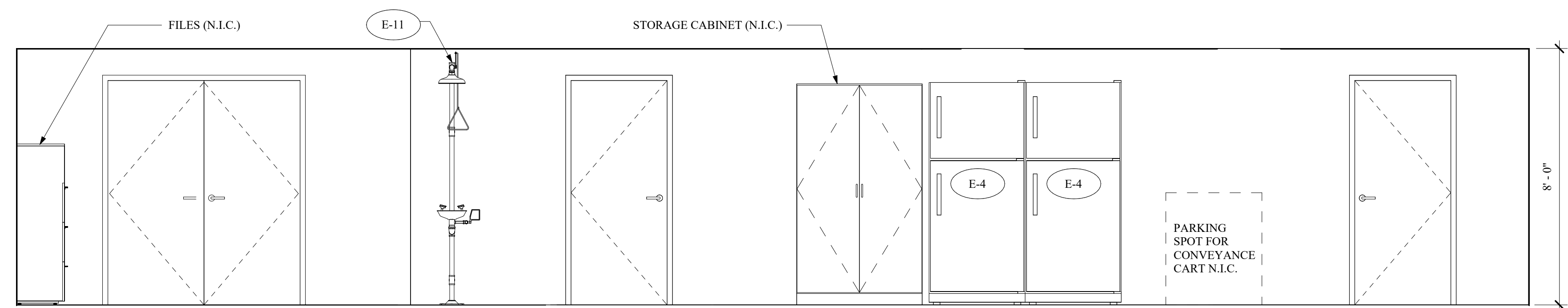
- E-1 MICROSCOPE
E-2 DO METER
E-3 BENCH pH METER
E-4 (2) REFRIGRATOR/ FREEZER - SEE SPECS
E-5 ANALYTICAL BALANCE
E-6 MOISTURE DETERMINATION BALANCE
E-7 (2) DRYING OVEN IN FUME HOOD - SEE SPECS
E-8 TOP LOADER BALANCE
E-9 FUME HOOD - SEE SPECS
E-10 VACUUM PRESSURE PUMP
E-11 SAFETY SHOWER & EYE WASH - SEE P-DWGS & SPECS
E-12 (2) CABINET TYPE DESICCATOR
E-13 ACID CABINET - SEE SPECS
E-14 COMPOSITE SAMPLERS
E-15 DISHWASHER - SEE SPECS
E-16 CORROSIVE CABINET - SEE SPECS



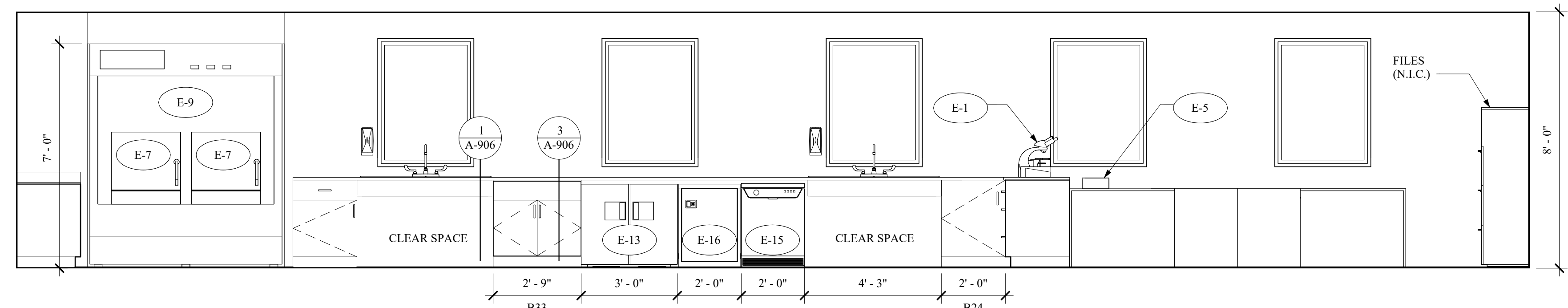
8 LAB FLOOR PLAN
A-906 SCALE: 3/8" = 1'-0"



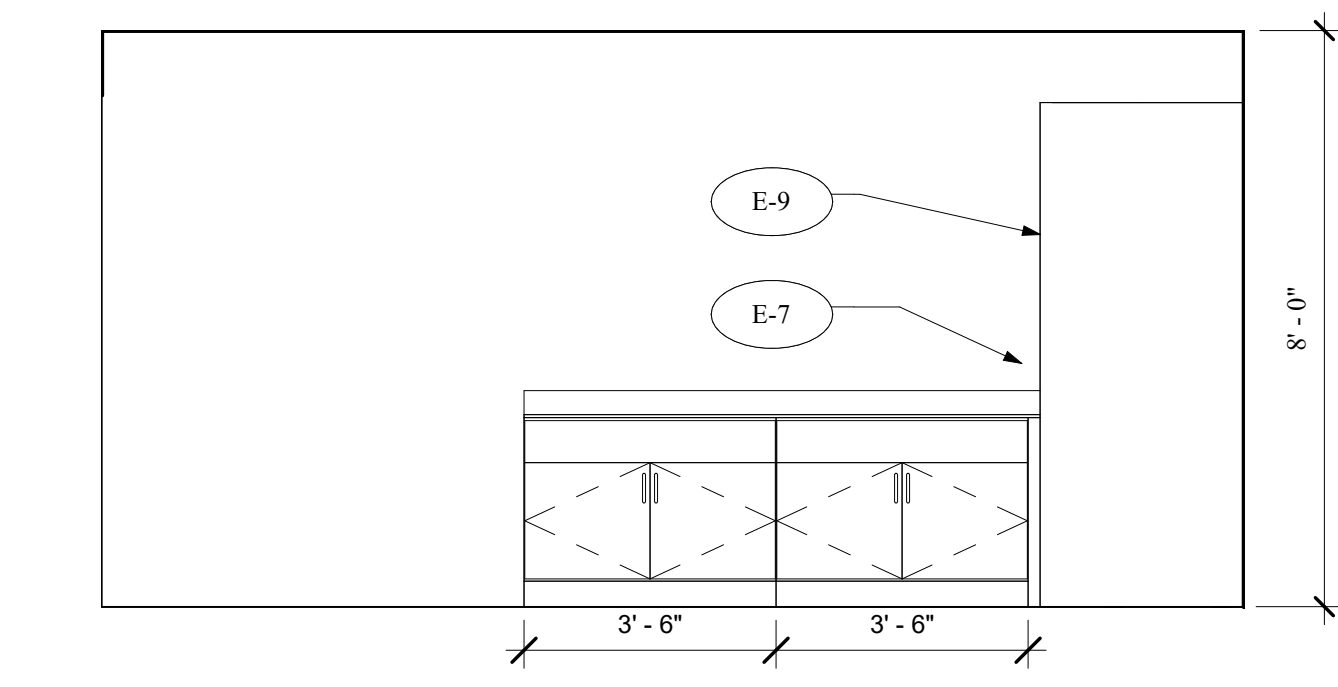
2 GROUND FLOOR FURNITURE PLAN
A-906 SCALE: 3/16" = 1'-0"



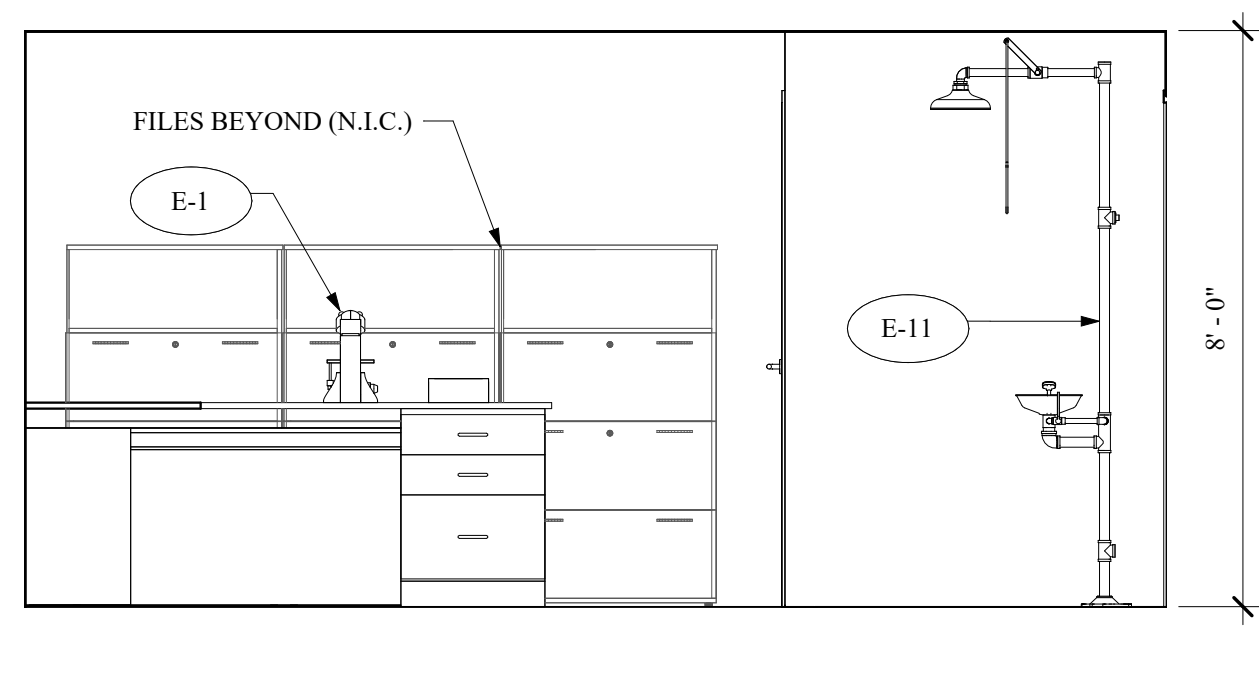
4 LAB ELEVATION
A-906 SCALE: 3/8" = 1'-0"



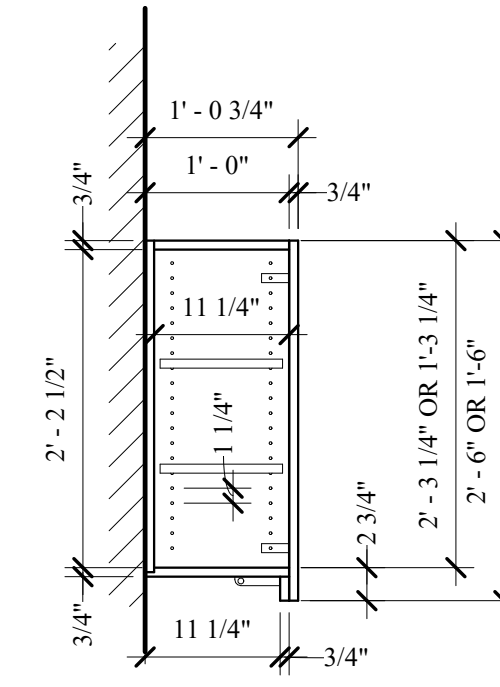
6 LAB ELEVATION
A-906 SCALE: 3/8" = 1'-0"



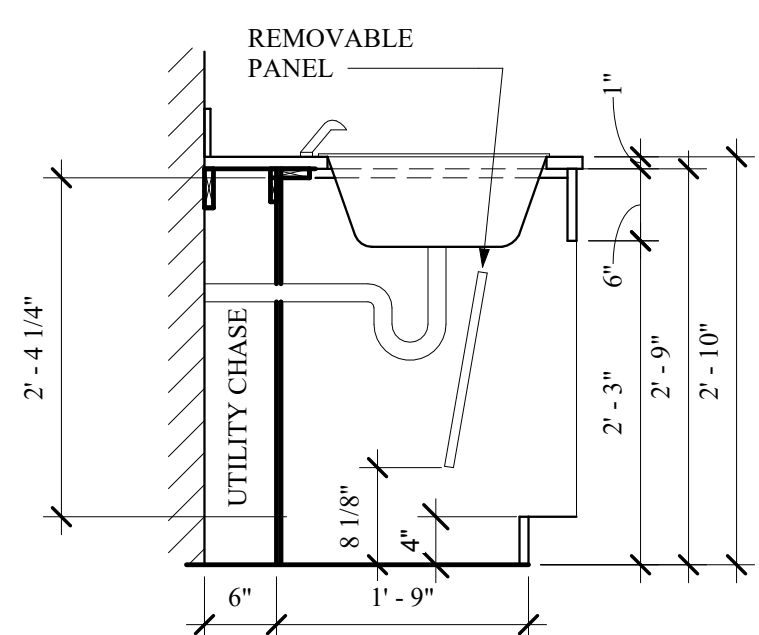
9 LAB ELEVATION
A-906 SCALE: 3/8" = 1'-0"



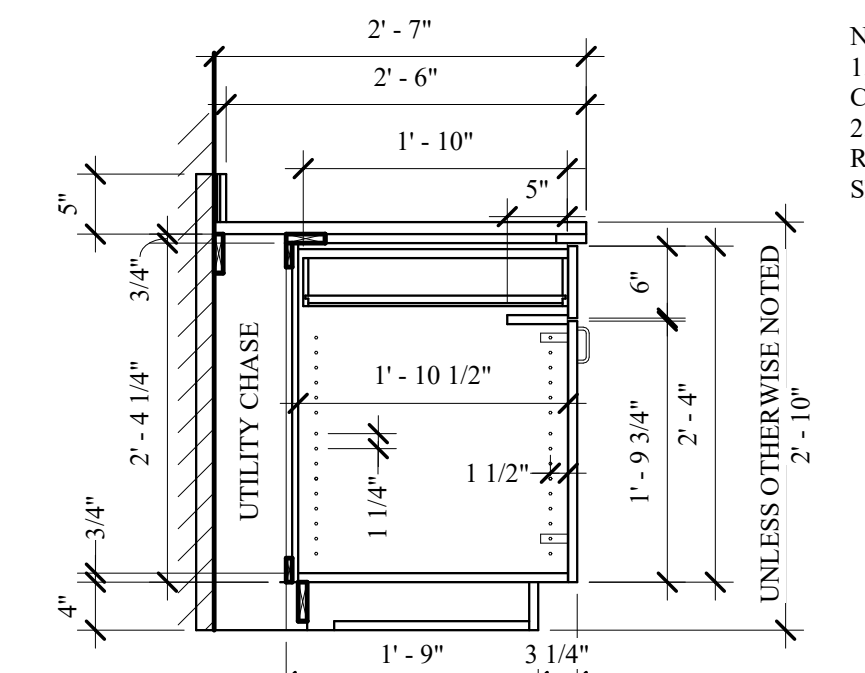
10 LAB ELEVATION
A-906 SCALE: 3/8" = 1'-0"



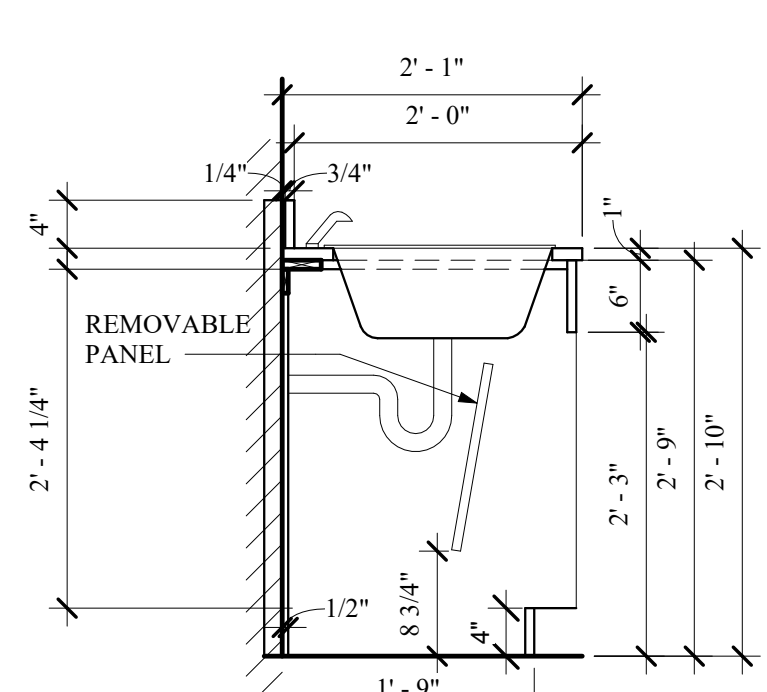
11 WALL CABINET DETAIL
A-906 SCALE: 3/4" = 1'-0"



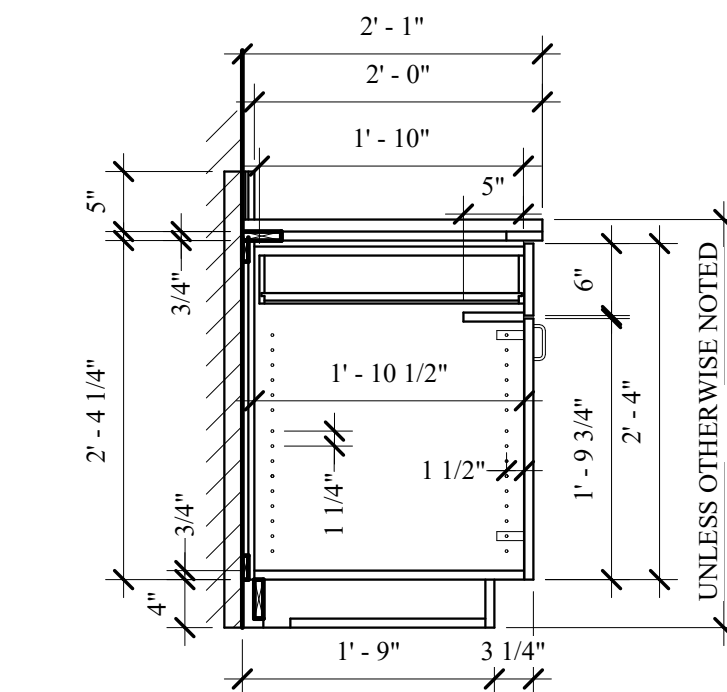
1 METAL LAB CASEWORK @ SINK
A-906 SCALE: 3/4" = 1'-0"



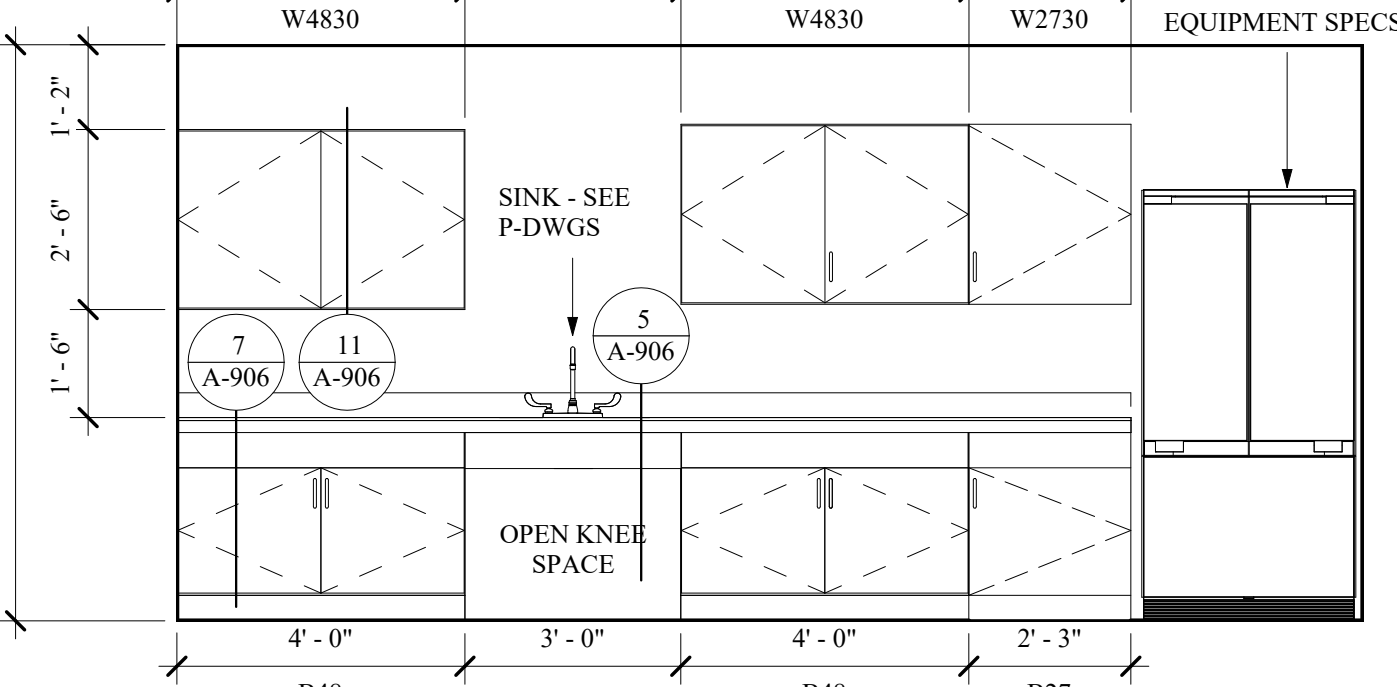
3 METAL LAB CASEWORK DRAWER W/ DOOR
A-906 SCALE: 3/4" = 1'-0"



5 WOOD CABINET SINK BASE
A-906 SCALE: 3/4" = 1'-0"



7 WOOD BASE CABINET WITH DOOR
A-906 SCALE: 3/4" = 1'-0"



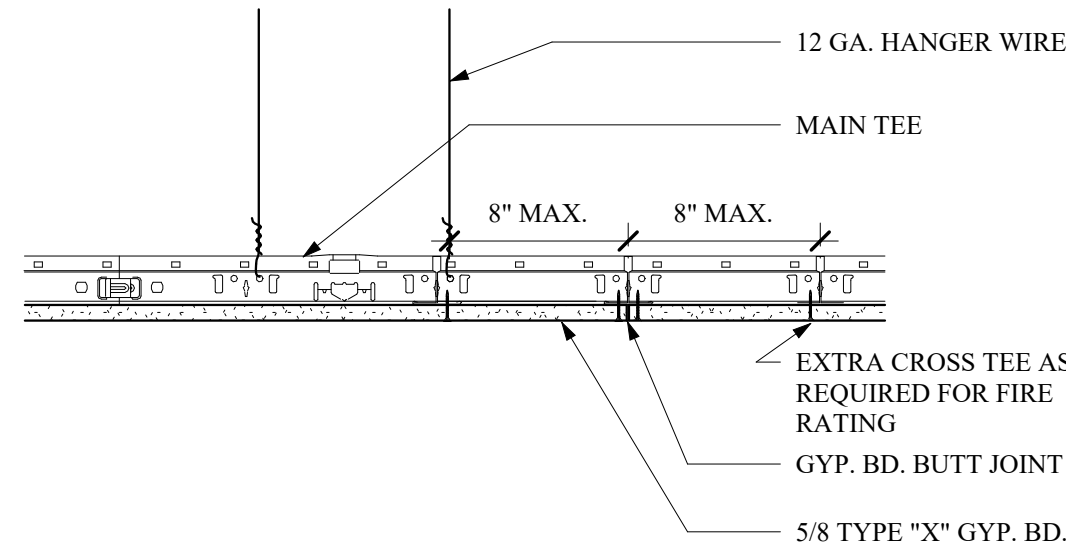
12 BREAK ROOM ELEVATION
A-906 SCALE: 3/8" = 1'-0"

BID SET

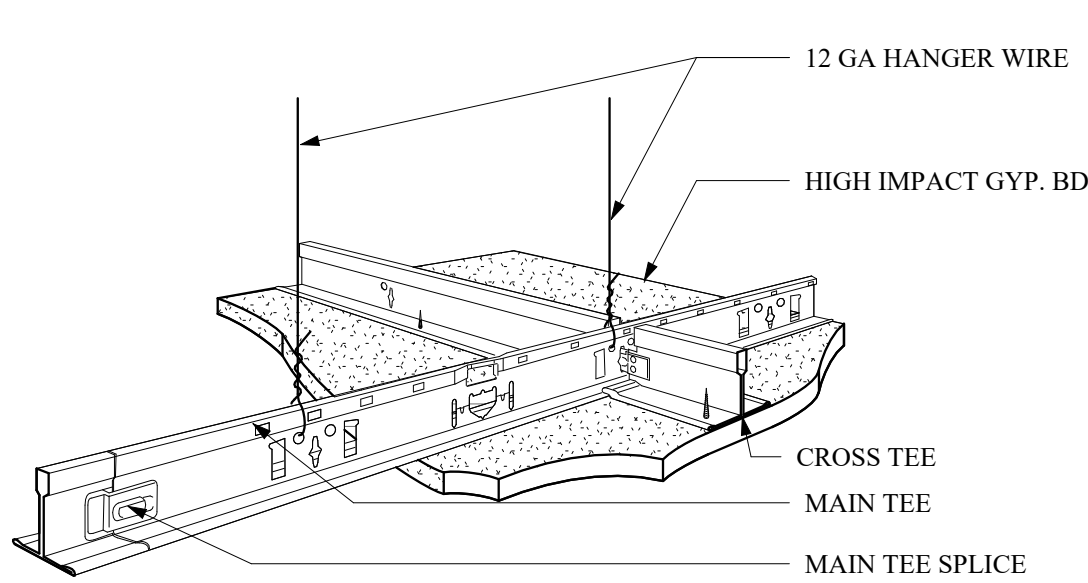
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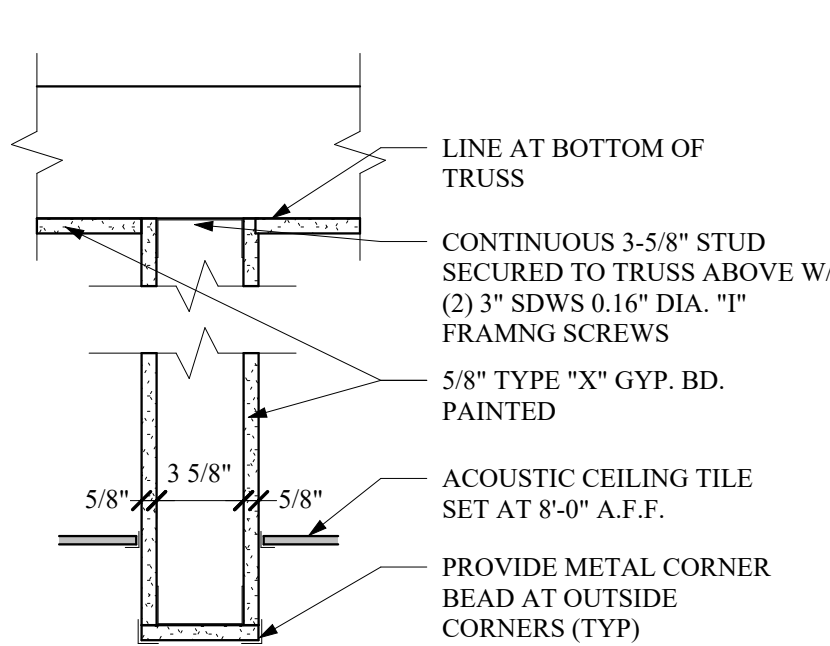
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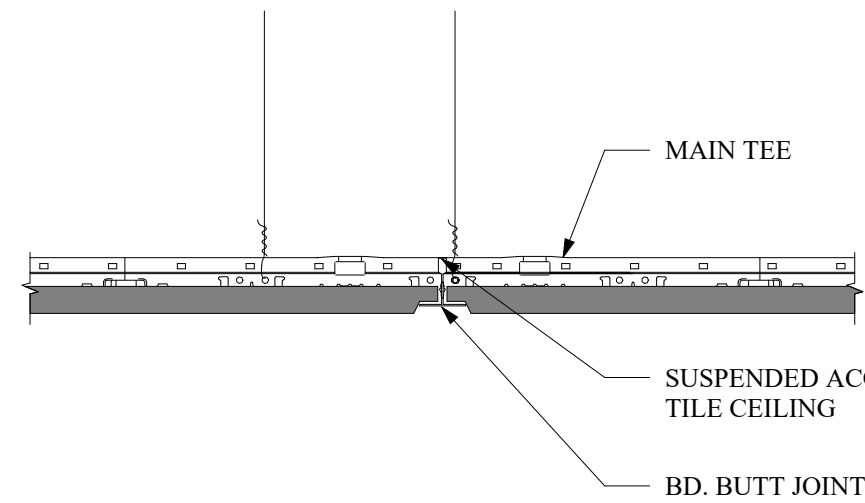
1 GYP. BD. SUSPENSION DETAIL
A-908 SCALE: 3" = 1'-0"



2 GYP. BD. SUSPENSION DETAIL
A-908 SCALE: 3" = 1'-0"



3 CEILING HEIGHT CHANGE DETAIL
A-908 SCALE: 1 1/2" = 1'-0"

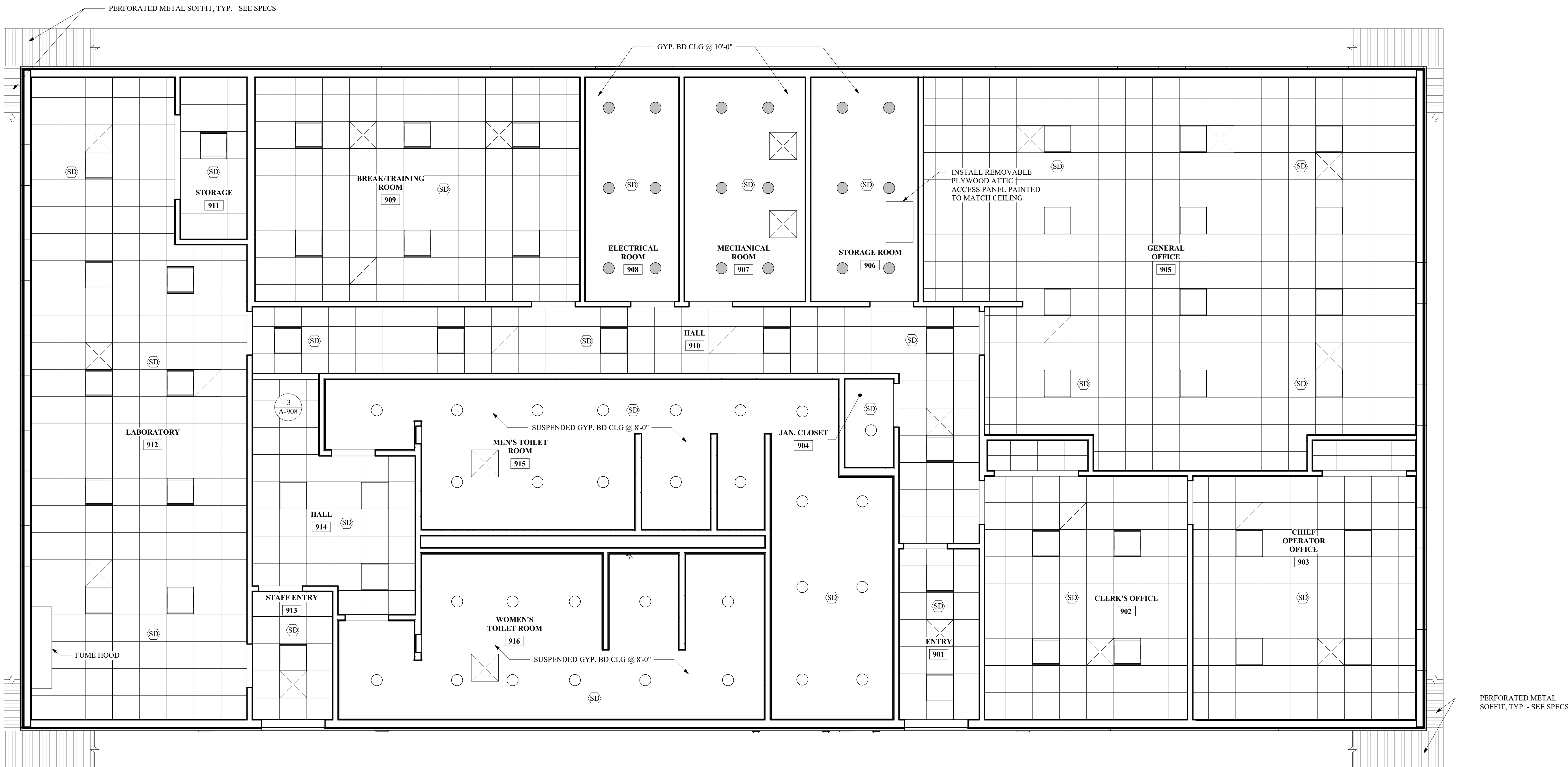


4 ACOUSTIC CEILING TILE DTL
A-908 SCALE: 3" = 1'-0"

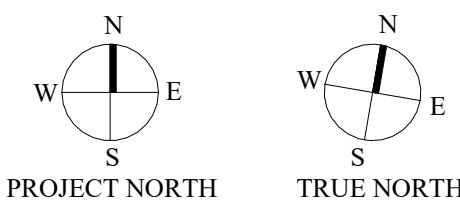
NOTES:
1. ALL CEILING HEIGHTS TO BE AT 8'-0" A.F.F. UNLESS NOTED OTHERWISE
3. INSTALL 5/8" GYP. BD. AT BOTTOM OF TRUSSES THROUGHOUT ENTIRE BUILDING

LEGEND

- | | | | |
|--|--|--|---|
| | 2' x 2' LED LIGHT
-SEE ELECTRICAL DWG | | CARBON MONOXIDE DETECTOR
-SEE ELECTRICAL DWG |
| | RECESSED CEILING LIGHT
-SEE ELECTRICAL DWG | | SMOKE DETECTOR
-SEE ELECTRICAL DWG |
| | SURFACE MOUNTED CEILING LIGHT
-SEE ELECTRICAL DWG | | HEAT DETECTOR
-SEE ELECTRICAL DWG |
| | CEILING DIFFUSER
-SEE MECHANICAL DWG | | OCCUPANCY SENSOR
-SEE ELECTRICAL DWG |
| | RETURN AIR GRILL
-SEE MECHANICAL DWG | | |



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



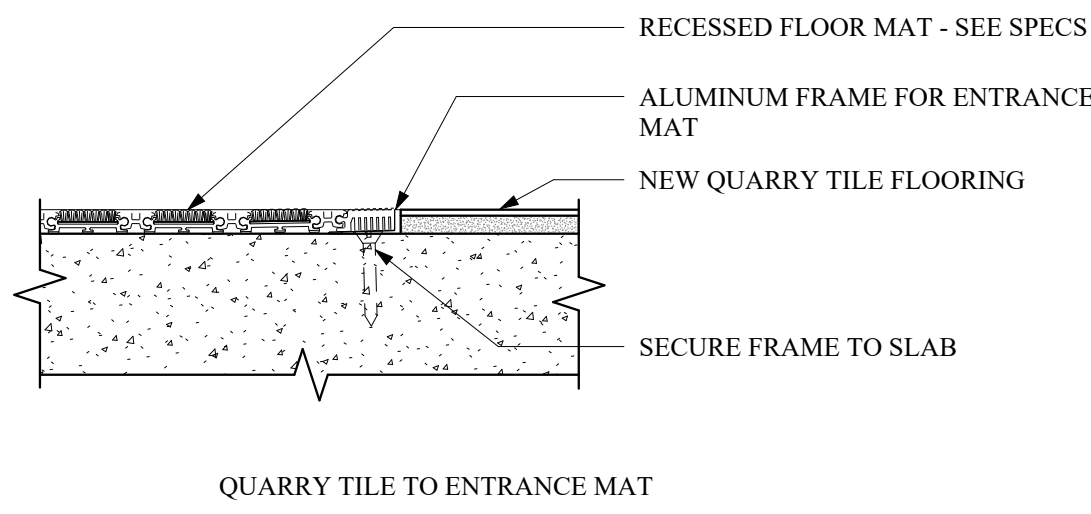
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REVISIONS		
NO.	DESCRIPTION	DATE

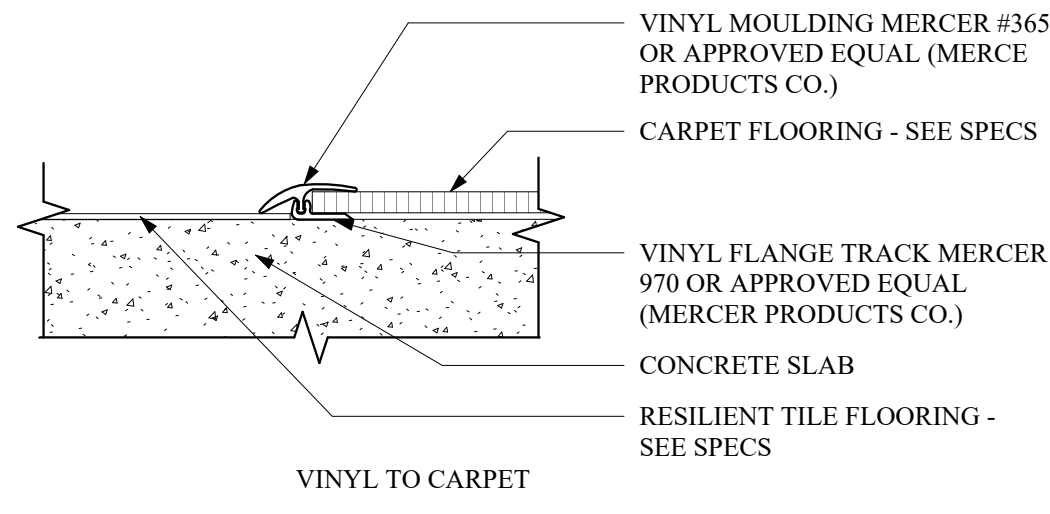
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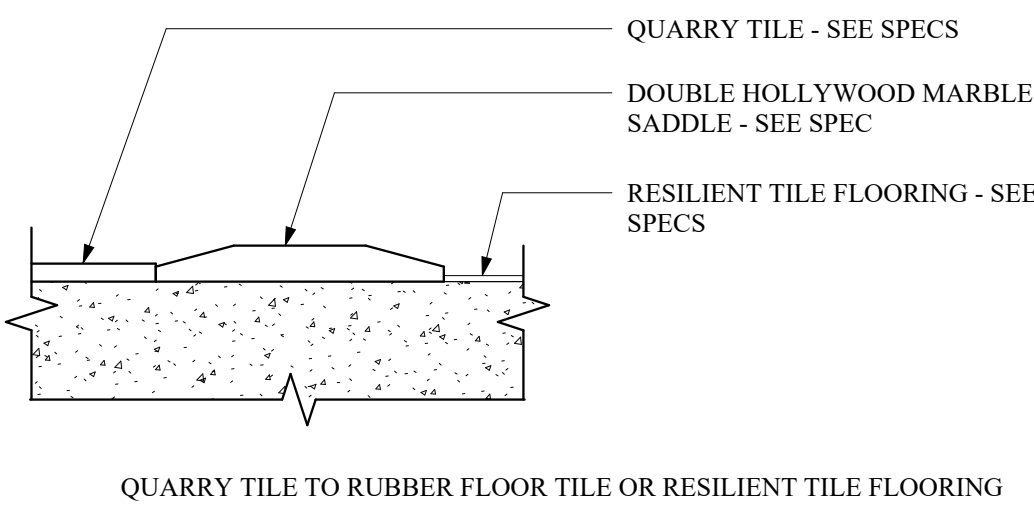
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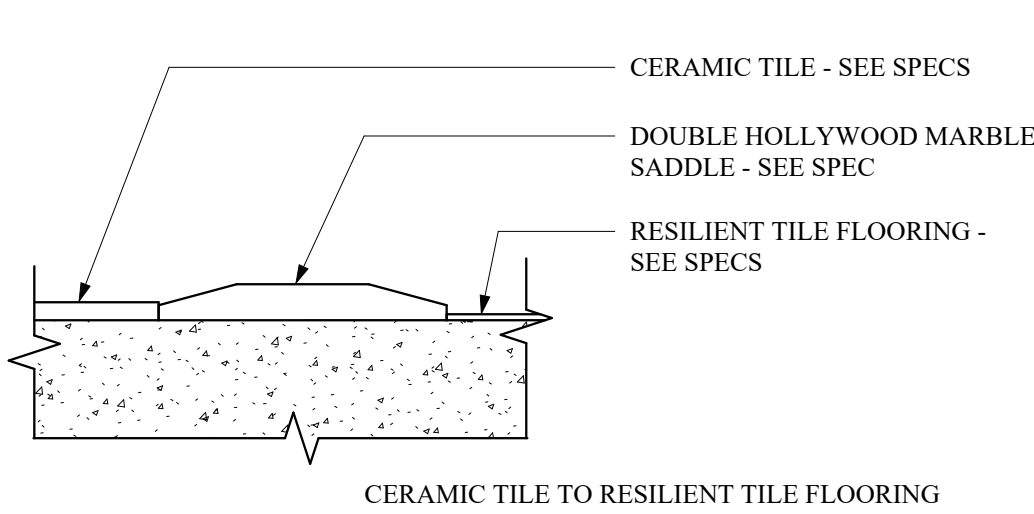
1 RECESSED FLOOR MAT DETAIL
SCALE: 3" = 1'-0"



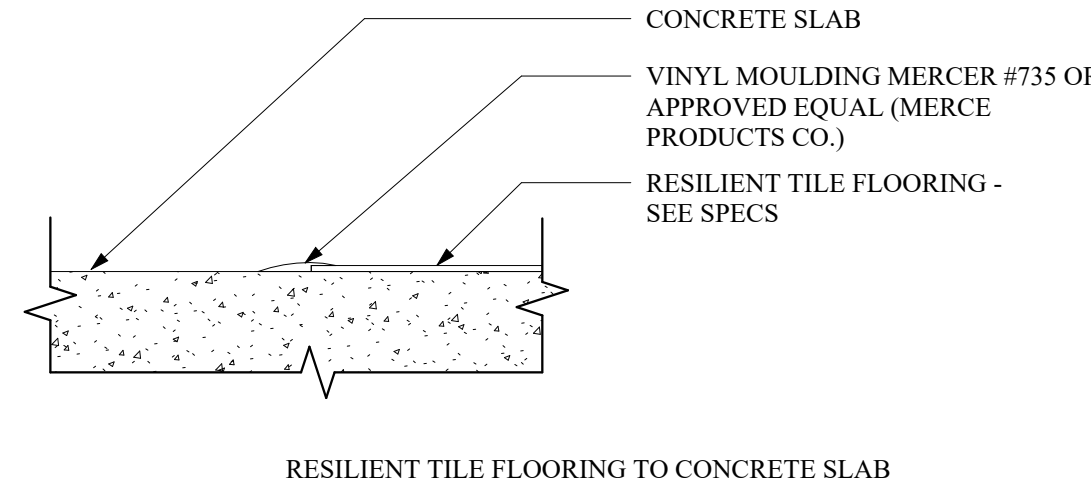
2 FLOOR TRANSITION DETAIL
SCALE: 3" = 1'-0"



3 FLOOR TRANSITION DETAIL
SCALE: 3" = 1'-0"



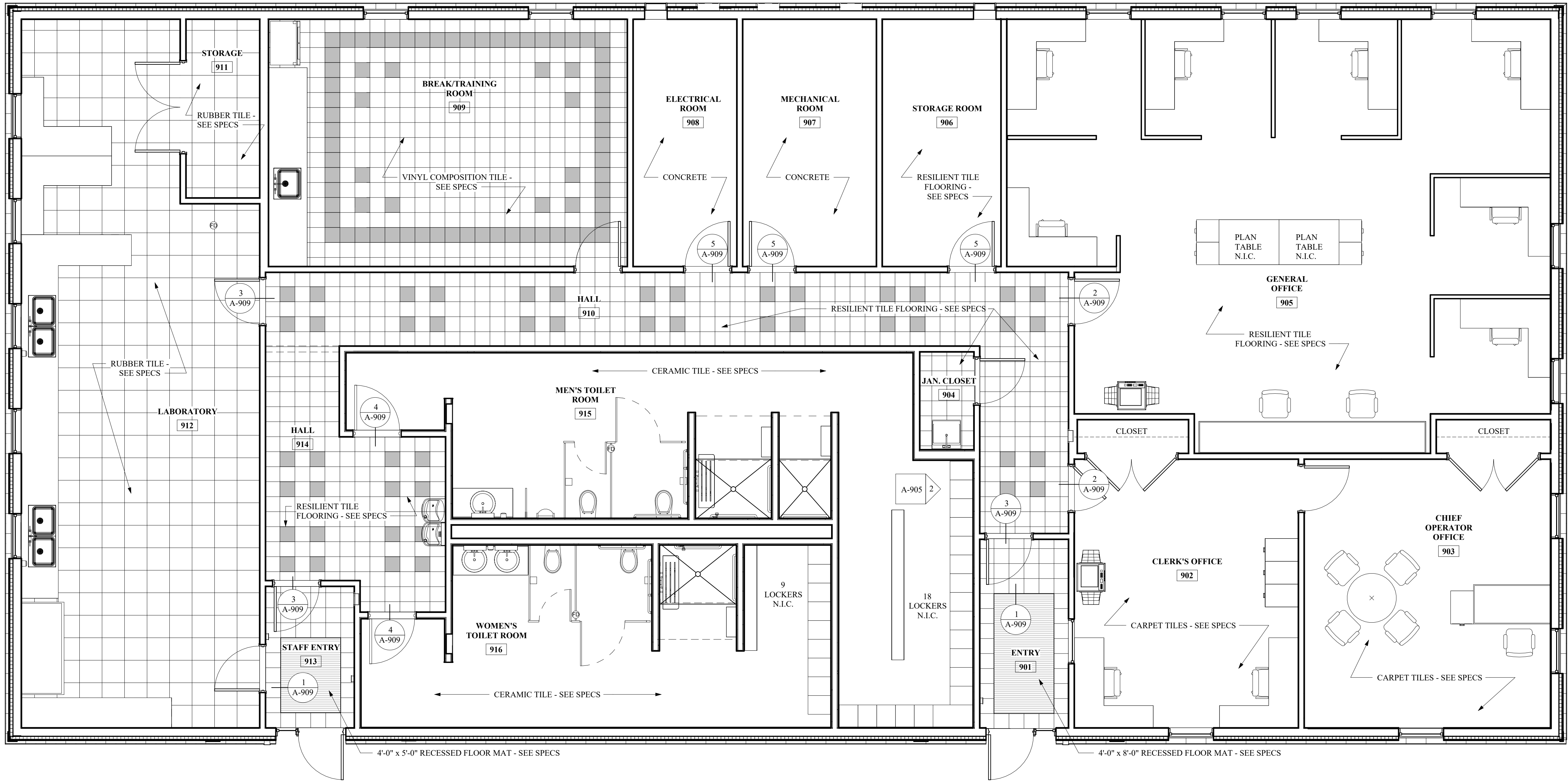
4 FLOOR TRANSITION DETAIL
SCALE: 3" = 1'-0"



5 FLOOR TRANSITION DETAIL
SCALE: 3" = 1'-0"

FINISH SCHEDULE												
ROOM No.	ROOM NAME	FLOOR					BASE		WALLS	CEILING		
		RESILIENT TILE FLOORING	RUBBER FLOOR TILE	CARPET	CERAMIC FLOOR TILE CT-1	CERAMIC FLOOR TILE CT-2	CONCRETE W/ SEALANT	4" RESILIENT COVE	CERAMIC TILE BASE	CERAMIC TILE BASE	NONE	58" TYPE "X" GYP. BD. - PAINTED
901	ENTRY											
902	CLERK'S OFFICE			X			X				X	X
903	CHIEF OPERATOR OFFICE			X			X				X	X
904	JAN. CLOSET	X					X				X	X
905	GENERAL OFFICE	X					X				X	X
906	STORAGE ROOM	X					X					X
907	MECHANICAL ROOM						X			X	X	X
908	ELECTRICAL ROOM						X			X	X	X
909	BREAK/TRAINING ROOM	X					X			X	X	X
910	HALL	X					X			X	X	
911	STORAGE		X					X		X	X	
912	LABORATORY		X				X			X	X	
913	STAFF ENTRY				X	X		X		X	X	
914	HALL	X					X			X	X	
915	MEN'S TOILET ROOM				X			X			X	X
916	WOMEN'S TOILET ROOM				X			X			X	X

NOTES: -CLOSETS TO BE FINISHED THE SAME AS THE ADJOINING ROOM UNLESS OTHERWISE NOTED
-SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS



FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

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REVIEWED BY:	ML

SHEET NO.

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RETAINING WALL UNITS:

1. PRECAST MODULAR BLOCKS SHALL BE STONE STRONG UNITS MANUFACTURED UNDER LICENSE FROM STONE STRONG L.L.C...
2. WALL UNITS SHALL CONFORM TO ASTM C1776.
3. DIMENSION TOLERANCES FOR PRECAST MODULAR BLOCKS SHALL BE + $\frac{1}{8}$ " FOR HEIGHT, $\pm\frac{1}{8}$ " FOR LENGTH (ALONG FACE), AND + $\frac{1}{2}$ " TO - $\frac{1}{4}$ " FOR WIDTH (FACE TO TAIL).
4. CONCRETE FOR PRECAST MODULAR BLOCKS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000PSI. ENTRAINED AIR CONTENT SHALL BE BETWEEN 5% AND 7%.
5. INTERNAL UNIT REINFORCEMENT OR UNREINFORCED UNITS SHALL BE PROVIDED ACCORDING TO PUBLISHED STONE STRONG ENGINEERING GUIDANCE. REINFORCED UNITS SHALL BE MARKED WITH THE TYPE OF REINFORCEMENT.
6. THE FACE PATTERN SHALL BE CHOSEN BY THE OWNER AND SELECTED FROM THE MANUFACTURER'S STANDARD MOLDS. THE COLOR OF THE UNITS SHALL BE NATURAL GRAY. A CONCRETE STAIN MAY BE FIELD APPLIED TO COLOR THE UNITS IF SPECIFIED BY THE OWNER. IF DESIRED BY OWNER, CONTRACTOR SHALL SEND PHYSICAL SAMPLES FOR REVIEW.
7. BLOCKS SHALL BE CONSISTENT AND FREE OF STAINS, DEFECTS, CRACKS, AND/OR CHIPS.
8. MINIMUM GRADE IN FRONT OF WALL - 0.75 FEET (9 INCHES).

