IMPROVEMENTS FOR:

GRAND RAPIDS PUBLIC SCHOOLS

BRIGGS PARK FIELD REPLACEMENT

1834 LAFAYETTE AVE NE, GRAND RAPIDS, MI 49505

PROJECT NUMBER: 24-0162

CONSTRUCTION DOCUMENTS

ISSUE DATE: 22OCT2024

MICHIGAN LOCATION MAP
SCALE: NTS

PROJECT MAP
SCALE: NTS

BID ALTERNATES SCHEDULE

BID ALTERNATE #1:
BASE BID - NO NEW BLEACHERS
ALT BID - NEW BLEACHERS AS INDICATED

BID ALTERNATE #2:
BASE BID - NO FENCE IMPROVEMENTS
ALT BID - REMOVE AND REPLACE FENCE FABRIC AND RAILS, REPAIR DAMAGED POSTS, AND INSTALL LOCKABLE GATES AT EACH POINT OF ENTRY (3 TOTAL)

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
GENERAL	
G-001	COVER SHEET
G-101	LIFE SAFETY PLAN - FIRST LEVEL
CIVIL	
C-001	TOPOGRAPHIC SURVEY
C-100	SESC PLAN
C-101	SITE DEMOLITION PLAN
C-102	SITE IMPROVEMENTS PLAN
C-103	SITE GRADING PLAN
C-500	SESC NOTES
C-501	SESC DETAILS
C-502	CIVIL NOTES AND DETAILS
STRUCTURAL	
S-001	GENERAL NOTES AND LEGENDS
S-100	DEMOLITION, FOUNDATION AND FRAMING PLAN
S-501	DETAILS
ARCHITECTURAL	
A-001	PARTITION TYPES, LEGENDS, SYMBOLS, ABBREVIATIONS, AND TYPICAL DETAILS
A-101	PLANS
A-201	EXTERIOR AND INTERIOR ELEVATIONS AND DETAILS
INTERIORS	
I-101	FINISH PLAN - FIRST LEVEL
MECHANICAL AND PLUMBING	
MP-101	MECHANICAL AND PLUMBING PLAN
ELECTRICAL	
E-001	GENERAL NOTES AND LEGENDS
E-101	ELECTRICAL PLANS

Know what's below. Call before you dig.

IT IS UNDERSTOOD THAT THE CONTRACTOR SHALL PERFORM ALL WORK UNDER THIS CONTRACT IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS, POLICIES, RULES AND STANDARDS OF THE MICHIGAN OCCUPATIONAL SAFETY AND HEALTH ACT (MDSHA), BEING ACT 154 OF THE PUBLIC ACTS OF 1974 AND AS AMENDED.

THROUGHOUT THE DRAWING SET, THE GRAYSCALE LEGEND ON THE EDGE OF TITLE BLOCKS SHOULD TRANSITION FROM WHITE THROUGH EIGHT SHADES OF GRAY TO SOLID BLACK. IF THE GRAYSCALE SHADES ARE NOT DISTINCT, THE DRAWING(S) HAVE NOT PRINTED CORRECTLY.

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M:\2024\240162_GRPS_BriggsFieldReplace\3_Design\Drawings\DS_240162_GRPS_BriggsField\Sheets\240162_Cover Sheet.dwg - COVER SHEET
BEIFER, JAKE
DESIGNED BY: –
CHECKED BY: –
APPROVED BY: –

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COVER SHEET

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

G-001

WE RECYCLE

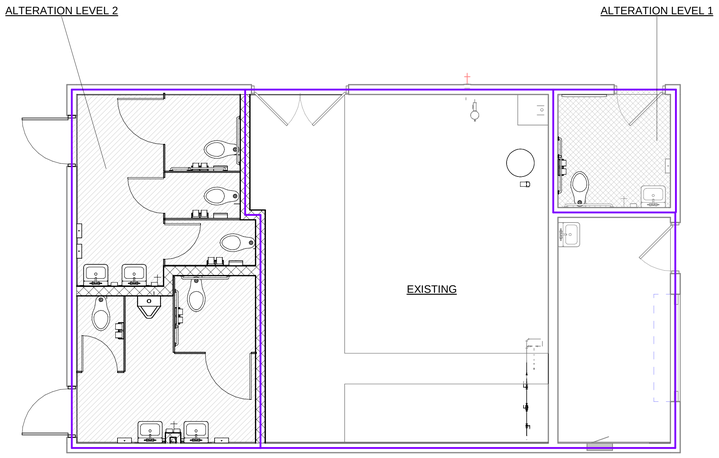
THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID

BLACK

WHITE

THE BAR BELOW SHOWS PRIMARY COLORS

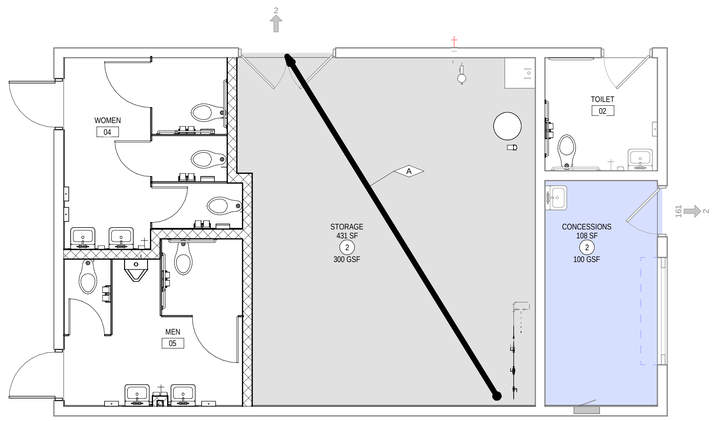
EGRESS TRAVEL PATH SCHEDULE			
Mark	From Room	To Room	Length
A	STORAGE 03		26' - 0"



CODE ALTERATION PLAN - FIRST LEVEL
1/4" = 1'-0"

EXISTING	577 SF
ALTERATION LEVEL 1	64 SF
ALTERATION LEVEL 2	279 SF

EXISTING
ALTERATION LEVEL 1
ALTERATION LEVEL 2
ADDITION



LIFE SAFETY PLAN - FIRST LEVEL
1/4" = 1'-0"

APPLICABLE CODES AND STANDARDS

APPLICABLE CODES	EDITION:
BUILDING CODES:	
MICHIGAN BUILDING CODE (MBC)	2015
NFPA 101 - LIFE SAFETY CODE (NFPA)	2012
ICC A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ANSI)	2017
MICHIGAN ENERGY CODE	2015
FIRE CODE:	
INTERNATIONAL FIRE CODE (IFC)	2015
PLUMBING CODE:	
MICHIGAN PLUMBING CODE (MPC)	2021
MECHANICAL CODES:	
MICHIGAN MECHANICAL CODE (MMC)	2021
MICHIGAN BOILER CODE RULES	2013
ELECTRICAL CODE:	
NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)	2023

CODE SUMMARY

CODE SUMMARY IS BASED ON THE FOLLOWING CRITERIA:

TYPE OF CONSTRUCTION:
- TABLE 601 - VB - NO FIRE RATINGS REQUIRED
- TABLE 602 - SEPARATION GREATER THAN 30 FT

OCCUPANCY CLASSIFICATION:
- U UTILITY *(UNCHANGED)*

BUILDING AREAS:
- ALLOWABLE: 5,500 SF
  - EXISTING BUILDING AREA: 960 SF
  - RENOVATION BUILDING AREA: 260 SF
  - NEW BUILDING AREA: 0 SF

FLOOR AREAS:
- FIRST LEVEL: 960 SF
  - EXISTING: 577 SF
  - ALTERATION LEVEL 1: 64 SF
  - ALTERATION LEVEL 2: 279 SF
  - ADDITION: 0 SF

AUTOMATIC SPRINKLER SYSTEM:
- NOT REQUIRED

EGRESS REQUIREMENTS:
- NO RESTRICTIONS TO EXISTING EXIT ACCESS COMPONENTS. TWO DOORS ADDED.
- NO CHANGES TO EXISTING TRAVEL DISTANCES

OCCUPANCY LOAD:

- MEANS OF EGRESS (DOORS)	=	0.2" / OCCUPANT
- MEANS OF EGRESS (DOORS)	=	0.3" / OCCUPANT
- MAX. LENGTH DEAD END CORRIDOR	=	20' MAX
- MAX. TRAVEL DISTANCE BETWEEN EXITS	=	200' MAX

SYMBOL LEGEND

Name — ROOM NAME
SF — ROOM AREA
(###) — OCCUPANT LOAD
NSF — AREA PER OCCUPANT
ROOM OCCUPANCY TAG

000 — ACTUAL EGRESS LOAD
000 — EGRESS CAPACITY
EXIT / EGRESS DOOR TAG

TRAVEL PATH TAG
TRAVEL PATH END
TRAVEL PATH START
EGRESS PATH OF TRAVEL COMPUTATION

1HR — SMOKE BARRIER / FIRE RATED WALL TAG

FEC — FIRE EXTINGUISHER CABINET / FIRE EXTINGUISHER (WALL BRACKET)

ROOM OCCUPANCY CLASSIFICATION

BUSINESS - B
STORAGE

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LIFE SAFETY PLAN - FIRST LEVEL