LEVELING PAD (WALL BASE) MATERIAL:

1. THE WALL BASE SHALL BE AASHTO 57 STONE AND CONFORM TO THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1-1/2"	100
1"	95-100
1/2"	25-60
#4	0-10
#5	0-5
2. BASE THICKNESS = 9".

UNIT FILL MATERIAL:

1. THE WALL BASE SHALL BE AASHTO 57 STONE AND CONFORM TO THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1-1/2"	100
1"	95-100
1/2"	25-60
#4	0-10
#5	0-5

DRAINAGE TILE:

1. DRAINAGE AGGREGATE SHALL BE DURABLE CLEAN CRUSHED STONE HAVING AT LEAST TWO FRACTURED FACES AND COMPLY WITH THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	100 - 75
NO. 4	0 - 10
NO. 50	0 - 5
2. ROUNDED AGGREGATE (E.G. RIVER ROCK AND PEA GRAVEL) IS NOT ACCEPTABLE DRAINAGE AGGREGATE MATERIAL.
3. DRAIN TILE SHALL BE A 4" DIAMETER PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE.
4. THE DRAIN TILE SHALL BE DAYLIGHTED THROUGH THE WALL AS SHOWN ON THE PLANS.
5. WHERE DRAINAGE TILE PENETRATES THROUGH FACE OF WALL, PROVIDE RODENT SCREEN.
6. PROVIDE A GEOTEXTILE FILTER FOR SEPERATION FROM RETAINED SOIL BEHIND BLOCKS.
7. GEOTEXTILE SHALL BE A NONWOVEN FABRIC, TYPICAL OF MIRAFI 140N OR APPROVED EQUAL.

FOUNDATION SOIL

1. THE FOUNDATION SOIL IS ASSUMED TO BE SAND EXHIBITING A MINIMUM EFFECTIVE INTERNAL FRICTION ANGLE OF 30°, A MOIST UNIT WEIGHT OF 135 PCF, AND A COHESION OF 0 PSF.
2. FOUNDATION SOIL SHALL BE EXAMINED AND TESTED TO CONFIRM THAT THE ACTUAL CONDITIONS MEET OR EXCEED THE DESIGN ASSUMPTIONS.
3. CONTRACTOR SHALL COMPACT SUBGRADE TO 95% MODIFIED PROCTOR PRIOR TO PLACEMENT OF WALL BASE MATERIAL.
4. ALLOWABLE BEARING CAPACITY OF 4000 PSF
5. THE FOUNDATION SOIL SHALL BE FREE OF DEBRIS, HIGH PLASTIC CLAY, FROST, (I.E. ORGANIC MATTER (<1%), AND OTHER DELETERIOUS MATERIALS.

SOIL COMPACTION

1. COARSE GRAINED SOILS: ALL COARSE GRAINED SOIL SHALL BE PLACED IN MAXIMUM 9-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF ITS MODIFIED PROCTOR DENSITY AS DETERMINED BY ASTM D1557. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL, PRIOR TO AND DURING CONSTRUCTION, SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT EACH LAYER AND SHALL BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE CONTENT.
2. FINE GRAINED SOILS: ALL FINE GRAINED SOIL SHALL BE PLACED IN MAXIMUM 4-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF ITS MODIFIED PROCTOR DENSITY AS DETERMINED BY ASTM D1557. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL, PRIOR TO AND DURING CONSTRUCTION, SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT EACH LAYER AND SHALL BE WITHIN A RANGE OF 2% BELOW TO OPTIMUM MOISTURE CONTENT.
3. CRUSHED STONE: CRUSHED STONE SHALL BE PLACED IN MAXIMUM 12-INCH LOOSE LIFTS AND COMPACTED WITH A MINIMUM OF THREE (3) PASSES OF A VIBRATORY COMPACTOR (OR OTHER SUITABLE EQUIPMENT) CAPABLE OF EXERTING A MINIMUM OF 3,000 LBS OF CENTRIFUGAL FORCE AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
4. ONLY LIGHTWEIGHT HAND-OPERATED COMPACTION EQUIPMENT SHALL BE USED WITHIN 3- FEET OF THE BACK OF WALL DURING CONSTRUCTION.

GENERAL NOTES

1. THE DESIGN OF THE GRAVITY RETAINING WALL WAS PERFORMED UTILIZING STONE STRONG SYSTEMS. IF THE CONTRACTOR ELECTIONS TO UTILIZE A DIFFERENT RETAINING WALL SYSTEM, THE CONTRACTOR MUST SUBMIT PLANS AND CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN NEW YORK STATE TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO ORDERING MATERIALS.
2. CONTRACTOR TO PROVIDE SHOP DRAWING INDICATING BLOCK TYPES AND LOCATIONS FOR REVIEW PRIOR TO CONSTRUCTION.
3. ERECT UNITS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL OF GRAVITY RETAINING WALL INSTALLATION.
5. THE OWNER WILL ENGAGE A QUALIFIED THIRD PARTY INSPECTION AGENCY TO PERFORM SPECIAL INSPECTIONS LISTED ON THIS SHEET.
6. THE CONTRACTOR SHALL CALL 811 TO HAVE UTILITIES LOCATED AND ANY OTHER APPLICABLE ENTITY BEFORE BEGINNING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND AVOID IMPACTING THEM.
7. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING CONDUITS AND SERVICES WITH THE UTILITY PROVIDER. IF CONFLICTS EXIST, NOTIFY THE ENGINEER IMMEDIATELY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR EXECUTION OF WORK, INCLUDING LOCAL BUILDING INSPECTION AND CURRENT OSHA STANDARDS.
9. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.
10. EXCAVATION SUPPORT, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE STABILITY OF THE EXCAVATION AND ITS INFLUENCE ON ADJACENT PROPERTIES AND STRUCTURES.
11. IF THE CONTRACTOR FINDS A CONFLICT, ERROR, OR DISCREPANCY WITHIN OR BETWEEN THE CONTRACT DOCUMENTS, DESIGN PLANS AND EXISTING CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY REPORT THE ISSUE TO THE RESPECTIVE ENGINEER IN WRITING. THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. WORK DONE BEFORE THE ENGINEER RENDERS A DECISION IS AT THE SOLE RISK OF THE CONTRACTOR.
12. A GEOTECHNICAL REPORT WAS SUPPLIED FOR THE PROJECT AND CAN BE FOUND WITHIN THE CONTRACT. THE FIELD SOIL PROPERTIES MUST BE VERIFIED BY THE TESTING AGENCY OF RECORD AND THE WALL DESIGNER NOTIFIED OF SOILS DIFFERENT THAN THOSE NOTED HEREIN.
13. WALL HEIGHTS SHOWN MUST NOT BE EXCEEDED WITHOUT THE CONSULTATION AND APPROVAL OF THE WALL DESIGNER.
14. THESE PLANS SHALL BE USED IN CONJUNCTION WITH THE CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING PLAN SETS.

DESIGN INFORMATION

1. DESIGN METHOD: NCMA
 2. RETAINING WALL INFORMATION: UNIT TYPE: SEGMENTAL RETAINING WALL BLOCK
- LOADING CONDITIONS:
1. LIVE LOAD SURCHARGE: N/A
 2. DEAD LOAD SURCHARGE (BUILDING): 0 PSF
 3. HYDROSTATIC LOADING: NONE
- IN-SITU SOIL (RETAINED SOIL) VALUES:
1. UNIT WEIGHT: 135 PCF
 2. INTERNAL FRICTION ANGLE: 30°
 3. COHESION = 0 PSF
- WALL GEOMETRY:
1. TOP SLOPE VARIES (SEE GRADING PLAN)
 2. BACK SLOPE VARIES (SEE GRADING PLAN)
 3. BATTER: 5.0°
- FACTORS OF SAFETY:
1. INTERNAL STABILITY: (MINIMUM FOS)
 - 1.1. SLIDING: 1.5
 - 1.2. OVERTURNING: 1.5
 2. EXTERNAL STABILITY:
 - 2.1. BASE SLIDING: 1.5
 - 2.2. BEARING: 2.0
 - 2.3. OVERTURNING: 1.5
- SEISMIC:
1. SEISMIC ANALYSIS IS NOT REQUIRED PER THE 2020 BUILDING CODE OF NEW YORK STATE SECTION 1807.2.2 (SITE CLASS C).

TECHNICAL REFERENCES

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (8TH EDITION, 2017)
2. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES - ASCE/SEI 7-16
3. NEW YORK STATE BUILDING CODE, 2020 EDITION.
4. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) TECHNICAL MANUAL.
5. UNIFIED SOIL CLASSIFICATION SYSTEM (USCS).

TESTING REFERENCES

1. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INTERNATIONAL.
2. AMERICAN CONCRETE INSTITUTE (ACI).
3. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)

GEOTECHNICAL NOTES

1. ALLOWABLE SOIL BEARING PRESSURES ARE AS FOLLOWS FOR THE FOLLOWING AND LOCATIONS PER THE GEOTECHNICAL EVALUATION REPORT PERFORMED BY TECTONIC: ENGINEERING CONSULTANTS, GEOLOGISTS, AND LAND SURVEYORS, D.P.C.:
 - 1.1. ALLOWABLE BEARING PRESSURE = 4,000 PSF
2. THESE SOIL BEARING PRESSURES ARE FOUND IN SECTION 9.1 OF THE GEOTECHNICAL EVALUATION REPORT PREPARED BY TECTONIC.
3. CONTRACTOR SHALL VERIFY BEARING CAPACITIES PRIOR TO THE PLACEMENT OF ANY FOUNDATIONS IN THE COINCIDING AREAS.
4. FOR ADDITIONAL GEOTECHNICAL INFORMATION, SEE THE SITE SPECIFIC GEOTECHNICAL REPORT PREPARED BY TECTONIC PROVIDED IN THE CONTRACT.

SPECIAL INSPECTIONS:

ALL SPECIAL INSPECTIONS LISTED ARE IN ADDITION TO ALL INSPECTION REQUIRED BY STATE AND LOCAL BUILDING CODES. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN AGENCY RETAINED AND PAID BY THE OWNER OR OWNER'S REPRESENTATIVE. THE APPROVED AGENCY SHALL PROVIDE ALL INFORMATION AS NECESSARY FOR THE BUILDING OFFICIAL TO DETERMINE THAT THE AGENCY MEETS THE APPLICABLE REQUIREMENTS. COPIES OF NECESSARY TEST AND INSPECTION RECORDS SHALL BE FILED WITH THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL. ALL SPECIAL INSPECTIONS AND REPORTS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE 2020 NEW YORK STATE BUILDING CODE LATEST REVISION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OWNER'S DESIGNATED INSPECTOR FOR SCHEDULING OF ALL SPECIAL INSPECTIONS. CONTRACTOR SHALL NOTIFY INSPECTOR MINIMUM 24 HOURS PRIOR TO NEED OF INSPECTION.

THE OWNER RESERVES THE RIGHT TO BACK CHARGE THE CONTRACTOR FOR ANY COSTS ASSOCIATED WITH ADDITIONAL SPECIAL INSPECTIONS REQUIRED DUE TO CANCELLATION OF SCHEDULED INSPECTIONS AND RE-INSPECTION OF PREVIOUSLY FAILED INSPECTIONS.

SPECIAL INSPECTIONS REQUIRED INCLUDE BUT ARE NOT LIMITED TO:

- SOILS:
1. CONTINUOUS INSPECTION OF
 - 1.1. PROPER MATERIALS
 - 1.2. DENSITIES
 - 1.3. LIFT THICKNESSES DURING PLACEMENT
 - 1.4. COMPACTION OF CONTROLLED FILL
 2. PERIODIC INSPECTION OF
 - 2.1. MATERIALS BELOW FOOTINGS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
 - 2.2. EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL
 - 2.3. CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS
 - 2.4. SUBGRADE PRIOR TO PLACEMENT OF COMPACTED FILL
 3. THE APPROVED SOILS REPORT, IF ANY EXISTS, SHALL BE USED TO DETERMINE COMPLIANCE.

MHE

ENGINEERING

33 Airport Center Drive, Suite 202
New Windsor, NY 12553
(845) 567-3100

111 Wheatfield Drive, Suite 1
Millport, PA 16207
(870) 296-2765

BID SET

HAZARDOUS MATERIAL NOTE:
THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MHE PLANS, DO NOT INCLUDE SERVICES RELATED TO THE IDENTIFICATION, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD PAINT. ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE ENCOUNTERED WHILE UNDERTAKING THE WORK SHOWN HEREON, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT PRIOR TO THE CONTINUATION OF WORK INVOLVING SUSPECTED MATERIAL.

UDIG·NY

SAFE DIGGING STARTS HERE

CALL 811

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CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

CONTROL BUILDING
RETAINING WALL
(WALL #1) NOTES

REVISIONS

NO.	DESCRIPTION	DATE

ISSUED DATE:

12 NOV, 2024

DESIGN BY:

JSS

DRAWN BY:

PJW

CHECKED BY:

JSS, JZ

REVIEWED BY:

JSS

SHEET NO.

S-100

PROJECT # 18-732

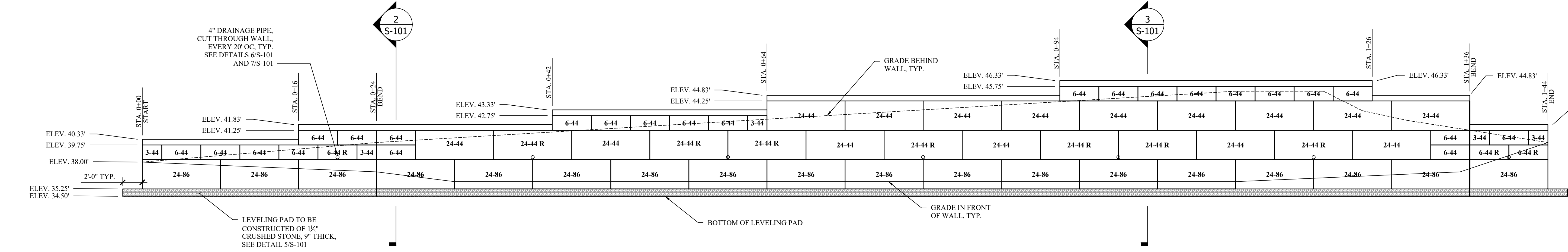
PHASE # 1

F:\2018\18-732 Caesar Lane WWTP Improvements\Expansion Phase\Drawings\1 - Site Work & Control Structure\Site Work Retaining Walls - Structural.dwg, 5/1/24, 11/13/2024 8:14:44 AM

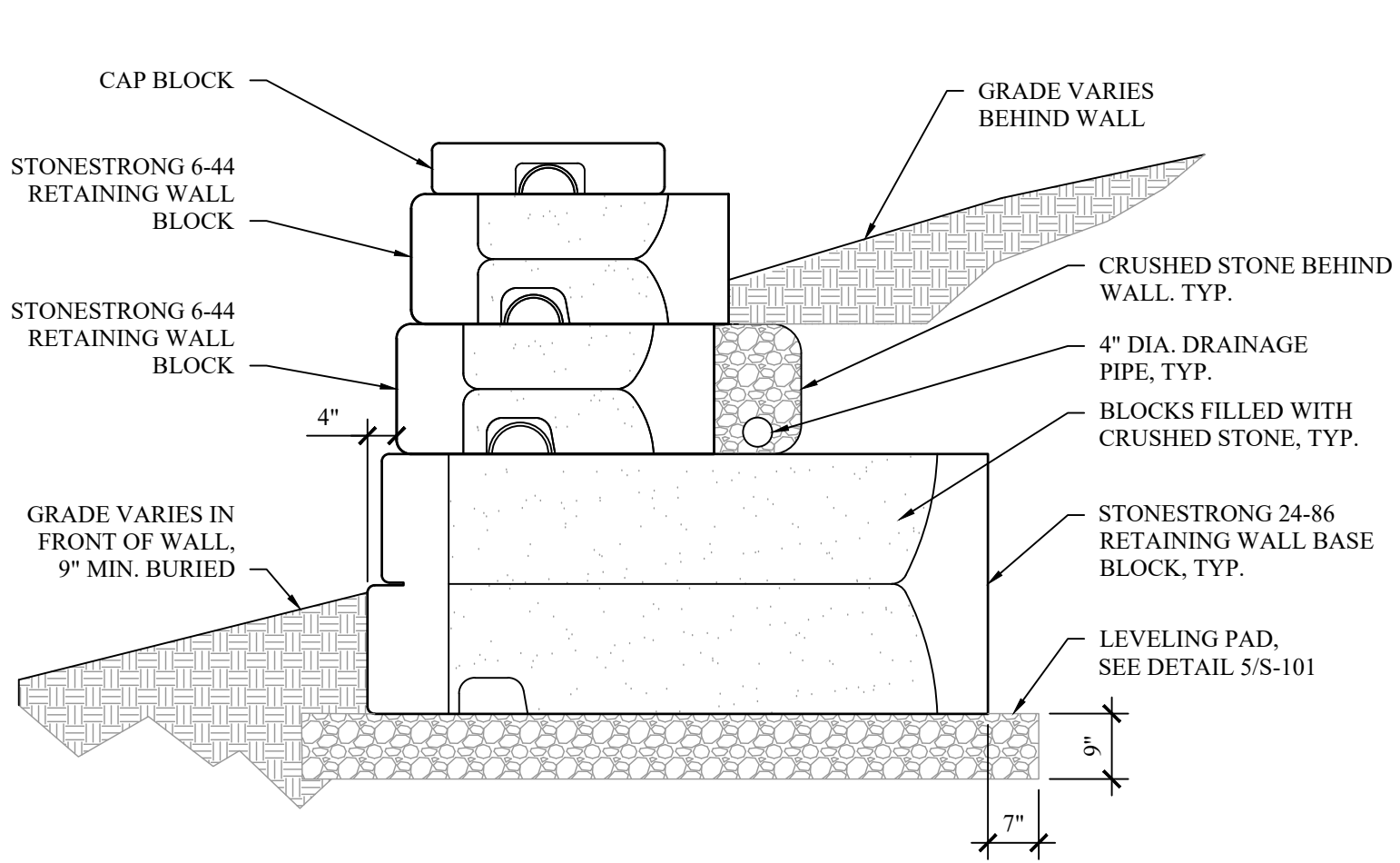
BID SET

STONE STRONG BLOCK WALL SCHEDULE - WALL 1	
BLOCK TYPE	QUANTITY
24-86	18
24-44	15
24-44 R	7
6-44	24
6-44 R	3
3-44	5

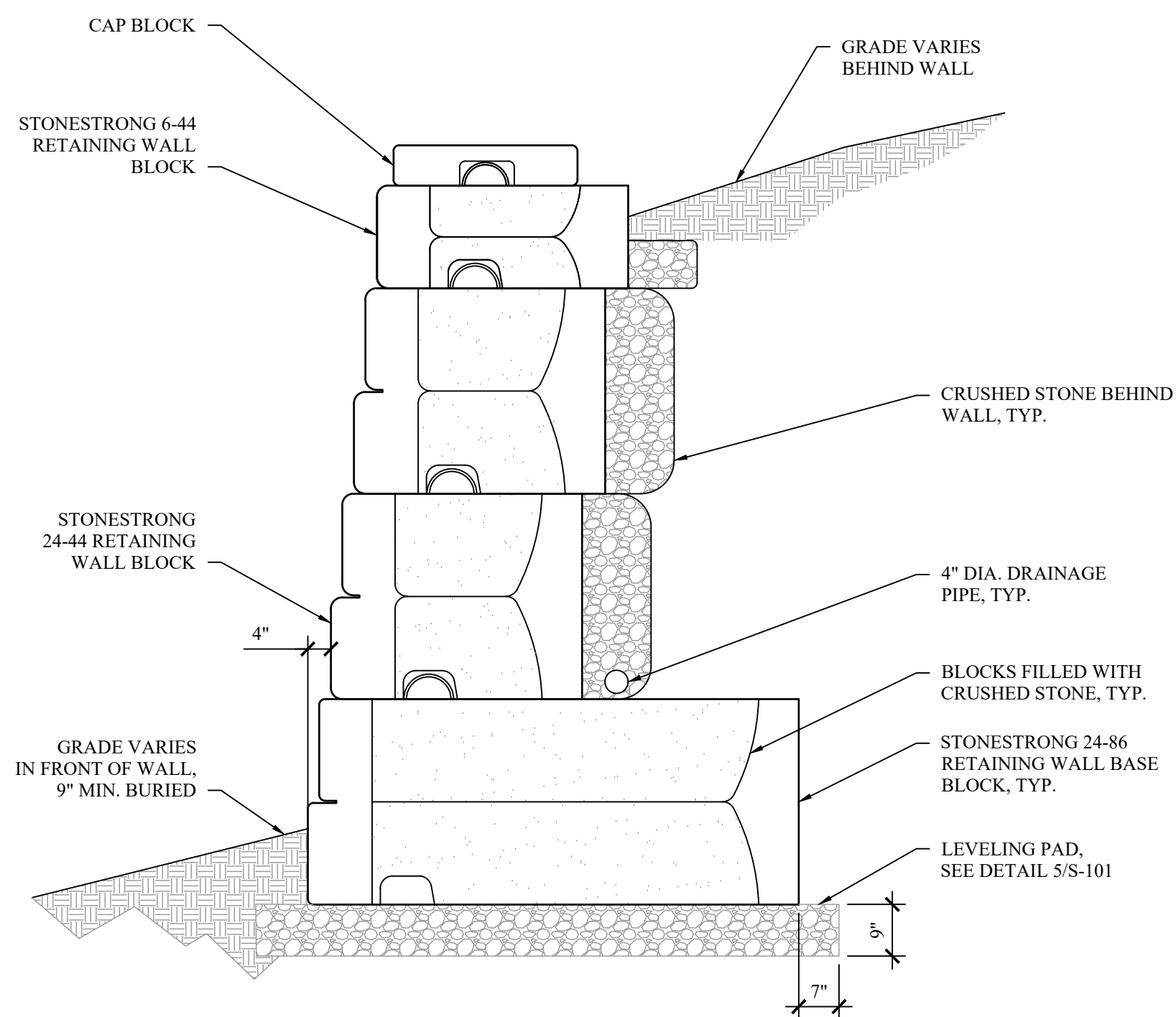
*NOTE: QUANTITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIALS.
"R" DENOTES REINFORCED BLOCKS DUE TO PIPE PENETRATIONS THROUGH RETAINING WALL UNIT. SEE DETAILS 6S-101 AND 7S-101.



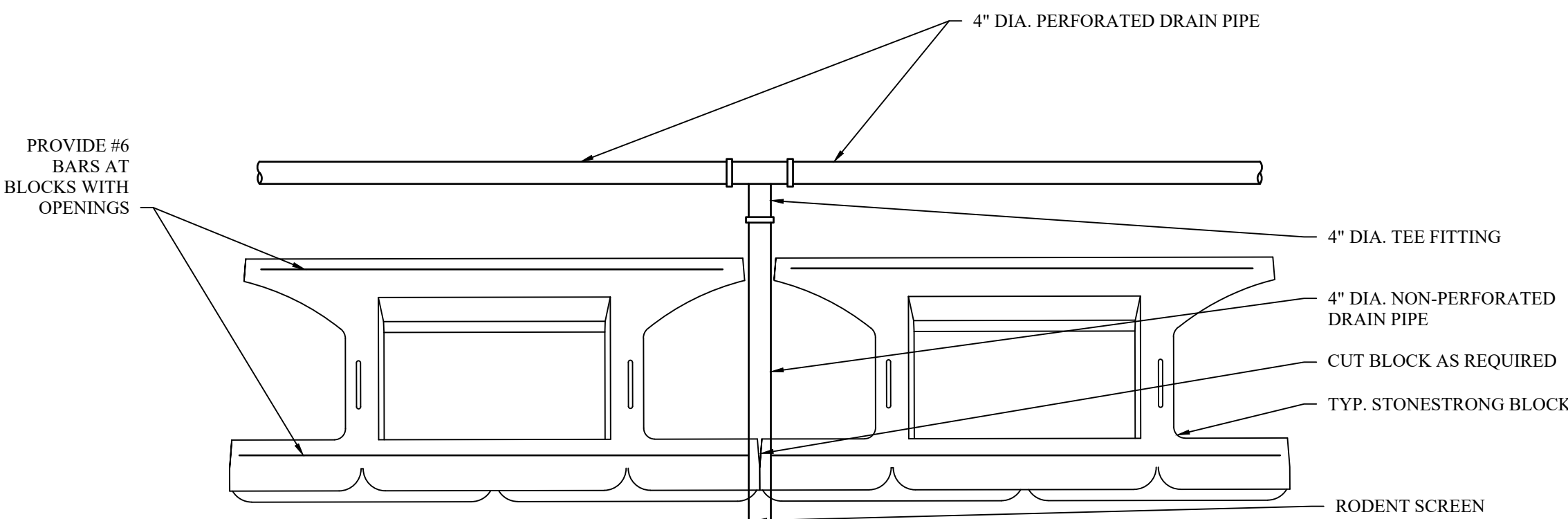
1 WALL #1 ELEVATION
SCALE: 3/16" = 1'-0"



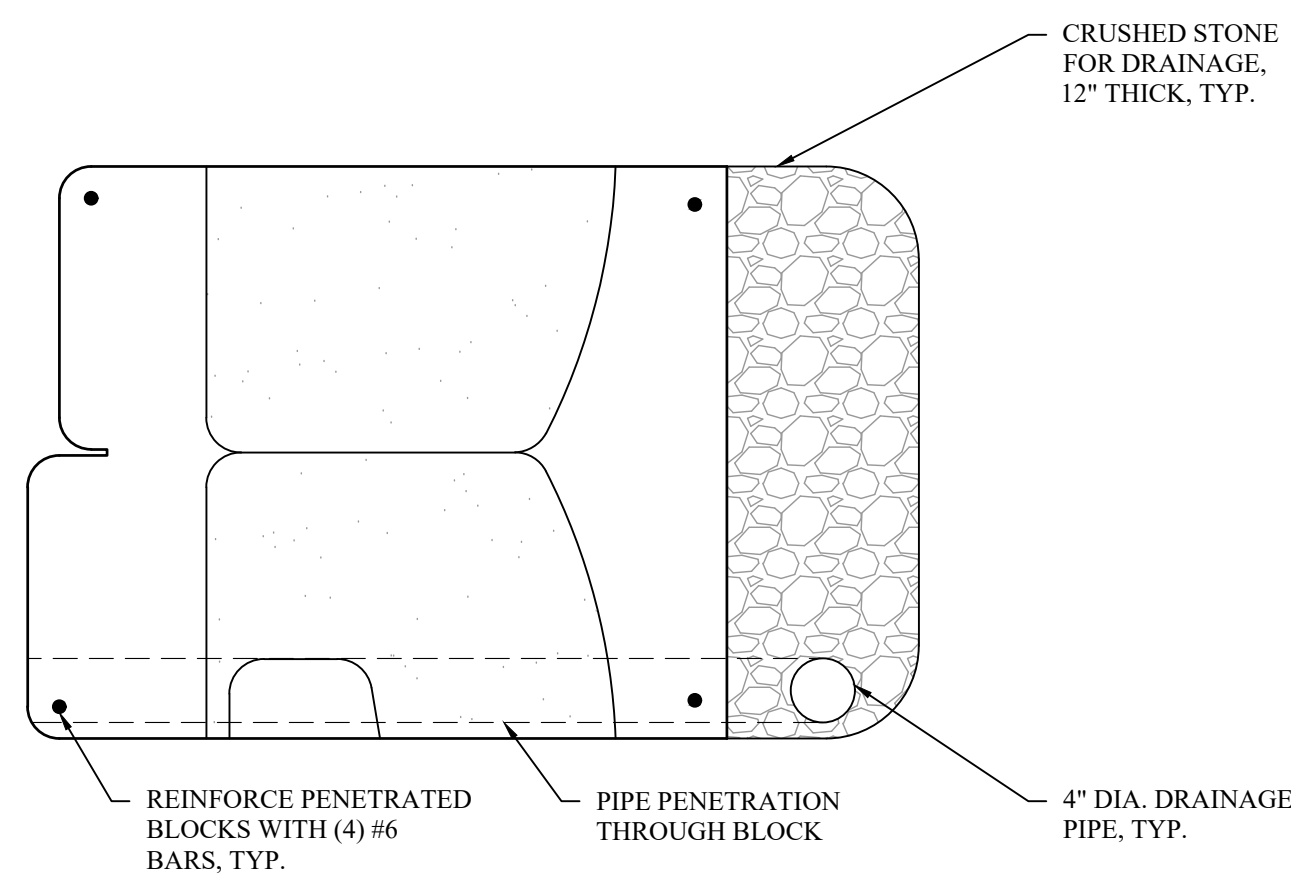
2 WALL SECTION #1 (STATION 0+26)
SCALE: 1/2" = 1'-0"



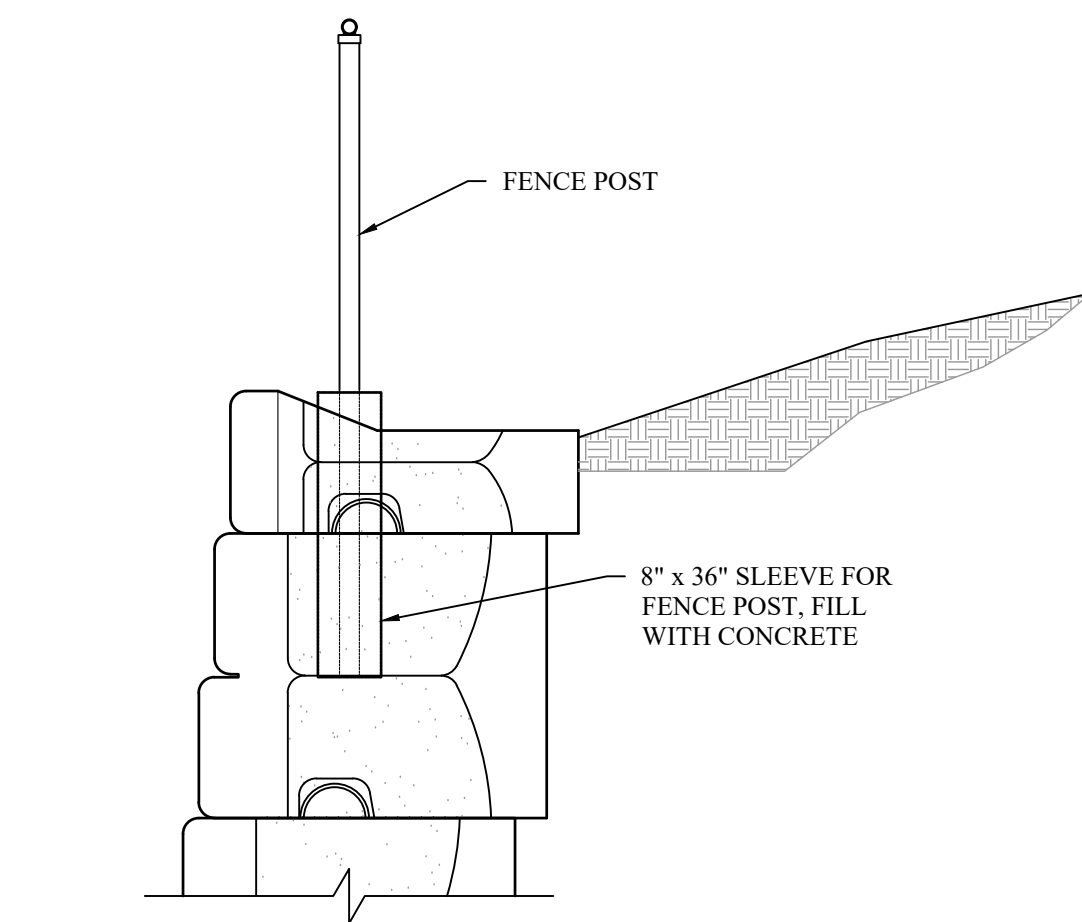
3 WALL SECTION #2 (STATION 1+03)
SCALE: 1/2" = 1'-0"



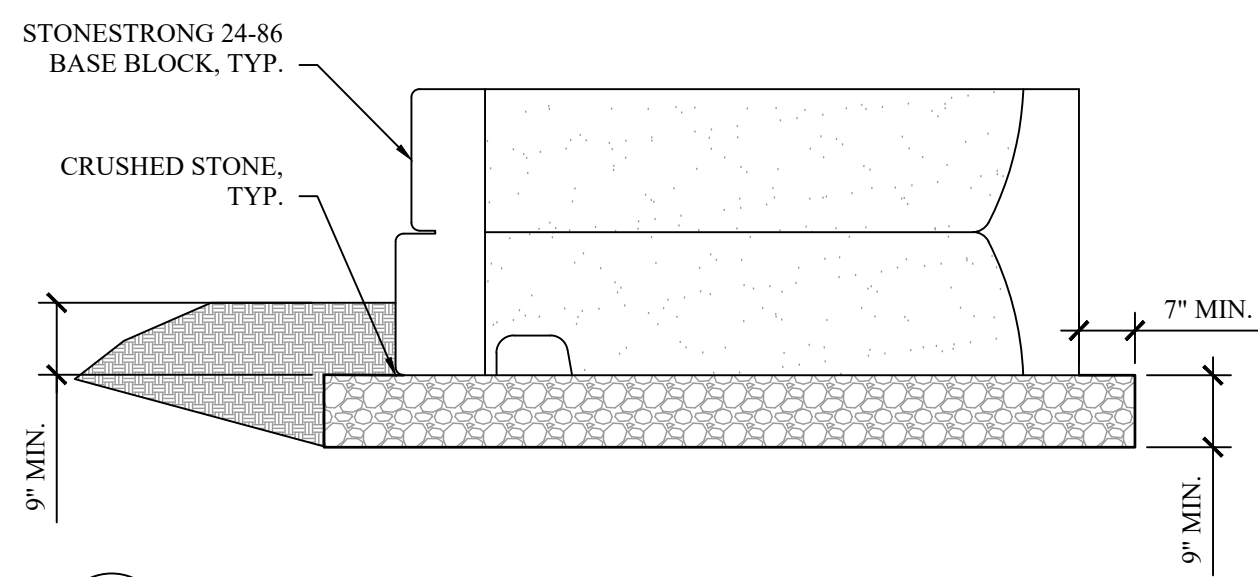
6 TYPICAL DRAINAGE DETAIL (PLAN VIEW)
SCALE: 1/2" = 1'-0"



7 TYPICAL DRAINAGE DETAIL (ELEVATION VIEW)
SCALE: 1" = 1'-0"



4 TYPICAL FENCE POST DETAIL
SCALE: 1/2" = 1'-0"



5 TYPICAL LEVELING PAD DETAIL
SCALE: 1/2" = 1'-0"

HAZARDOUS MATERIAL NOTE:
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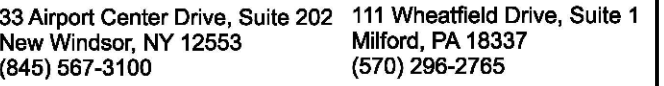
**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

**CONTROL BUILDING
RETAINING WALL (WALL
#1) ELEVATIONS,
SECTIONS, AND DETAILS**

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	12 NOV, 2024
DESIGN BY:	JSS
DRAWN BY:	PJW
CHECKED BY:	JSS, JZ
REVIEWED BY:	JSS

SHEET NO.
S-101
PROJECT # 18-732 PHASE # 1



HAZARDOUS MATERIAL NOTE:

THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK PERFORMED ON MHE PLANS, DO NOT INCLUDE THE IDENTIFICATION, REMEDIATION, OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD. THE IDENTIFICATION, REMEDIATION, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED REMEDIATION SPECIALIST. MATERIALS ARE IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL CONSULTANT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE DISCOVERED WHILE UNDERTAKING THE WORK SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND IMMEDIATELY IN WRITING, IN THE DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT. THE CONTRACTOR SHALL STOP WORK INVOLVING SUSPECTED MATERIAL.



**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE 1**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

[illegible]

PROJECT # 18-732	PHASE #1
------------------	----------



BID SET

HAZARDOUS MATERIAL NOTE:
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**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

**SLUDGE DEWATERING
BUILDING - UPPER
LEVEL MODIFICATION
PLAN**

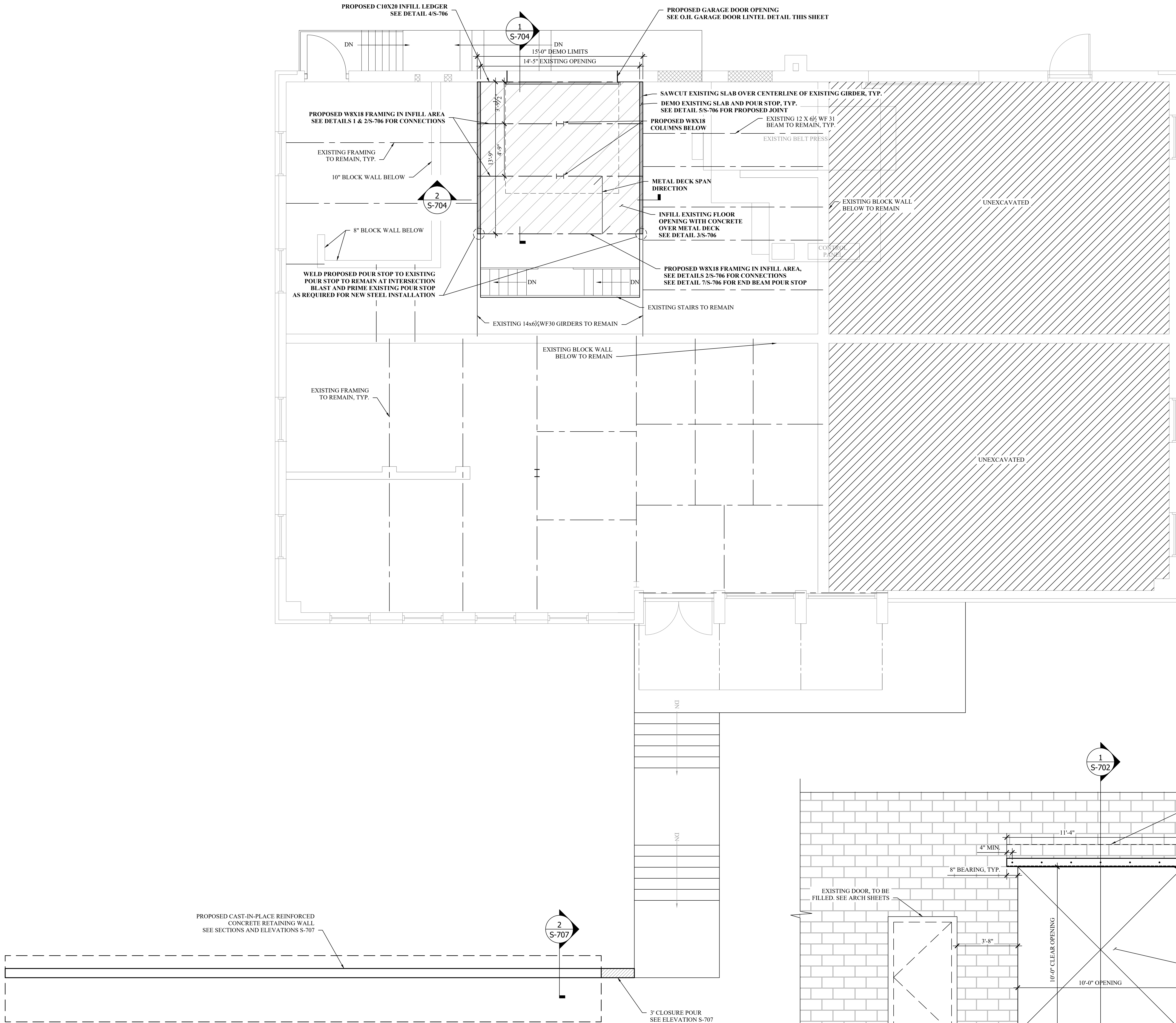
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE: 21 NOV, 2024
DESIGN BY: WPG/PJW
DRAWN BY: WPG/PJW
CHECKED BY: JSS/PJW
REVIEWED BY: JSS/MIL

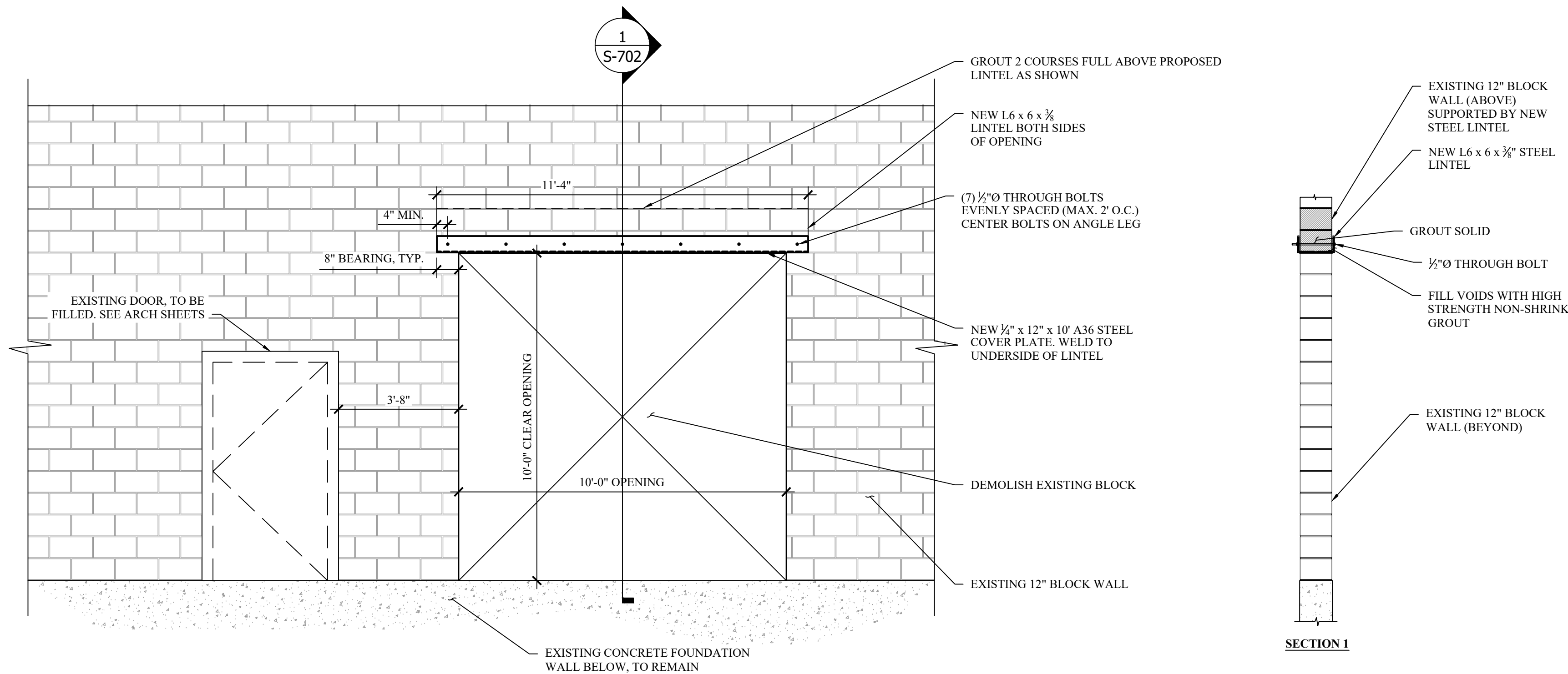
SHEET NO.