GRPS BRIGGS FIELD REPLACEMENT

1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE

CONSTRUCTION DOCUMENTS

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PROJ. #: 24-0162

G-101

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DESIGNED BY: Designer

CHECKED BY: Checker

APPROVED BY: Approver

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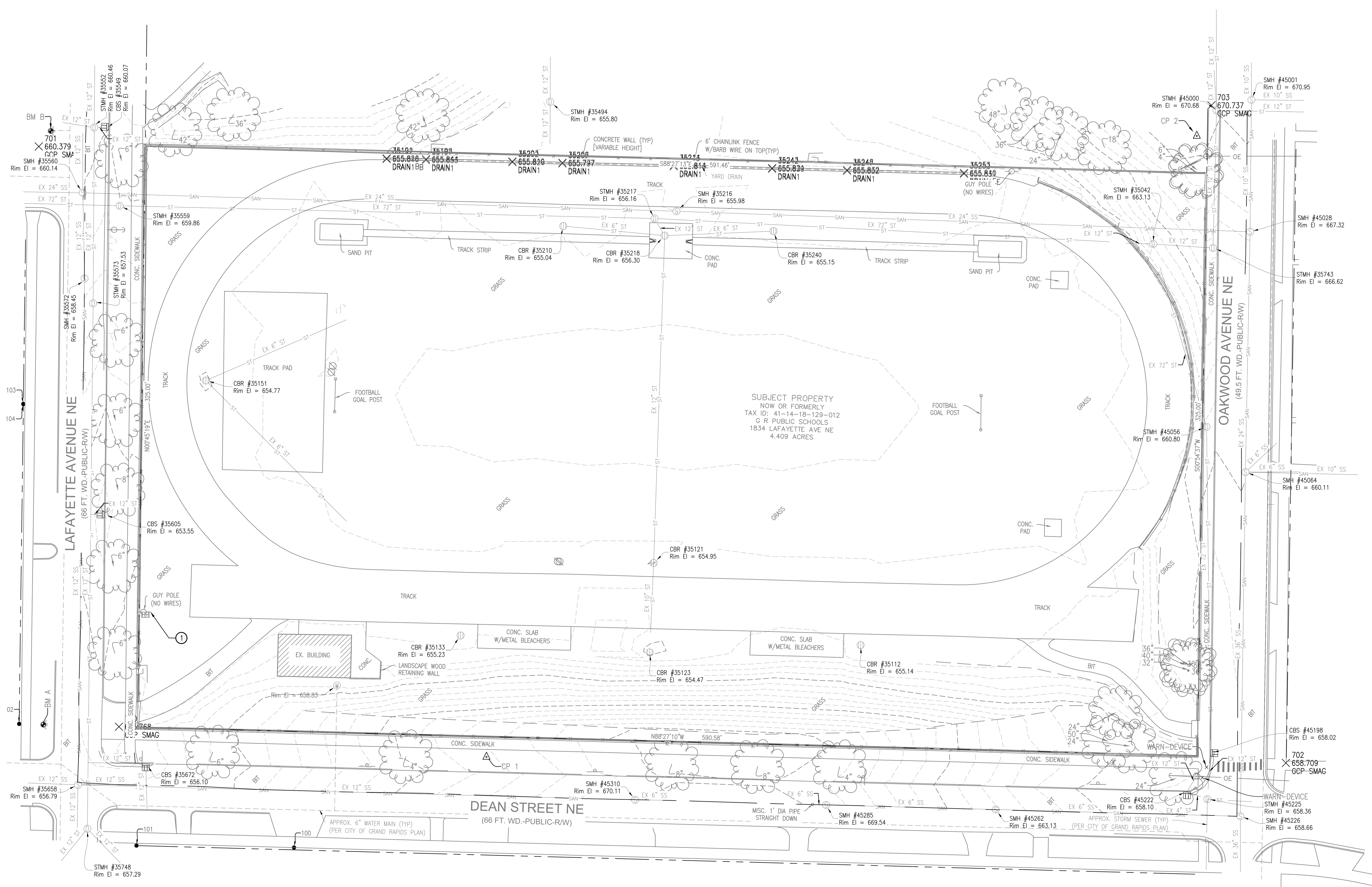
BENCHMARKS
B.M. A – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548015.82, E: 12776794.50
ELEV. 658.53'

B.M. B – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548346.58, E: 12776798.69
ELEV. 663.66

0 30 60 Feet



EXISTING SANITARY STRUCTURES		
STRUCTURE NUMBER	RIM ELEV.	PIPES
(35216) SMH	655.98	24" W IE= 643.43 24" E IE= 643.61
(35560) SMH	660.14	12" S IE= 639.73 24" W IE= 638.82 24" E IE= 639.04 12" N IE= 650.04
(35572) SMH	658.45	12" S IE= 642.97 12" N IE= 642.58
(35658) SMH	656.79	12" W IE= 644.22 12" S IE= 644.08 12" N IE= 644.12 12" E IE= 644.24 12" E IE= 650.49
(45001) SMH	670.95	10" S IE= 663.42 10" N IE= 663.38 10" E IE= 663.53
(45028) SMH	667.32	24" W IE= 648.30 24" S IE= 648.47 10" N IE= 649.23
(45064) SMH	660.11	36" S IE= 649.67 6" NE IE= 654.89 6" E IE= 659.86 10" E IE= 650.16 24" N IE= 649.50
(45226) SMH	658.66	6" W IE= 652.26 36" S IE= 652.22 36" N IE= 652.23
(45262) SMH	663.13	6" W IE= 654.25 6" E IE= 654.23
(45285) SMH	669.54	6" W IE= 661.73 6" E IE= 661.55
(45310) SMH	670.11	12" W IE= 662.24 6" E IE= 662.28