S-702

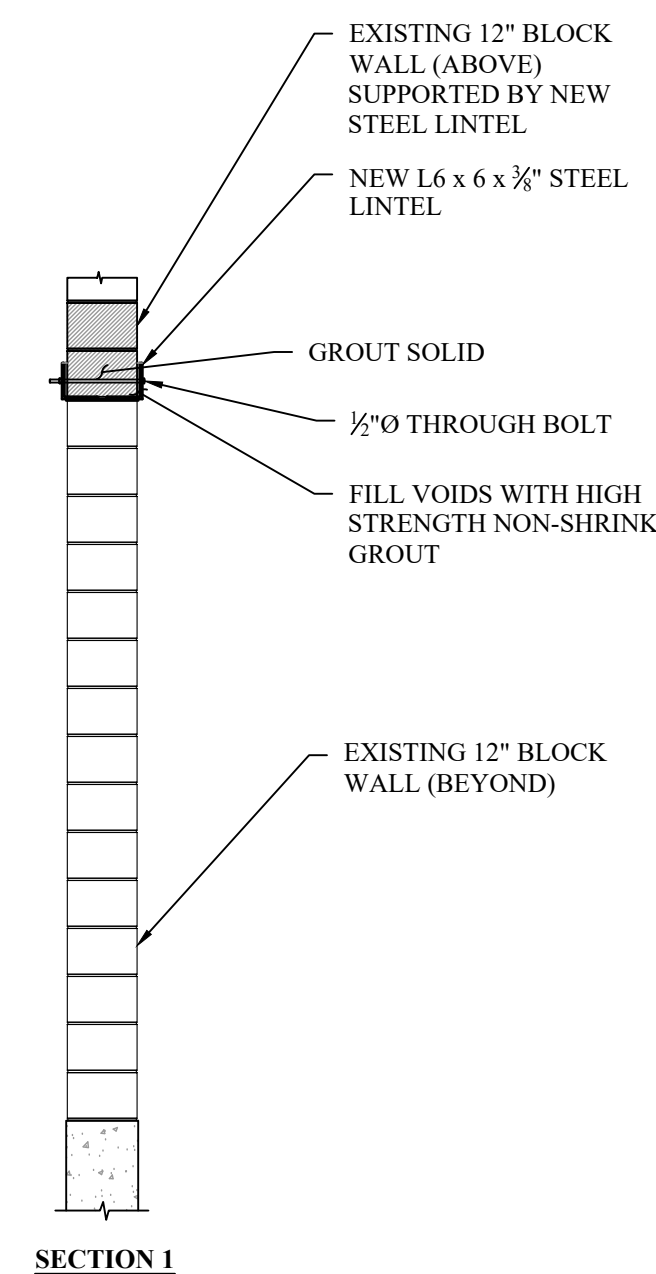
PROJECT # 18-732 PHASE #1



UPPER LEVEL MODIFICATION PLAN
SCALE: 1/4" = 1'-0"



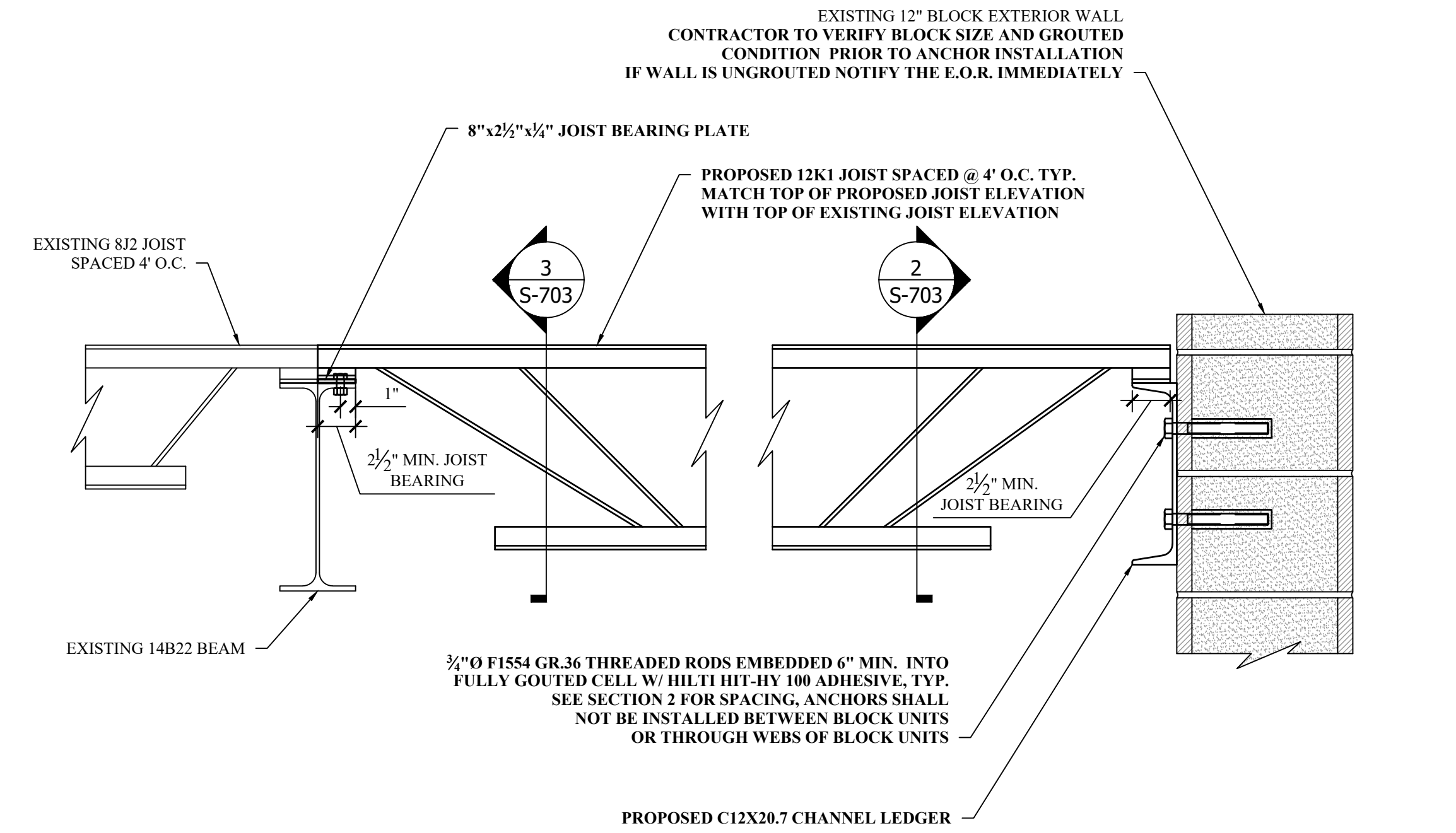
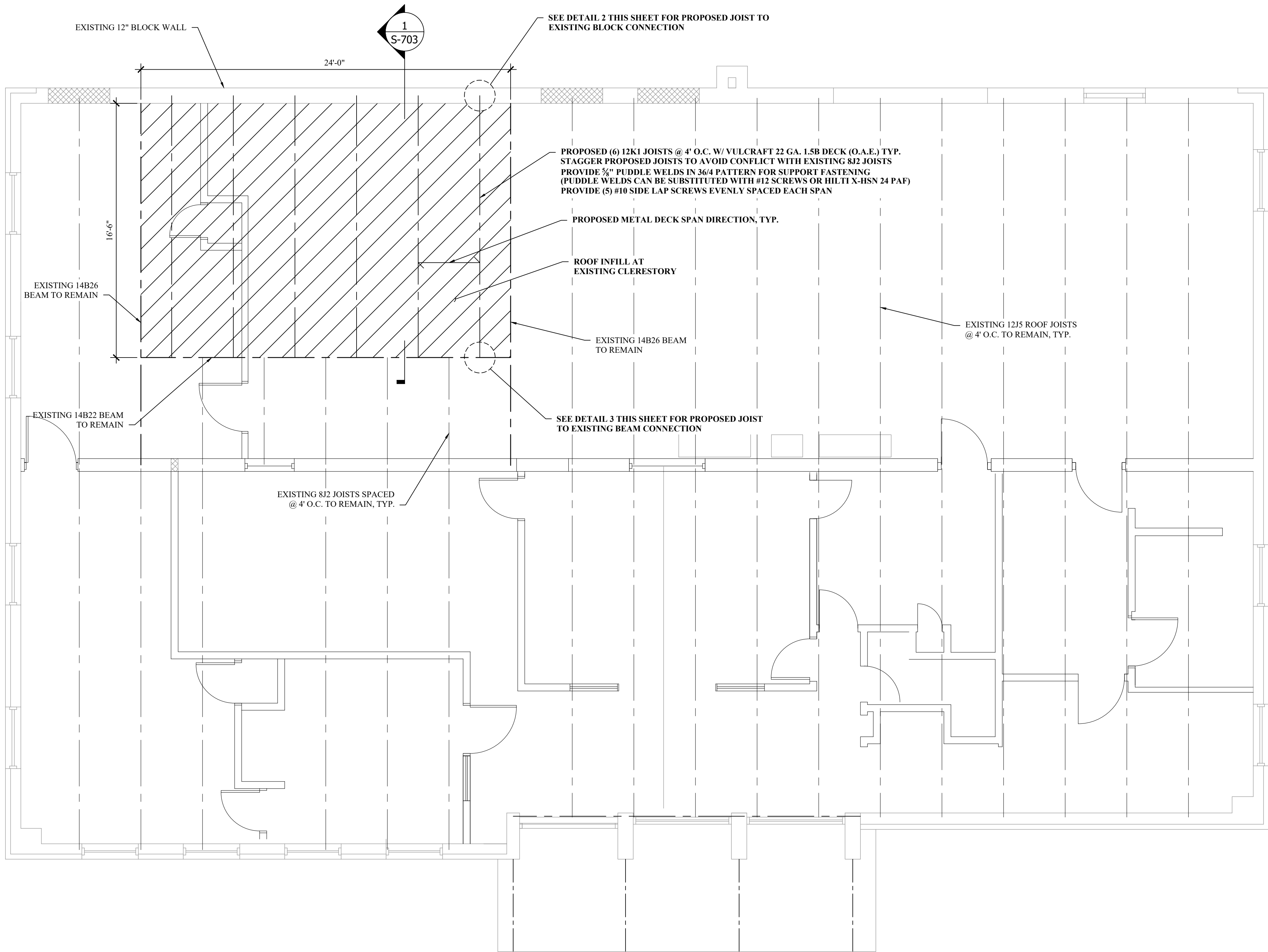
PROPOSED O.H. GARAGE DOOR LINTEL DETAIL
SCALE: 3/8" = 1'-0"



SECTION 1

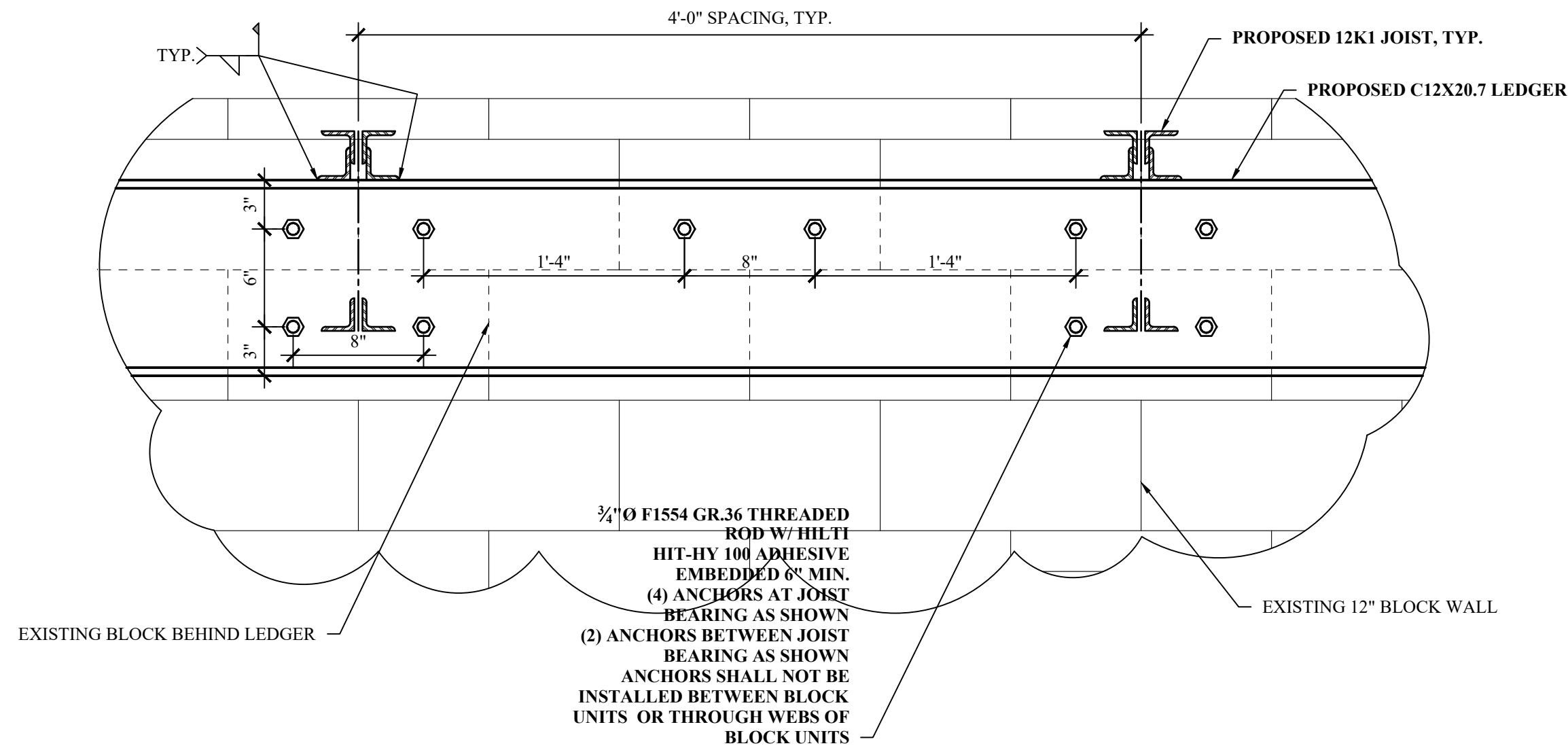
ROOF FRAMING PLAN

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



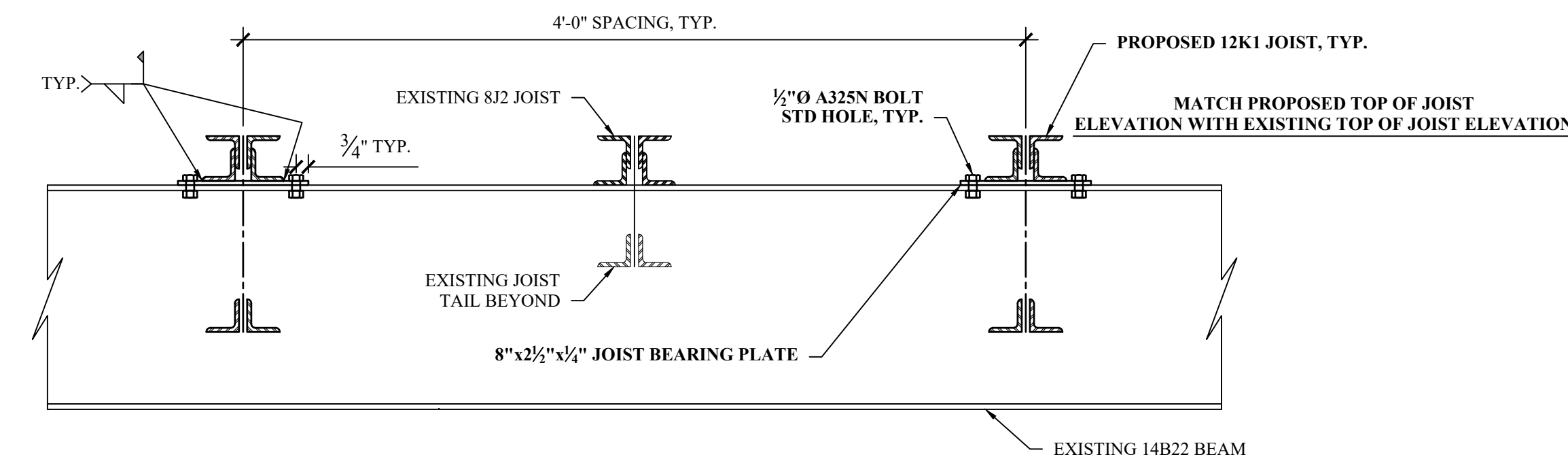
1 PROPOSED JOIST CONNECTIONS

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



2 PROPOSED JOIST CONNECTIONS TO EXISTING BLOCK

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



3 PROPOSED JOIST CONNECTIONS TO EXISTING BEAM

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

BID SET

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**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

SLUDGE DEWATERING
BUILDING - ROOF
MODIFICATION PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	WPG/PJW
DRAWN BY:	WPG/PJW
CHECKED BY:	JSS/PJW
REVIEWED BY:	JSS/MIL

BID SET

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**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

SLUDGE DEWATERING
BUILDING - SECTIONS

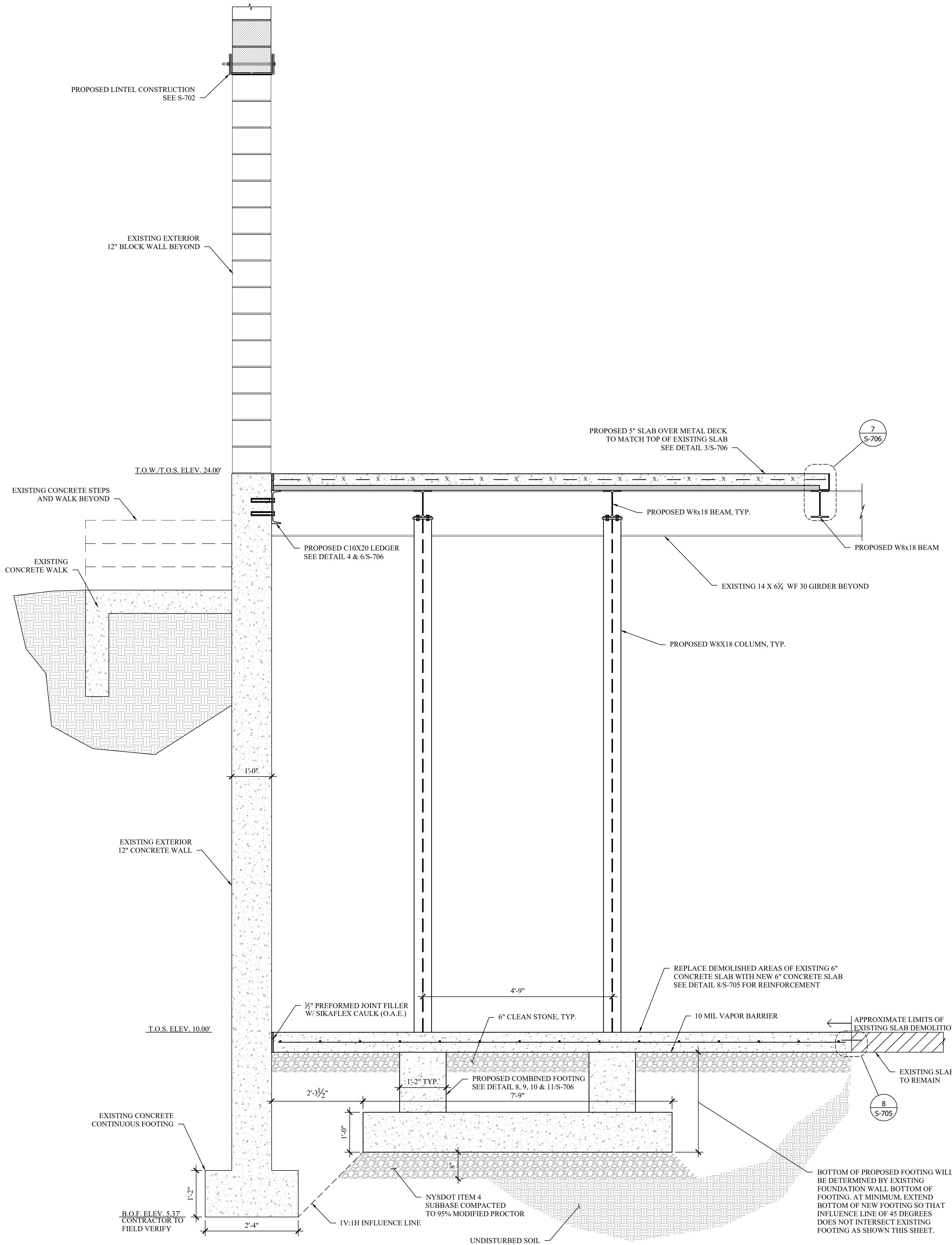
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	WPG/PJW
DRAWN BY:	WPG/PJW
CHECKED BY:	JSS/PJW
REVIEWED BY:	JSS/MIL

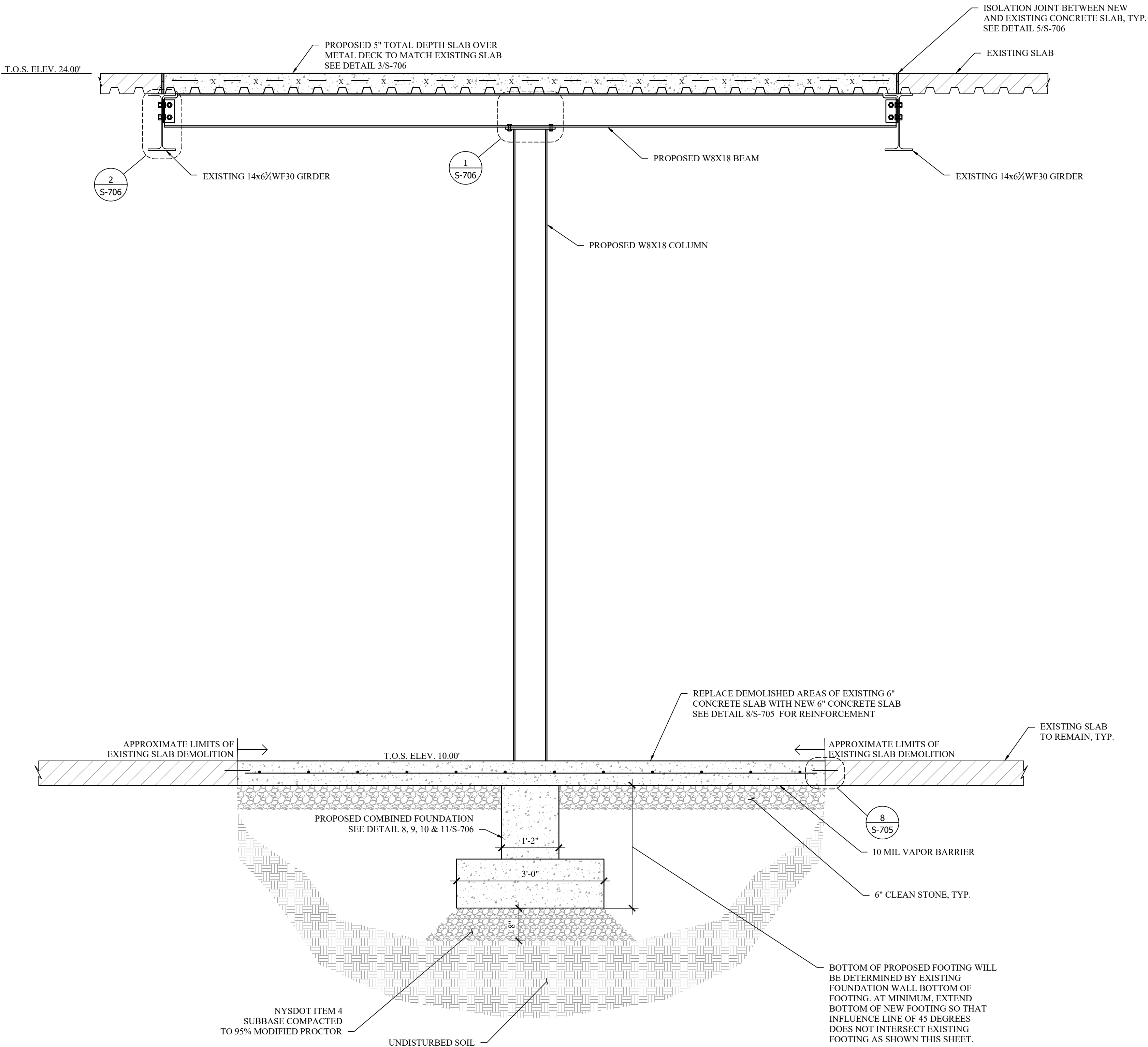
SHEET NO.

S-704

PROJECT # 18-732 PHASE #1

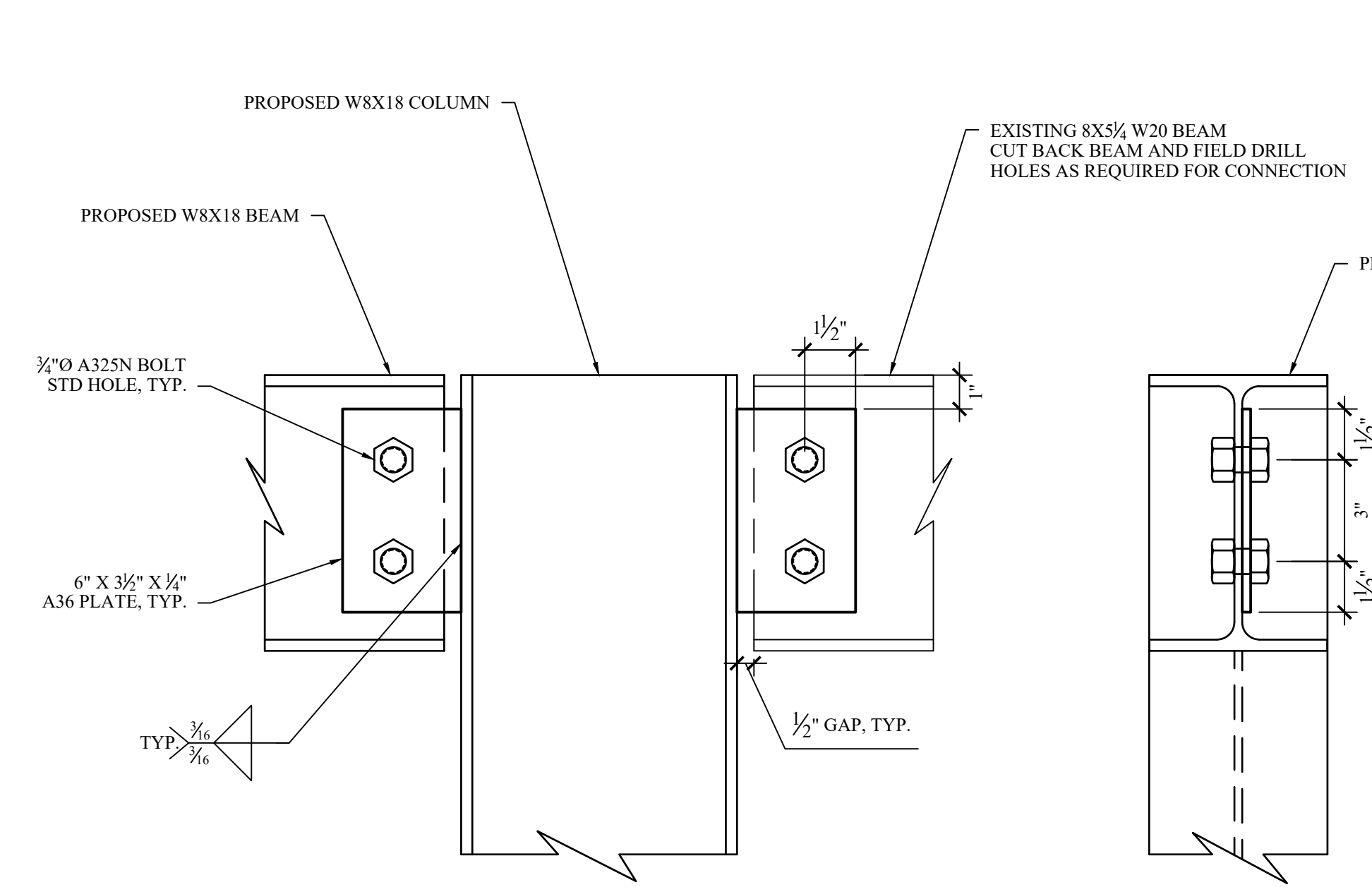


1 UPPER LEVEL INFILL SECTION 1
SCALE: 3/4" = 1'-0"

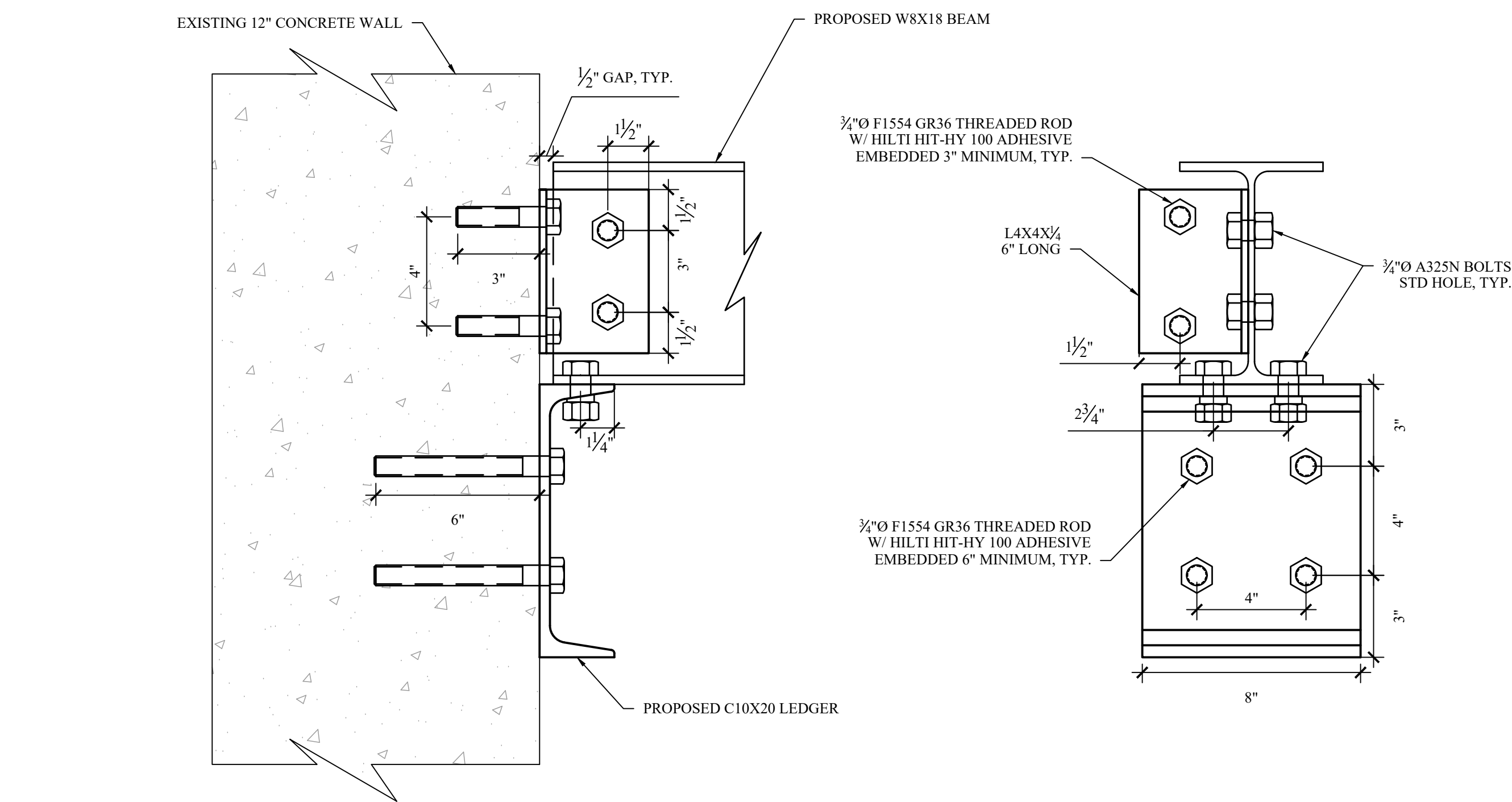


2 UPPER LEVEL INFILL SECTION 2
SCALE: 3/4" = 1'-0"

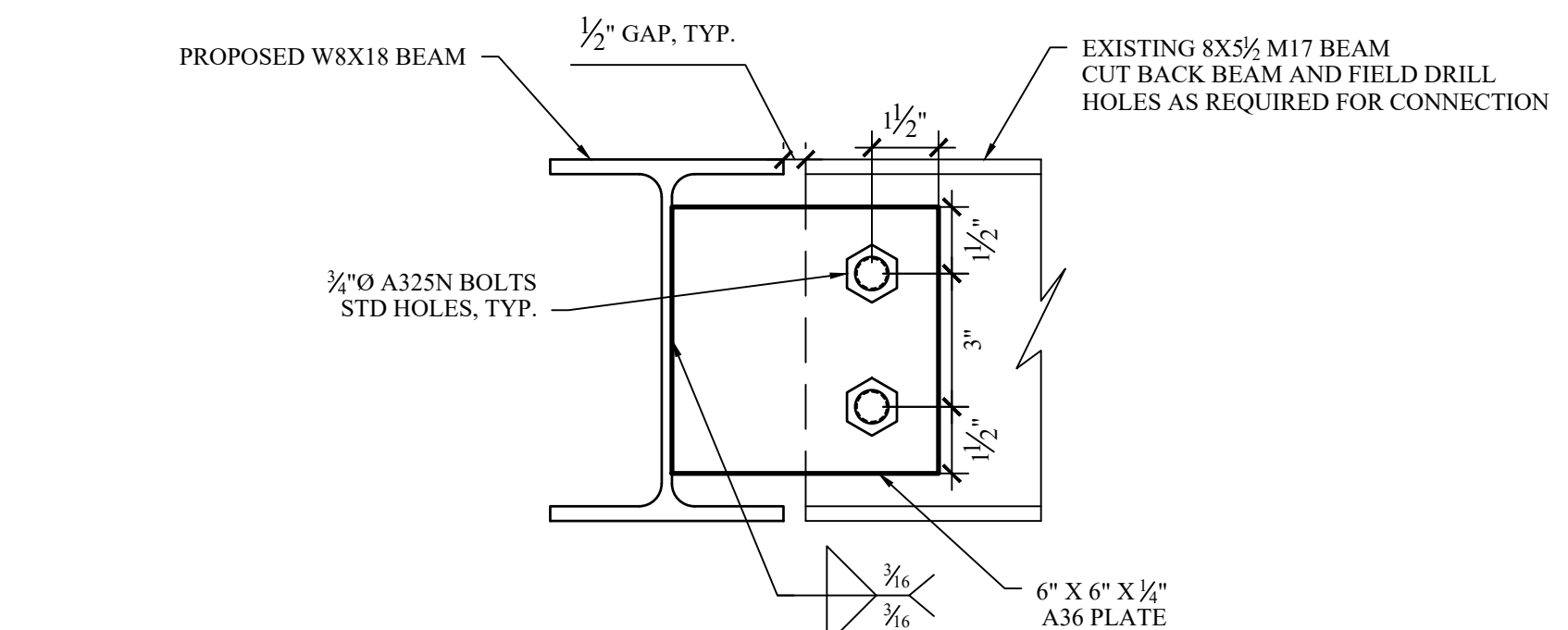
BID SET



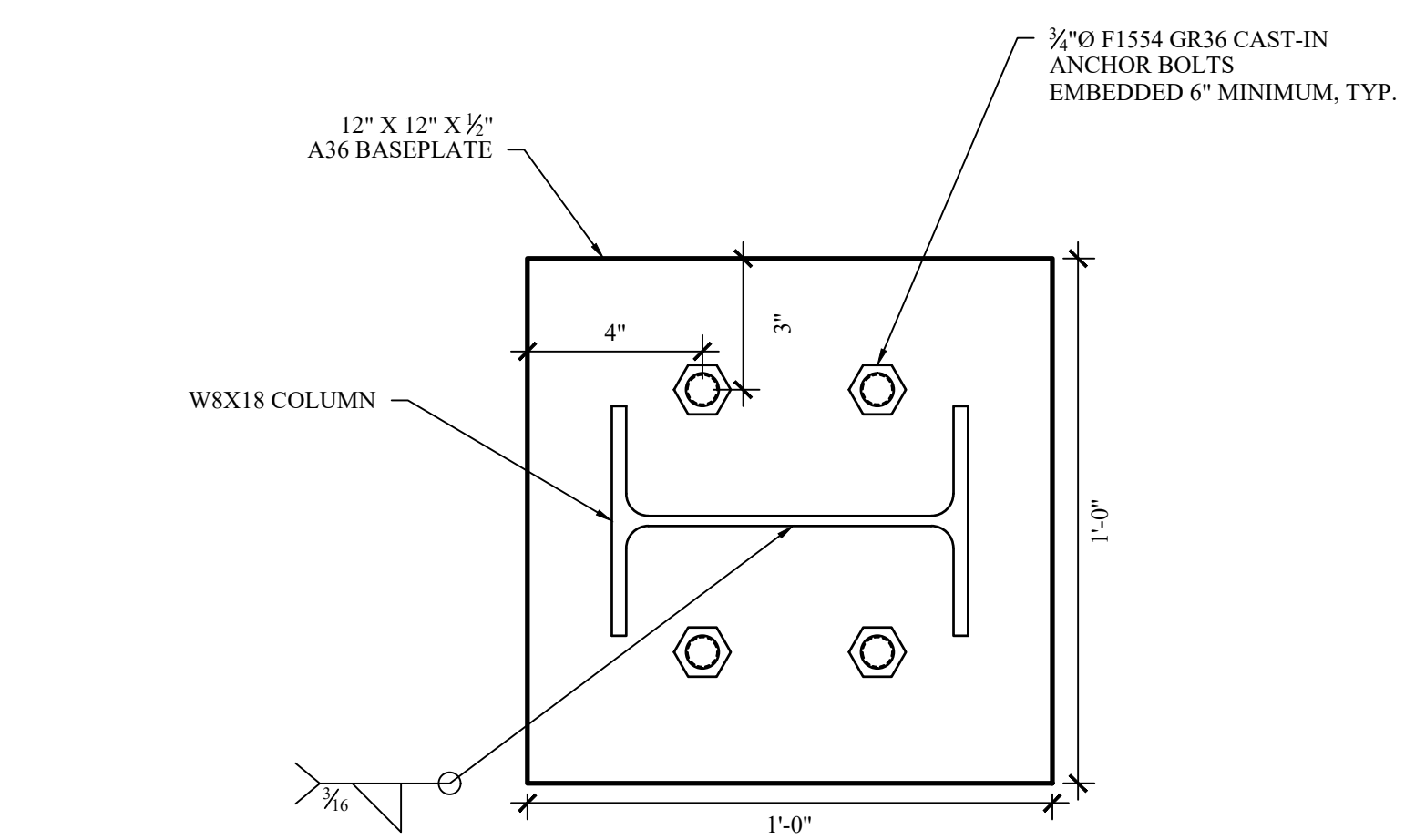
1 BEAM TO COLUMN CONNECTION
SCALE: 1-1/2" = 1'-0"



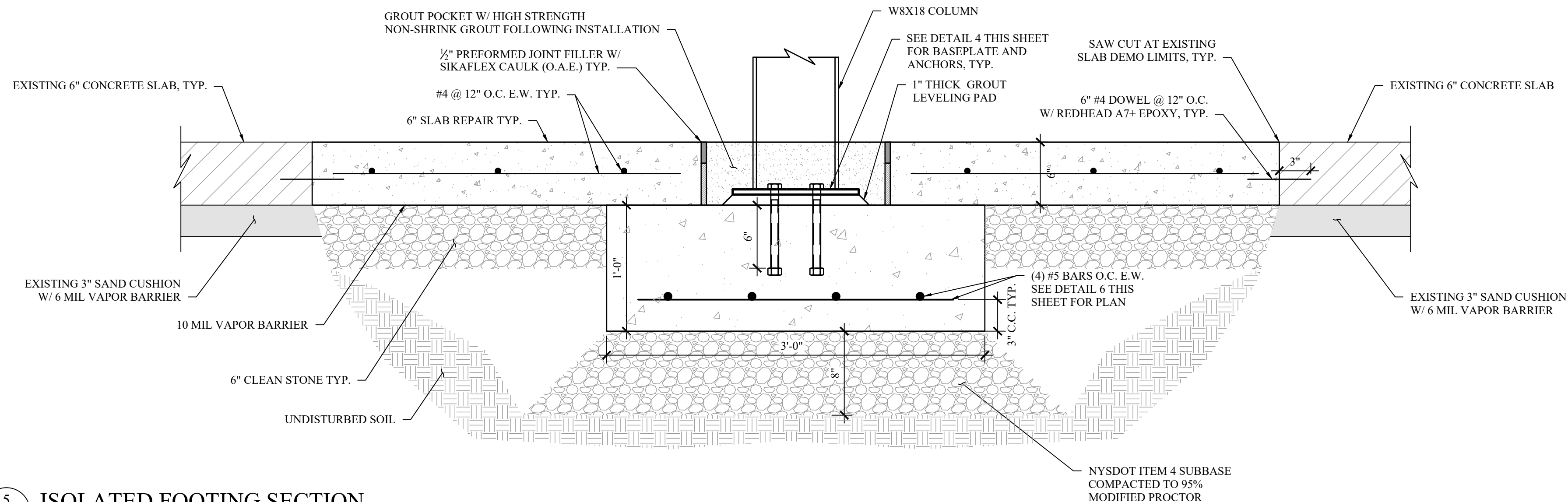
2 BLOCK INFILL BEAM TO LEDGER CONNECTION
SCALE: 3" = 1'-0"



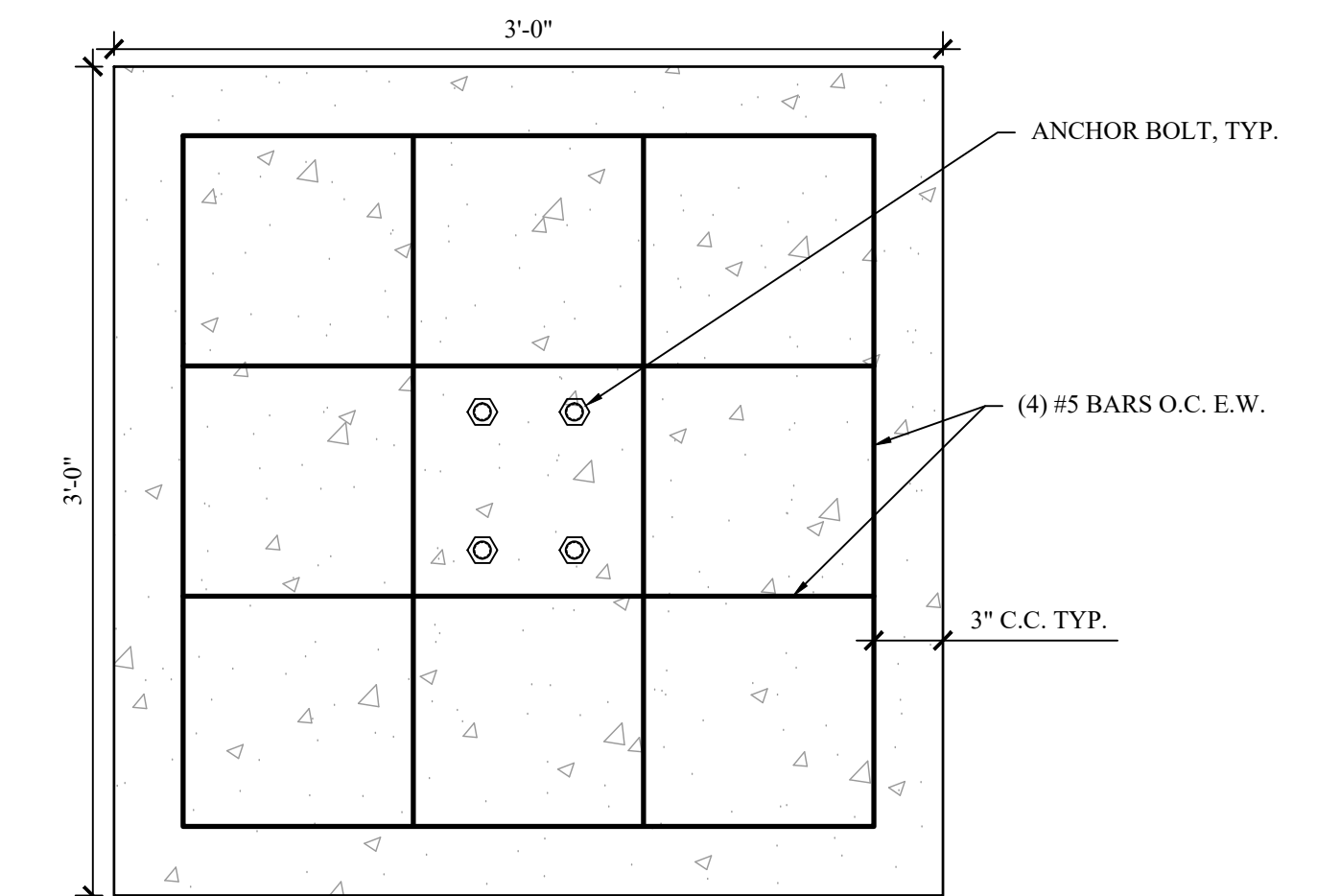
3 EXISTING BEAM TO BLOCK INFILL BEAM CONNECTION
SCALE: 3" = 1'-0"



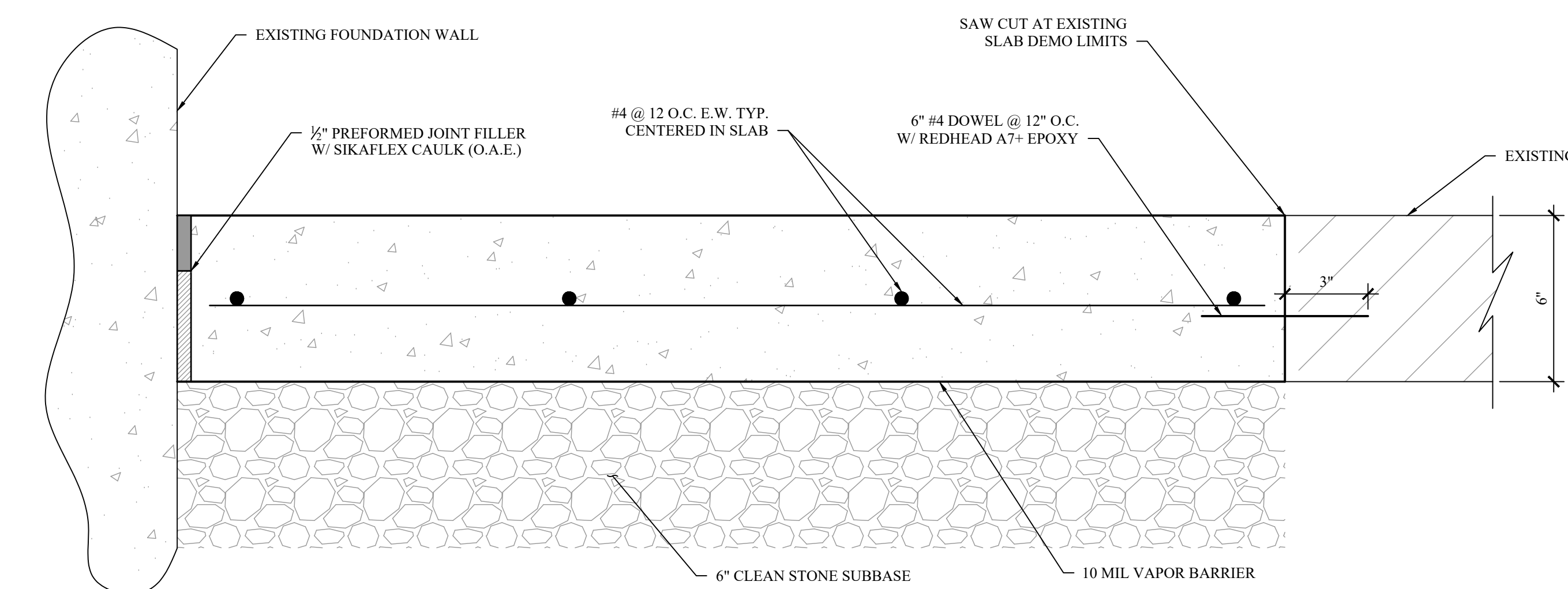
4 TYPICAL COLUMN BASEPLATE
SCALE: 3" = 1'-0"



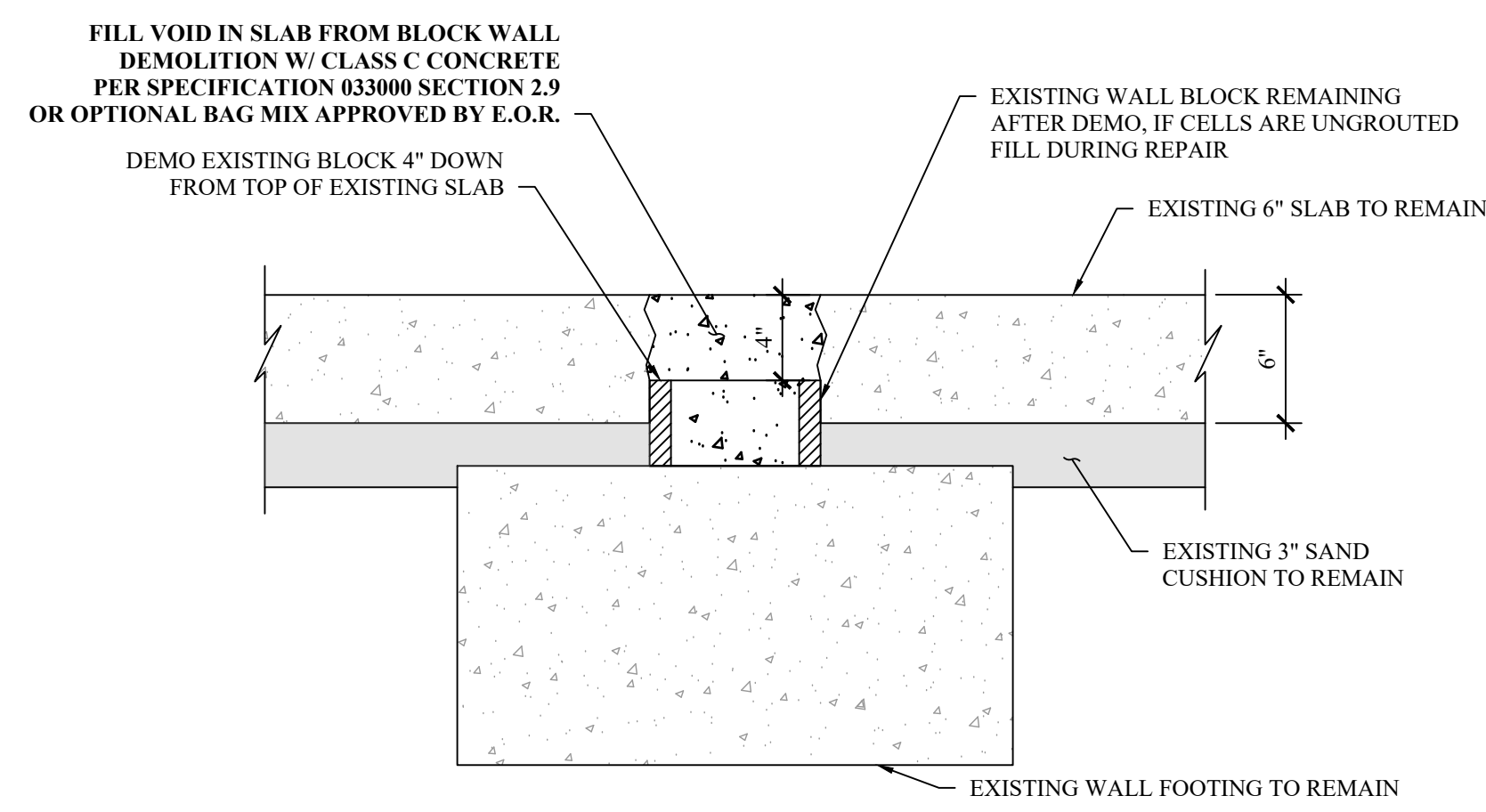
5 ISOLATED FOOTING SECTION
SCALE: 1" = 1'-0"



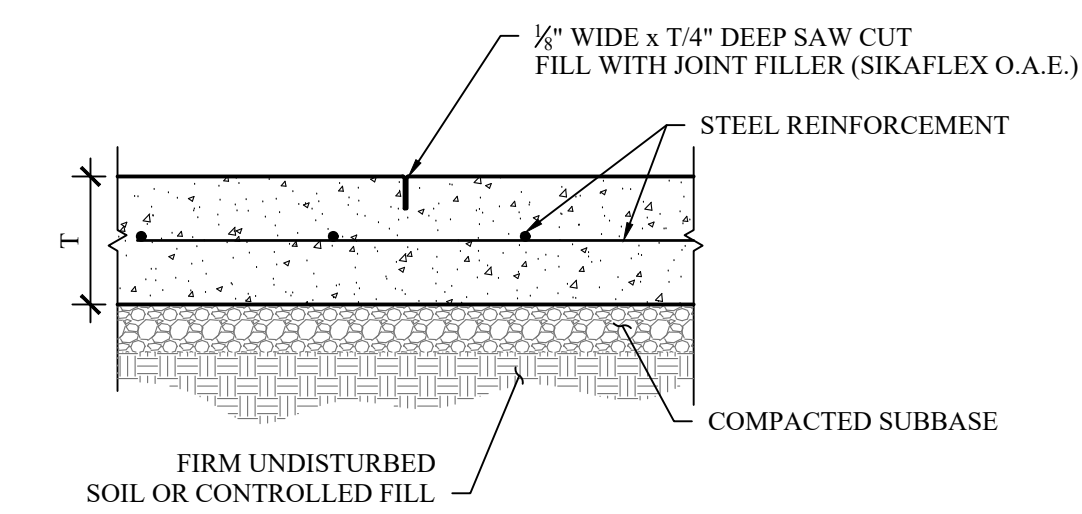
6 ISOLATED FOOTING REINF. PLAN
SCALE: 1-1/2" = 1'-0"



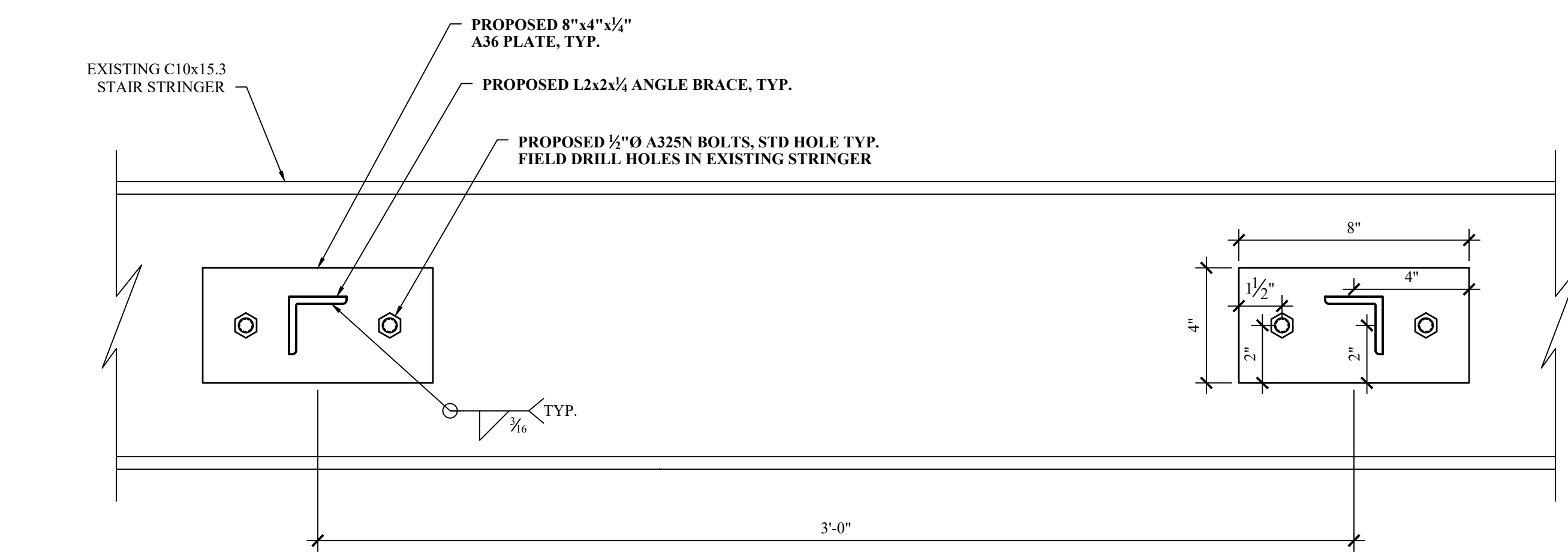
8 SLAB REPAIR ABOVE COMBINED FOOTING
SCALE: 3" = 1'-0"



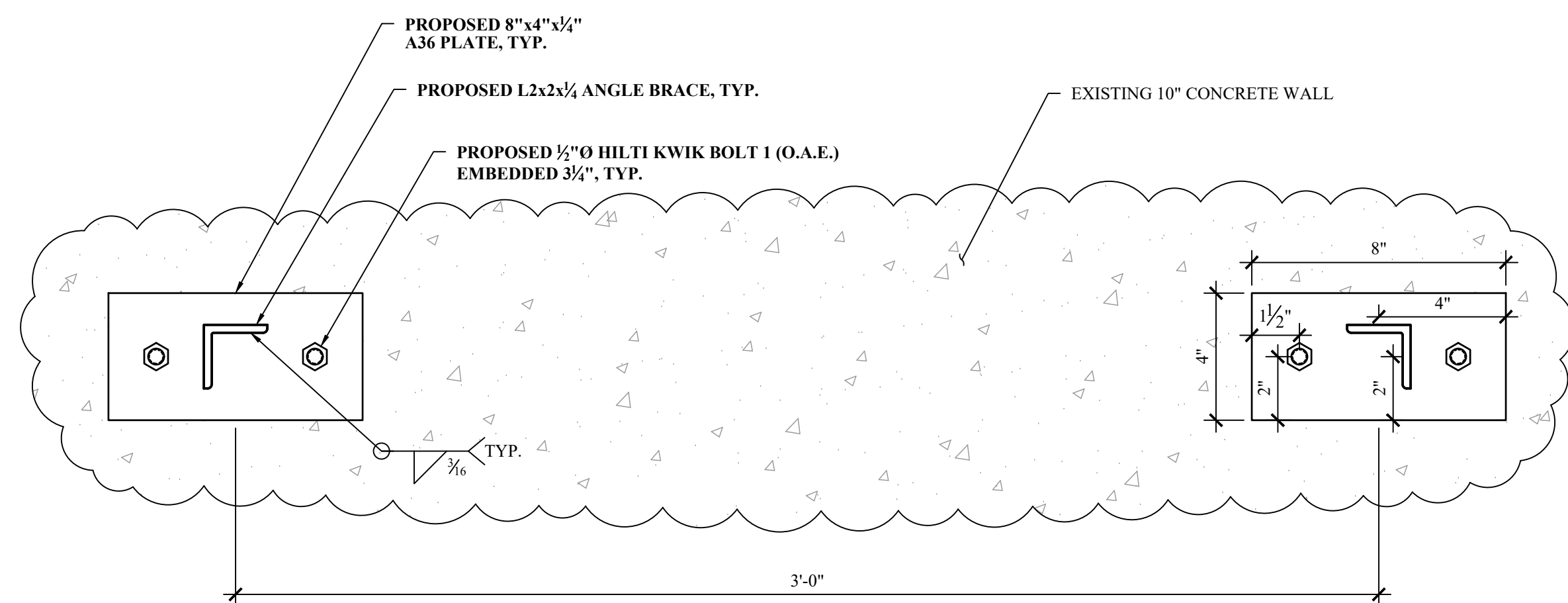
9 BLOCK WALL DEMO SLAB REPAIR
SCALE: 1-1/2" = 1'-0"



10 TYPICAL CONTROL JOINT
SCALE: 1" = 1'-0"



11 TEMPORARY BRACE CONNECTION TO EXISTING STRINGER
SCALE: 3" = 1'-0"



12 TEMPORARY BRACE CONNECTION TO EXISTING CONCRETE WALL
SCALE: 3" = 1'-0"

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CAESARS LANE WWTP EXPANSION PROJECT: PHASE 1
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

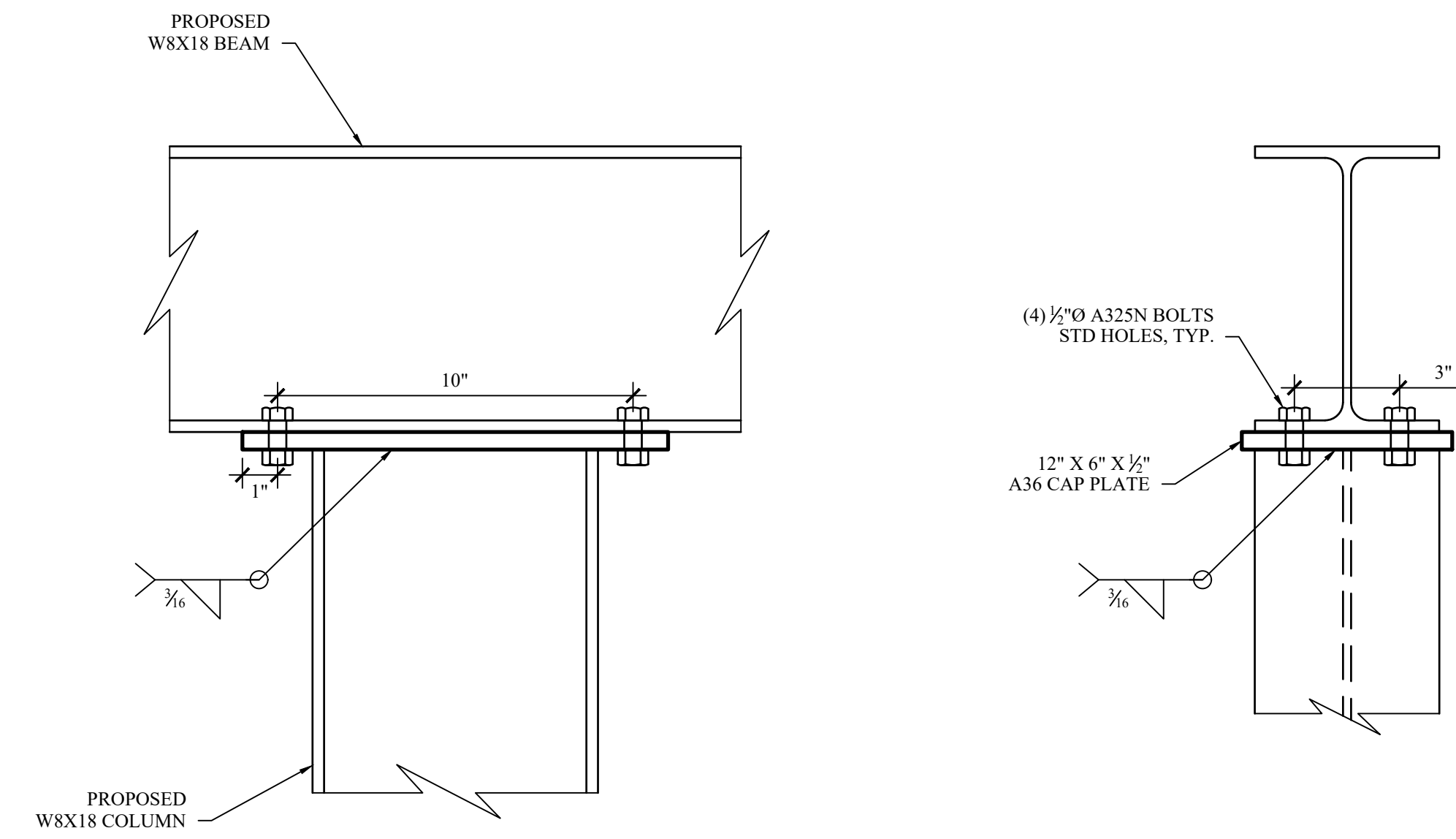
SLUDGE DEWATERING BUILDING - STRUCTURAL DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

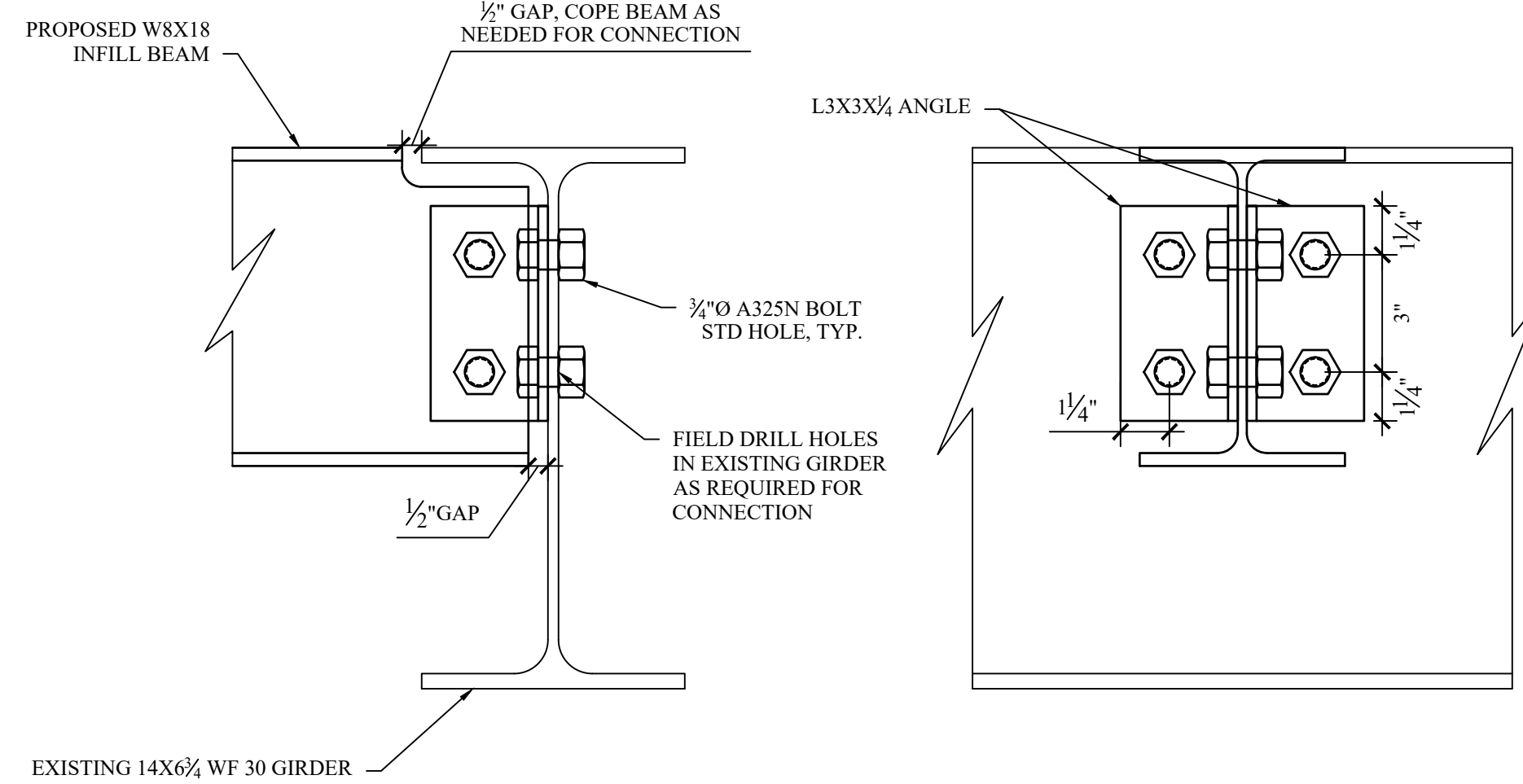
ISSUED DATE:	21 NOV, 2024
DESIGN BY:	WPG/PJW
DRAWN BY:	WPG/PJW
CHECKED BY:	JSS/PJW
REVIEWED BY:	JSS/MIL

SHEET NO.

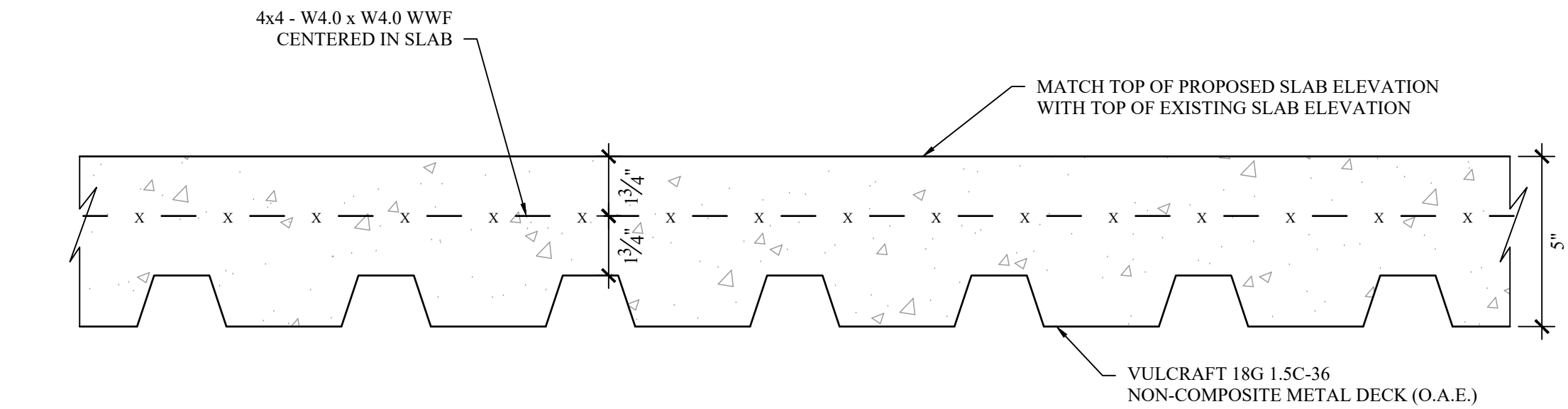
S-705
PROJECT # 18-732 PHASE #1



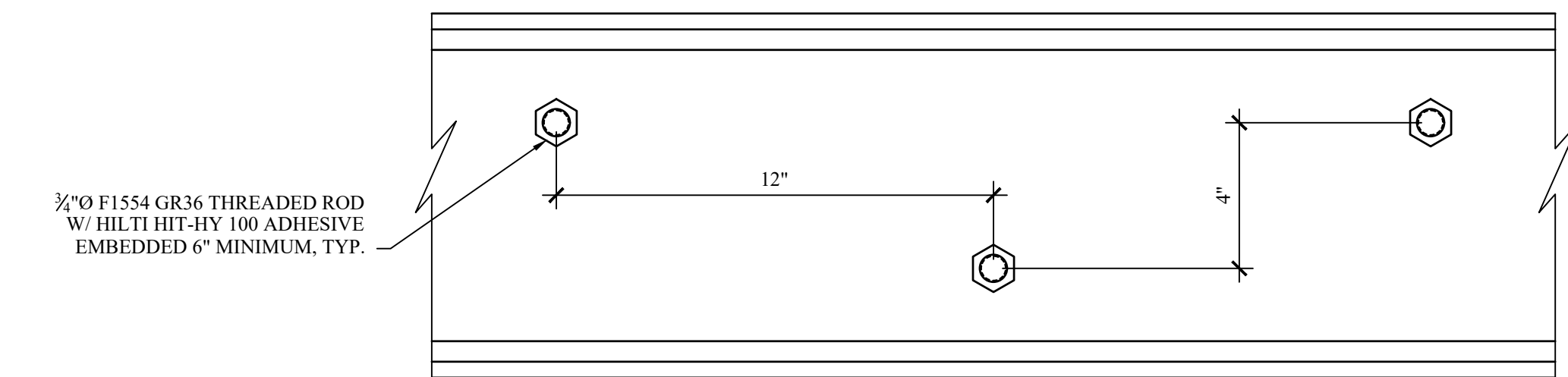
1 UPPER LEVEL INFILL BEAM TO COLUMN CONNECTION
S-706 SCALE: 3" = 1'-0"



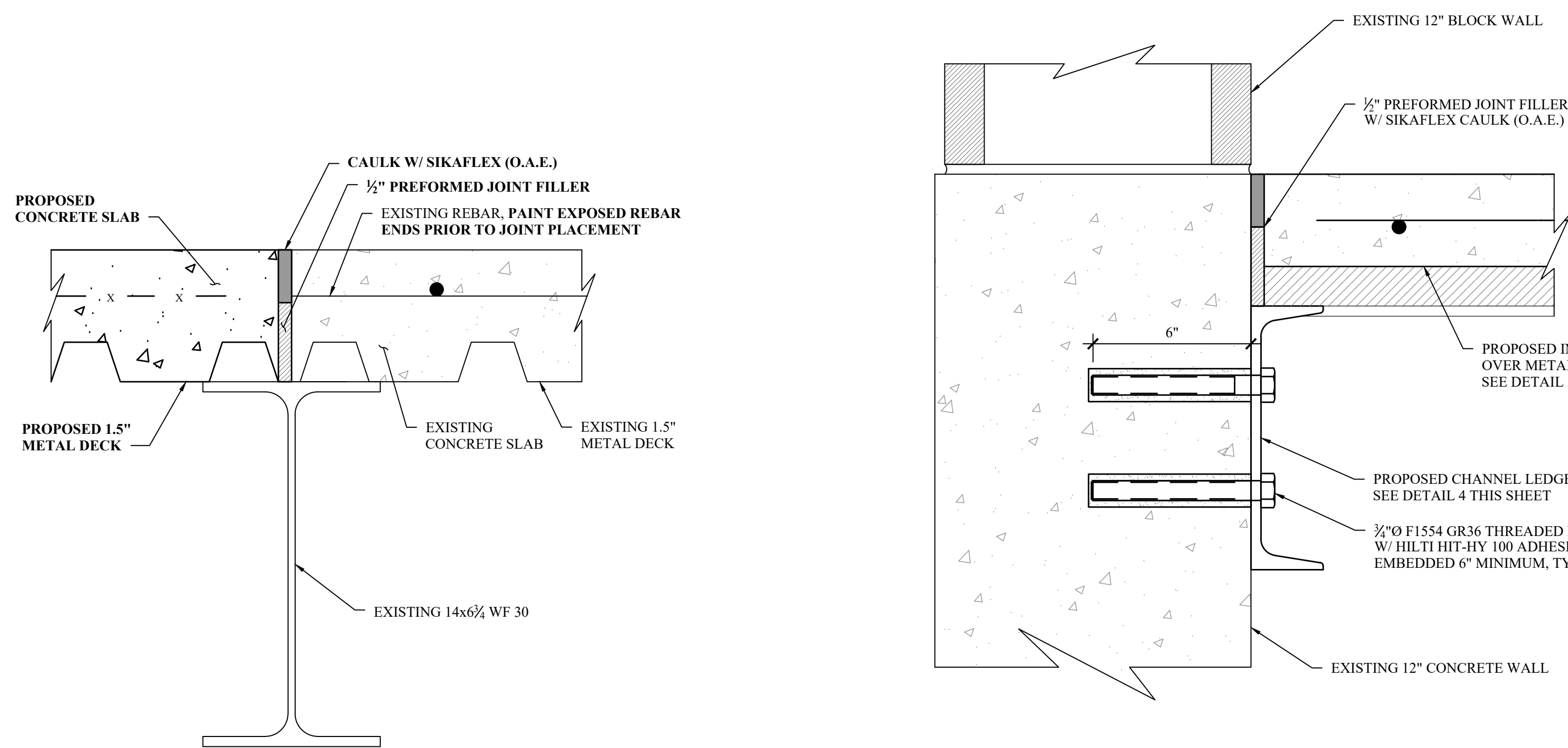
2 UPPER LEVEL INFILL BEAM TO EXISTING GIRDER CONNECTION
S-706 SCALE: 3" = 1'-0"



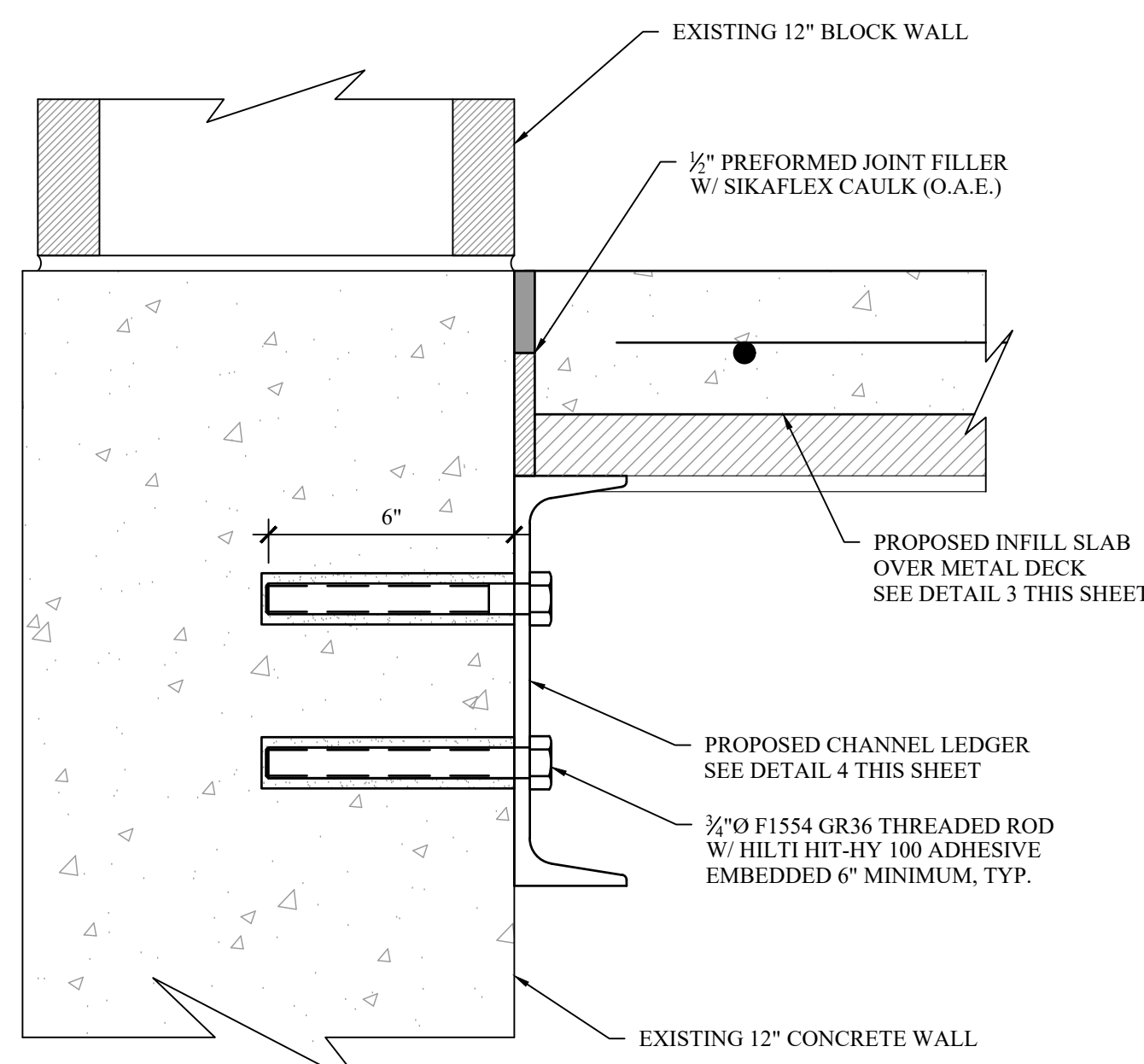
3 UPPER LEVEL INFILL METAL DECK AND SLAB
S-706 SCALE: 3" = 1'-0"



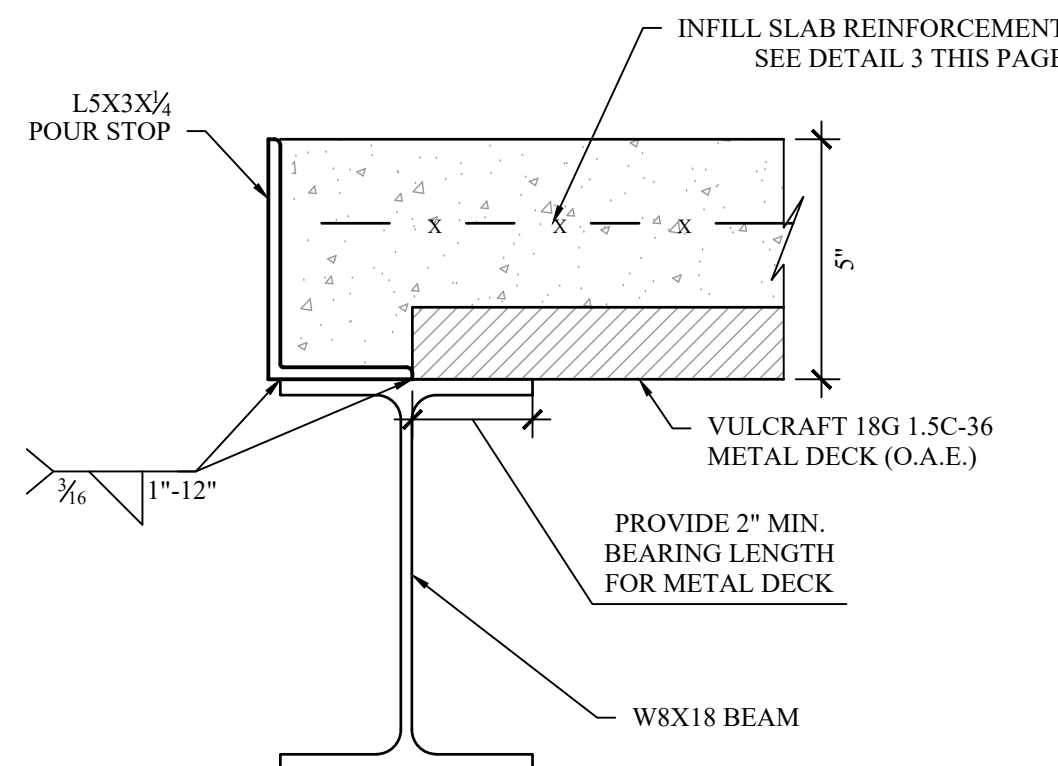
4 UPPER LEVEL INFILL LEDGER ANCHORAGE
S-706 SCALE: 3" = 1'-0"



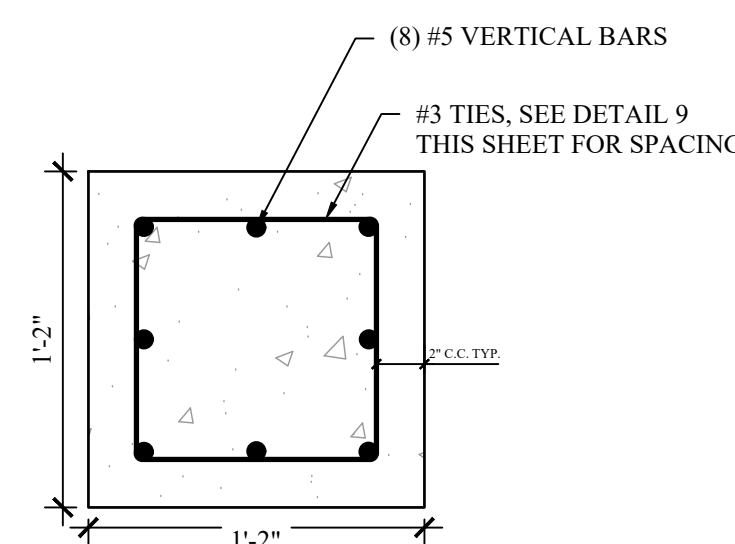
5 PROPOSED UPPER LEVEL INFILL AND EXISTING SLAB JOINT
S-706 SCALE: 3" = 1'-0"



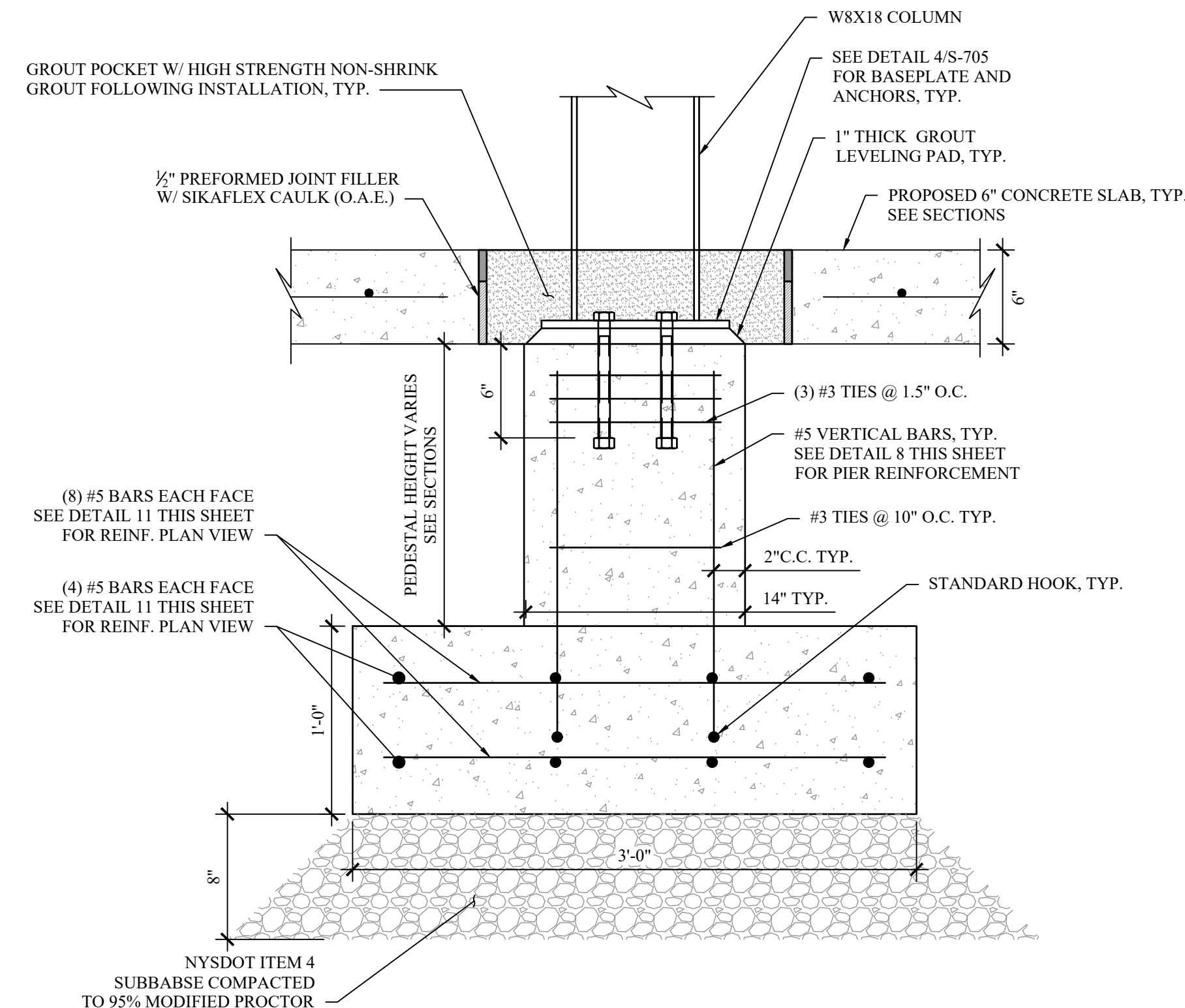
6 UPPER LEVEL INFILL LEDGER EXPANSION JOINT
S-706 SCALE: 3" = 1'-0"



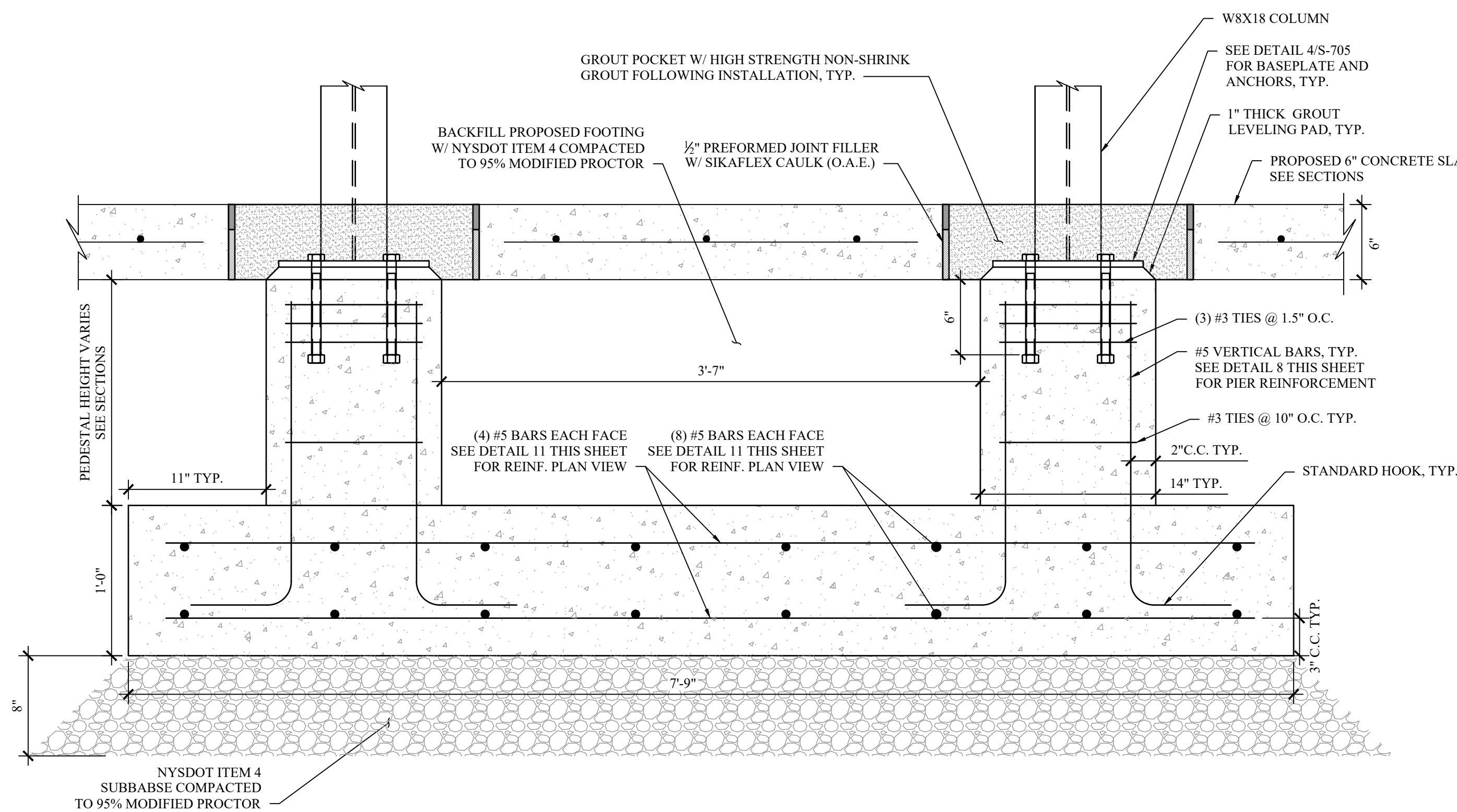
7 POUR STOP DETAIL
S-706 SCALE: 3" = 1'-0"



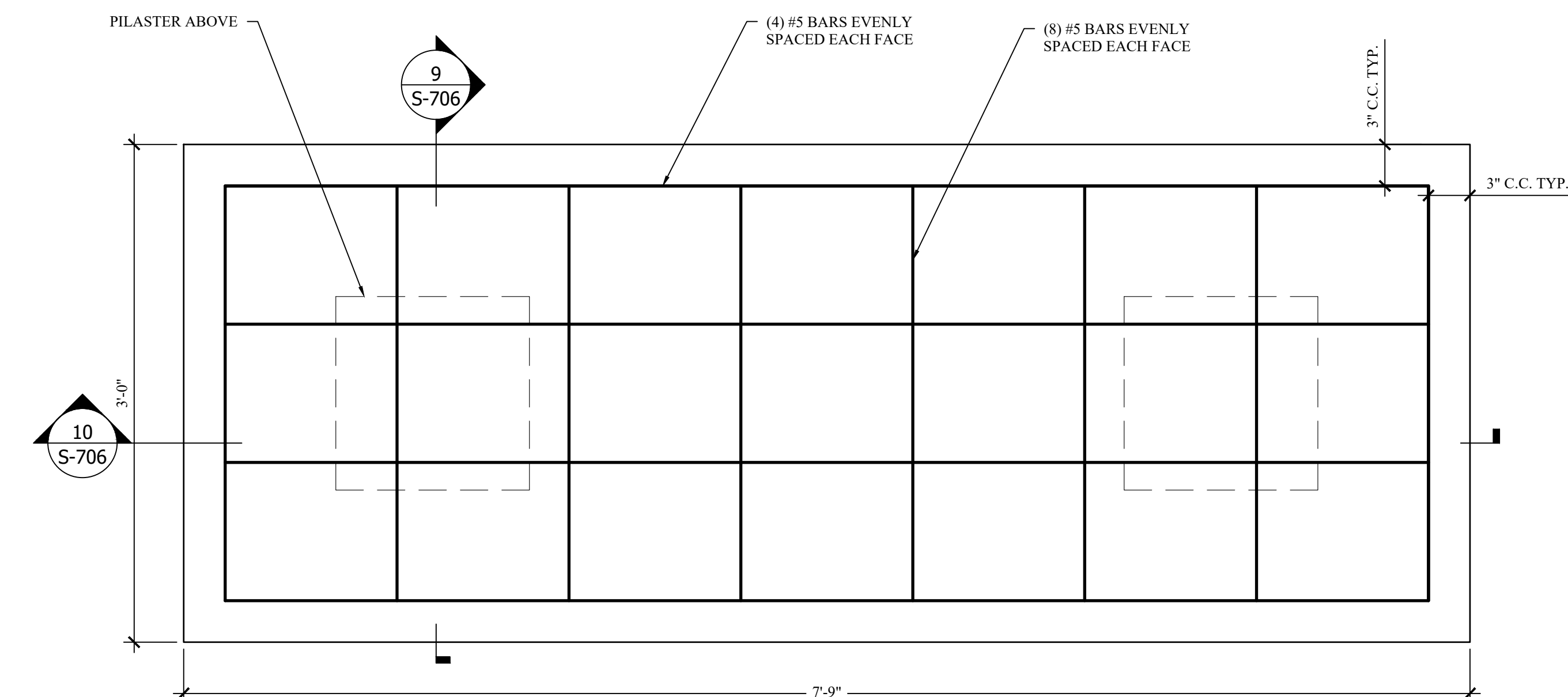
8 PIER REINFORCEMENT PLAN
S-706 SCALE: 1-1/2" = 1'-0"



9 COMBINED FOOTING AND PIER TRANSVERSE SECTION
S-706 SCALE: 1-1/2" = 1'-0"



10 COMBINED FOOTING AND PIERS LONGITUDINAL SECTION
S-706 SCALE: 1-1/2" = 1'-0"



11 COMBINED FOOTING REINFORCEMENT PLAN
S-706 SCALE: 1-1/2" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGN BY:	WPG/PJW
DRAWN BY:	WPG/PJW
CHECKED BY:	JSS/PJW
REVIEWED BY:	JSS/MIL

SHEET NO.

S-706

BID SET

HAZARDOUS MATERIAL NOTE:
THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MHE PLANS, DO NOT INCLUDE SERVICES RELATED TO THE IDENTIFICATION, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD PAINT. ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE ENCOUNTERED WHILE UNDERTAKING THE WORK SHOWN HEREON, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT PRIOR TO THE CONTINUATION OF WORK INVOLVING SUSPECTED MATERIAL.



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**CAESARS LANE WWTP
EXPANSION PROJECT:
PHASE I**
145 CAESARS LN.
NEW WINDSOR, NY 12553
FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

RETAINING WALL
DETAILS AND
ELEVATION

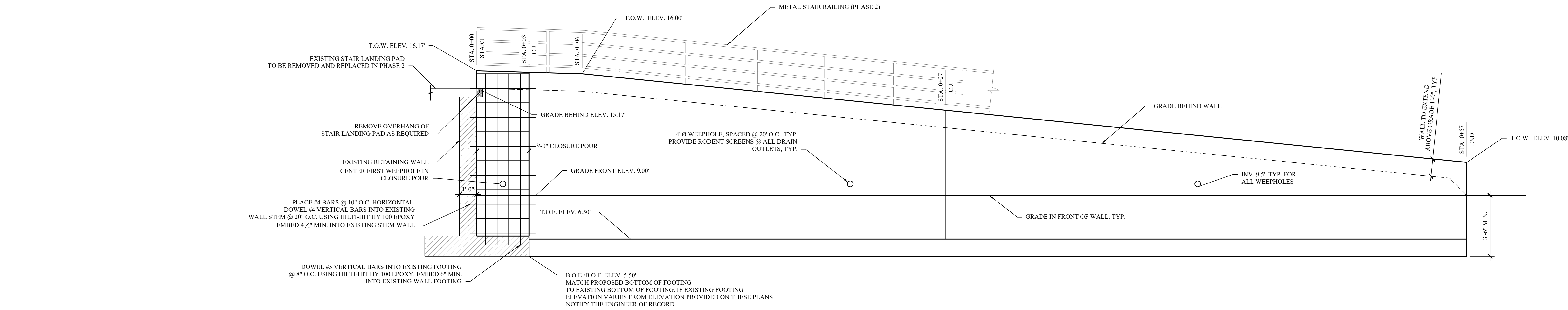
REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
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DRAWN BY:	WPG/PJW
CHECKED BY:	JSS/PJW
REVIEWED BY:	JSS/MIL

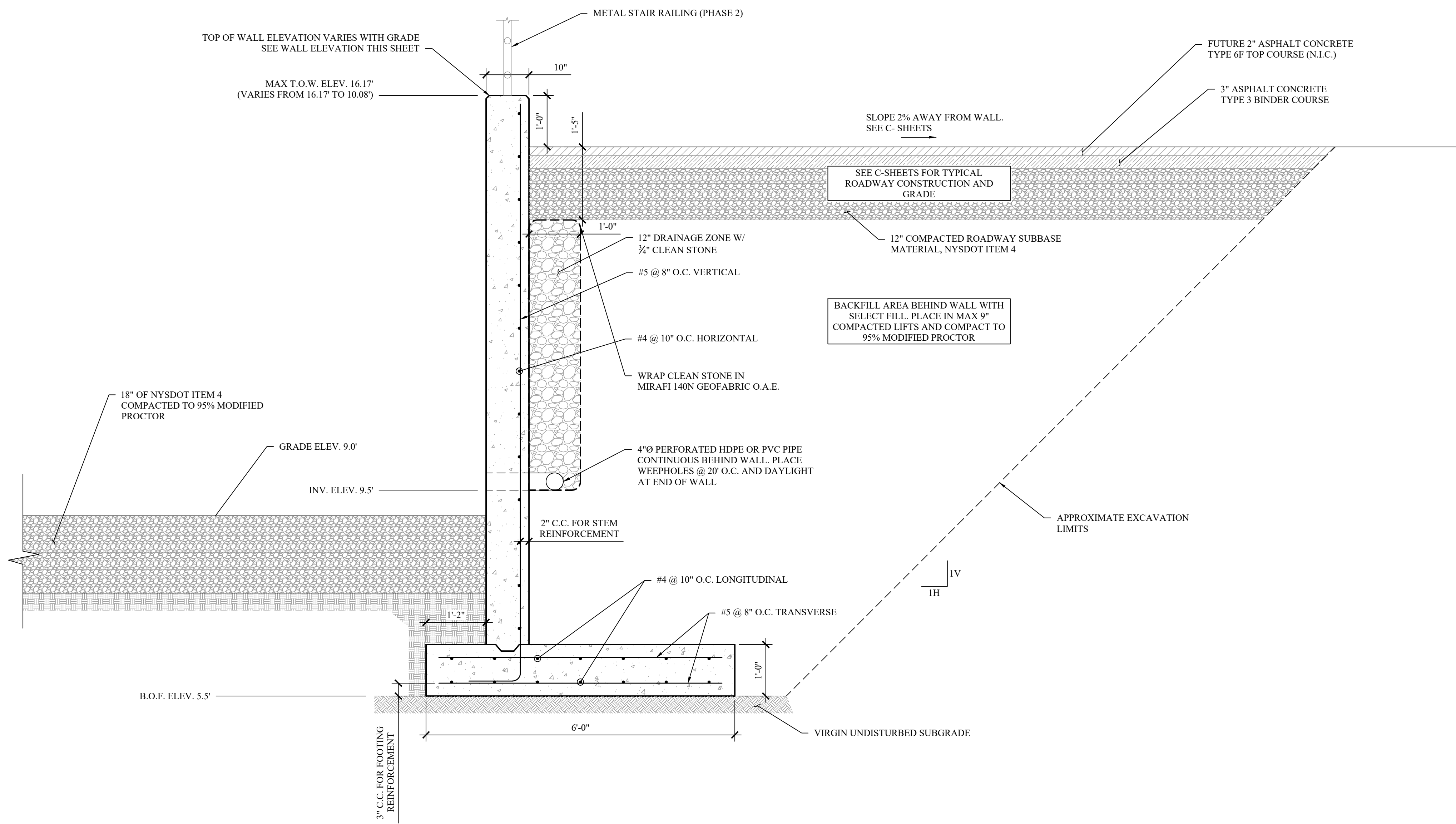
SHEET NO.