EXISTING STORM STRUCTURES		
STRUCTURE NUMBER	RIM ELEV.	PIPES
(35042) STMH	663.13	12" W IE= 652.09 12" E IE= 656.02
(35112) CBR	655.14	YARD DRAIN
(35121) CBR	654.95	10" S IE= 649.53 12" N IE= 649.53
(35123) CBR	654.47	FULL OF DIRT
(35133) CBR	655.23	FULL OF DIRT
(35151) CBR	654.77	6" NE IE= 653.46 6" SE IE= 653.36
(35210) CBR	655.04	6" E IE= 652.72
(35217) STMH	656.16	72" W IE= 643.97 72" E IE= 649.99
(35218) CBR	656.30	6" W IE= 652.28 6" E IE= 652.30 12" NW IE= 648.27 12" S IE= 648.16
(35240) CBR	655.15	6" W IE= 652.82
(35494) STMH [SQ LID]	655.80	12" S IE= 650.04 12" N IE= 649.95
(35549) CBS	660.07	12" W IE= 656.12
(35552) STMH	660.46	12" E IE= 654.47 12" W IE= 654.35 12" N IE= 652.54 12" S IE= 652.95
(35559) STMH	659.86	72" W IE= 642.24 72" E IE= 642.36
(35573) STMH	657.53	12" N IE= 649.36 12" S IE= 649.88
(35605) CBS	653.55	12" W IE= 650.15
(35672) CBS	656.10	12" S IE= 653.08 12" W IE= 653.18
(35743) STMH	666.62	12" W IE= 659.25 12" N IE= 659.30
(35748) STMH	657.29	12" N IE= 651.53 12" SW IE= 652.32 12" SE IE= 652.79
(45000) STMH	670.68	12" S IE= 664.39 12" N IE= 664.30 12" E IE= 666.05 12" N IE= 667.01
(45056) STMH	660.80	72" S IE= 645.67 72" N IE= 645.60
(45198) CBS	658.02	12" S IE= 655.13
(45222) CBS	658.10	12" NE IE= 654.18 4" E IE= 655.63
(45225) STMH	658.36	NO VISIBLE PIPE(S) BOTTOM= 644.76

UTILITY NOTES

1. ALL FRANCHISE UTILITIES (GAS, FIBER, CABLE, UG ELEC., TELE.) SHOWN ARE BASED ON PLANS PROVIDED AT TIME OF SURVEY UNLESS NOTED OTHERWISE.
2. ANY COMBINED, SANITARY OR STORM SEWER STRUCTURES SHOWN HEREON WITH RIM ELEVATION ONLY WERE NOT INVENTORIED AT TIME OF SURVEY.
3. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

EXISTING LEGEND

DECIDUOUS TREE, CONIFEROUS TREE
TREE LINE/ CANOPY
DITCH/ DRAINING COURSE
UG TELE, MH, TELE PED, CABLE PED
UG FIBER, PED
UG ELEC, MH, TRANSFORMER, AC UNIT, METER
OH ELEC, GUY WIRE, UTIL POLE
UG GAS, MH, VALVE
WATER MAIN, MH, VALVE IN BOX, HYDRANT
IRRIGATION CONTROL VALVE, SPRINKLER HEAD
STORM SEWER, MH, CB, INLET, DOWN SPOUT
CULVERT
SANITARY SEWER, MH, CLEAN OUT
MISC. MANHOLE, HAND HOLE
PARKING BLOCK, SIGN
SECTION LINE, SECTION CORNER
FOUND IRON ROD (FIR), FD MON, FD PK
FINISH FLOOR ELEVATION
MINOR CONTOURS
MAJOR CONTOURS
FENCE
GUARD RAIL
BIT — EX. ASPHALT LINE
CONC. — EX. CONCRETE LINE
GRAVEL — EX. GRAVEL LINE

(1) POLE MOUNTED ELECTRICAL METER, UNDERGROUND ELECTRICAL SERVICE FROM MANHOLE TO EXISTING BUILDING.

SURVEY FIELDWORK AND DRAFTING PERFORMED BY:

INNOVATIVE GEOSPATIAL & ENGINEERING SOLUTIONS
MEGA — Monument Engineering Group Associates, Inc.
1209 EAST MILHAM, SUITE B
PORTAGE, MICHIGAN 49002
(OFFICE) 269-344-6165
MONUMENTENGINEERING.COM
SERVICE DISABLED VETERAN OWNED SMALL BUSINESS (SDVOSB)