S-707

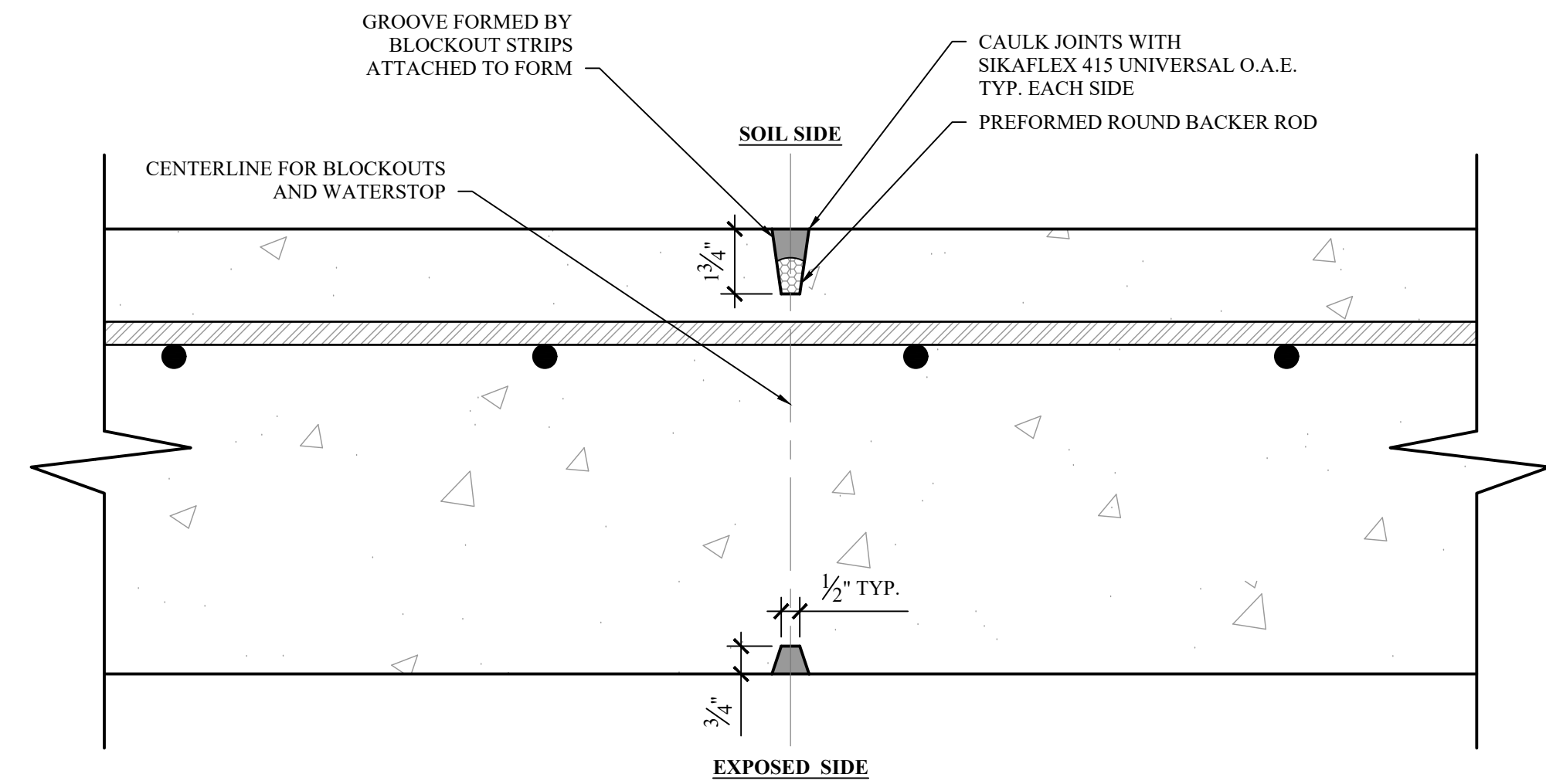
PROJECT # 18-732 PHASE #1



1
S-707
PROPOSED RETAINING WALL ELEVATION
SCALE: 3/8" = 1'-0"



2
S-707
PROPOSED RETAINING WALL TYPICAL SECTION
SCALE: 3/4" = 1'-0"



3
S-707
TYPICAL WALL CONTRACTION JOINT DETAIL
SCALE: 3" = 1'

BID SET



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EXPANSION PROJECT**
145 CAESARS LN.
NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

CONTROL BUILDING -
SLAB PLAN

REVISIONS

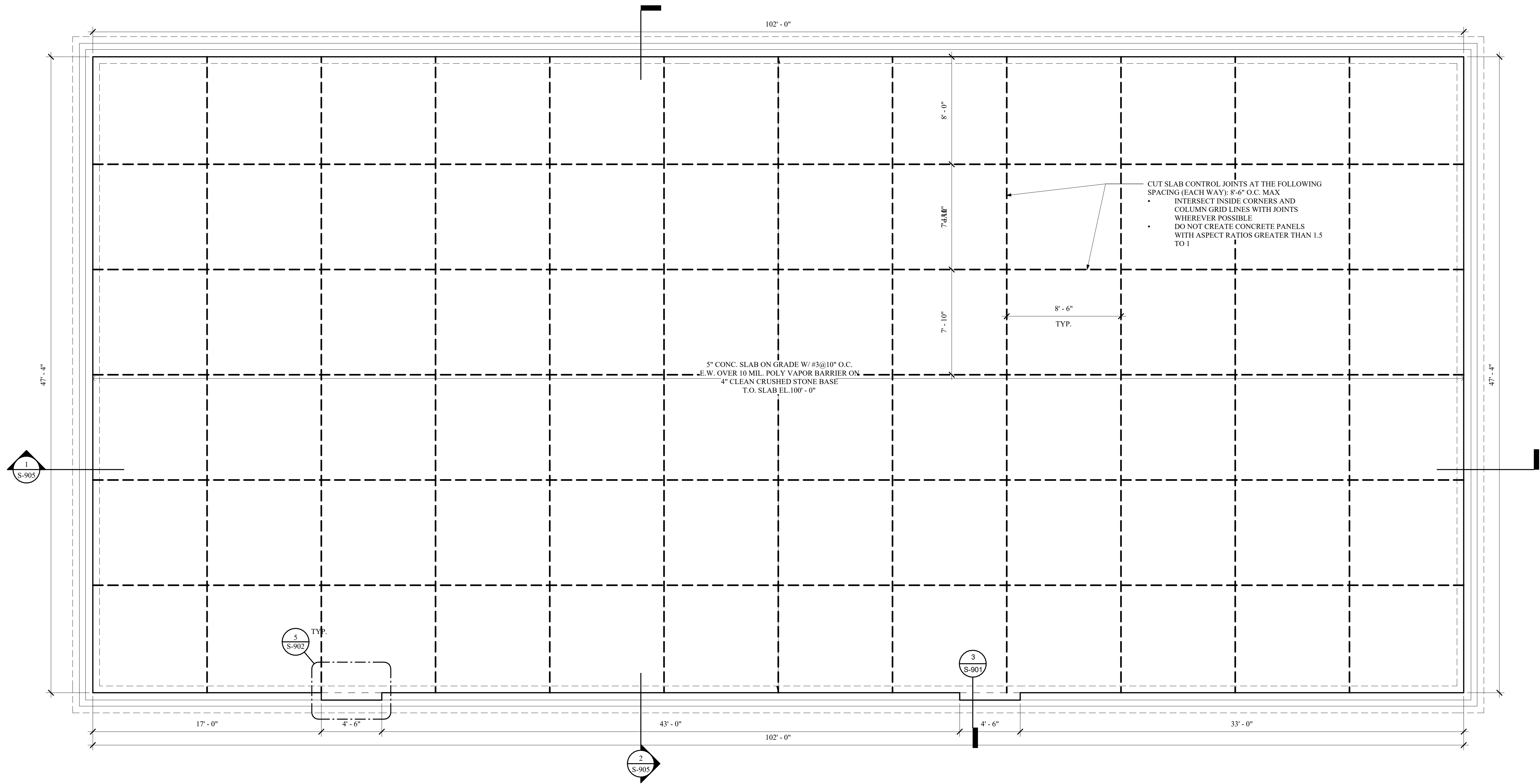
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	WPG/WRB
DRAWN BY:	WRB
CHECKED BY:	JSS
REVIEWED BY:	MJL

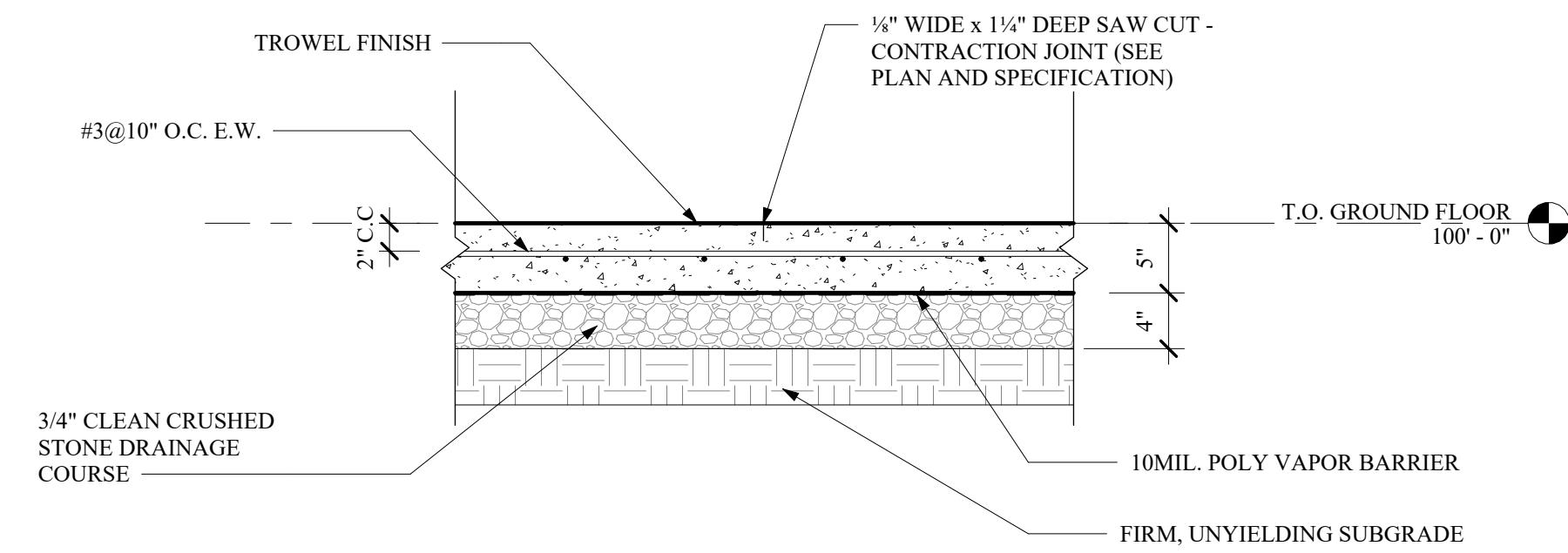
SHEET NO.

S-902

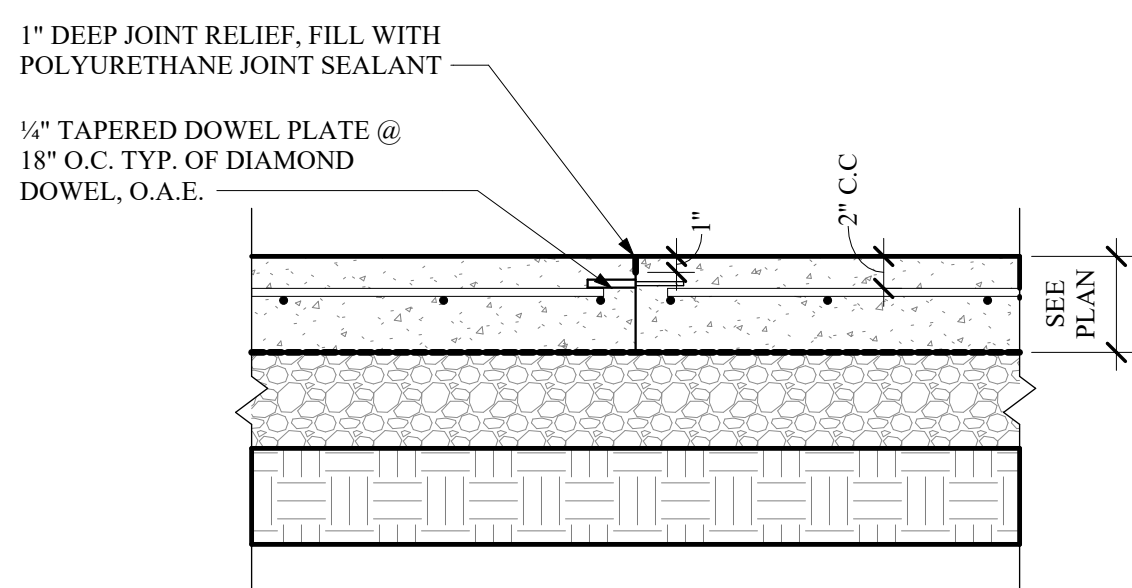
PROJECT # 18-732 PHASE # 1



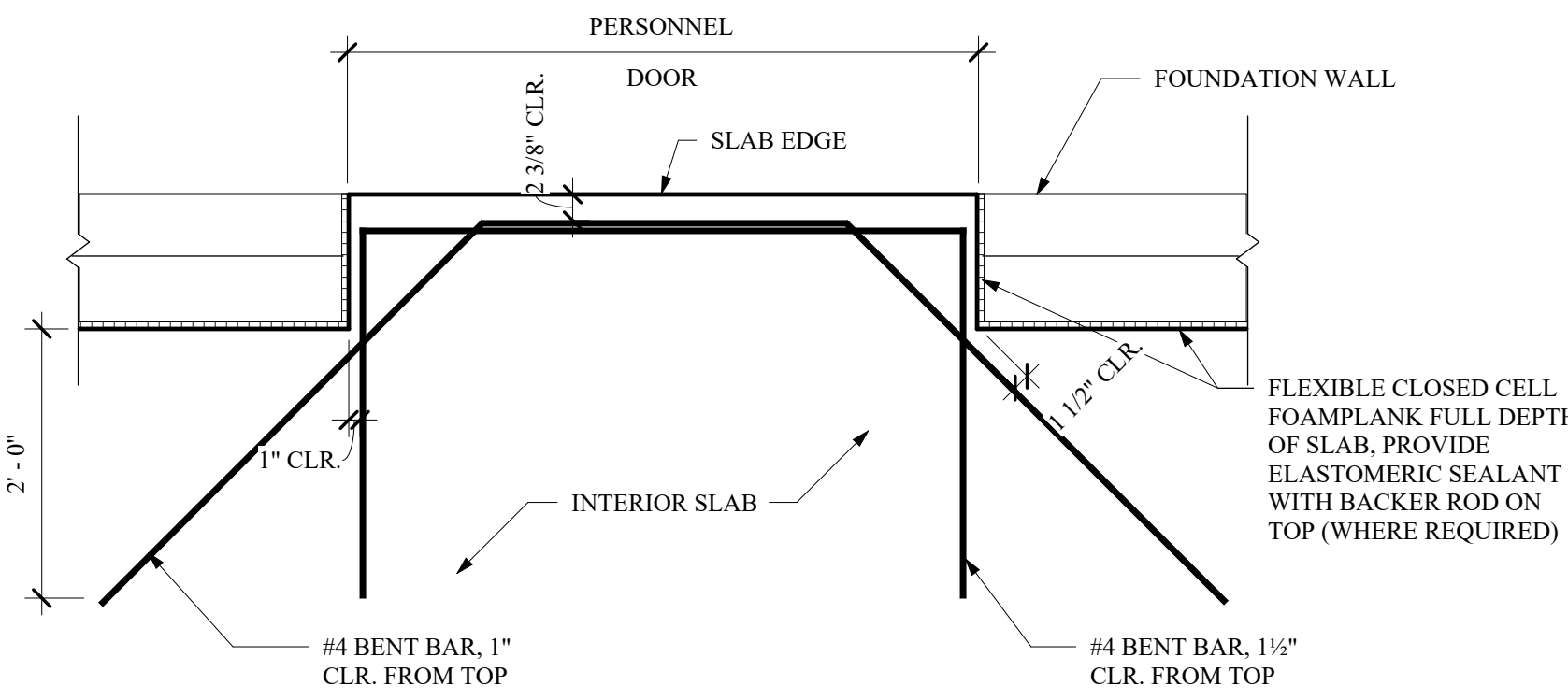
1
S-902
SLAB PLAN
SCALE: 1/4" = 1'-0"



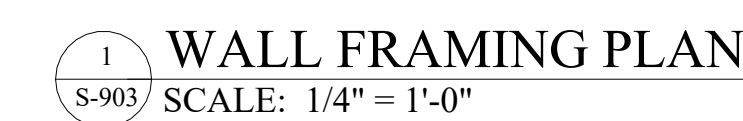
2
S-902
TYP. SLAB DETAIL
SCALE: 1" = 1'-0"



3
S-902
TYP. CONSTRUCTION JOINT DETAIL
SCALE: 1" = 1'-0"



5
S-902
TYP. REINF. DETAIL AT DOORWAYS
SCALE: 3/4" = 1'-0"



6
S-903

*PROVIDE HEADERS OVER LOUVERS AND MECHANICAL OPENINGS IN LOAD BEARING WALLS IN ACCORDANCE WITH SCHEDULE

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555 UNION AVE.
NEW WINDSOR, NY 12553

[illegible]

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	WPG/WRB
DRAWN BY:	WRB
CHECKED BY:	JSS
REVIEWED BY:	MJL

SHEET NO. _____

2000

S 002

S-905

5902

PROJECT #	18-732	PHASE #	1
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BID SET



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CAESARS LANE WWTP
EXPANSION PROJECT
145 CAESARS LN.
NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

CONTROL BUILDING -
ROOF FRAMING PLAN

REVISIONS

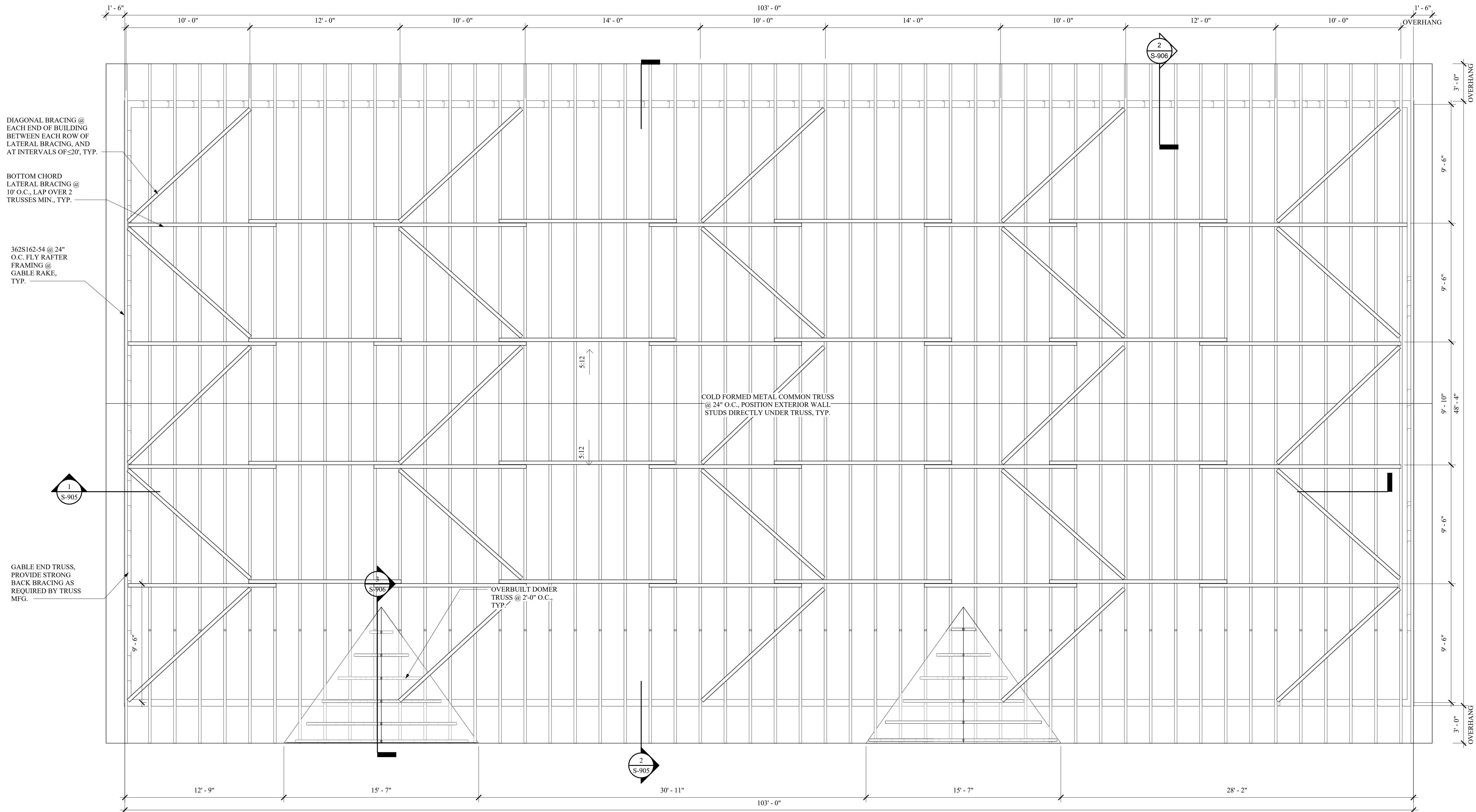
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	WPG/WRB
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REVIEWED BY:	MJL

SHEET NO.

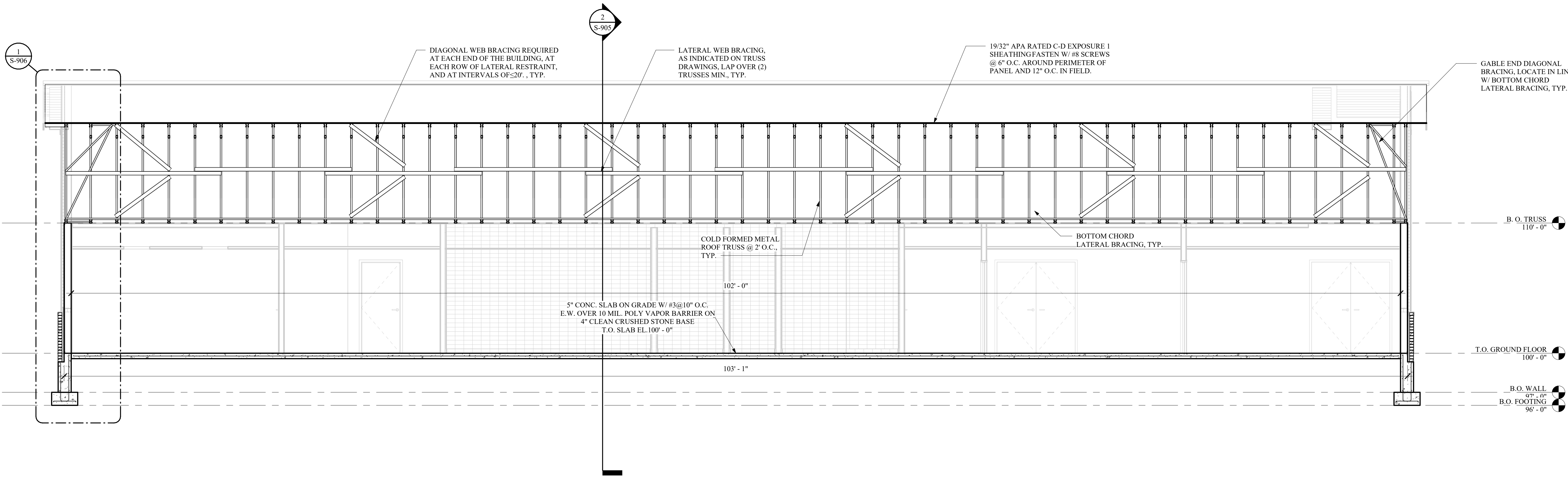
S-904

PROJECT # 18-732 PHASE # 1

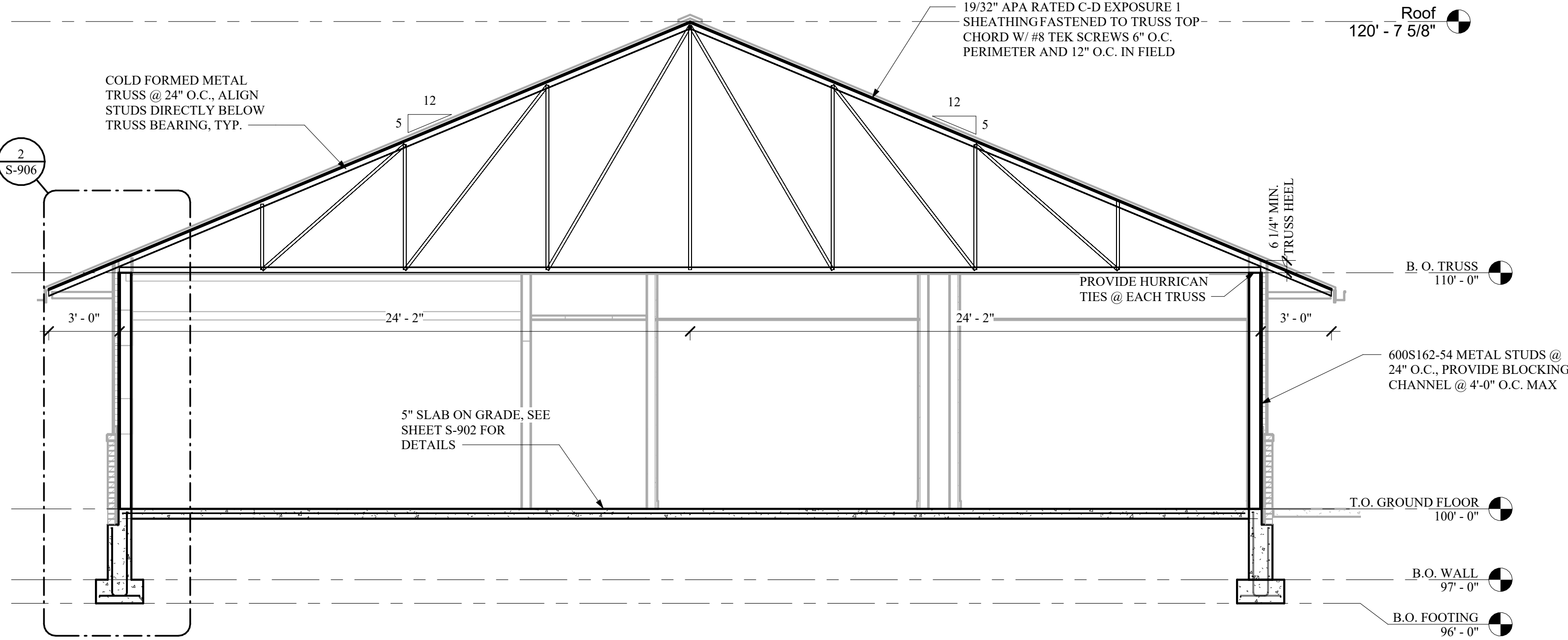


1 ROOF FRAMING PLAN
S-904 SCALE: 1/4" = 1'-0"

- NOTES:
- PROVIDE SIMPSON H2A HURRICAN TIE @ EACH TRUSS/STUD
 - 19/32" APA RATED C-D EXPOSURE IS SHEATHING SHALL BE FASTENED TO TRUSSES W/ #8 SCREWS @ 6" O.C. AROUND PERIMETER OF PANEL AND 12" O.C. IN FIELD. BLOCK ALL PANEL EDGES.
 - PROVIDE FASTENERS @ 4" O.C. ALONG THE ROOF EAVE AND RIDGE LINES.
 - ROOF OVERHANG DIMENSIONS ARE TO BACK FACE OF FASCIA BOARD.



1
S-905
Section 1
SCALE: 1/4" = 1'-0"



2
S-905
Section 2
SCALE: 1/4" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	WPG/WRB
DRAWN BY:	WRB
CHECKED BY:	JSS
REVIEWED BY:	MJL

BID SET



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EXPANSION PROJECT
145 CAESARS LN.
NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

CONTROL BUILDING -
WALL SECTIONS

REVISIONS

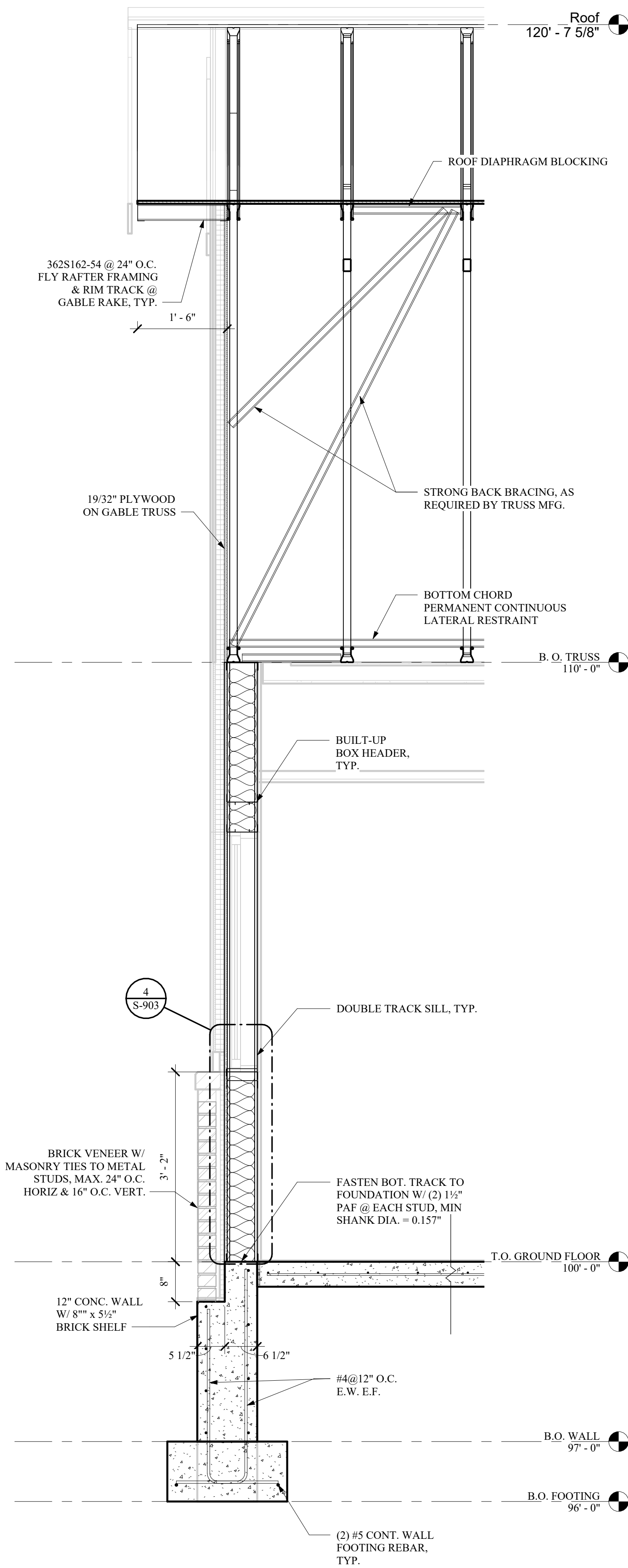
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOV, 2024
DESIGNED BY:	WPG/WRB
DRAWN BY:	WRB
CHECKED BY:	JSS
REVIEWED BY:	MJL

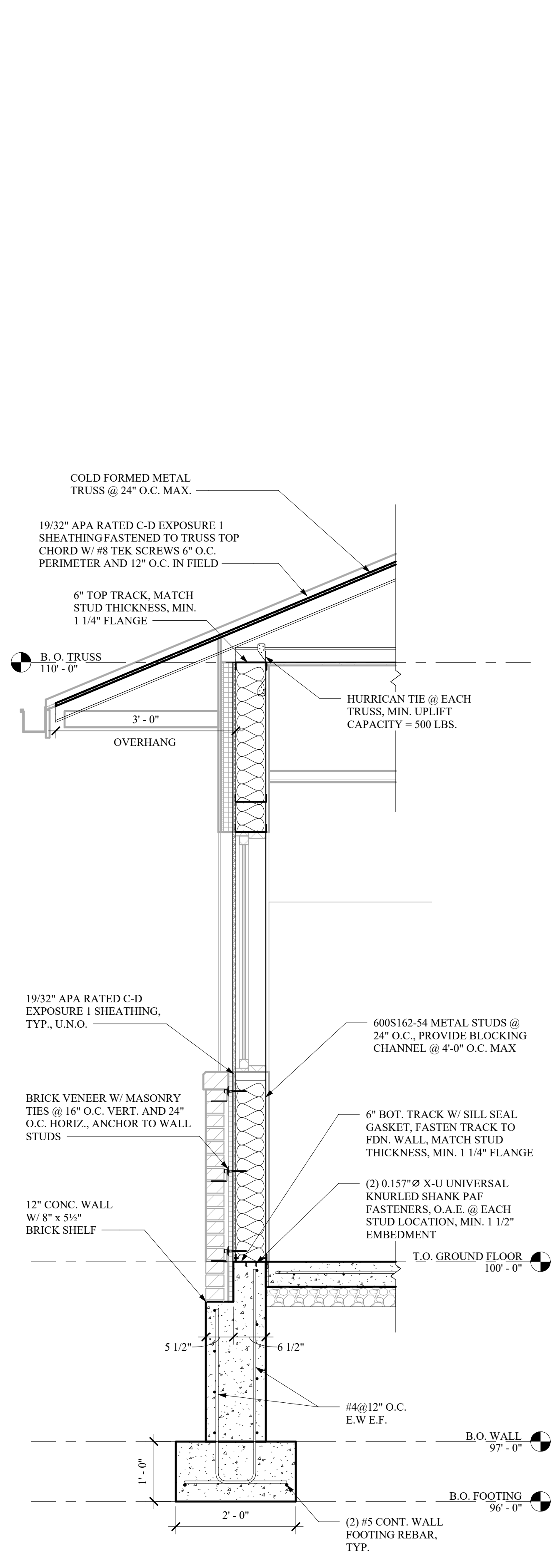
SHEET NO.

S-906

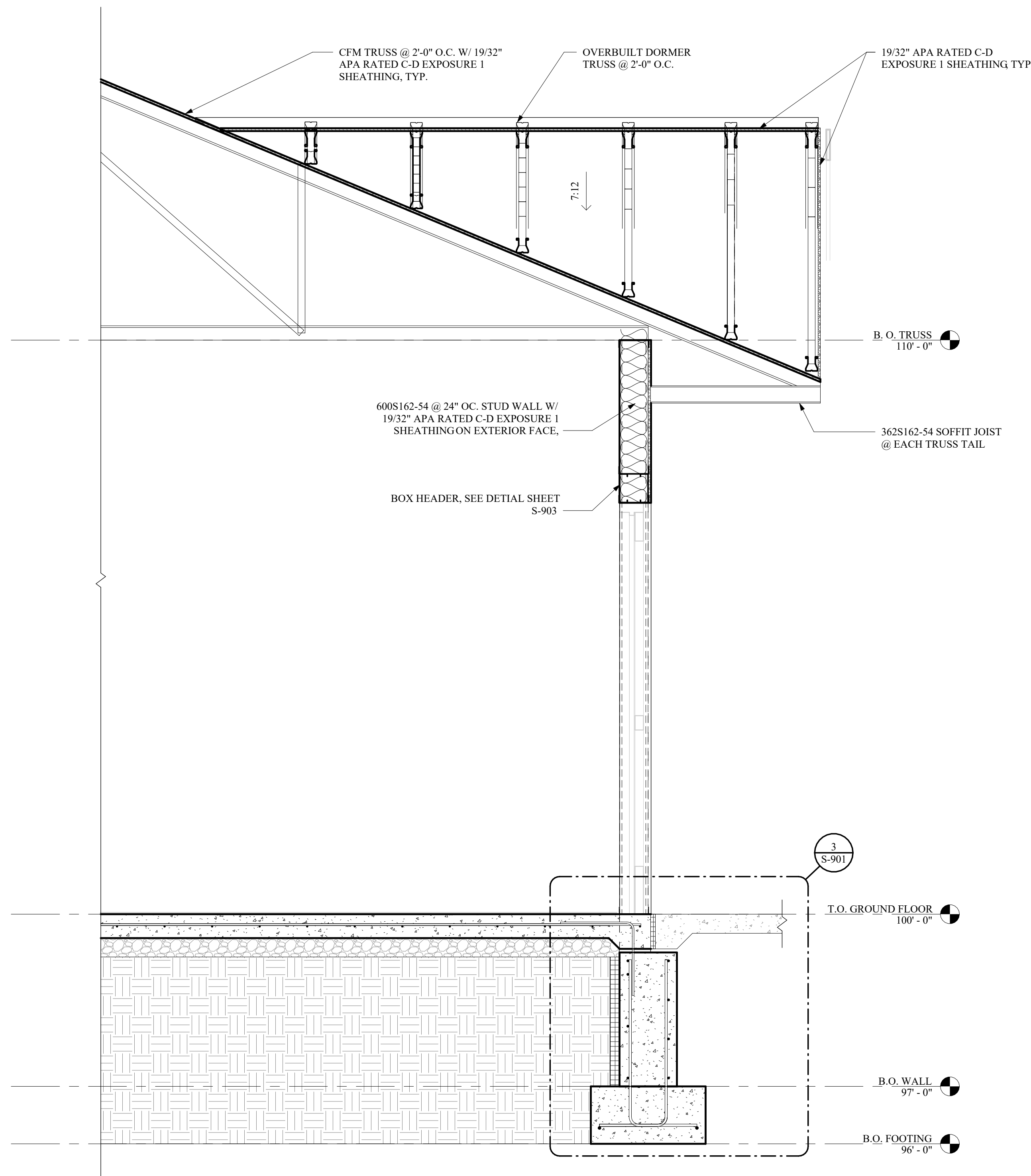
PROJECT # 18-732 PHASE # 1



1 TYP. ENDWALL SECTION
SCALE: 3/4" = 1'-0"



2 TYP. SIDEWALL SECTION
SCALE: 3/4" = 1'-0"



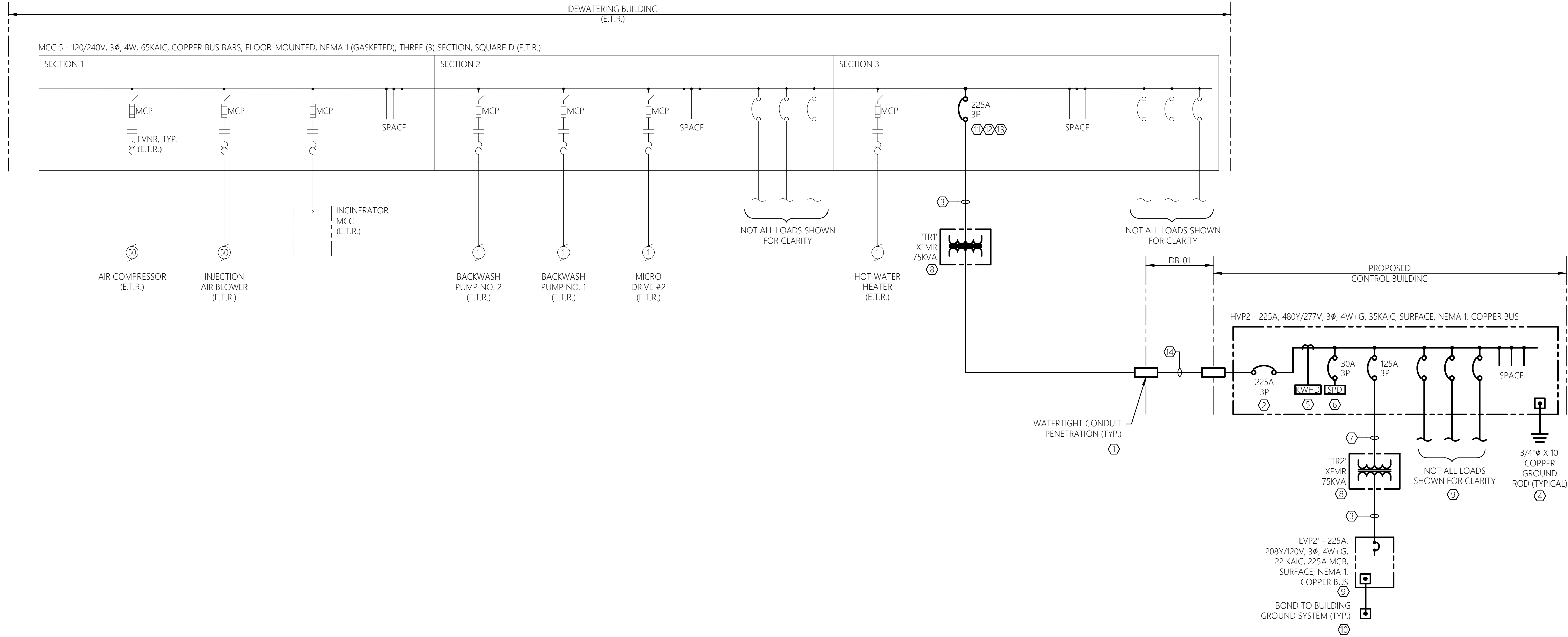
3 TYP. DORMER SECTION
SCALE: 3/4" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
2. NEW ELECTRICAL EQUIPMENT BASIS OF DESIGN - EATON.
3. PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
4. ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL PRIME CONTRACTORS AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.
5. REFER TO ELECTRICAL FLOOR PLAN DRAWINGS AND ELECTRICAL SITE PLAN FOR GENERAL LOCATIONS AND DUCT BANK INFORMATION.
6. REFER TO ELECTRICAL DETAIL SHEETS AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
7. CONTRACTOR TO PROVIDE ADDITIONAL LUG TERMINATION KITS OR PIN ADAPTORS WITHIN EQUIPMENT SHOWN/SPECIFIED AS NECESSARY TO TERMINATE THE NUMBER OF SETS OF CONDUCTORS AND SIZE SHOWN/SPECIFIED.
8. CIRCUITS SHOWN ARE POWER. REFER TO SCHEDULES FOR ADDITIONAL CIRCUITS.
9. NOT ALL REQUIRED THRU-WALL AND THRU-FLOOR WATERTIGHT PENETRATIONS SHOWN FOR CLARITY. CONTRACTOR TO PROVIDE A THRU-WALL/FLOOR WATERTIGHT PENETRATION FOR ALL PENETRATIONS WITHIN BUILDING EXTERIOR WALLS AND FLOORS. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION.
10. CONTRACTOR TO COORDINATE OVERALL SEQUENCE OF CONSTRUCTION WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.
11. ALL CONDUCTORS TO BE COPPER AND CONTAIN THWN OR XHHW INSULATION (UNLESS OTHERWISE NOTED).

SHEET KEY NOTES:

1. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
2. PROVIDE BREAKER WITH ELECTRONIC LSI TRIP UNIT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. (4) #4/0 & #4G, 2-1/2" C.
4. CONTRACTOR TO PROVIDE TWO (2) 3/4" Ø x 10' COPPER GROUND RODS. PROVIDE GROUNDING ELECTRODE FOR BUILDING SERVICE PER NEC. GROUND RODS TO BE PLACED AT MINIMUM OF 10 FEET APART. BOND GROUND RODS TOGETHER WITH A LOOPED #2 COPPER CONDUCTOR. CONTRACTOR TO ADDITIONALLY BOND TO BUILDING GROUND RING AND LIGHTNING PROTECTION SYSTEM UTILIZING #2 COPPER CONDUCTOR.
5. PROVIDE CUSTOMER POWER METERING INTERNAL TO PANEL. METER TO BE MODEL POWER XPST METER 2000 SERIES AS MANUFACTURED BY EATON OR APPROVED EQUAL. PROVIDE METER WITH OPTIONAL COMMUNICATIONS EXPANSION CARD TO ENABLE ETHERNET CONNECTION TO SCADA FOR MONITORING. PROVIDE ALL REQUIRED INTERNAL PROTECTION AND CABLING AS REQUIRED.
6. PROVIDE SECONDARY SURGE PROTECTIVE DEVICE SUITABLE FOR INSTALLED SERVICE PER MANUFACTURERS RECOMMENDATIONS. AT MINIMUM DEVICE TO BE RATED FOR A SURGE CAPACITY RATING OF 200KA PER PHASE, BE A TYPE 2 DEVICE, 20KA NOMINAL DISCHARGE CURRENT, AND CONTAIN STANDARD PACKAGE OPTIONS/FEATURES. PROVIDE DEVICE INTERNAL TO PANEL AND PROVIDE DISCONNECT AS REQUIRED.
7. (5) #1/0 & #6G, 2" C.
8. REFER TO ELECTRICAL SCHEDULES FOR ADDITIONAL INFORMATION/REQUIREMENTS.
9. NOT ALL LOADS SHOWN FOR CLARITY. REFER TO EQUIPMENT CONNECTION SCHEDULE, AND PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION/REQUIREMENTS.
10. CONTRACTOR TO BOND TO BUILDING GROUND SYSTEM. UTILIZE #2 COPPER GROUND CONDUCTOR UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
11. CONTRACTOR TO UTILIZE EXISTING SPACE (SPARE BUCKET) WITHIN THE MCC TO INSTALL PROPOSED FEEDER CIRCUIT BREAKER BUCKET AS SHOWN. PROPOSED FEEDER CIRCUIT BREAKER BUCKET AND ALL ASSOCIATED EQUIPMENT TO BE COMPATIBLE WITH EXISTING TO REMAIN MCC. NOTE, THE EXISTING MCC WAS MANUFACTURED BY SQUARE D COMPANY. CONTRACTOR TO FIELD VERIFY.
12. CONTRACTOR TO PROVIDE FEEDER CIRCUIT BREAKER BUCKET WITH NEW CIRCUIT BREAKER AND HINGED DOOR ALLOWING CIRCUIT BREAKER OPERATION WHILE THE DOOR IS CLOSED. PROPOSED HINGED DOOR TO BE EQUIPPED WITH THROUGH DOOR HANDLE OPERATOR FOR PROPOSED CIRCUIT BREAKER OPERATION. IN ADDITION CONTRACTOR TO PROVIDE/INSTALL ADDITIONAL MCC BLANK PLATE IF REQUIRED (SIZED AS REQUIRED) TO ACCOMMODATE NEWLY INSTALLED FEEDER CIRCUIT BREAKER BUCKET. CONTRACTOR TO PROVIDE ALL NECESSARY CABLING, LUGS, TERMINATIONS, AND ACCESSORIES TO INSTALL PROPOSED FEEDER CIRCUIT BREAKER BUCKET WITHIN EXISTING MCC. FINAL SOLUTION TO BE UL LISTED. CONTRACTOR TO FIELD VERIFY.
13. PROPOSED FEEDER CIRCUIT BREAKER BUCKET TO CARRY AN 18 MONTH WARRANTY AFTER DATE OF INSTALLATION. FEEDER CIRCUIT BREAKER BUCKET TO BE SOURCED FROM ADVANCED ELECTRICAL AND MOTOR CONTROLS INCORPORATED (WWW.AEAMC.COM) OR APPROVED EQUAL.
14. (4) #250 & #4G, 4" C.



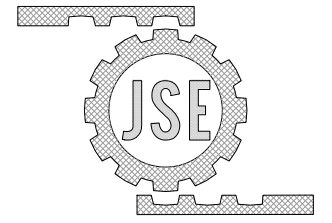
1 ELECTRICAL NEW WORK SINGLE LINE DIAGRAM
E-010 SCALE: NTS CAESARS LANE WWTP



33 Airport Center Drive, Suite 202 111 Wheelfield Drive, Suite 1
New Windsor, NY 12553 Middletown, PA 18837
(845) 567-3100 (870) 296-2785

JADE STONE ENGINEERING

mechanical, electrical, plumbing



444 WINDLIZE ST. WATERTOWN NY 13601
P: 315.536.4062 js-engineering

HAZARDOUS MATERIAL NOTE:

THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MHE PLANS, DO NOT INCLUDE SERVICES RELATED TO THE IDENTIFICATION, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD PAINT. ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE ENCOUNTERED WHILE UNDERTAKING THE WORK SHOWN HEREON, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT PRIOR TO THE CONTINUATION OF WORK INVOLVING SUSPECTED MATERIAL.



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CAESARS LANE WWTP EXPANSION PROJECT

145 CAESARS LN.
NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

ELECTRICAL NEW WORK SINGLE LINE DIAGRAMS

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE:	21 NOVEMBER, 2024
DESIGN BY:	RRM
DRAWN BY:	CDJ
CHECKED BY:	MGR
REVIEWED BY:	JER

SHEET NO.