TOPOGRAPHIC SURVEY

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

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C-001

WE RECYCLE

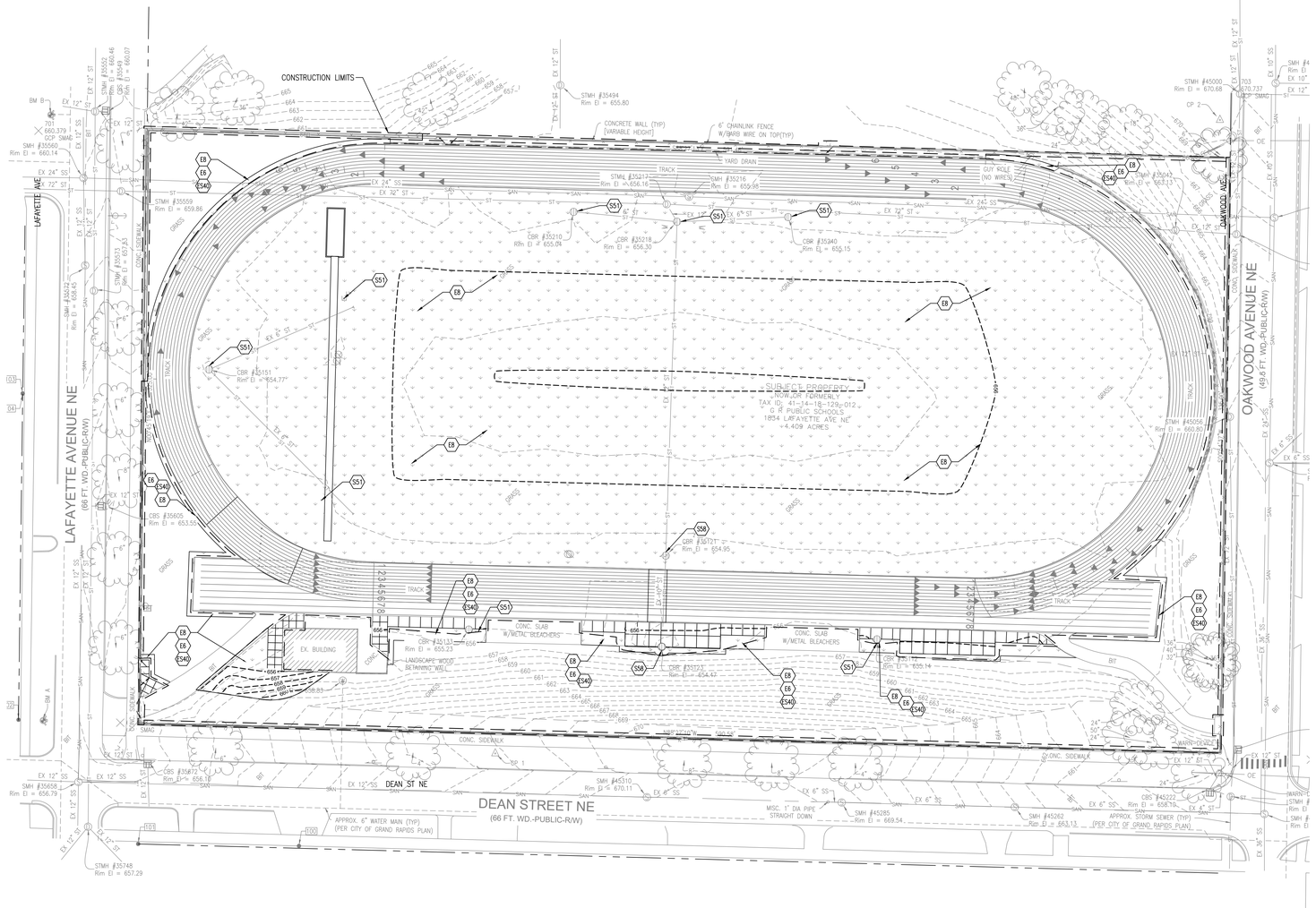
THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK

THE BAR BELOW SHOWS PRIMARY COLORS WHITE

BENCHMARKS

B.M. A – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548015.82, E: 12776794.50
ELEV. 658.53'

B.M. B – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548346.58, E: 12776798.69
ELEV. 663.66



0 30 60 Feet

SESC LEGEND

- SF — SILT FENCE
- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PERMANENT SEEDING

SESC NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY NECESSARY SOIL EROSION AND SEDIMENTATION CONTROL PERMIT(S) REQUIRED FOR CONSTRUCTION.
2. CONTRACTOR SHALL PLACE PERMANENT SEEDING IN ACCORDANCE WITH THE SEEDING WINDOW SHOWN HERE.
3. ALL AREAS DISTURBED BY CONSTRUCTION NOT BUILT, PAVED OR OTHERWISE COVERED SHALL BE HYDROMULCH SEEDED AT THE FOLLOWING RATE AND MIXTURE;
   RATE=8 LBS/1000 SFT
   25% PARK KENTUCKY BLUEGRASS
   15% PENNLAWN CREEPING RED FESCUE
   15% PENNFINE PERENNIAL RYE GRASS
   20% RUGBY KENTUCKY BLUEGRASS
   25% BANFF OR BRONCO KENTUCKY BLUEGRASS
   WEED SEED SHALL NOT EXCEED 0.35% BY WEIGHT IN THE TOTAL AMOUNT SUPPLIED.
4. CONTRACTOR SHALL COORDINATE AND/OR MAINTAIN EXISTING SESC MEASURES ALREADY IN PLACE WITHIN THE PROJECT LIMITS.
5. CONTRACT SHALL MOW GRASS UNTIL SITE HAS STABILIZED AND VEGETATION ESTABLISHED.
6. SEE SHEET C-500 FOR SOIL EROSION NOTES AND DETAILS.

SOIL EROSION CONTROL MEASURES KEY

KEY	DETAIL	NOTES
E6	MULCH	PRIOR TO PLACEMENT OF THE MULCH, THE GROUND SHALL BE TREATED WITH SILT STOP OR OTHER APPROVED POLYMER SYSTEM.
E7	TEMPORARY SEEDING	AS REQUIRED TO REDUCE SOIL EROSION AND DUST
E8	PERMANENT SEEDING	SEE SHEET C-500 FOR SEEDING REQUIREMENTS
S1	SILT FENCE	CONTRACTOR SHALL REMOVE ONCE TURF IS ESTABLISHED
S58	INLET PROTECTION-FABRIC DROP	CATCH BASIN SILT GUARD SHALL BE "SILT SACK" AS MANUFACTURED BY ACF OR "BASIN BAG" AS SUPPLIED BY CONSTRUCTION SUPPLY INC., OR APPROVED EQUAL
S40	POLYMERS	POLYMERS SHALL BE SILT STOP OR OTHER APPROVED POLYMER SYSTEM, USE AS REQUIRED

SESC DETAILS UTILIZE STATE OF MICHIGAN, DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET, INFRASTRUCTURE SERVICES, DESIGN AND CONSTRUCTION DIVISION "SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK".

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SESC PLAN

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

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CONSTRUCTION DOCUMENTS

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PROJ. #: 24-0162

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BRYAN, WALKER
DESIGNED BY: #
CHECKED BY: #
APPROVED BY: #

BENCHMARKS
B.M. A – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548015.82, E: 12776794.50
ELEV. 658.53'

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N: 548346.58, E: 12776798.69
ELEV. 663.66