E-010

PROJECT # 18-732 PHASE #

DUCT BANK SCHEDULE							
DESIGNATION [DB-XX]	TYPE	ORIGIN	DESTINATION	CIRCUIT			REMARKS
				CONDUCTORS/CONDUIT	ORIGIN	DESTINATION	
DB-01	SAND FILL	DEWATERING BUILDING	PROPOSED HANDHOLE	(4)#250 & #4G, 4°C.	MCC-5	HANDHOLE HH-3E	
DB-02	SAND FILL/ REINFORCED CONCRETE	PROPOSED HANDHOLE HH-3E & HH-3C	CONTROL BUILDING	2-STRAND, MULTI-MODE (50 MICRON CORE / 125 MICRON CLADDING DIAMETER), FIBER OPTIC CABLE, 4°C.	DATA RACK	HANDHOLE HH-3C	
				4°C SPARE	HANDHOLE HH-3C	FUTURE MCP LOCATION	
				4" C. SPARE	HANDHOLE HH-3C	FUTURE MCP LOCATION	
				(4)#250 & #4G, 4°C.	HANDHOLE HH-3E	HVP2	① ②
				2-STRAND, MULTI-MODE (50 MICRON CORE / 125 MICRON CLADDING DIAMETER), FIBER OPTIC CABLE, 4°C.	HANDHOLE HH-3C	DATA RACK	
				4" C. SPARE	HANDHOLE HH-3E	ADJACENT TO HVP2	
GENERAL SCHEDULE NOTES:							
1. VERIFY CIRCUIT REQUIREMENTS WITH APPLICABLE EQUIPMENT MANUFACTURERS. PROVIDE CONDUCTORS AND CONDUIT AS REQUIRED.							
2. COORDINATE DUCT BANK LOCATIONS AND INSTALLATIONS WITH EXISTING AND PROPOSED STRUCTURES, EQUIPMENT, PIPING SYSTEMS, CONTRACT #1G, OWNER, AND ENGINEER.							
3. REFER TO THE TYPICAL DUCT BANK DETAILS FOR ADDITIONAL REQUIREMENTS.							
4. REFER TO THE ELECTRICAL SITE PLANS FOR GENERAL LOCATIONS, ROUTING AND ADDITIONAL INFORMATION.							
5. REFER TO THE ELECTRICAL SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION/REQUIREMENTS.							
6. CONTRACTOR RESPONSIBLE FOR ALL ASPHALT REPAIR (IF ANY), COORDINATE FINAL REQUIREMENTS WITH THE OWNER, ENGINEER, AND CONTRACT #1G.							
7. CONTRACTOR TO CLOSELY COORDINATE FINAL DUCT BANK REQUIREMENTS WITH CONTRACT #1G AND SHARE A COMMON TRENCH WHERE FEASIBLE/PRACTICAL. WHERE A COMMON TRENCH BETWEEN UTILITIES IS USED, CONTRACTOR TO MAINTAIN NESC SEPARATION BETWEEN UTILITIES AT ALL TIMES.							
8. REFER TO ELECTRICAL SITE PLAN FOR PROPOSED HAND HOLE LOCATIONS (IF ANY), WHERE HAND HOLES ARE REQUIRED, LOCATE IN GRASSY AREAS NOT SUBJECT TO VEHICLE LOADING. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, SPECIFICATIONS, & DETAILS FOR ADDITIONAL INFORMATION. COORDINATE FINAL REQUIREMENTS WITH OVERALL SITE PLANS, CONTRACT #1G, OWNER, AND ENGINEER.							
REMARKS:							
1. PROVIDE AS SAND FILLED DUCT BANK WHERE BENEATH GRASSY AREAS, OR AREAS NOT SUBJECT TO VEHICLE LOADING. PROVIDE AS REINFORCED CONCRETE DUCT BANK WHERE BENEATH PAVED AREAS, OR AREAS SUBJECT TO VEHICLE LOADING. COORDINATE FINAL REQUIREMENTS WITH THE OVERALL SITE PLANS AND WITH CONTRACT #1G.							
2. FINAL SPARE CONDUIT STUB-UP LOCATION TO BE COORDINATED WITH THE OWNER AND CONTRACT #1G. PROVIDE PULL STRING AND CAP BOTH ENDS. CONTRACTOR TO PROVIDE LABEL FOR ALL SPARE CONDUITS INDICATING CONDUIT DESTINATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS.							

TRANSFORMER SCHEDULE								
DESIGNATION	LOCATION	RATING	TYPE	VOLTAGE		TAPS	DEGREE C TEMPERATURE RISE	NEMA ENCLOSURE
				PRIMARY	SECONDARY			
TR1	DEWATERING BLDG	75KVA	DRY-TYPE	240V Δ, 3Φ	480Y/277V, 3Φ	4 AT -2.5% FCBN 2 AT +2.5% FCAN	115	2
TR2	CONTROL BLDG	75KVA	DRY-TYPE	480V Δ, 3Φ	208Y/120V, 3Φ	4 AT -2.5% FCBN 2 AT +2.5% FCAN	115	2


GENERAL SCHEDULE NOTES:								
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS. 2. PROVIDE #4 CONCRETE HOUSEKEEPING PAD AND ALL REQUIRED ANCHORING EQUIPMENT, MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC., FOR EACH TRANSFORMER. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS. 3. TRANSFORMERS TO BE PROVIDED WITH COPPER WINDINGS. 4. TRANSFORMERS TO MEET MINIMUM ENERGY EFFICIENCY STANDARDS SET FORTH IN 10 CFR PART 431 (DOE 2016). 5. TRANSFORMERS TO BE INSTALLED A MINIMUM OF 4" OFF WALL(S) TO ALLOW FOR VENTILATION. FINAL REQUIREMENTS TO BE COORDINATED WITH EQUIPMENT MANUFACTURERS RECOMMENDATIONS.								


LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	FIXTURE BASIS OF DESIGN	LENS/DIFFUSER/ FINISH	VOLTAGE	LAMPS	BALLAST BASIS OF DESIGN	MOUNTING	DIMMING	REMARKS
L1	2' X 2' TROFFER LED MODULE	COOPER - METALUX 22EN-LD2-19-UNV-L840-CD-I-U	ACRYLIC	120V	LED 1,900 LUMENS / 4000K 16.5W	0-10V DIMMING DRIVER	RECESSED	YES	
L1E	2' X 2' TROFFER LED MODULE WITH EMERGENCY	COOPER - METALUX 22EN-LD2-19-UNV-EL7W-L840-CD-I-U	ACRYLIC	120V	LED 1,900 LUMENS / 4000K 16.5W	0-10V DIMMING DRIVER	RECESSED	YES	① ②
L2	2' X 2' TROFFER LED MODULE	COOPER - METALUX 22EN-LD2-25-UNV-L840-CD-I-U	ACRYLIC	120V	LED 2,500 LUMENS / 4000K 20W	0-10V DIMMING DRIVER	RECESSED	YES	
L2E	2' X 2' TROFFER LED MODULE WITH EMERGENCY	COOPER - METALUX 22EN-LD2-25-UNV-EL7W-L840-CD-I-U	ACRYLIC	120V	LED 2,500 LUMENS / 4000K 20W	0-10V DIMMING DRIVER	RECESSED	YES	① ②
L3	6" LED MEDIUM BEAM DOWN LIGHT	COOPER (PORTFOLIO) LD6C-10IC-90-40-D010-B26-M-1-LI-U	SPECULAR CLEAR	120V	LED 1,000 LUMENS / 4000K 11W	0-10V DIMMING DRIVER	RECESSED	NO	④ ⑤ ⑥ ⑦
L3E	6" LED MEDIUM BEAM DOWN LIGHT W/EMERGENCY	COOPER (PORTFOLIO) LD6C-10IC-90-40-D010-B26-M-1-LI-EIM7	SPECULAR CLEAR	120V	LED 1,000 LUMENS / 4000K 11W	0-10V DIMMING DRIVER	RECESSED	NO	① ② ③ ④ ⑤ ⑥ ⑦
L4	STAINLESS STEEL LED LIGHTING (1' X 2')	RIG-A-LITE MHL504-L-C-2-U-MB-316	STAINLESS STEEL	120V	LED 3,620 LUMENS / 4000K 27W	0-10V DIMMING DRIVER	SURFACE	NO	⑩ ⑪
L4E	STAINLESS STEEL LED LIGHTING W/EMERGENCY (1' X 2')	RIG-A-LITE MHL504-L-C-2-U-MB-EM-316	STAINLESS STEEL	120V	LED 3,620 LUMENS / 4000K 27W	0-10V DIMMING DRIVER	SURFACE	NO	① ② ③ ④ ⑤
WP1	EXTERIOR WALL MOUNT LUMINAIRE	COOPER (MCGRAW-EDISON) IS1-SA1B-740-U-SL4-BZ	BRONZE	120V	LED 3,342 LUMENS / 4000K 25.4W	LED DRIVER	WALL	NO	① ② ③ ④ ⑤
WP1E	EXTERIOR WALL MOUNT LUMINAIRE W/EMERGENCY	COOPER (MCGRAW-EDISON) IS1-SA1B-740-U-SL4-CBP-BZ	BRONZE	120V	LED 3,342 LUMENS / 4000K 25.4W	LED DRIVER	WALL	NO	① ② ③ ④ ⑤
A	ARCHITECTURAL LED EXIT SIGN	COOPER (EVENLITE) SOV-EM-R-IC-BA	BRUSHED ALUMINUM W/RED LETTERING	120V	LED 2.5W	-	CEILING OR WALL	-	① ② ③
GENERAL SCHEDULE NOTES:									
1. MODELS ARE GIVEN FOR QUALITY ONLY. SUBSTITUTE LIGHT FIXTURES SHALL BE OF APPROVED EQUAL OR GREATER QUALITY. 2. ALL FIXTURES (WHERE APPLICABLE) SHALL BE POST FABRICATION PAINTED, BAKED ACRYLIC ENAMEL. 3. PROVIDE ALL NECESSARY MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC., FOR INSTALLATION TYPE AS INDICATED. 4. ALL FIXTURES TO BE PROVIDED WITH LAMPS INSTALLED. 5. REFER TO ELECTRICAL PLANS FOR QUANTITIES AND GENERAL LOCATIONS. 6. REFER TO ELECTRICAL PLANS AND DETAILS FOR LIGHTING CONTROL AND ADDITIONAL INFORMATION/REQUIREMENTS. REMARKS:									
1. INTERCEPT & CONNECT TO NEAREST NON-SWITCHED PORTION OF LIGHTING CIRCUIT. TYPICAL FOR ALL EXIT SIGNS AND FIXTURES WITH INTEGRAL EMERGENCY BATTERY OPTION. 2. FIXTURE TO BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. 3. CONTRACTOR TO REFER TO ELECTRICAL FLOOR PLANS TO DETERMINE ORIENTATION OF FACES/ARROWS AND TO VERIFY MOUNTING TYPE. 4. REFER TO ELECTRICAL PLANS AND DETAILS FOR EXTERIOR LIGHTING CONTROL AND ADDITIONAL INFORMATION/REQUIREMENTS. 5. REFER TO ELECTRICAL PLANS FOR MOUNTING HEIGHTS. FINAL MOUNTING HEIGHT TO BE COORDINATED WITH THE OWNER/ENGINEER PRIOR TO ROUGH-IN. 6. FIXTURE TO BE PROVIDED WITH INTEGRAL COLD WEATHER BATTERY PACK. 7. FIXTURE TO BE UL LISTED FOR WET LOCATIONS. 8. FIXTURE TO BE DARK SKY COMPLIANT. 9. FIXTURE TO BE IC RATED. 10. FIXTURE TO BE UL LISTED FOR WET LOCATIONS WITH COVERED CEILINGS. PROVIDE GASKET KIT AS REQUIRED. 11. FIXTURE TO BE PROVIDED WITH HANGER BARS AS SPECIFIED. 12. PROVIDE EACH FIXTURE WITH STAINLESS STEEL MOUNTING BRACKETS FOR SURFACE MOUNTING AS SPECIFIED. 13. FIXTURE TO BE PROVIDED WITH 316 STAINLESS STEEL OPTION.									

SWITCH TAG SCHEDULE						
SWITCH TAG	DESCRIPTION	FACEPLATE COLOR	BASIS OF DESIGN FACEPLATE	SWITCH TYPE	BASIS OF DESIGN SWITCH	REMARKS
NO MARKING	STANDARD SWITCH	COORDINATE WITH OWNER/ENGINEER	THERMOPLASTIC NYLON	120V, 20A, HEAVY DUTY	PASS & SEYMOUR PT20AC1	
DCLV	DIMMABLE CONTROL LOW VOLTAGE LED SWITCH	COORDINATE WITH OWNER/ENGINEER	THERMOPLASTIC NYLON	LOW VOLTAGE	WATTSTOPPER DCLV-2	
LV	1-BUTTON LOW VOLTAGE LED SWITCH	COORDINATE WITH OWNER/ENGINEER	THERMOPLASTIC NYLON	LOW VOLTAGE	WATTSTOPPER LV5W-101	
GENERAL SCHEDULE NOTES:						
1. NYLON FACEPLATE COLOR SHALL MATCH DEVICE COLOR. 2. ALL DEVICES SHALL BE PGITAL TYPE (WITH SEPARABLE WIRING HARNESS) WHERE AVAILABLE BY MANUFACTURER. 3. "a, b, c, ..." LOWER CASE LETTERING IS USED TO INDICATE FIXTURE SWITCHING CONFIGURATION. 4. "3" OR "4" INDICATES 3 OR 4 WAY SWITCHING DEVICE. SUBSTITUTE INDICATED SWITCH TYPE (BASIS OF DESIGN COLUMN) WITH 3 OR 4 WAY VERSION. 5. REFER TO ELECTRICAL PLANS FOR TYPES, QUANTITIES, AND GENERAL LOCATIONS. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION. COORDINATE FINAL REQUIREMENTS WITH THE OWNER AND ENGINEER.						

OCCUPANCY SENSOR SCHEDULE						
TYPE	TYPICAL USAGE	BASIS OF DESIGN	COVERAGE	TECHNOLOGY	MOUNTING	OPTIONS
A	GENERAL PURPOSE	WATTSTOPPER DT-200/205	2000SF WALKING/10000SF SITTING	DUAL TECHNOLOGY	CEILING/WALL	-
GENERAL NOTES:						
1. POWER PACKS NOT SHOWN ON PLAN. PROVIDE POWER PACKS AND ALL CIRCUITING AS REQUIRED FOR PROPER OPERATION OF LIGHTING SYSTEM. POWER PACKS SHALL BE MODEL "B2" AS MANUFACTURED BY WATTSTOPPER OR APPROVED EQUAL. CONCEAL POWER PACK WITHIN CEILING/WALL ADJACENT TO SENSOR WHERE FEASIBLE. 2. CONTRACTOR TO FIELD ADJUST OCCUPANCY SENSORS AS REQUIRED TO LIGHT DESIRED AREAS. COORDINATE WITH OWNER, AND ENGINEER. 3. COORDINATE FINAL DEVICE & FACEPLATE COLORS WITH OWNER. 4. "a, b, c, ..." LOWER CASE LETTERING IS USED TO INDICATE FIXTURE SWITCHING CONFIGURATION. 5. REFER TO ELECTRICAL PLANS FOR TYPES, QUANTITIES, AND GENERAL LOCATIONS. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION. COORDINATE FINAL REQUIREMENTS WITH THE OWNER AND ENGINEER.						

RACEWAY SCHEDULE		
AREA	CABLING/RACEWAY METHOD	REMARKS
EXTERIOR EXPOSED	RGS	SEE NOTES BELOW
RISERS FROM UNDERGROUND	RGS	SEE NOTES BELOW
UNDERGROUND 90 DEGREE SWEEPS	RGS	SEE NOTES BELOW
UNDERGROUND (SAND FILL DUCT BANK)	PVC #80	SEE NOTES BELOW
UNDERGROUND (REINFORCED CONCRETE DUCT BANK)	PVC #40	SEE NOTES BELOW
IN SLAB	PVC #40	SEE NOTES BELOW
UNPROTECTED SERVICE CONDUCTORS - WITHIN A BUILDING	RGS	SEE NOTES BELOW
CONTROL BUILDING INTERIOR EXPOSED	EMT	SEE NOTES BELOW
DEWATERING BUILDING INTERIOR EXPOSED	RGS	SEE NOTES BELOW
CONCEALED WITHIN WALLS/ABOVE CEILING	MC CABLE	SEE NOTES BELOW
FINAL CONNECTION TO EQUIPMENT	FLEXIBLE METALLIC	SEE NOTES BELOW
GENERAL CONDUIT SCHEDULE NOTES:		
1. FITTINGS: <ul style="list-style-type: none">• RGS: THREADED• PVC: BELL OR GLUE• EMT: SET SCREW TYPE• FLEXIBLE CONDUIT: LISTED FITTINGS FOR USE WITH FLEXIBLE RACEWAY		
2. ALL CIRCUITS SHALL CONTAIN DEDICATED NEUTRALS (NO MULTI-WIRE CIRCUITS PERMITTED). CONDUIT SHALL NOT BE UTILIZED FOR EFFECTIVE GROUND FAULT RETURN PATH - ALL CIRCUITS SHALL CONTAIN DEDICATED GREEN INSULATED CONDUCTOR, SIZED PER DRAWINGS, OR IN ACCORDANCE WITH APPLICABLE NEC CRITERIA.		
3. ALL RACEWAY TYPES ARE UNLESS OTHERWISE NOTED ON THE DRAWINGS.		
4. "UNPROTECTED SERVICE CONDUCTORS - WITHIN A BUILDING" REFERS TO BUILDING SERVICE/FEEDER CONDUCTORS BETWEEN THE POINT THEY ENTER THE BUILDING UNTIL THE POINT AT WHICH THEY REACH THE FIRST DISCONNECTING DEVICE WITHIN THAT BUILDING.		
5. CONTRACTOR TO PROVIDE TRANSITION FITTINGS TO SWITCH BETWEEN RACEWAY TYPES AS REQUIRED.		

225 AMP FRAME 225A MCB 208Y/120 VOLT 3Ø, 4W+G 22KAIC RMS SYM				PANEL LVP2 (SECTION 1) CONTROL BUILDING					
CIRCUIT NUMBER	CIRCUIT SERVED	BREAKER		BREAKER		CIRCUIT SERVED	CIRCUIT NUMBER		
		AMP	POLE	AMP	POLE				
1	LIGHTS - LABORATORY/STORAGE	20	1	20	1	LIGHTS - BREAK/RAING/ELEC/MECH. ROOM	2		
3	LIGHTS - GENERAL OFFICE	20	1	20	1	LIGHTS - ENTRY/HALLWAYS	4		
5	LIGHT - MENS/WOMENS RESTROOMS	20	1	20	1	LIGHTS - CHIEF OF OPERATIONS/CLERK OFFICE	6		
7	LIGHTS - EXTERIOR	20	1	20	1	RECEPTS - LABORATORY/STORAGE	8		
9	RECEPTS - BREAK/TRAINING ROOM	20	1	20	1	RECEPTS - MECHANICAL ROOM	10		
11	RECEPTS - GENERAL OFFICE	20	1	20	1	RECEPTS - HALLWAY/JANITOR CLOSET	12		
13	RECEPTS - MENS RESTROOM	20	1	20	1	RECEPTS - WOMENS RESTROOM	14		
15	RECEPTS - ENTRYWAY/STAFF ENTRYWAY	20	1	20	1	RECEPTS - CLERKS OFFICE	16		
17	RECEPTS - CHIEF OF OPERATIONS OFFICE	20	1	20	1	RECEPTS - EXTERIOR	18		
19	RECEPTS - GENERAL OFFICE	20	1	20	1	REFRIGERATOR - TRAINING ROOM	20		
21	REFRIGERATOR LABORATORY	20	1	20	1	RECEPTS - ELECTRICAL ROOM	22		
23	FREEZER - LABORATORY	20	1	20	1	RECEPTS - BREAK/TRAINING RM. ABOVE COUNTER	24		
25	DRINKING FOUNTAIN	20	1	20	1	DRINKING FOUNTAIN	26		
27	COPR/PRINTER - CLERK OFFICE	20	1	20	1	TELEVISION - BREAK/TRAINING ROOM	28		
29	MAIN CONTROL PANEL	20	1	20	1	RECEPTS - LABORATORY ABOVE COUNTER	30		
31	DATA RACK	20	1	20	1	DISHWASHER - LABORATORY	32		
33	SECURITY ALARM CONTROL PANEL	20	1	20	1	FUME HOOD LIGHT & RECEPTACLE - LABORATORY	34		
35	FIRE ALARM CONTROL PANEL	20	1	20	1	FUME HOOD EXHAUST FAN - LABORATORY	36		
37	DRYING OVEN - LABORATORY	50	2	50	2	DRYING OVEN - LABORATORY	38		
39	↓					↓			
41	RECEPTS - GENERAL OFFICE	20	1	20	1	COPR/PRINTER - GENERAL OFFICE	42		
43	LOUVER W/MOTORIZED DAMPER LV-902	20	1	20	1	LOUVER W/MOTORIZED DAMPER LV-903	44		
45	EXHAUST FAN EF-900	20	1	20	1	EXHAUST FAN EF-901	46		
47	EXHAUST FAN EF-902	20	1	20	1	EXHAUST FAN EF-903	48		
49	EXHAUST FAN EF-904	20	1	20	1	FURNACE F-900	50		
51	WATER HEATER WH-900	20	1	20	1	FURNACE F-901	52		
53	LOUVER W/MOTORIZED DAMPER LV-900	20	1	20	1	LOUVER W/MOTORIZED DAMPER LV-901	54		
GENERAL SCHEDULE NOTES:									
1. PROVIDE SPARE BREAKERS AS INDICATED. 2. PROVIDE ARC FLASH WARNING LABEL PER SPECIFICATIONS. 3. PROVIDE TYPED PANEL DIRECTORY INDICATING LOADS SERVED. 4. REFER TO ELECTRICAL PLANS FOR GENERAL LOCATIONS OF EQUIPMENT. 5. PROVIDE ALL REQUIRED MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC., 6. CONTRACTOR TO BALANCE PROPOSED PANEL LOAD ACROSS ALL PHASES EQUALLY. 7. VERIFY ALL CIRCUIT BREAKER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE AS REQUIRED. 8. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER AND PROVIDE NAMEPLATE PER SPECIFICATIONS. 9. PROVIDE TOTAL NUMBER OF 1P SPACES AS INDICATED. PROVIDE BLOCK OFF PLATES FOR ALL SPACES WHICH ARE NOT UTILIZED. 10. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, RISER DIAGRAMS, SCHEDULES & SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS. 11. PROVIDE LUG TERMINATION KITS, OR PIN ADAPTORS AS NECESSARY TO TERMINATE THE NUMBER OF SETS OF CONDUCTORS AND SIZE SHOWN/SPECIFIED.									
ACCESSORIES & TRIM:									
1. MOUNTING: SURFACE 2. NEMA 1 ENCLOSURE 3. DOOR-IN-DOOR COVER 4. COPPER BUS BARS 5. BASIS OF DESIGN: Eaton 6. TWO (2) SECTION PANELBOARD (SACKT EACH)									

225 AMP FRAME 225A MCB 208Y/120 VOLT 3φ, 4W+G 22KAIC RMS SYM		PANEL LVP2 (SECTION 2) CONTROL BUILDING			
					
CIRCUIT NUMBER	CIRCUIT SERVED	BREAKER		CIRCUIT SERVED	CIRCUIT NUMBER
		AMP	POLE		
1	AIR COOLED CONDENSING UNIT ACCU-900	50	2	AIR COOLED CONDENSING UNIT ACCU-901	2
3	↓			↓	4
5	MOTORIZED ENTRANCE GATE	20	2	MOTORIZED ENTRANCE GATE RECEPTACLE	6
7	↓			↓	8
9	SPARE			SPARE	10
11	↓			↓	12
13	SPARE	100	3	SPARE	14
15	↓			↓	16
17	SPARE			SPARE	18
19	↓			↓	20
21	SPARE			SPARE	22
23	↓			↓	24
25	SCADA WORK STATION	40	2	RE-CIRCULATION PUMP RCP-900	26
27	SPARE	20	1	LOUVER W/MOTORIZED DAMPER LV-904	28
29	SPARE	20	1	SPARE	30
31	SPARE	20	1	SPARE	32
33	SPACE	-	-	SPACE	34
35	SPACE	-	-	SPACE	36
37	SPACE	-	-	SPACE	38
39	SPACE	-	-	SPACE	40
41	SPACE	-	-	SPACE	42
43	SPACE	-	-	SPACE	44
45	SPACE	-	-	SPACE	46
47	SPACE	-	-	SPACE	48
49	SPACE	-	-	SPACE	50
51	SPACE	-	-	SPACE	52
53	SPACE	-	-	SPACE	54
<u>GENERAL SCHEDULE NOTES:</u>					
<u>ACCESSORIES & TRIM:</u>					
1. PROVIDE SPARE BREAKERS AS INDICATED.					
2. PROVIDE ARC FLASH WARNING LABEL PER SPECIFICATIONS.					
3. PROVIDE TYPED PANEL DIRECTORY INDICATING LOADS SERVED.					
4. REFER TO ELECTRICAL PLANS FOR GENERAL LOCATIONS OF EQUIPMENT.					
5. PROVIDE ALL REQUIRED MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC.,					
6. CONTRACTOR TO BALANCE PROPOSED PANEL LOAD ACROSS ALL PHASES EQUALLY.					
7. VERIFY ALL CIRCUIT BREAKER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE AS REQUIRED.					
8. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER AND PROVIDE NAMEPLATE PER SPECIFICATIONS.					
9. PROVIDE TOTAL NUMBER OF 1P SPACES AS INDICATED. PROVIDE BLOCK OFF PLATES FOR ALL SPACES WHICH ARE NOT UTILIZED.					
10. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, RISER DIAGRAMS, SCHEDULES & SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS.					
11. PROVIDE LUG TERMINATION KITS, OR PIN ADAPTORS AS NECESSARY TO TERMINATE THE NUMBER OF SETS OF CONDUCTORS AND SIZE SHOWN/SPECIFIED.					
1. MOUNTING: SURFACE					
2. NEMA 1 ENCLOSURE					
3. DOOR-IN-DOOR COVER					
4. COPPER BUS BARS					
5. BASIS OF DESIGN: EATON					
6. TWO (2) SECTION PANELBOARD (SACK EACH)					

225 AMP FRAME
225A MCB W/ LSI TRIP UNIT
480Y/277 VOLT 3Φ, 4W+G
35KAIC RMS SYM

PANEL HVP2 CONTROL BUILDING

CIRCUIT NUMBER	CIRCUIT SERVED	BREAKER		BREAKER		CIRCUIT SERVED	CIRCUIT NUMBER
		AMP	POLE	AMP	POLE		
1	SURGE PROTECTIVE DEVICE ↓	30	3	125	3	PANEL LV2P VIA XFMR TR2 ↓	2
3							4
5							6
7							8
9							10
11	ELECTRIC UNIT HEATER EUH-900 ↓	20	3	20	3	ELECTRIC UNIT HEATER EUH-901 ↓	12
13							14
15							16
17							18
19							20
21	ELECTRIC UNIT HEATER EUH-902 ↓	20	3	100	3	SPARE ↓	22
23							24
25							26
27							28
29							30
31	SPARE ↓	60	3	30	3	SPARE ↓	32
33							34
35							36
37							38
39							40
41	SPARE ↓	15	3	40	2	SPARE ↓	42
29							28
31							30
33							32
35							34
37	SPARE ↓	20	1	20	1	SPARE ↓	36
39							38
41							40
29							28
31							30
33	SPARE ↓	20	1	20	1	SPARE ↓	32
35							34
37							36
39							38
41							40

GENERAL SCHEDULE NOTES:

1. PROVIDE SPARE BREAKERS AS INDICATED.
2. PROVIDE ARC FLASH WARNING LABEL PER SPECIFICATIONS.
3. PROVIDE TYPED PANEL DIRECTORY INCLUDING LOADS SERVED.
4. REFER TO ELECTRICAL PLANS FOR GENERAL LOCATIONS OF EQUIPMENT.
5. PROVIDE ALL REQUIRED MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC.
6. CONTRACTOR TO BALANCE PROPOSED PANEL LOAD ACROSS ALL PHASES EQUALLY.
7. PROVIDE ALL CIRCUIT BREAKER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE AS REQUIRED.
8. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER AND PROVIDE NAMEPLATE PER SPECIFICATIONS.
9. PROVIDE TOTAL NUMBER OF IP SPACES AS INDICATED. PROVIDE BLOCK OFF PLATES FOR ALL SPACES WHICH ARE NOT UTILIZED.
10. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, RISER DIAGRAMS, SCHEDULES & SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
11. PROVIDE LUG TERMINATION KITS, OR PIN ADAPTORS AS NECESSARY TO TERMINATE THE NUMBER OF SETS OF CONDUCTORS AND SIZE SHOWN/SPECIFIED.

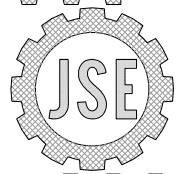
ACCESSORIES & TRIM:

1. MOUNTING- SURFACE
2. NEMA 1 ENCLOSURE
3. DOOR-IN-DOOR COVER
4. COPPER BUS BARS
5. INTEGRAL SPD
6. INTEGRAL KWHID
7. BASIS OF DESIGN: EATON

MHE
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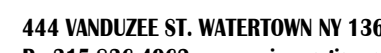
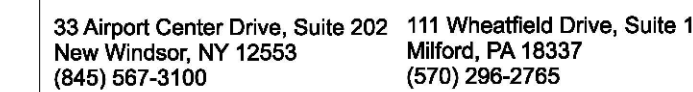


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ELECTRICAL
SCHEDULES

E-041



THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MIE PLANS, DO NOT INCLUDE SERVICES RELATED TO THE IDENTIFICATION OF HAZARDOUS MATERIALS OR THE REMEDIATION OF SUCH MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD. ALL TESTING, IDENTIFICATION, ABATEMENT, CONTROLS, AND HANDLING OF HAZARDOUS MATERIALS SHALL BE THE RESPONSIBILITY OF THE MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE WITH THE MATERIAL CONSULTANT AND CERTIFIED PROFESSIONAL FOR THE PERFORMANCE OF ANY WORKS ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE DISCOVERED WHILE WORKING ON THE WORK SHOWN HEREIN, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT FOR THE PROTECTION OF WORKS INVOLVING SUSPECTED MATERIALS.

CAESARS LANE WWTP
EXPANSION PROJECT

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

[illegible]

SHEET NO. _____

PROJECT # 18-732	PHASE #
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1. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.

2. PROPOSED UG DUCT BANKS AND STRUCTURES SHOWN ARE APPROXIMATE IN LOCATION. ROUTE UG DUCT BANKS WITH GENERAL ROUTING AS SHOWN ON PLANS. ROUTE DUCT BANKS AS NECESSARY TO AVOID CONFLICTS WITH SITE CONDITIONS AND PROPOSED PIPING SYSTEMS.

3. DUCT BANKS ARE NOT TO BE LOCATED ABOVE OTHER PIPING SYSTEMS EXCEPT WHERE CROSSING. MAINTAIN NEC SEPARATION BETWEEN UTILITIES.

4. REFER TO UNDERGROUND UTILITIES (GENERAL) NOTES TO SHEET E-001 FOR ADDITIONAL INFORMATION.

5. COORDINATE FINAL DUCT BANK LOCATIONS (PRIOR TO ROUTE-UP) WITH APPLICABLE CONTRACTOR AND THE OWNER TO AVOID CONFLICT WITH PROPOSED WORK AND EXISTING CONDITIONS.

6. REFER TO DUCT BANK SCHEDULE FOR ADDITIONAL INFORMATION REGARDING DUCT BANK MANUFACTURE, PURPOSE AND INSTALLATION.

7. PROVIDE A DEDICATED GROUNDING CONDUCTOR FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT/DEVICES.

8. EQUIPMENT AND DEVICE LOCATIONS ARE SHOWN AS GENERAL IN NATURE. REFER TO GENERAL SHEETS AND COORDINATE WITH APPLICABLE CONTRACTOR FOR EXACT LOCATIONS.

9. REFER TO COORDINATE ALL ASPECTS OF SEQUENCE OF CONSTRUCTION WITH APPLICABLE CONTRACTOR.

10. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, FLOOR PLANS, SCHEDULES, DETAILS & SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS.

11. REFER TO OVERALL SITE PLANS ON CIVIL/GENERAL SHEETS (APPLICABLE CONTRACTOR) FOR ADDITIONAL SITE INFORMATION.

12. REFER TO ALL EXISTING/PROPOSED SITE UTILITIES SHOWN FOR CLARITY. REFER TO GENERAL/CIVIL SHEETS FOR ADDITIONAL SITE INFORMATION.

13. CONTRACTOR IS RESPONSIBLE FOR ALL SITE RESTORATION. REFER TO TYPICAL DUCT BANK SECTION DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.

14. CONTRACTOR TO COORDINATE PAVING AND LANDSCAPING WITH APPLICABLE CONTRACTOR.

15. NOT ALL HAND-HOLES AND PULL POINTS SHOWN FOR CLARITY. CONTRACTOR TO PROVIDE HAND-HOLES AND PULL POINTS AS REQUIRED AND PER NEC. CONTRACTOR TO FIELD VERIFY. REFER TO TYPICAL HANDHOLE DETAIL FOR ADDITIONAL INFORMATION/REQUIREMENTS.

① CONTRACTOR RESPONSIBLE TO RESTORE ALL DISTURBED SURFAS PART OF THIS PROJECT. COORDINATE FINAL REQUIREMENTS WITH THE OWNER AND APPLICABLE CONTRACTOR. REFER TO DUCT BANK SECTION DETAILS FOR ADDITIONAL INFORMATION.

② CONTRACTOR TO COORDINATE FINAL DUCT BANK ROUTING/REQUIREMENTS WITH EXISTING FIELD CONDITIONS, PROPOSED WORK, OWNER AND APPLICABLE CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS.

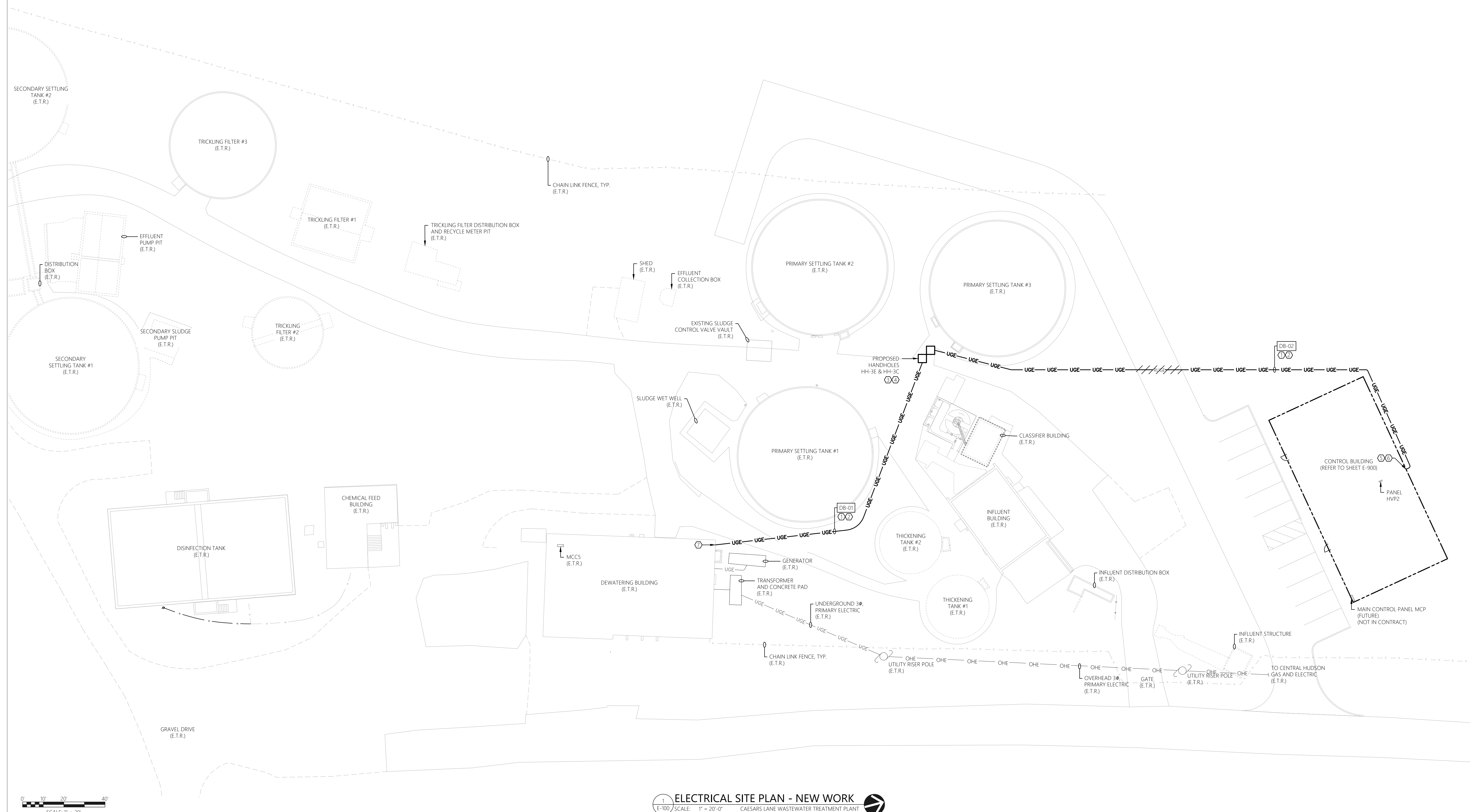
③ CONTRACTOR TO PROVIDE HAND HOLE IN GENERAL LOCATION SHOWN. COORDINATE FINAL LOCATION CLOSE WITH OWNER AND ENGINEER TO AVOID FUTURE DISTRIBUTION STRUCTURE. REFER TO TYPICAL HAND HOLE DETAIL FOR REQUIREMENTS.

④ CONTRACTOR TO PROVIDE HEAVY DUTY FIBERGLASS CABLE RACK AND CABLE RACK SUPPORTS ON EACH INTERIOR WALL OF HANDHOLE. PROVIDE SERVICE LOOP WITHIN EACH CABLE PASSING THRU HANDHOLE. HANDHOLE TO ACT AS FULL POINT. NO SPICES PERMITTED WITH HANDHOLE.

⑤ CONTRACTOR TO ROUTE ALL PROPOSED CONDUITS ENTERING/LEAVING THE CONTROL BUILDING FROM BENEATH GRADE. AVOID VISIBLE EXTERIOR WALL PENETRATIONS TO GREATEST EXTENT POSSIBLE. CLOSE COORDINATION WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER REQUIRED PRIOR TO POURING CONCRETE AND BUILDING FOUNDATION WORK.

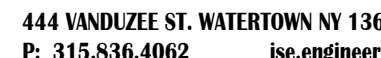
⑥ CONDUITS TO BE ROUTED UNDERNEATH BUILDING SLAB TO FINAL DESTINATION (MCP, OR HV22), CLOSELY COORDINATE REQUIREMENTS WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.

⑦ FINAL CONDUIT PENETRATION LOCATION TO BE CLOSELY COORDINATED WITH THE OWNER AND CONTRACTOR #16 FOR BIDDING PURPOSES ASSUME CONDUIT PENETRATIONS WILL TAKE PLACE ABOVE GRADE AND THEN ELBOW INTO BUILDING/STRUCTURE. PROVIDE STAINLESS STEEL CONDUIT PENETRATIONS TO FIELD VENDOR FOR FIELD VERIFICATION. SEE DETAILS FOR ADDITIONAL INFORMATION.



ELECTRICAL SITE PLAN - NEW WORK
SCALE: 1" = 20'-0" CAESARS LANE WASTEWATER TREATMENT PLAN





MECHANICAL EQUIPMENT & MISC. ELECTRICAL EQUIPMENT:

- REFER TO GENERAL CONTRACT DRAWINGS FOR AN ACCURATE DEPICTION OF ALL DEMOLITION REQUIRED AS PART OF THIS CONTRACT.
- REMOVE ALL WIRE (POWER & CONTROLS) & EXPOSED CONDUIT BACK TO SOURCE PANEL, UNLESS OTHERWISE INDICATED, UOI.
- REMOVE ANY ASSOCIATED MOTOR STARTERS, CONTROL STATIONS, &/OR DISCONNECTS, UOI.
- REMOVE CIRCUIT WIRING FROM SOURCE PANEL AND REMOVE ASSOCIATED SOURCE CIRCUIT BREAKER, UOI.
- REMOVE ALL INTERLOCK CIRCUITRY, UOI.
- PROVIDE ASSIGNED TYPED PANELBOARD DIRECTORIES FOR ALL EXISTING TO REMAIN PANELS WHERE CIRCUITS ARE TO BE REMOVED.
- REMOVE ALL ASSOCIATED MOUNTING HARDWARE, BRACKETS, AND EQUIPMENT, UOI.

RECEPTACLES

- WHERE INDICATED TO BE DEMOLISHED:
- REMOVE ALL RECEPTABLES IMPACTED BY WALL MODIFICATIONS AND OVERALL PROJECT IMPROVEMENTS. **NOTE** ALL EXISTING RECEPTABLES MAY NOT BE SHOWN ON THESE DEMOLITION PLANS. MINOR FIELD VERIFICATION REQUIRED.
 - REMOVE DEVICE, AND ALL ASSOCIATED WIRE & CONDUIT BACK TO SOURCE OR NEAREST ACTIVE JUNCTION BOX, UOI.

LIGHTING:

- WHERE INDICATED TO BE DEMOLISHED:
- REMOVE ALL FIXTURES THROUGHOUT SPACE. ***NOTE** ALL EXISTING LIGHTING FIXTURES MAY NOT BE SHOWN ON THESE DEMOLITION PLANS. MINOR FIELD VERIFICATION REQUIRED.
 - REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE, UIOI.
 - REMOVE SWITCHING AND CONTROL DEVICES, UIOI.
 - REMOVE CONTACTORS ASSOCIATED WITH LOW VOLTAGE SWITCHING DEVICES, UIOI.
 - DISPOSE OF ALL LAMPS IN ACCORDANCE WITH STATE/FEDERAL AND EPA REQUIREMENTS.

PANELBOARD REMOVAL AND REPLACEMENT:

- REFER TO SINGLE LINE DIAGRAMS FOR SCOPE OF WORK.

CIRCUIT AND FEEDER REMOVAL AND REPLACEMENT:

- MAINTAIN ANY EXISTING NON-IMPACTED PANELBOARDS AND ANY NON-IMPACTED CIRCUITS WHICH ARE EXISTING TO REMAIN.
- WHERE CIRCUITS ARE AFFECTED BY MODIFICATION/REMOVAL ACTIVITIES, PROVIDE NECESSARY CIRCUIT EXTENSIONS AND ALL NECESSARY LABOR/MATERIALS AS NECESSARY TO REPAIR AND RE-CONNECT CIRCUIT(S).
- ANY CIRCUITS/FEEDERS WHICH REQUIRE SHUTDOWN TO ACCOMMODATE WORK SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE.

BUILDING/STRUCTURE GROUND SYSTEM:

- CONTRACTOR TO CAREFULLY PROTECT AND MAINTAIN ALL GROUND SYSTEMS ASSOCIATED WITH BUILDINGS/STRUCTURES EXISTING TO REMAIN.
- CONTRACTOR TO REMOVE ALL GROUND SYSTEMS ASSOCIATED WITH BUILDING/STRUCTURES TO BE REMOVED.
- GROUND SYSTEM COMPONENTS MAY INCLUDE, BUT ARE NOT LIMITED TO, GROUNDING CONDUCTORS, JUMPERS, TERMINATIONS, RODS, AND AIR TERMINALS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF DEMOLITION.

HAZARDOUS MATERIAL REMOVAL:

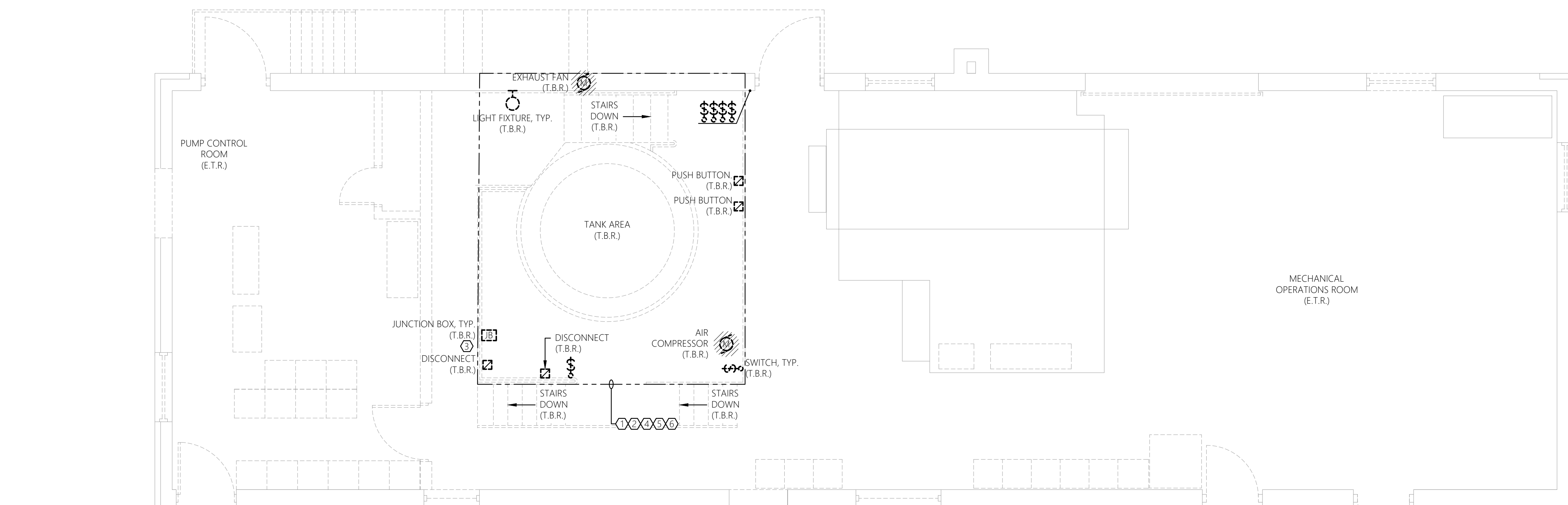
- PERFORM WORK TO REMOVE, REPAIR, AND DISPOSAL EQUIPMENT AND MATERIALS CONTAINING TOXIC SUBSTANCES REGULATED UNDER THE FEDERAL TOXIC SUBSTANCES CONTROL ACT (TSCA) IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. APPLICABLE EQUIPMENT AND MATERIALS INCLUDE, BUT ARE NOT LIMITED TO:
- PCB-CONTAINING ELECTRICAL EQUIPMENT, INCLUDING TRANSFORMERS, CAPACITORS, AND SWITCHES.
 - PCB- AND DHP-CONTAINING LIGHTING BALLASTS
 - MERCURY-CONTAINING BULBS AND TUBES, INCLUDING FLUORESCENT LAMPS, HIGH-INTENSITY DISCHARGE (HID), ARC LAMPS, ULTRA-VIOLET, HIGH PRESSURE SODIUM, MERCURY VAPOR, AND OTHER DISCHARGE LAMPS.
 - CONTROL TUBES, NEON, AND INCANDESCENT
- CONTRACTOR TO COORDINATE ANY REQUIRED HAZARDOUS MATERIAL REMOVAL WITH THE APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.

1. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL PROJECT NOTES.

2. ITEMS INDICATED TO BE REMOVED:
- 2.1. REMOVE ALL CONDUCTORS AND EXPOSED CONDUIT BACK TO SOURCE (UOI).
- 2.2. REMOVE CIRCUIT WIRING AND CIRCUIT BREAKER FROM SOURCE PANEL (UOI).
- 2.3. REMOVE ALL ASSOCIATED CONTROL CONDUCTORS, CONDUITS, AND DEVICES (UOI).
- 2.4. REMOVE ASSOCIATED STARTERS, DISCONNECTS, AND ASSOCIATED CIRCUITRY (UOI).
- 2.5. REMOVE EQUIPMENT PADS & MOUNTING HARDWARE, BRACKETS, ACCESSORIES, ETC. (UOI).
- 2.6. REMOVE PANELBOARD AND MOTOR CONTROL CENTER DEVICES/NAMES/PLATES AS CHANGES OCCUR (UOI).
3. THESE DEMOLITION DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW FIELD OBSERVATION AND EXISTING DRAWINGS. IT IS NOT THE INTENTION OF THESE DRAWINGS TO INDICATE EVERY DEVICE/FIXTURE/REQUIREMENT/DEMO RATHER GENERAL SITUATIONS WHICH ARE TO BE REMOVED.
4. CIRCUITS NOT IN AREA OF WORK THAT ARE AFFECTED BY WORK SHALL BE OPERATIONAL DURING PROJECT. PROVIDE TEMPORARY CIRCUITS AS NECESSARY.
5. CIRCUIT, EQUIPMENT, AND DEVICE REMOVAL SHALL NOT AFFECT THE INTEGRITY OR FUNCTIONALITY OF CIRCUITS TO REMAIN. ALL CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE ALL NECESSARY CIRCUIT MODIFICATIONS AND EXTENSIONS.
6. WHERE REMOVALS LEAVE HOLES AND DAMAGED SURFACES IN THE FINISHED WORK, PATCH AND REPAIR THESE HOLES AND DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES. WHERE NEW WORK IS TO BE APPLIED TO EXISTING SURFACES, PERFORM REPAIRS, AND PATCHING IN A MANNER TO PRODUCE SURFACES SUITABLE FOR RECEIVING NEW WORK. COORDINATE ALL WORK WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.
7. COORDINATE WITH ALL AFFECTED TRADES AND TRADES FOR REMOVAL OF ANY ADDITIONAL EQUIPMENT THAT IS TO BE DEMOLISHED. FOR ALL EQUIPMENT SHOWING INDICATED FOR REMOVAL, DISCONNECT AND REMOVE ELECTRICAL CIRCUIT INCLUDING CONDUITS AND CONDUIT BACK TO SOURCE.
8. NOT ALL EQUIPMENT/DEVICES ARE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO COMMENCEMENT OF DEMOLITION.
9. PROVIDE ELECTRICAL SINGLE LINE DIAGRAMS, SCHEDULES & DETAILS FOR ADDITIONAL DEMOLITION INFORMATION/REQUIREMENTS.
10. COORDINATE ALL ASPECTS OF SEQUENCE OF REMOVAL WITH THE OWNER AND CONTRACTOR #1G. REFER TO SPECIFICATIONS AND DEMOLITION SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
11. WHERE REMOVAL OF CONDUIT SYSTEM IS NOT FEASIBLE, REMOVE ALL CONDUCTORS FROM CONDUIT SYSTEM, CUT FLUSH, CAP CONDUIT SYSTEM, AND ABANDON IN PLACE. FEASIBLE AND SOUNDING LOCATED ASHRAE IN CONCRETE DUCT BANK OR CONCRETE SLAB. ALL OTHER INSTANCES TO HAVE THE CONDUIT & CIRCUITRY TO BE REMOVED IN THEIR ENTIRETY. FIELD VERIFY AND COORDINATE FINAL REQUIREMENTS WITH THE OWNER, TYPICAL.