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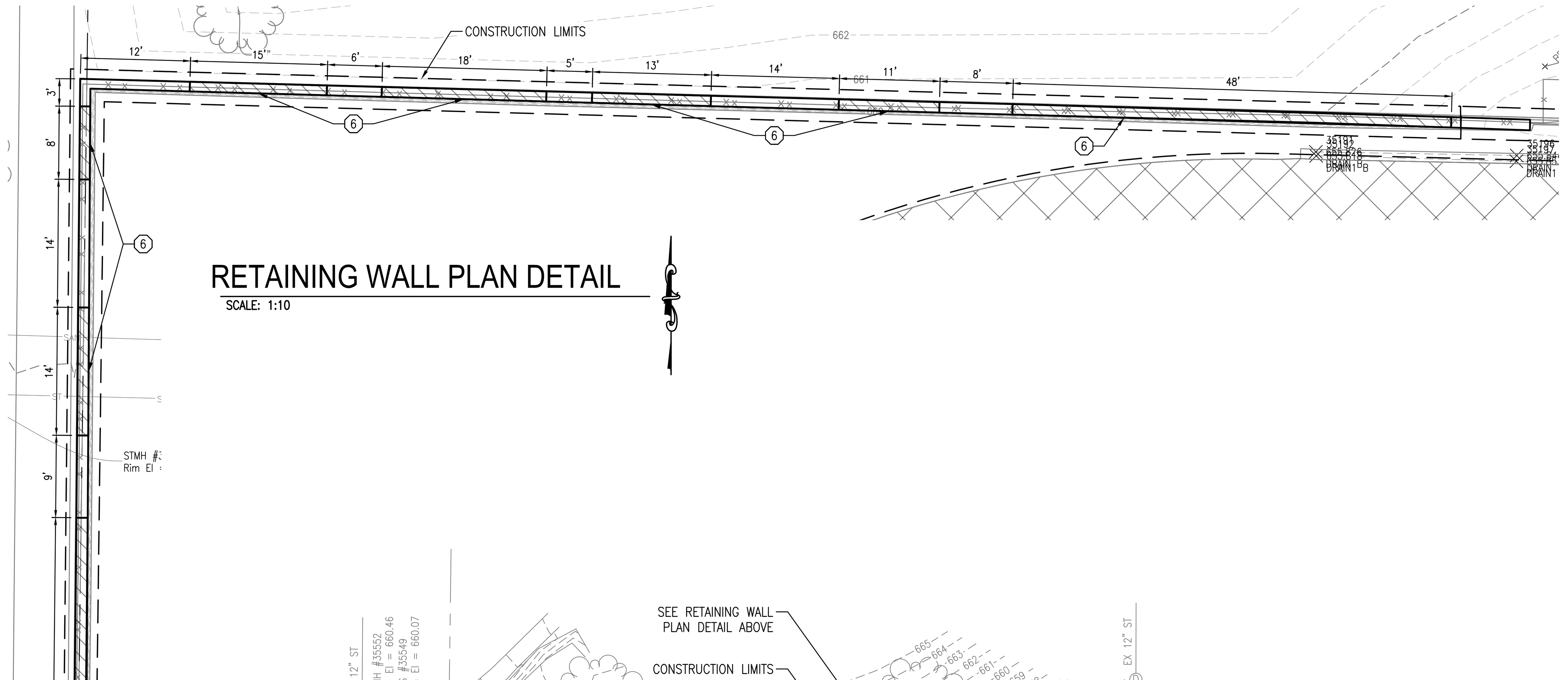
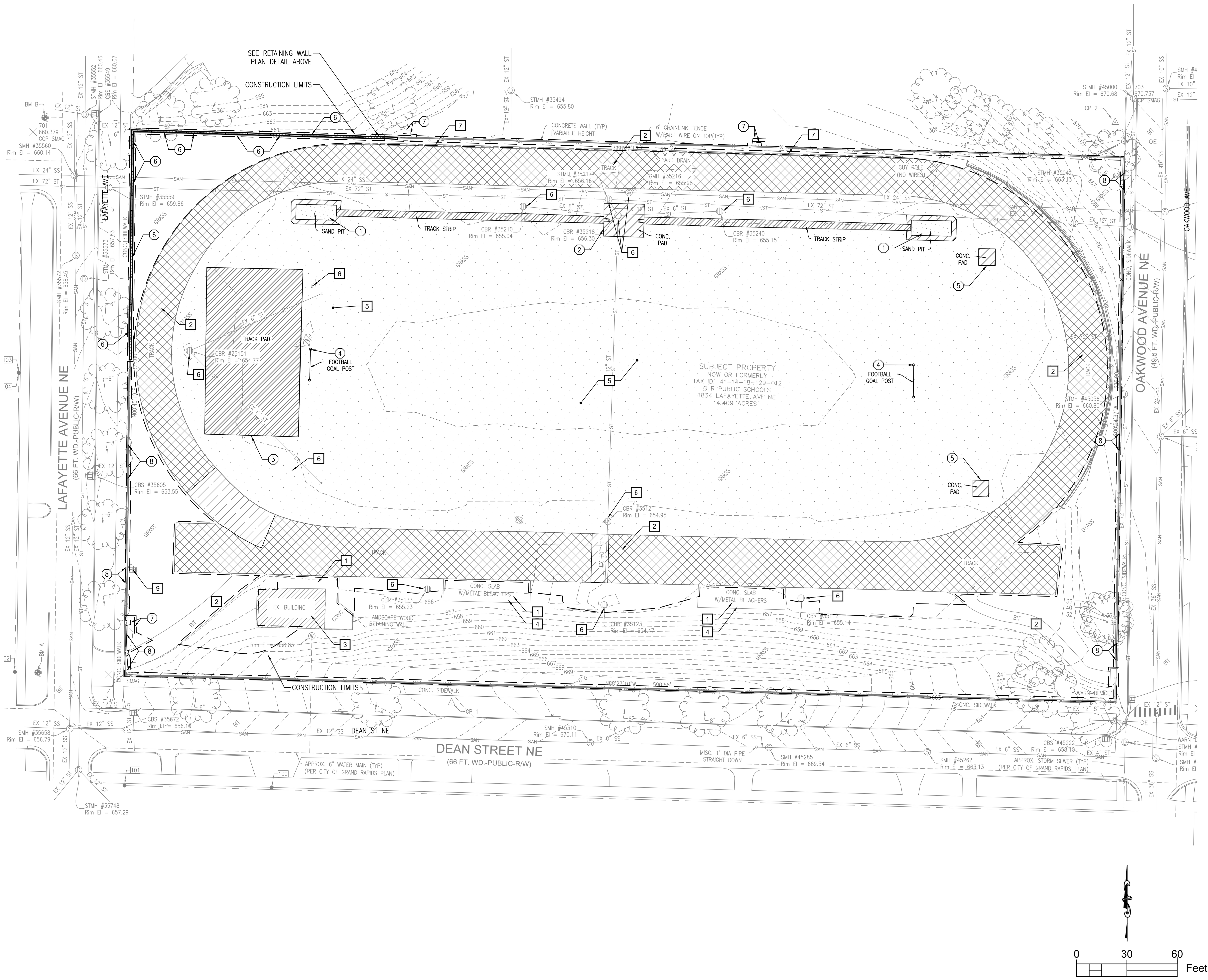
RETAINING WALL PLAN DETAIL

SCALE: 1:10





DEMOLITION LEGEND

— — —	CONSTRUCTION LIMITS
	REMOVE EXISTING RUBBERIZED SURFACE, COMPLETE
	REMOVE EXISTING RUBBERIZED SURFACE AND COLD MILL 1.5" OF EXISTING HMA PAVEMENT
	REMOVE EXISTING RUBBERIZED SURFACE AND HMA PAVEMENT (FULL–DEPTH)
	STRIP EXISTING SAND
	STRIP EXISTING TOPSOIL
	REMOVE EXISTING CONCRETE SURFACE, SAWCUT AT REMOVAL LIMITS
	REMOVE EXISTING CONCRETE RETAINING WALL SIDES AND BOTTOM, SAWCUT AT REMOVAL LIMITS