① CONTRACTOR TO PROVIDE COMPLETE ELECTRICAL DEMOLITION FOR THIS AREA (UNLESS OTHERWISE INDICATED). REMOVE THE FOLLOWING DEVICES INCLUDING BUT NOT LIMITED TO: ALL ELECTRICAL DISTRIBUTION EQUIPMENT, CONTROLLERS, CONTROL PANELS, DISCONNECTS, MOTOR STARTERS, RECEPTACLES, INTERIOR/EXTERIOR LIGHTING, JUNCTION BOXES, BONDING/GROUNDING EQUIPMENT, ELECTRIC VALVES, MOTORS (DISCONNECT & REMOVE BRANCH CIRCUITRY), AND INSTRUMENTATION/CONTROLS. REMOVE ALL ASSOCIATED CIRCUITRY (CONDUIT & CONDUCTORS) BACK TO SOURCE. COORDINATE REMOVAL EFFORTS CLOSELY WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.

7. CONTRACTOR TO CLOSELY COORDINATE THE REMOVAL EFFORTS OF ALL PLANT PROCESS EQUIPMENT/DEVICES SCHEDULED FOR REMOVAL WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER. CONTRACTOR TO CLOSELY COORDINATE THE REMOVAL EFFORTS OF ALL HVAC EQUIPMENT SCHEDULED FOR REMOVAL WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER. CONTRACTOR TO CLOSELY COORDINATE THE REMOVAL EFFORTS OF ALL PLUMBING EQUIPMENT SCHEDULED FOR REMOVAL WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.
8. JUNCTION BOX IS TO BE REMOVED. NOTE, ALL BOXES AND RACEWAY SYSTEMS ASSOCIATED WITH EQUIPMENT SCHEDULED FOR REMOVAL ARE TO BE REMOVED IN THEIR ENTIRETY.
9. CONTRACTOR TO DISCONNECT & REMOVE ALL EXISTING LIGHT FIXTURES, LIGHT SWITCHES, LIGHTING CONTROL DEVICES, MOUNTING HARDWARE, AND ASSOCIATED COMPONENTS IN THEIR ENTIRETY. REMOVE CIRCUITRY (CONDUIT & CONDUCTORS) BACK TO SOURCE. CONTRACTOR TO FIELD VERIFY.
10. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING INCLUDING ALL CIRCUITING AND CONTROLS FOR A COMPLETE AND OPERABLE TEMPORARY LIGHTING SYSTEM THROUGHOUT THE DURATION OF PROJECT. CONTRACTOR TO COORDINATE FINAL TEMPORARY LIGHTING REQUIREMENTS WITH THE OWNER AND PROVIDE AS NECESSARY. TEMPORARY LIGHTING SYSTEMS TO BE REMOVED FOR A PERMANENT LIGHTING SYSTEM TO BE INSTALLED.
11. NOTE: CONTRACTOR TO ENSURE ALL ELECTRICAL BRANCH CIRCUITS AND CONDUITS ARE REMOVED IN THIS AREA ASSOCIATED WITH EQUIPMENT SCHEDULED FOR REMOVAL. TO AVOID CONFLICT WITH PROPOSED EQUIPMENT, DUCT WORK, AND PIPING SYSTEMS. COORDINATE ALL EFFORTS CLOSELY WITH APPLICABLE CONTRACTOR, OWNER, AND ENGINEER.



HAZARDOUS MATERIAL NOTE:

THE SERVICES PROVIDED BY ME, INCLUDING ALL WORK DEPICTED ON ME PLANS, DO NOT INCLUDE THE IDENTIFICATION, TESTING, ANALYSIS, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD. PAINT, ALL TESTING, IDENTIFICATION, ABATEMENT, REMEDIATION AND HANDLING OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED CONTRACTOR. IF THE CONTRACTOR HAS BEEN IDENTIFIED, CONTRACTOR WILL COMMUNICATE DIRECTLY WITH HAZARDOUS MATERIAL CONSULTANT. IF THE CONTRACTOR HAS NOT BEEN IDENTIFIED, CONTRACTOR WILL NOTIFY ME OF WORK ON OR ADJACENT TO SAID MATERIALS. IF UNIDENTIFIED MATERIALS OF CONCERN ARE ENCOUNTERED WHILE UNDERTAKING THE WORK, CONTRACTOR SHALL STOP WORK IMMEDIATELY, NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVOLVING SUSPECTED MATERIAL.



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NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

ELECTRICAL
DEMOLITION PLAN -
DEWATERING BUILDING

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ISSUED DATE:	21 NOVEMBER, 2024
DESIGN BY:	RRM
DRAWN BY:	CDJ
CHECKED BY:	MGR
REVIEWED BY:	JER

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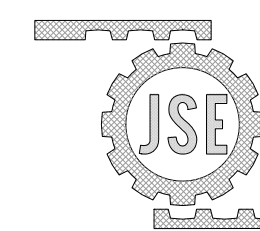
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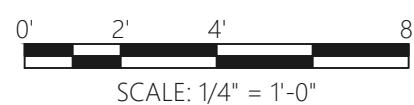
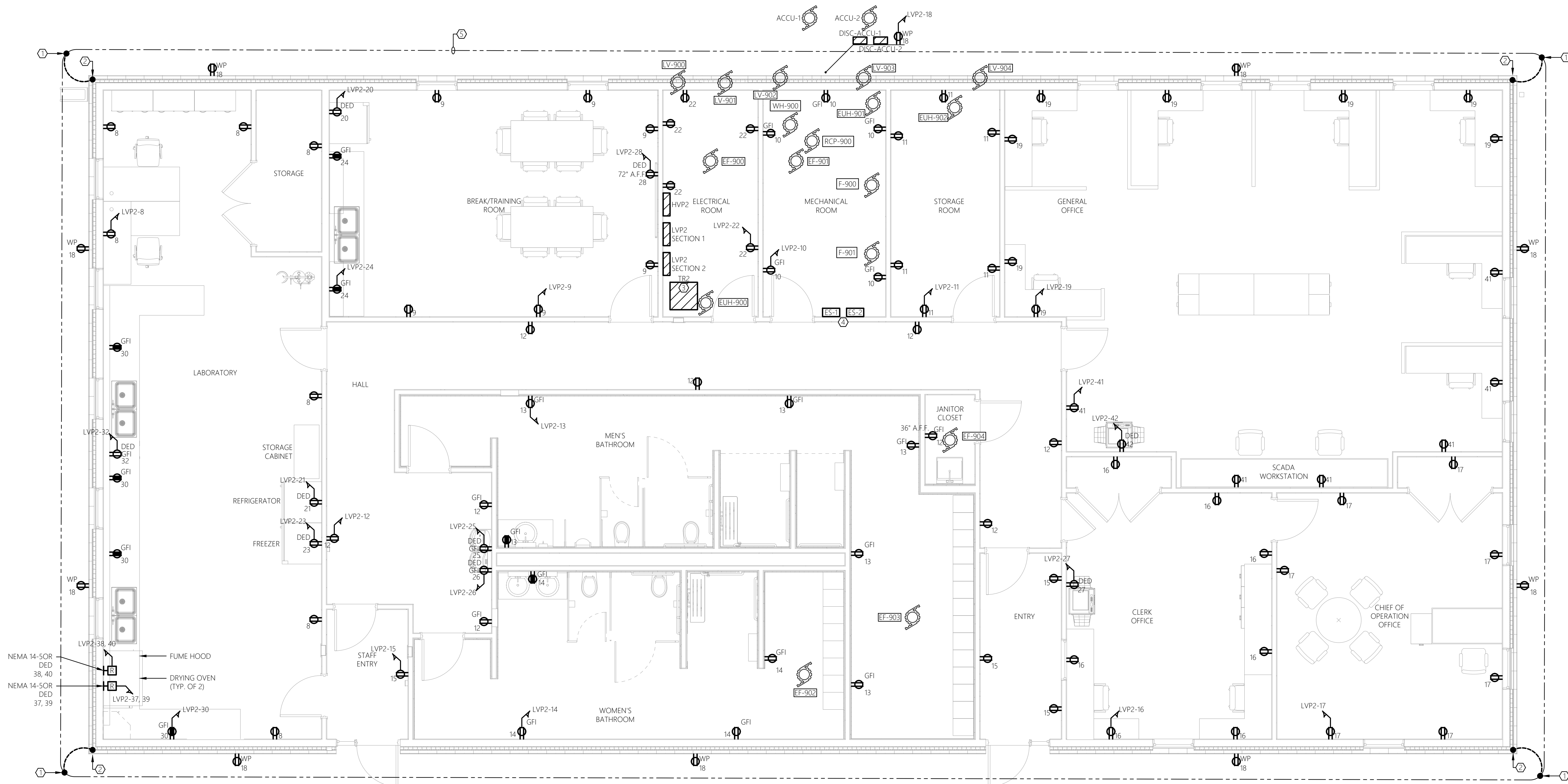


GENERAL NEW WORK NOTES:

1. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
2. PROVIDE A DEDICATED GROUNDING CONDUCTOR FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT/DEVICES.
3. EQUIPMENT & DEVICE LOCATIONS ARE SHOWN AS GENERAL IN NATURE. REFER TO ALL TRADE CONTRACT DRAWINGS AND ALL TRADE CONTRACTORS, OWNER, AND ENGINEER FOR EXACT LOCATIONS. CLOSE CONTRACTOR COORDINATION REQUIRED.
4. ALL PROPOSED EQUIPMENT LOCATIONS/INSTALLATIONS TO COMPLY WITH NEC ARTICLE 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT. CONTRACTOR TO COORDINATE INSTALLATION LOCATIONS OF ALL EQUIPMENT WITH APPLICABLE TRADE CONTRACTORS, OWNER, AND ENGINEER PRIOR TO ROUGH-IN.
5. CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE, EQUIPMENT, BRACKETS, SUPPORTS, ACCESSORIES, ETC., PROVIDE AS STAINLESS STEEL IN CORROSIVE ENVIRONMENTS, EXTERIOR APPLICATIONS, OR WHERE INDICATED ON THE CONTRACT DRAWINGS.
6. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, SPECIFICATIONS, SCHEDULES, AND DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
7. CONTRACTOR TO COORDINATE ALL ASPECTS OF SEQUENCE OF CONSTRUCTION WITH OWNER, ENGINEER, AND ALL TRADE CONTRACTORS.
8. ALL EXTERIOR RECEPTABLES TO BE INSTALLED AT A HEIGHT OF 36" A.F.G.
9. CONTRACTOR TO PROVIDE LABEL FOR ALL PROPOSED ELECTRICAL EQUIPMENT AND DEVICES. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER. REFER TO SPECIFICATION SECTION 26-0535 - IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
10. CONTRACTOR TO COORDINATE ALL CONDUIT PENETRATIONS AND ROUTING WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
11. NOT ALL EQUIPMENT/DEVICES MAY BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER.

SHEET KEY NOTES:

- ① CONTRACTOR TO PROVIDE 3/4" x 10" COPPER GROUND ROD. BOND ALL METAL STRUCTURES, EQUIPMENT, AND LIGHTING PROTECTION DOWN CONDUCTOR TO GROUND ROD USING #2 COPPER CONDUCTOR WITH RGS CONDUIT. REFER TO TYPICAL LIGHTNING PROTECTION INSTALLATION DETAIL AND TYPICAL PANEL GROUNDING DETAIL FOR ADDITIONAL INFORMATION.
- ② LIGHTNING PROTECTION DOWN CONDUCTOR. CONCEAL IN RGS CONDUIT WITH EXTERIOR WALL CONSTRUCTION. CONTRACTOR TO WORK WITH CERTIFIED LIGHTNING PROTECTION INSTALLER TO PROVIDE COMPLETE BUILDING LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA, UPON COMPLETION PROVIDE UL MASTER LABEL. REFER TO SPECIFICATION SECTION 26-413 LIGHTNING PROTECTION FOR ADDITIONAL INFORMATION/REQUIREMENTS.
- ③ CONTRACTOR TO PROVIDE CONCRETE HOUSEKEEPING PAD BENEATH EQUIPMENT. REFER TO TYPICAL EQUIPMENT PAD FOR ADDITIONAL INFORMATION.
- ④ FURNACE EMERGENCY SHUTDOWN. TYPICAL OF TWO (2). REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION/REQUIREMENTS WITH APPLICABLE TRADE CONTRACTOR.
- ⑤ GROUND RING. GROUND RING TO BE BURIED AT MINIMUM 3 FEET BELOW FINISHED GRADE. GROUND RING TO BE KEPT AT MINIMUM OF 3 FEET AWAY FROM BUILDINGS, STRUCTURES, AND EQUIPMENT AT ALL TIMES. PROVIDE AND INSTALL 3/4" x 10" GROUND RODS AT EACH CORNER OF GROUND RING FOR A TOTAL OF FOUR (4) GROUND RODS. BOND ALL METAL STRUCTURES, EQUIPMENT, AND LIGHTING PROTECTION DOWN CONDUCTOR TO GROUND RING. ALL GROUND CONDUCTORS SHALL BE #2 COPPER U.O.N.



HAZARDOUS MATERIAL NOTE:

THE SERVICES PROVIDED BY MHE, INCLUDING ALL WORK DEPICTED ON MHE PLANS, DO NOT INCLUDE THE IDENTIFICATION OF HAZARDOUS MATERIALS, CONTROLS OR HANDLING OF HAZARDOUS MATERIALS, INCLUDING SUCH MATERIALS AS ASBESTOS AND LEAD PAINT. ALL TESTING, IDENTIFICATION, ABATEMENT, REMEDIATION AND/OR REMOVAL OF HAZARDOUS MATERIALS SHALL BE UNDERTAKEN BY A HAZARDOUS MATERIAL CONSULTANT AND CERTIFIED PROFESSIONALS. IF SUCH MATERIALS HAVE BEEN IDENTIFIED BY CONTRACTOR WITH COMMUNICATION DIRECTLY WITH HAZARDOUS MATERIAL CONSULTANT PROFESSIONAL FOR THE PERFORMANCE OF ANY WORK ON OR ADJACENT TO SUD MATERIALS, IF SUCH MATERIALS ARE IDENTIFIED BY CONTRACTOR ENCOUNTERED WHILE UNDERTAKING THE WORK SHOWN HEREON, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER AND OWNER, AND SHALL OBTAIN DIRECTION FROM THE HAZARDOUS MATERIAL CONSULTANT PRIOR TO THE IDENTIFICATION OF ANY INVOLVING SUSPECTED MATERIAL.



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ELECTRICAL
POWER PLAN -
CONTROL BUILDING

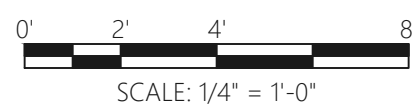
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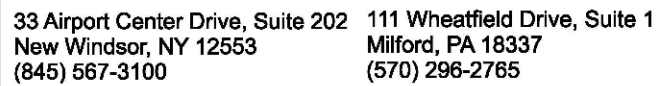
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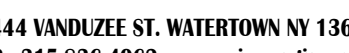
CONTROL BUILDING

3. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
4. PROVIDE A DEDICATED GUIDING CONDUCTOR FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT/DEVICES.
5. PROVIDE ALL ELECTRICAL LOCATIONS ARE SHOWN AS GENERAL IN NATURE. REFER TO ALL TRADE CONTRACT DRAWINGS AND COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER FOR EXACT LOCATIONS. CLOSE CONTRACTOR COORDINATION REQUIRED.
6. ALL PROPOSED EQUIPMENT LOCATIONS/INSTALLATIONS TO COMPLY WITH NEC ARTICLE 100.26 "SPACES ABOUT ELECTRICAL EQUIPMENT" AND TO COORDINATE INSTALLATION LOCATIONS OF ALL EQUIPMENT WITH APPLICABLE TRADE CONTRACTOR, OWNER, AND ENGINEER PRIOR TO ROUGH IN.
7. CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE, EQUIPMENT, BRACKETS, SUPPORTS, ACCESSORIES, ETC. E-051 STATES USE OF STEEL IN CORROSIVE ENVIRONMENTS, EXTERIOR APPLICATIONS, OR WHERE INDICATED ON THE CONTRACT DRAWINGS.
8. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, SPECIFICATIONS, SCHEDULES, AND DETAILS FOR ADDITIONAL INFORMATION/COORDINATIONS.
9. CONTRACTOR TO COORDINATE ALL ASPECTS OF SEQUENCE OF CONSTRUCTION WITH OWNER, ENGINEER, AND ALL TRADE CONTRACTORS.
10. CONTRACTOR TO PROVIDE LABEL FOR ALL PROPOSED ELECTRICAL EQUIPMENT AND DEVICES. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER. REFER TO SPECIFICATION SECTION 26-0533 - IDENTIFICATION FOR ALL ELECTRICAL EQUIPMENT AND ADDITIONAL INFORMATION FOR LABELING.
11. CONTRACTOR TO COORDINATE ALL CONDUIT PENETRATIONS AND ROUTING WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
12. NOT ALL EQUIPMENT/DEVICES MAY BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER.

- ① ACCESS CARD READER BY OTHERS. THIS CONTRACT TO PROVIDE EMPTY 4"-SQUARE NEMA 4X JUNCTION BOX AND COVER AT CARD READER LOCATION AND 3/4" CONDUIT WITH CAT 6 CABLE BACK TO LOCATION OF SECURITY CONTROL PANEL. TYPICAL OF TWO (2). CAP AND LABEL CONDUIT DESTINATION AT THE SECURITY CONTROL PANEL. COIL 10'-0" SLACK AT EACH END.
- ② SECURITY CAMERA BY OTHERS. THIS CONTRACT TO PROVIDE EMPTY 4"-SQUARE NEMA 4X JUNCTION BOX AND COVER AT CAMERA LOCATION AND 3/4" CONDUIT WITH CAT 6 CABLE BACK TO LOCATION OF SECURITY CONTROL PANEL. TYPICAL OF FOUR (4). CAP AND LABEL CONDUIT DESTINATION AT THE SECURITY CONTROL PANEL. COIL 10'-0" SLACK AT EACH END.



mechanical, electrical, plumbing



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ELECTRICAL SYSTEMS PLAN - CONTROL BUILDING

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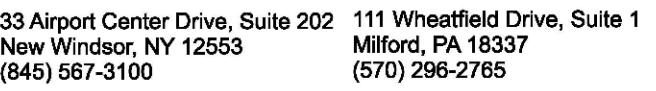
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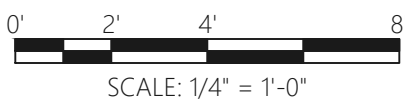
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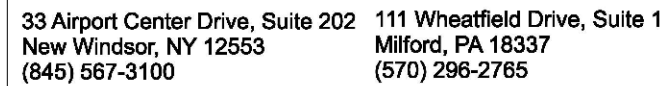


2. REFER TO E-001 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
3. PROVIDE A DEDICATED GROUNDING CONDUCTOR FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT/DEVICES.
4. EQUIPMENT & DEVICE LOCATIONS ARE SHOWN AS GENERAL IN NATURE. REFER TO ALL TRADE CONTRACT DRAWINGS AND COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER FOR EXACT LOCATIONS. CLOSE COORDINATION IS REQUIRED.
5. ALL PROPOSED EQUIPMENT LOCATIONS/INSTALLATIONS TO COMPLY WITH NEC ARTICLE 110.26 "SPACES ABOUT ELECTRICAL EQUIPMENT: CONTRACTOR TO COORDINATE INSTALLATION LOCATIONS OF ALL EQUIPMENT WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER FOR EXACT LOCATIONS AND CLEARANCES."
6. CONTRACTOR TO PROVIDE ALL REQUIRED MOVING HARDWARE, EQUIPMENT, BRACKETS, SUPPORTS, ACCESSORIES, ETC. PROVIDE AS STAINLESS STEEL IN CORROSIVE ENVIRONMENTS, EXTERIOR APPLICATIONS, OR WHERE INDICATED ON THE CONTRACT DRAWINGS.
7. REFER TO ELECTRICAL SINGLE LINE DIAGRAMS, SPECIFICATIONS, SCHEDULES, AND DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
8. CONTRACTOR TO COORDINATE ALL ASPECTS OF SEQUENCE OF CONSTRUCTION WITH OWNER, ENGINEER, AND ALL TRADE CONTRACTORS.
9. NOT ALL EQUIPMENT/DEVICES MAY BE SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER FOR EXACT LOCATIONS AND CLEARANCES.
10. CONTRACTOR TO PROVIDE LABEL FOR ALL PROPOSED ELECTRICAL EQUIPMENT AND DEVICES. COORDINATE FINAL LABELING REQUIREMENTS WITH THE OWNER. REFER TO SPECIFICATIONS SECTIONS 26.0553 - IDENTIFICATION FOR LABELING REQUIREMENTS.
11. CONTRACTOR TO COORDINATE ALL CONDUIT PENETRATIONS AND ROUTING WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
12. CONTRACTOR TO ADJUST FINAL AIMING ANGLE OF EXTERIOR LIGHT FIXTURES TO LIGHT DESIRED AREAS AND MINIMIZE LIGHT POLLUTION. COORDINATE WITH ALL TRADE CONTRACTORS, OWNER, AND ENGINEER PRIOR TO ROUGH-IN.

- ① CONTRACTOR TO PROVIDE AS WATTSOPPER RT-200 ASTRONOMICAL TIME SWITCH OR APPROVED EQUIV WITHIN NEMA 1 ENCLOSURE. SWITCH TO CONTROL PROPOSED EXTERIOR WALL MOUNTED LIGHT FIXTURES TYPES "WP1" & "WPIE". PROGRAM TIME SWITCH FOR LIGHTING "ON" AT ASTRONOMICAL SUNSET AND "OFF" AT ASTRONOMICAL SUNRISE. FINAL ON/OFF PROGRAMMING PARAMETERS TO BE COORDINATED WITH THE OWNER.
- ② CONTRACTOR TO PROVIDE 120V, 20A PHOTO CONTROL WITH ADJUSTABLE SHIELD FOR CONTROL OF EXTERIOR LIGHTING CIRCUIT. INTERLOCK WITH ASTRONOMICAL TIME SWITCH. CONFIRM FINAL LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



1 ELECTRICAL LIGHTING PLAN
E-902 SCALE: 1/4" = 1'-0" CONTROL BUILDING



- ## GENERAL NOTES

DESIGNATIONS

EQUIPMENT

DRAWING

SECTION REFERENCE:

AIR DEVICES

Diagram illustrating the components of a Y-shaped air duct:

- NECK SIZE (points to the top left branch)
- AIR DEVICE DESIGNATOR (S/R/E) (points to the top right branch)
- AIR FLOW (TO BE BALANCED) (points to the bottom branch)

The diagram shows a Y-shaped duct with the following labels and arrows:

- NECK SIZE**: Points to the top left branch.
- AIR DEVICE DESIGNATOR (S/R/E)**: Points to the top right branch.
- AIR FLOW (TO BE BALANCED)**: Points to the bottom branch.

The central part of the diagram contains the text:

12"x12" S1
XXX CFM

HVAC LEGEND

PIPING SYMBOLS

SMOKE DETECTOR
AIR MONITORING DEVICE
SUPPLY AIR DIFFUSER
RETURN AIR GRILLE
EXHAUST AIR GRILLE
FIRE DAMPER
SMOKE DAMPER
FIRE SMOKE DAMPER
MANUAL VOLUME DAMPER
SQUARE TO ROUND DUCT TRANSITION
FLEXIBLE CONNECTION
DUCTWORK SOUND LINING, 1"THICK
ACCESS DOOR
MOTOR OPERATED DAMPER
DUCT TRANSITION
RECTANGULAR BRANCH TAKE-OFF
BELL MOUTH BRANCH TAKE-OFF
ROUND BRANCH TAKE-OFF
CIRCULAR AIR DIFFUSER
CIRCULAR DUCT DROP OFF BOTTOM
SUPPLY AIR DEVICE WITH 2"x2" LAY-IN PANEL
RETURN AIR DEVICE WITH 2"x2" LAY-IN PANEL

FLEXIBLE DUCTWORK

SUPPLY/OUTSIDE AIR DUCT RISER

RETURN AIR DUCT RISER

EXHAUST/RELIEF AIR DUCT RISER

ELBOW w/ DOUBLE THICKNESS TURNING VANES

ROUND DUCT RISER

DIAMETER

CONTROL DEVICE
POINT OF CONNECTION, NEW TO EXISTING
POINT OF DISCONNECTION FROM EXISTING

HAZARDOUS MATERIAL NOTE:

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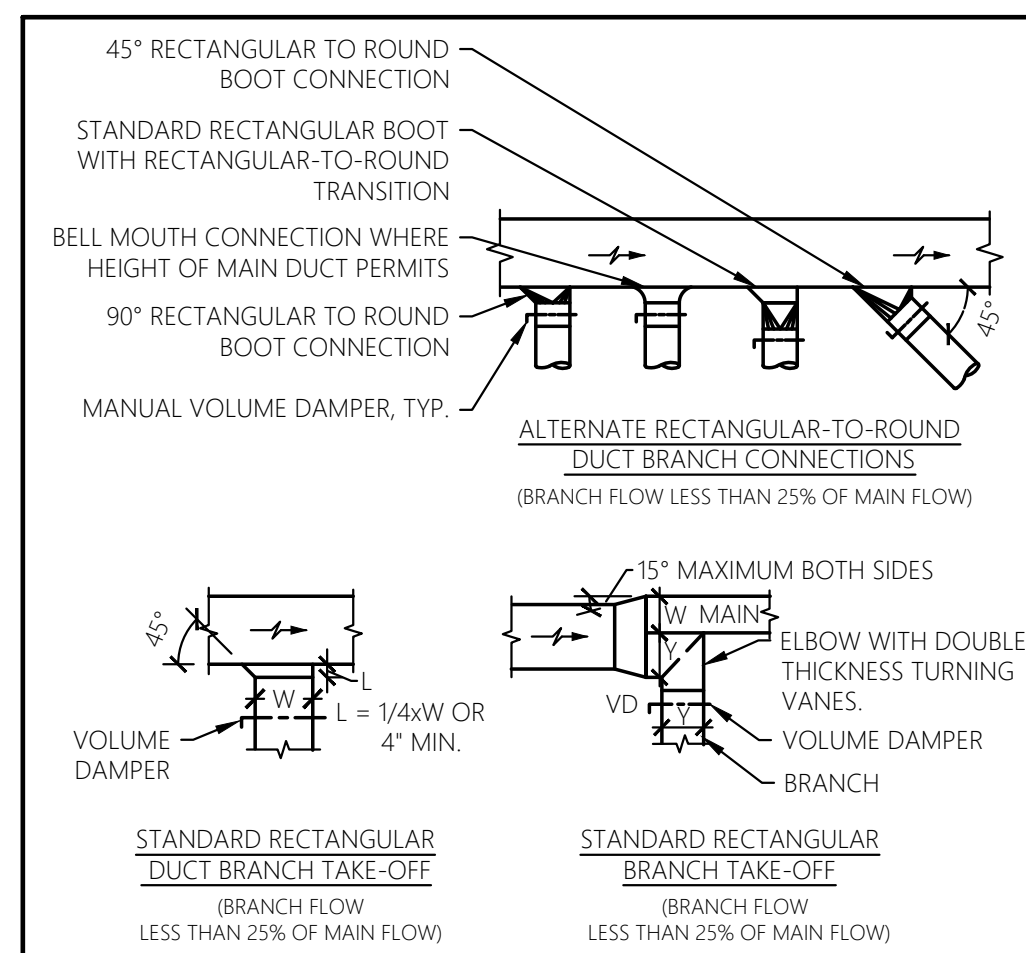
[illegible]

ISSUED DATE:	21 NOVEMBER, 202
DESIGN BY:	RJK
DRAWN BY:	CDJ
CHECKED BY:	RJK
REVIEWED BY:	RJK

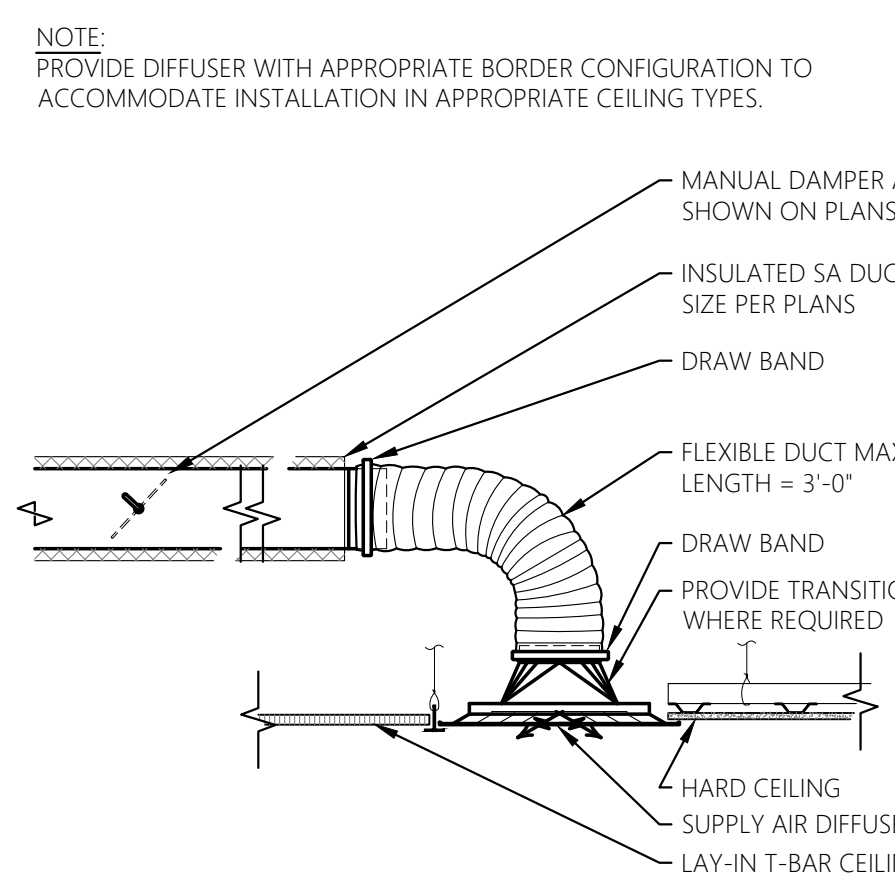
SHEET NO

M-001

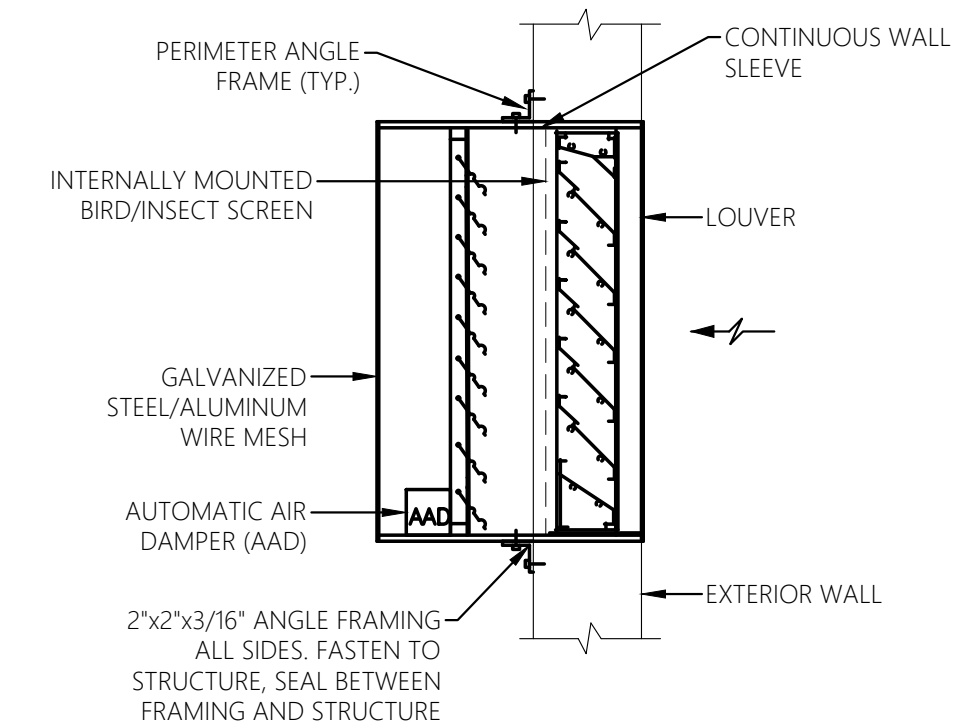
PROJECT # 18-732	PHASE #
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DUCTWORK DETAILS

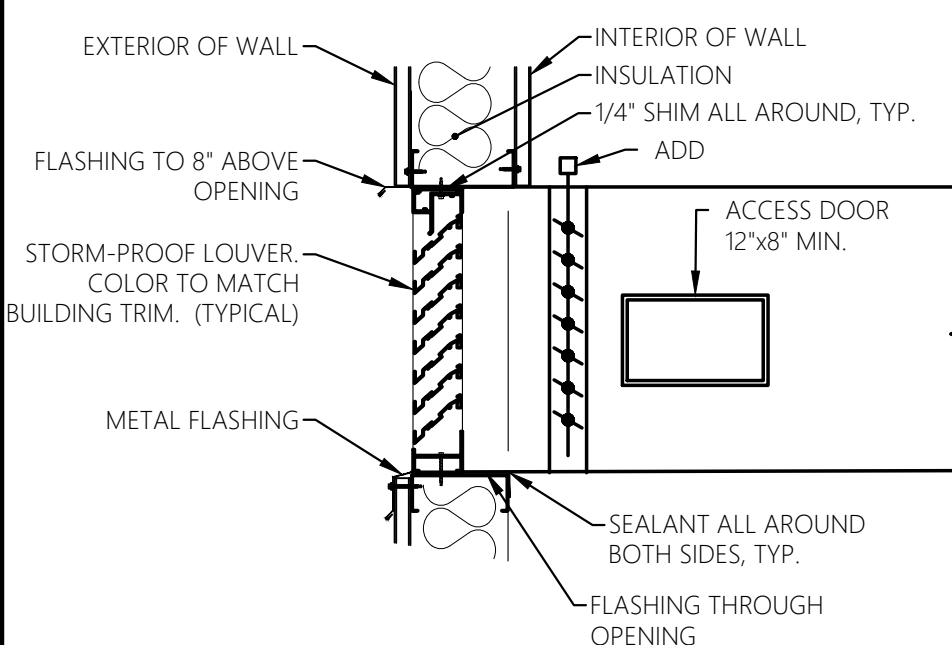


CEILING DIFFUSER DETAIL

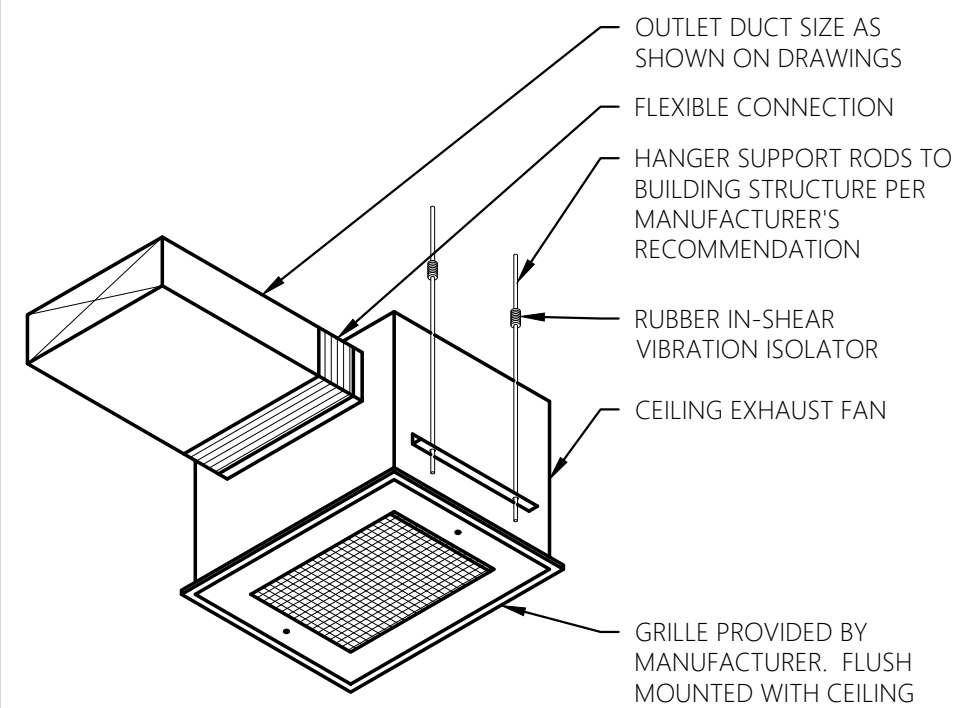


LOUVER WITH AAD DETAIL

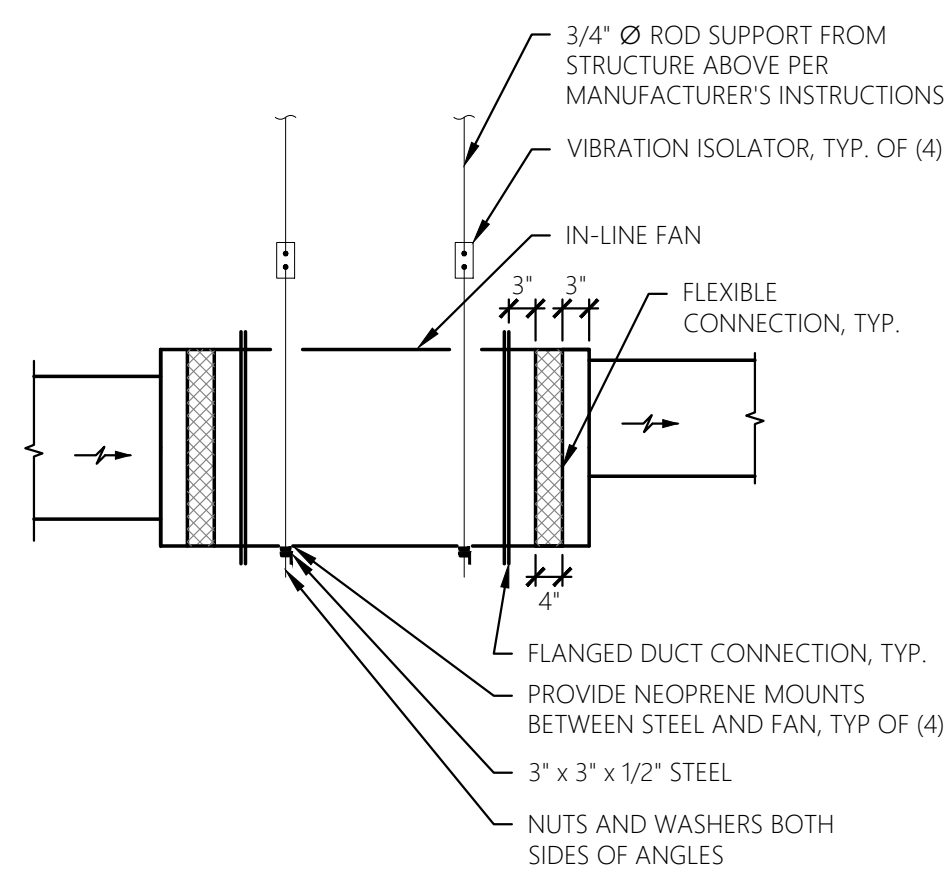
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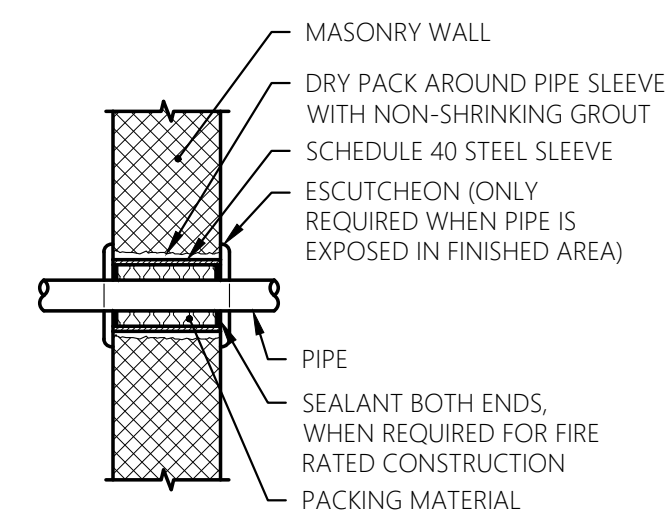
LOUVER DETAIL
SCALE: NTS



CEILING EXHAUST FAN DETAIL

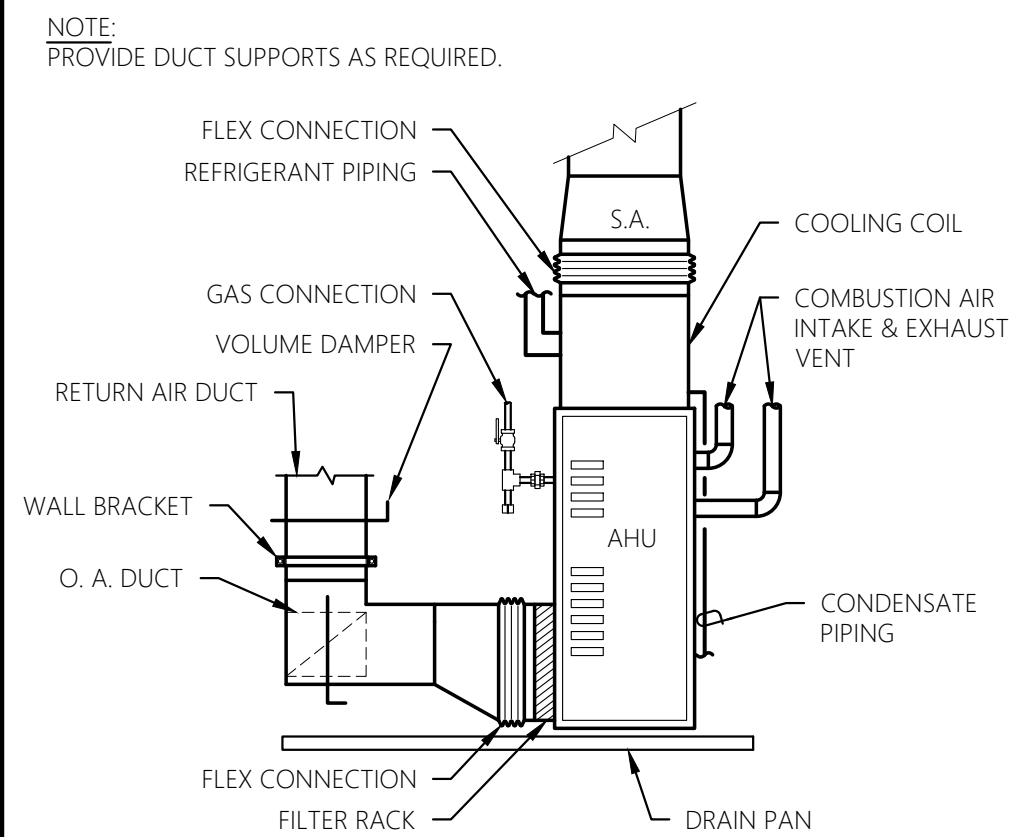


IN-LINE EXHAUST FAN DETAIL

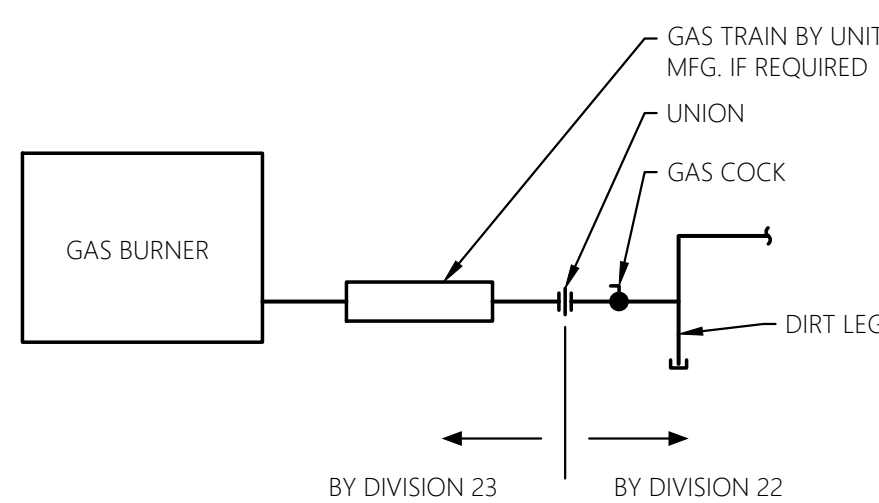


- NOTE:**
1. THIS DETAIL APPLIES TO BOTH INSULATED AND NON-INSULATED PIPE.
 2. FOR FIRE RATED CONSTRUCTION PROVIDE APPROPRIATE APPROVED THROUGH-PENETRATION FIRESTOP ASSEMBLY TO MAINTAIN THE FIRE RATING OF THE WALL ASSEMBLY.

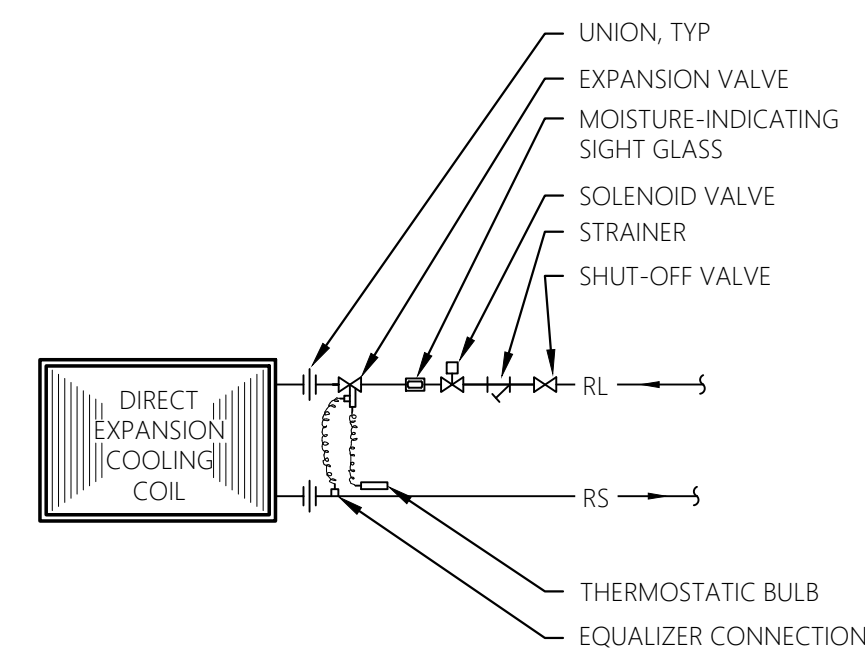
PIPE THRU WALL DETAIL



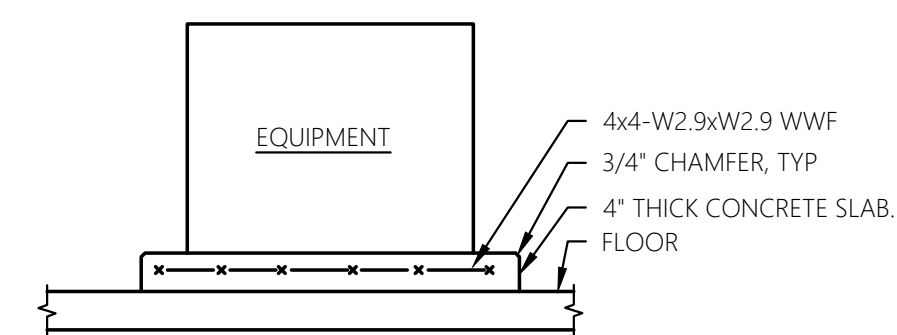
FURNACE DETAIL



GAS CONNECTION DETAIL

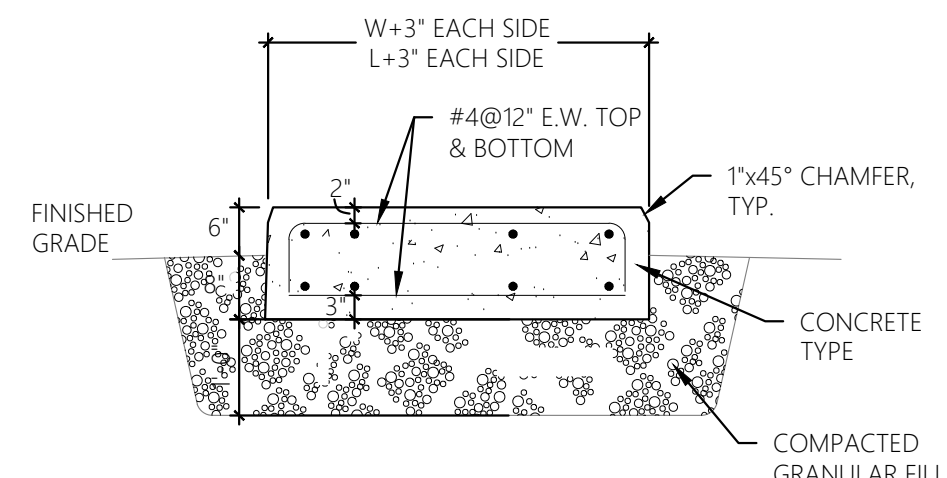


DX COIL DETAIL



- NOTE:**
1. NEW PAD SHALL BE 6" LARGER THAN EQUIPMENT ON EACH SIDE
 2. EXISTING PAD SHALL BE CLEANED AND ROUGHENED. APPLY AN EPOXY BONDING AGENT TO CONTACT SURFACE

HOUSE KEEPING PAD DETAIL



- GENERAL NOTES, EQUIPMENT PAD DETAIL:
1. L = LENGTH OF EQUIPMENT
 2. W = WIDTH OF EQUIPMENT
 3. ANCHOR EQUIPMENT TO PAD PER MANUFACTURERS REQUIREMENTS

EQUIPMENT PAD DETAIL

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MECHANICAL
DETAILS[illegible]

ISSUED DATE:	21 NOVEMBER, 2024
DESIGN BY:	RJK
DRAWN BY:	CDJ
CHECKED BY:	RJK
REVIEWED BY:	RJK

M-030

PROJECT # 18-732	PHASE #
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FURNACE SCHEDULE																	
UNIT TAG	LOCATION	SERVICE	SA CFM	OA CFM (MIN)	ESP (IN WG)	ELECTRICAL				DX COOLING COIL NOMINAL TONNAGE	GAS HEATING (PROPANE)				BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	REMARKS
						MOP	VOLTS	PHASE	FLA		INPUT MBH	OUTPUT MBH	RSE (T)	AFUE			
F-900	CONTROL BUILDING	CONTROL BUILDING	1450	170	0.8	15	120	1	10.1	4	88	85	80	97	COMFORT-AIRE	GUH97M	① ②
F-901	CONTROL BUILDING	CONTROL BUILDING	1475	170	0.8	15	120	1	10.1	4	88	85	80	97	COMFORT-AIRE	GUH97M	① ②

① PROVIDE WITH LP CONVERSION KIT, COOLING COIL, LOW VOLTAGE HONEYWELL PRESTIGE 2.0 THERMOSTAT, AND CONCENTRIC VENT KIT. COORDINATE ALL CIRCUITRY WITH CONTRACT #1E.

② GAS INLET SUPPLY PRESSURE: 11" W.C. MINIMUM, 13" W.C. MAXIMUM. PROVIDE REGULATOR AS NECESSARY.

EXHAUST FAN SCHEDULE															
UNIT TAG	LOCATION	SERVICE	ARRANGEMENT	DRIVE	CFM	SP (IN W/)	FAN RPM	MAX SONES	WALL / ROOF OPENING SIZE	ELECTRICAL			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	REMARKS
										HP (W)	VOLTS	PHASE			
EF-900	CONTROL BUILDING	ELECTRICAL ROOM	IN-LINE	DIRECT	500	0.3	1522	-	-	1/10	120	1	GREENHECK	SQ-90-VG	① ②
EF-901	CONTROL BUILDING	MECHANICAL ROOM	IN-LINE	DIRECT	500	0.3	1522	-	-	1/10	120	1	GREENHECK	SQ-90-VG	① ②
EF-902	CONTROL BUILDING	WOMENS BATHROOM	CEILING	DIRECT	120	0.3	838	2	-	(128)	120	1	GREENHECK	SP-B150	③ ④
EF-903	CONTROL BUILDING	MENS BATHROOM	CEILING	DIRECT	190	0.3	841	2	-	(43)	120	1	GREENHECK	SP-A200	③ ④
EF-904	CONTROL BUILDING	JANITORS CLOSET	CEILING	DIRECT	70	0.3	712	1	-	(80)	120	1	GREENHECK	SP-B110	③ ④

① PROVIDE WITH SPEED CONTROLLER, DISCONNECT SWITCH, VIBRATION ISOLATORS, AND INLET GUARD. COORDINATE ALL CIRCUITRY WITH CONTRACT #1E.

② CONTROL BY LINE VOLTAGE REVERSE-ACTING (COOLING) THERMOSTAT. UPON A RISE IN TEMPERATURE ABOVE 85°F (ADJUSTABLE), FAN SHALL ENABLE.

③ PROVIDE WITH SPEED CONTROLLER, DISCONNECT SWITCH, WALL LOUVER DISCHARGE (10X3 W/ BACKDRAFT DAMPER), AND VIBRATION ISOLATORS. COORDINATE ALL CIRCUITRY WITH CONTRACT #1E.

④ CONTROL BY WALL SWITCH (SWITCH BY CONTRACT #1E).

AIR COOLED CONDENSING UNIT SCHEDULE																		
UNIT TAG	LOCATION	SERVICE	REFRIGERANT TYPE	AMBIENT TEMP (°F)	COMPRESSORS				FANS				ELECTRICAL			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	REMARKS
					NO.	TYPE	TONS	NO.	HP (EACH)	VOLTS	PHASE	MCA	MCP					
ACCU-900	GROUND	F-900	R-410A	95	1	SCROLL	.4	1	1/4	208	1	33	50	COMFORT-AIRE	BSG15			
ACCU-901	GROUND	F-901	R-410A	95	1	SCROLL	.4	1	1/4	208	1	33	50	COMFORT-AIRE	BSG15			

① PROVIDE WITH LOW AMBIENT CONTROL KIT. CONNECT TO ASSOCIATED FURNACE. PROVIDE W/ HARD START KIT. COORDINATE ALL CIRCUITRY WITH CONTRACT #1E.

UNIT TAG	LOCATION	SERVICE	WIDTH	HEIGHT	CFM	FREE AREA (SQ FT)	FACE VELOCITY (FPM)	BIRD SCREEN	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	REMARKS
LV-900	CONTROL BUILDING	INTAKE	18	18	500	0.84	596	YES	GREENHECK	ESD-435	① ② ④
LV-901	CONTROL BUILDING	EXHAUST	18	18	500	0.84	596	YES	GREENHECK	ESD-435	① ② ④
LV-902	CONTROL BUILDING	EXHAUST	18	18	500	0.84	596	YES	GREENHECK	ESD-435	① ② ④
LV-903	CONTROL BUILDING	INTAKE	18	18	500	0.84	596	YES	GREENHECK	ESD-435	① ② ④
LV-904	CONTROL BUILDING	INTAKE	18	18	340	0.84	385	YES	GREENHECK	ESD-435	① ② ③

① WITH FACTORY PROVIDED 120V AAD. COORDINATE INTERLOCK CIRCUITING WITH CONTRACT #1E.

② PROVIDE WITH 1-1/2" EXTERIOR PERIMETER FLANGE AND PERIMETER CLIP ANGLES.


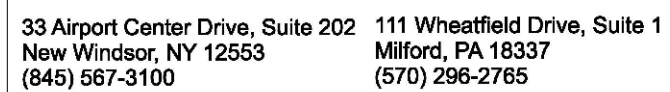
③ INSTALL CLOSE TO CEILING STRUCTURE.

④ INSTALL ABOVE BRICK COURSING (APPROXIMATELY 36" AFF).

ELECTRIC UNIT HEATER SCHEDULE										
UNIT TAG	LOCATION	AIRFLOW DIRECTION	KW	SUPPLY CFM	ELECTRICAL			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER	REMARKS
					VOLTS	PHASE	AMPS			
EUH-900	ELECTRICAL ROOM	HORIZONTAL	3.3	400	480	3	4	TRANE	UHEC	(1)
EUH-901	MECHANICAL ROOM	HORIZONTAL	3.3	400	480	3	4	TRANE	UHEC	(1)
EUH-902	STORAGE ROOM	HORIZONTAL	3.3	400	480	3	4	TRANE	UHEC	(1)
PROVIDE WITH BLUE-FIN 24V CONTROL TRANSFORMER AND CIRCUIT WALL MOUNTED 24V THERMOSTAT, UNIT MOUNTED DISCONNECT SWITCH, AND MOUNTING BRACKET. COORDINATE ALL CIRCUITRY WITH CONTRACT.										

AIR INLET AND OUTLET SCHEDULE						
TYPE	DESCRIPTION	SERVICE	FACE SIZE (NECK SIZE)	MOUNTING TYPE	BASIS OF DESIGN MANUFACTURER AND MODEL	REMARKS
S1	DIFFUSER	SUPPLY	24x24	LAY-IN	PRICE SCD	①
R1	GRILLE	RETURN	24x24/12X12	LAY-IN	PRICE 80 SERIES	②

① PROVIDE WITH BALANCING DAMPER



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SHEET NO

PROJECT # 18-732	PHASE #
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GENERAL SHEET NOTES:

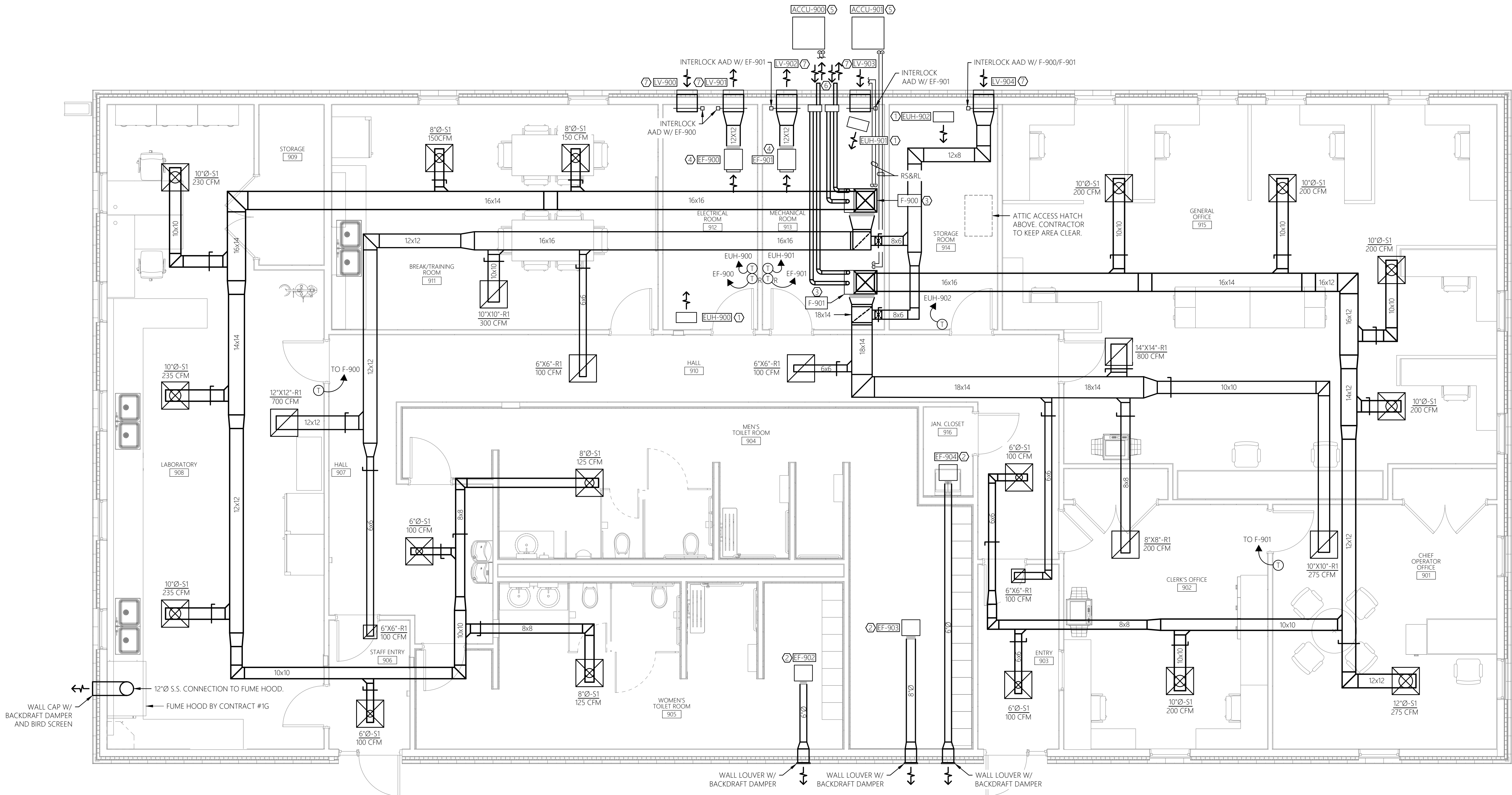
- REFER TO M-001 FOR HVAC LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
- UNLESS OTHERWISE NOTED, HVAC ITEMS SHOWN HEAVY SOLID  SHALL BE NEW.
- COORDINATE DUCTWORK/PIPING/EQUIPMENT/ETC. LAYOUT WITH ALL OTHER TRADES TO AVOID CONFLICT.

SHEET KEY NOTES:

- NEW ELECTRIC UNIT HEATER TO BE INSTALLED AT LOCATION SHOWN PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E.
- NEW CEILING MOUNT EXHAUST FAN TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET M-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E.
- NEW GAS FIRED FURNACE TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET M-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. ROUTE VENT AND EXHAUST PIPING PER MANUFACTURER'S RECOMMENDATIONS AND TERMINATE OUTSIDE WITH CONCENTRIC VENT. CONTRACTOR TO FIELD VERIFY EXACT LOCATION FOR EQUIPMENT AND ADJUST AS NECESSARY. FURNACE TO BE CONTROLLED BY HONEYWELL PRESTIGE 2.0 THERMOSTAT (OR EQUAL). COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E. COORDINATE FURNACE THERMOSTAT SPACE LOCATION WITH OWNER.
- NEW IN-LINE EXHAUST FAN TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET M-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E.
- NEW AIR COOLED CONDENSING UNIT TO BE INSTALLED AT LOCATION SHOWN PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. PROVIDE WITH 6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E. CONTRACTOR SHALL SIZE AND ROUTE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS BETWEEN AIR COOLED CONDENSING UNIT AND ASSOCIATED FURNACE.
- FURNACE EXHAUST (CONCENTRIC VENT) SHALL TERMINATE MINIMUM 3 FT ABOVE INTAKE LOUVER LV-903 SERVING MECHANICAL ROOM AND 10 FT HORIZONTALLY FROM INTAKE LOUVER LV-904.
- NEW LOUVER TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET M-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E.

SEQUENCE OF OPERATIONS:

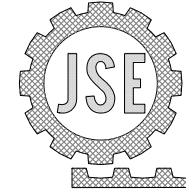
FANS
EF-900, EF-901 SHALL OPERATE VIA LINE VOLTAGE COOLING THERMOSTAT LOCATED WITHIN SPACE.
EF-902, EF-903, EF-904 SHALL OPERATE WHEN BUILDING IS OCCUPIED.



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JADE STONE ENGINEERING

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MECHANICAL FLOOR PLAN - NEW WORK

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE: 21 NOVEMBER, 2024
DESIGN BY: RJK
DRAWN BY: CDJ
CHECKED BY: RJK
REVIEWED BY: RJK

SHEET NO.

M-900

PROJECT # 18-732 PHASE #

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

1 MECHANICAL FLOOR PLAN - NEW WORK
M-900 SCALE: 1/4" = 1'-0"



FIXTURE SCHEDULE									
FIXTURE TAG	FIXTURE DESCRIPTION	MINIMUM CONNECTIONS (IN)				DESIGN BASIS			
		COLD	HOT	WASTE	VENT	FIXTURE	FAUCET/FLUSH VALVE	REMARKS	
WC-A	WATER CLOSET - ADA WALL MOUNT - FLUSH VALVE - REAR OUTLET	1	-	3	2	SLOAN WALL MOUNTED TOILET BOWL WITH TOP SPUD. MODEL ST-2459	SLOAN ROYAL T11 EXPOSED MANUAL WATER CLOSET FLUSHOMETER - ADA	COORDINATE INSTALLATION WITH CONTRACT #1G	
UR-A	URINAL - ADA - WALL MOUNT	3/4	-	3	2	SLOAN VITREOUS CHINA WASH-DOWN URINAL. MODEL SU-1009.	SLOAN ROYAL T11 EXPOSED MANUAL URINAL FLUSHOMETER	COORDINATE INSTALLATION WITH CONTRACT #1G	
LAV-A	LAVATORY - ADA WALL HUNG	1/2	1/2	1-1/2	1-1/2	AMERICAN STANDARD AQUALYN DROP-IN SINK	MOEN 8413 CHROME ONE HANDLE LAVATORY FAUCET	COORDINATE INSTALLATION WITH CONTRACT #1G AND ARCHITECTURAL LAYOUT/TRIM	
KS-A	DOUBLE BASIN- DROP IN - KITCHEN SINK	1/2	1/2	1 1/2	1 1/2	ELKAY DAYTON EQUAL DOUBLE BOWL DROP-IN SINK. 33"x21"x14"	AMERICAN STANDARD COLONY PRO KITCHEN SINK FAUCET	COORDINATE INSTALLATION WITH CONTRACT #1G AND ARCHITECTURAL LAYOUT/TRIM	
SS-A	SERVICE SINK	3/4	3/4	2	1-1/2	MUSTEE UTILITUB COMBO KIT, MODEL#12C WITH FAUCET.	MUSTEE COMBO KIT FAUCET PROVIDED WITH FIXTURE.	COORDINATE INSTALLATION WITH CONTRACT #1G	
SH-A	SHOWER	3/4	3/4	3	2	BY CONTRACT #1G (REFER TO ARCH DRAWINGS/SPECS).	SYMMONS ADA SAFETY MIX SHOWER/HAND SHOWER WITH 60" FLEXIBLE HOSE AND SLIDE RAIL.	COORDINATE INSTALLATION WITH CONTRACT #1G AND ARCHITECTURAL LAYOUT/TRIM	
WF-A	WATER FOUNTAIN - BI LEVEL - ADA COMPLIANT	1/2	-	-	-	ELKAY LZSTL8WSVRLK EZH2O BOTTLE FILLING & BI-LEVEL ADA VANDAL RESISTANT COOLER, FILTERED & REFRIGERATED LIGHT GRAY.	-	COORDINATE INSTALLATION WITH CONTRACT #1G	
FD-A	FLOOR DRAIN	-	-	-	-	WATTS FD-100. SEE PLANS FOR OUTLET SIZES.	-	PROVIDE WITH TRAP BARRIER SEAL. COORDINATE FINAL LOCATION WITH CONTRACT #1G	
FD-B	SHOWER FLOOR DRAIN	-	-	3	2	STAINLESS STEEL SCHLUTER SYSTEMS - INCLUDE FLOOR DRAIN, FLOOR MEMBRANE, FLOOR FLANGE, SS STRAINER, ETC. FOR FULL SYSTEM (SHOWER PAN BY CONTRACT #1G. REFER TO ARCH DRAWINGS/SPECS).	-	PROVIDE WITH TRAP BARRIER SEAL. COORDINATE INSTALLATION WITH CONTRACT #1G AND ARCHITECTURAL LAYOUT/TRIM	
DPCO	DECK PLATE CLEAN-OUT	-	-	-	-	JAY R. SMITH #4020 4" OUTLET SIZE W/ ADJUSTABLE NICKEL BRONZE TOP	-	COORDINATE INSTALLATION WITH CONTRACT #1G	
ESE-A	INTERIOR - COMBINATION EMERGENCY EYEWASH/SHOWER (PVC CONSTRUCTION)	1 1/4	1 1/4	-	-	GUARDIAN G1993 W/ G6040 THERMOSTATIC MIXING VALVE	-	COORDINATE FINAL LOCATION WITH ALL OTHER TRADES. PROVIDE WITH GUARDIAN FLOW SWITCH 4P275-015. COORDINATE CIRCUITRY WITH CONTRACT #1E. PROVIDE WITH HIGHLY VISIBLE SIGNAGE PER ANSI Z358.1	
HB-A	HOSE BIB - EXTERIOR (NON-FREEZING)	3/4	-	-	-	WALL HYDRANT WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. MODEL: WATTS HY-410 OR EQUAL.	-	COORDINATE INSTALLATION WITH CONTRACT #1G. PROVIDE WITH SIGNAGE, ANSI MODEL ADE-4975.	

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
	SANITARY WASTE LINE
	NATURAL GAS PIPING
	SANITARY VENT PIPING
	CAP OR PLUG
	CHECK VALVE
	BALANCING VALVE
	DECK PLATE CLEAN OUT
	FLOOR DRAIN/P-TRAP
	FLOW ARROW
	HOSE BIB
	MANUAL GAS COCK
	PIPE DROP
	PIPE RISE
	RELIEF VALVE
	WATER HAMMER ARRESTOR
	BALL TYPE VALVE
	UNION
	VENT THRU ROOF (VTR)
	Y STRAINER
	TRAP PRIMER
	PUMP
	POINT OF DISCONNECTION, FROM EXISTING
	POINT OF CONNECTION, NEW TO EXISTING

ABBREVIATIONS	
ABV	AT ABOVE
AFB	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CLG	CEILING
CW	DOMESTIC COLD WATER
DA	DIAMETER
DN	DOWN
DPCO	DECK PLATE CLEANOUT
(E)	EXISTING
FD	FLOOR DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
INV	INVERT
LAV	LAVATORY
LS	LAUNDRY SUPPLY
MIN	MINIMUM
NG	NATURAL GAS
NTS	NOT TO SCALE
PRS	POTABLE REUSE SYSTEM
RCP	RECIRCULATION PUMP
SHFD	SHOWER FLOOR DRAIN
SNK	SINK
TMV	TEMPERATURE MIXING VALVE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET
W/	WITH

GENERAL NOTES	
1.	THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, AND SPECIALTIES. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES.
2.	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK. ANY REQUIRED CHANGES TO WORK SHOWN ON DRAWINGS SHALL BE COORDINATED WITH ARCHITECT/ENGINEER AND OTHER TRADES PRIOR TO CONSTRUCTION.
3.	DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL PROVIDE FOR SUCH CHANGES IN PIPING OR EQUIPMENT LOCATIONS AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS AND THE WORK OF OTHER CONTRACTS.
4.	THE WORK INCLUDED IN THIS CONTRACT ENCOMPASSES BOTH THE DRAWINGS AND SPECIFICATIONS. WORK INCLUDED ON THE DRAWINGS ONLY, OR IN THE SPECIFICATIONS ONLY, SHALL BE INCORPORATED AS IF INCLUDED IN BOTH. SYSTEMS ARE INTENDED TO BE COMPLETE AND FULLY FUNCTIONING. THE CONTRACTOR SHALL PROVIDE SUCH COMPONENTS AS NECESSARY FOR A FULLY FUNCTIONING SYSTEM.
5.	COORDINATE THE WORK OF THIS CONTRACT WITH THE WORK OF OTHER CONTRACTS. PHASE INSTALLATION OF EQUIPMENT AND PIPING TO ENSURE CONSTRUCTABILITY, AND THAT CONSTRUCTION PROCEEDS IN AN ORGANIZED, EFFICIENT, AND ORDERLY MANNER. PIPING TO BE SLOPED SHALL TAKE PRECEDENCE OVER PRESSURE PIPING, DUCTWORK, AND EQUIPMENT LOCATIONS.
6.	PLUMBING CONTRACTOR SHALL SEAL ALL PIPING AND DUCT PENETRATIONS IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE AND NFPA.
7.	EXCEPT AS NOTED IN SPECIFICATIONS, ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.
8.	ALL HORIZONTAL DRAINAGE SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT FOR PIPING 2-1/2" OR LESS, AND 1/8" PER FOOT FOR 3" TO 6" PIPING.
9.	INSTALL ALL PIPING, EQUIPMENT, AND SPECIALTIES TO ALLOW MAXIMUM CLEARANCE AND AVOID INTERFERENCE WITH THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT, NEW OR EXISTING. DO NOT INSTALL ANYTHING ABOVE OR WITHIN 3 FT. IN FRONT OF ELECTRICAL GEAR.
10.	PLUMBING CONTRACTOR SHALL PROVIDE NECESSARY SUPPORT FRAMING, STIFFENERS, BRACING, AND HANGERS WHETHER SHOWN OR NOT TO ENSURE A COMPLETE AND DURABLE SYSTEM. SUPPORT FRAMING CONNECTIONS SHALL BE WELDED UNLESS SPECIFICALLY SHOWN OTHERWISE. ACTUAL SUPPORTS MAY VARY FROM THOSE SHOWN IN DETAILS AS REQUIRED BY ACTUAL EQUIPMENT FURNISHED OR BY FIELD CONDITIONS.
11.	ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION MANUAL OR MANUFACTURER'S REPRESENTATIVE'S WRITTEN INSTRUCTIONS.
12.	PLUMBING CONTRACTOR SHALL PROVIDE BALL TYPE SHUT-OFF VALVES IN ALL PIPING BRANCH TAKE-OFFS FROM THE DOMESTIC WATER SUPPLY MAINS, WHETHER SHOWN OR NOT, FOR ISOLATION AND SERVICE TO SYSTEM.
13.	WATER HAMMER ARRESTORS SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ASSE 1010.

BACKFLOW PREVENTER NOTES	
1.	NEW AND REPLACEMENT DEVICES MUST BE TESTED AFTER INSTALLATION AND BEFORE ENTERING SERVICE. DEVICES MUST BE TESTED ANNUALLY THEREAFTER.
2.	STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
3.	ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
4.	WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
5.	DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
6.	ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.
7.	DUE TO INHERENT DESIGN OF RPZ ASSEMBLIES, FLUCTUATING SUPPLY PRESSURE ON A LOW FLOW CONDITION MAY CAUSE NUISANCE DRIPPING. INSTALLATION OF A SOFT SEATED CHECK VALVE AHEAD OF THE RPZ WILL OFTEN HOLD PRESSURE CONSTANT DURING PERIODS OF LOW FLOW.
8.	WHERE THE DISTANCE BETWEEN THE WATER METER AND DEVICE IS GREATER THAN 10 FEET, ALL EXPOSED PIPING SHOULD BE MARKED "FEED LINE TO BACKFLOW PREVENTER - DO NOT TAP" AT 5-FOOT INTERVALS.
9.	ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON DEVELOPMENT FACTS AND ANY NEW REGULATIONS, OR GUIDANCE, IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.

MHE

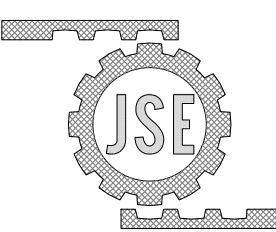
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EXPANSION PROJECT
145 CAESARS LN.
NEW WINDSOR, NY 12553

FOR TOWN OF NEW WINDSOR
555 UNION AVE.
NEW WINDSOR, NY 12553

PLUMBING LEGENDS,
ABBREVIATIONS, &
NOTES

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED DATE: 21 NOVEMBER, 2024

DESIGN BY: RJK

DRAWN BY: CDJ

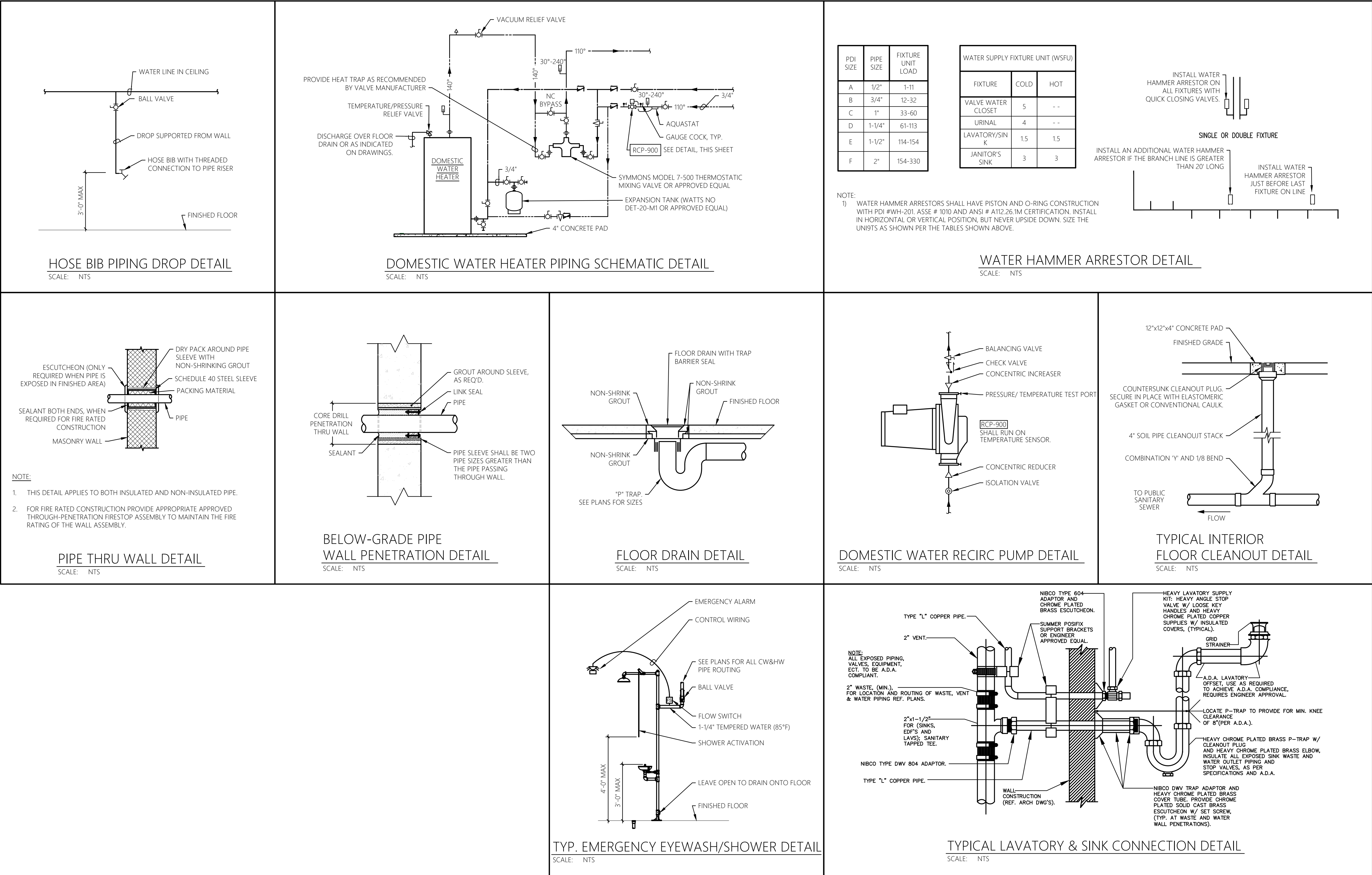
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REVIEWED BY: RJK

SHEET NO.

P-001

PROJECT # 18-732 PHASE #



PROPANE GAS FIRED WATER HEATER SCHEDULE										
UNIT TAG	LOCATION	SERVICE	TANK (GAL)	INPUT (MBH)	FLUE DIA	ELECTRICAL			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER
						MOP	VOLTS	PHASE		
WH-900	CONTROL BUILDING	DOMESTIC HW	100	150	3"	15	120	1	AO SMITH	BTH-150
① PROVIDE WITH CONCENTRIC VENT KIT AND ACID NEUTRALIZER KIT. COORDINATE CIRCUITRY WITH CONTRACT #1E.										
② GAS INLET SUPPLY PRESSURE: 8.5" W.C. MINIMUM, 14" W.C. MAXIMUM. PROVIDE REGULATOR AS NECESSARY.										

DOMESTIC CIRCULATION PUMP SCHEDULE										
UNIT TAG	LOCATION	SERVICE	GPM (GPH)	HEAD FT. WG.	RPM	ELECTRICAL			BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NUMBER
						WATT	VOLTS	PHASE		
RCP-900	MECH RM	WH-900	1	25	3300	270	120	1	B&G	NBF-36
① PROVIDE WITH BRASS LEAD FREE CONSTRUCTION AND AQUASTAT. COORDINATE CIRCUITRY WITH CONTRACT #1E.										

HAZARDOUS MATERIAL NOTE:

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PLUMBING
DETAILS & SCHEDULES

REVISIONS		
NO.	DESCRIPTION	DATE

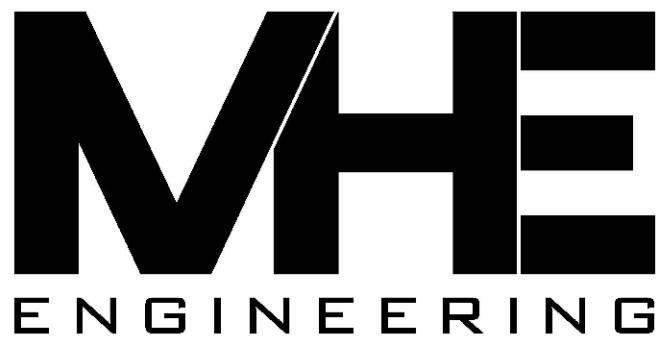
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DRAWN BY:	CDJ
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GENERAL SHEET NOTES:

1. REFER TO P-001 FOR PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL PROJECT NOTES.
2. UNLESS OTHERWISE NOTED, PLUMBING ITEMS SHOWN HEAVY SOLID (—) SHALL BE NEW.
3. COORDINATE PLUMBING PIPING/FIXTURE/EQUIPMENT/ETC. LAYOUT WITH ALL OTHER TRADES TO AVOID CONFLICT.

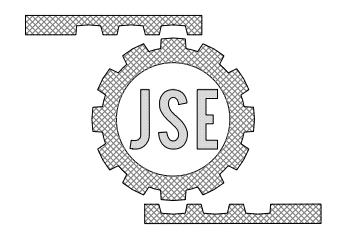
SHEET KEY NOTES:

- ① NEW BACKWATER VALVE TO BE INSTALLED ON 4" SANITARY LINE AT BUILDING EXIT. COORDINATE FINAL LOCATION WITH CONTRACT #1G.



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PLUMBING
FLOOR PLAN -
CONTROL BUILDING

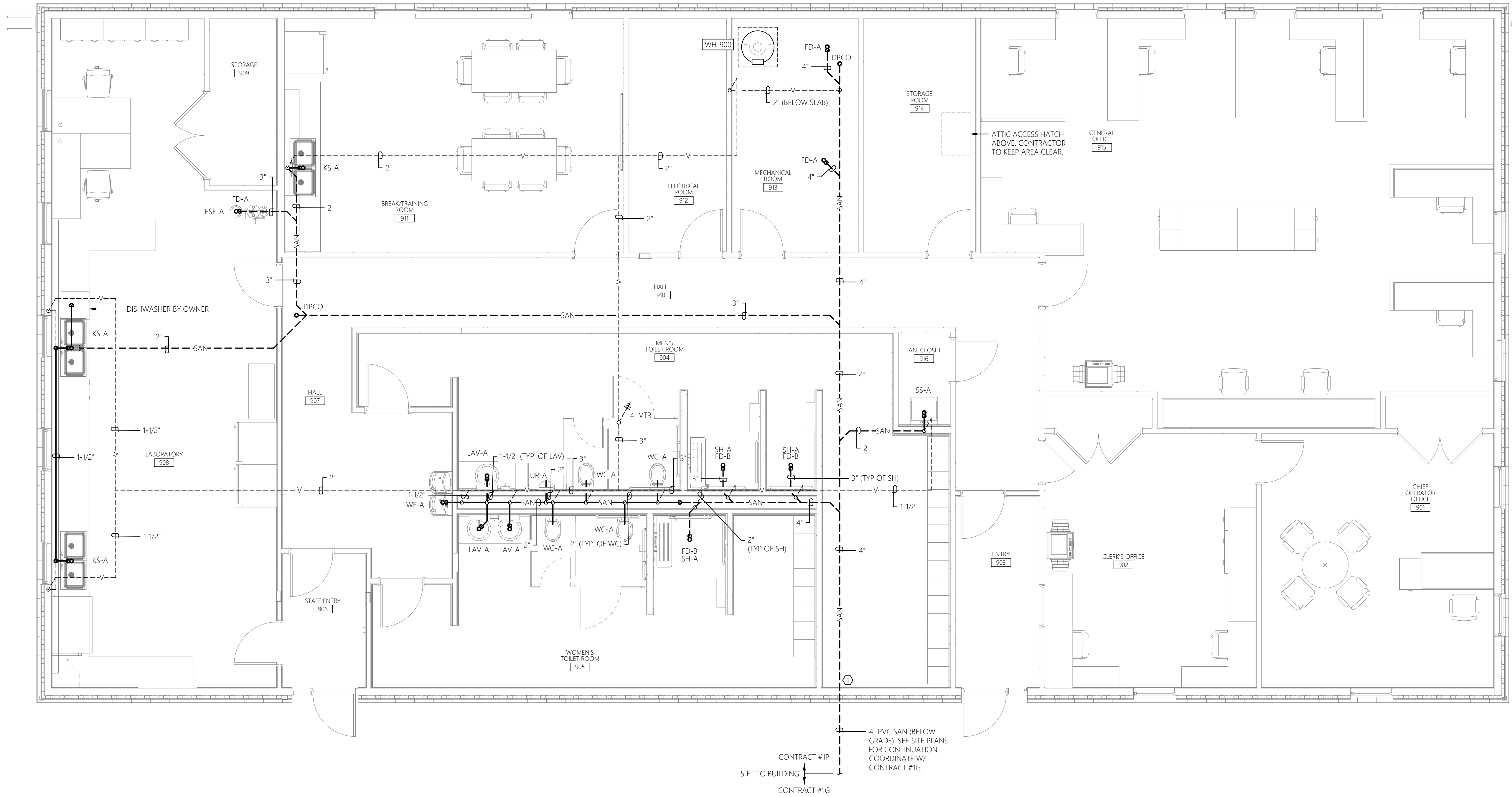
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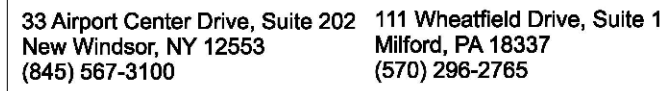
P-900

PROJECT # 18-732 PHASE #



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

1 PLUMBING FLOOR PLAN - NEW WORK (SANITARY)
P-900 SCALE: 1/4" = 1'-0" CONTROL BUILDING

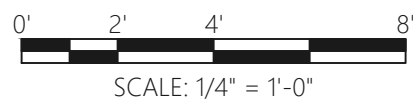
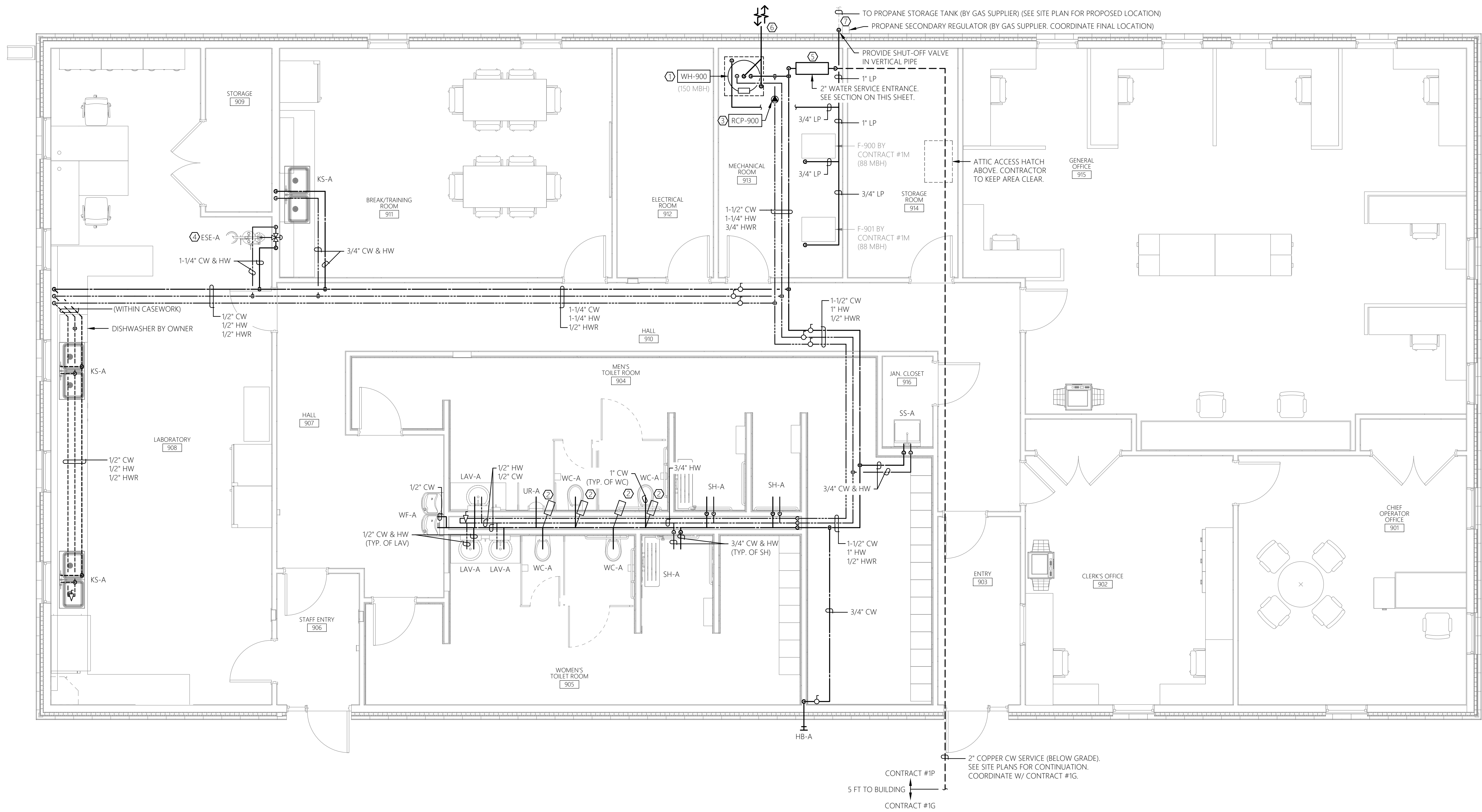
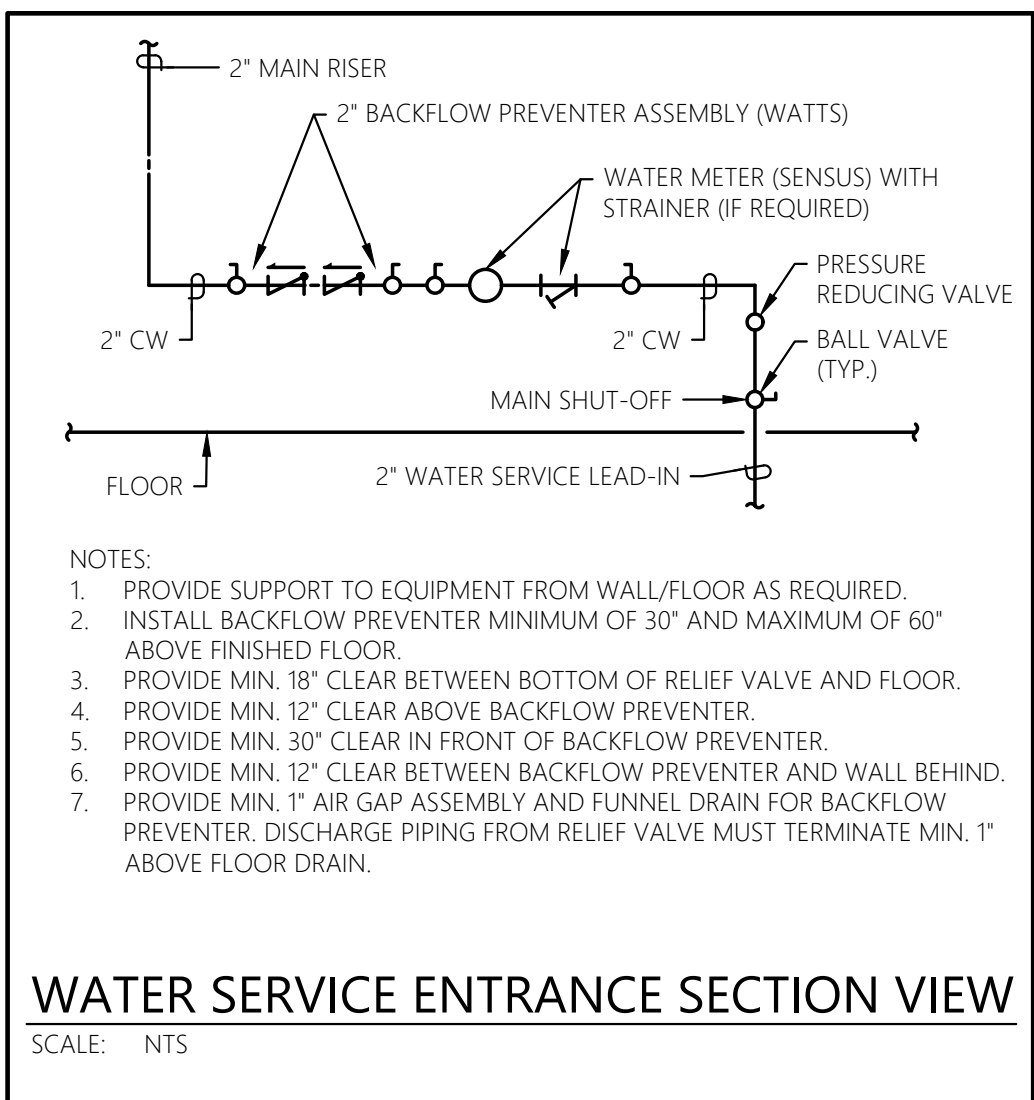


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1. NEW AND REPLACEMENT DEVICES MUST BE TESTED AFTER INSTALLATION AND BEFORE ENTERING SERVICE. DEVICES MUST BE TESTED ANNUALLY THEREAFTER.
2. STRAINERS ARE RECOMMENDED PRIOR TO EACH BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY. NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
3. ASSEMBLIES SHOULD BE SPECIFIED AND INSTALLED WITH MANUFACTURER SUPPLIED VALVES.
4. WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FLOWING THE DEVICE CHECK VALVES.
5. DEVICES MUST BE MOUNTED HORIZONTALLY UNLESS APPROVED FOR VERTICAL INSTALLATION.
6. ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.
7. DUE TO INHERENT DESIGN OF RPT ASSEMBLIES, FLUCTUATING SUPPLY PRESSURE ON A LOW FLOW CONDITION MAY CAUSE INADEQUATE DRIPPING INSTALLED ON A SIZED SERVICE LINE. IF THIS OCCURS, RPT MUST BE USED, HOLD PRESSURE CONSTANT DURING PERIODS OF LOW FLOW.
8. WHERE THE DISTANCE BETWEEN THE WATER METER AND DEVICE IS GREATER THAN 10 FEET, ALL EXPOSED PIPING SHOULD BE MARKED "FEED LINE TO BACKFLOW PREVENTER".
9. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON DEVELOPMENT OF ANY NEW RESIDENTIAL OR COMMERCIAL DEVELOPMENT. AT THE TIME A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.

1. REFER TO P-001 FOR PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL PROJECT NOTES.
2. UNLESS OTHERWISE NOTED, PLUMBING ITEMS SHOWN HEAVY SOLID (—) SHALL BE NEW.
3. COORDINATE PLUMBING PIPING/FIXTURE/EQUIPMENT, ETC. LAYOUT WITH ALL OTHER TRADES TO AVOID CONFLICT.

- ① NEW GAS FIRED WATER HEATER TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET P-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E. PROVIDE 4" HIGH HOUSEKEEPING PAD. ROUTE INTAKE/EXHAUST FLUES AND TERMINATE OUTSIDE PER MANUFACTURER RECOMMENDATIONS. PROVIDE ACCESSORIES/ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- ② CONTRACTOR SHALL SIZE AND INSTALL WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
- ③ NEW DOMESTIC WATER RECIRCULATION PUMP TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET P-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. COORDINATE CONNECTION OF ELECTRICAL SERVICE WITH CONTRACT #1E.
- ④ NEW EMERGENCY EYEWASH/SHOWER TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET P-030 AND PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. PROVIDE ALL TITING/ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE 1/2" THERMOSTATIC MIXING VALVE TO PROVIDE TIPS WATER (85°F) TO FIXTURE. PROVIDE FLOW SWITCH. COORDINATE FLOOR/CURTAIN TO CONTRACT #1E.
- ⑤ NEW RPZ BACKFLOW PREVENTER (WATTS L100RQ20 OR EQUAL) TO BE INSTALLED AT LOCATION SHOWN PER DETAIL ON SHEET P-030. PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH OWNER AND ALL OTHER TRADES TO AVOID CONFLICT. PROVIDE ALL ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE AIR GAP AND DISCHARGE CONNECTION BELOW RPZ AND ROUTE P.V.C DRAIN PIPE TO FLOOR DRAIN.
- ⑥ FURNACE EXHAUST (CONCENTRIC VENT) SHALL TERMINATE MINIMUM 3' FT ABOVE INTAKE LOUVER SERVING MECHANICAL ROOM.
- ⑦ COORDINATE PROPANE STORAGE TANK LOCATION. SECONDARY REGULATOR SHALL BE INSTALLED AT CONNECTION OF PROPANE PIPING WITH GAS PROVIDER AND CONTRACT #1G.



1 PLUMBING FLOOR PLAN - NEW WORK (DOMESTIC)
P-901 SCALE: 1/4" = 1'-0" CONTROL BUILDING



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PLUMBING
FLOOR PLAN -
CONTROL BUILDING

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SHEET NO.

P-901

PROJECT # 18-732	PHASE #
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