SITE PROTECTION KEY

1. PROTECT EX. CONC. TO REMAIN.
2. PROTECT EX. ASPHALT TO REMAIN.
3. PROTECT EX. BUILDING TO REMAIN.
4. PROTECT EX. BLEACHERS TO REMAIN.
5. PROTECT EX. IRRIGATION SYSTEM TO REMAIN.
6. PROTECT EX. DRAINAGE STRUCTURE TO REMAIN.
7. PROTECT EX. TRENCH DRAIN TO REMAIN.
8. PROTECT EX. FENCE TO REMAIN.
9. PROTECT EX. POLE MOUNTED ELECTRICAL METER AND UNDERGROUND ELECTRICAL SERVICE TO REMAIN.

SITE REMOVAL KEY

1. REMOVE EX. LONG JUMP SAND PIT.
2. REMOVE EX. POLE VAULT PAD.
3. REMOVE EX. HIGH JUMP PAD.
4. REMOVE & SALVAGE EX. GOAL POST.
5. REMOVE EX. SHOT PUT PAD.
6. REMOVE EX. DAMAGED CONCRETE RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAIL. INCLUDES REMOVAL OF EMBEDDED FENCE POSTS.
7. REMOVE EX. ENTRYWAY FENCING.
8. REMOVE EX. DAMAGED FENCE FABRIC AND RAILS TO NEAREST FENCEPOST.

BID ALTERNATE

DEMOLITION NOTES

1. THE INFORMATION CONTAINED ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS, SUCH AS BUT NOT LIMITED TO, UTILITIES, AND TOPOGRAPHY IS FURNISHED SOLELY AS THE BEST INFORMATION AVAILABLE AND ITS ACCURACY IS NOT GUARANTEED. THE USE OF THIS INFORMATION DOES NOT PROVIDE THE CONTRACTOR RELIEF FROM ANY RESPONSIBILITY FOR DAMAGES DUE TO ANY INACCURACIES.
2. CONTRACTOR SHALL CONTACT MISS DIG AT 811 OR (800)–482–7171 AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION TO CONFIRM THE LOCATIONS OF EXISTING BURIED UTILITIES. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF EXISTING UTILITIES, IF REQUIRED, WITH THE UTILITY OWNER AND BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND REPAIRING DAMAGE TO EXISTING UTILITIES RESULTING FROM THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF REPAIRING OR REPLACING ANY DAMAGED UTILITIES AT NO EXPENSE TO THE OWNER. THE CONTRACTOR SHALL LOCATE ANY PRIVATE UTILITIES (I.E. LIGHTING, ETC.) INCIDENTAL TO THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING HORIZONTAL AND VERTICAL CONTROL POINTS, BENCHMARKS, ETC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION STAKING AND FIELD LAYOUT. IT IS RECOMMENDED THAT TWO (2) BENCHMARKS BE USED FOR VERIFICATION OF ALL CONSTRUCTION ELEVATIONS. SET ADDITIONAL BENCHMARKS, AS NEEDED, TO COMPLY WITH THIS REQUIREMENT.
4. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE DEPTH AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY HAND DIGGING. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING NECESSARY TO COMPLETE THE WORK NOTED ON THESE PLANS. WATER REMOVED BY DEWATERING EQUIPMENT SHALL NOT BE DISPOSED OF INTO EXISTING SANITARY SEWERS.
6. CONTRACTOR SHALL CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEAN–UP OPERATIONS IN A MANNER SUCH THAT SEDIMENT GENERATED BY WIND OR WATER IS NOT DISCHARGED OFF SITE INTO THE AIR, ANY STORM SEWER OR UNDERGROUND UTILITY SYSTEM, DRAINAGE DITCH, RIVER, OR LAKE. STAGE THE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
7. CONCRETE PAVEMENT REMOVALS SHALL BE TO THE NEAREST EXISTING CONTROL JOINT OR ISOLATION JOINT BEYOND AREA INDICATED ON THE PLANS TO BE REMOVED. CONCRETE AND BITUMINOUS PAVEMENT SHALL BE SAWCUT FULL DEPTH AND SQUARE TO EX. CURB WHEN PRESENT. REMOVALS WILL BE MADE TO PROVIDE FOR PROPER GRADE TRANSITIONS AND CONNECTIONS.
8. ALL AREAS DISTURBED OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION AND TO THE SATISFACTION OF THOSE HAVING JURISDICTION, UNLESS NOTED OTHERWISE ON THE PLANS.
9. ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE SEEDED AND MULCHED. SEEDING AND MULCHING SHALL BE DONE IN ACCORDANCE WITH THE GENERAL SPECIFICATIONS.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED FOR CONSTRUCTION.
11. SAWCUT CONCRETE RETAINING WALL SIDES AND BOTTOM, FIELD VERIFY LOCATION AND EXTENDS, SEE STRUCTURAL FOR DETAILS.

SITE DEMOLITION PLAN

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

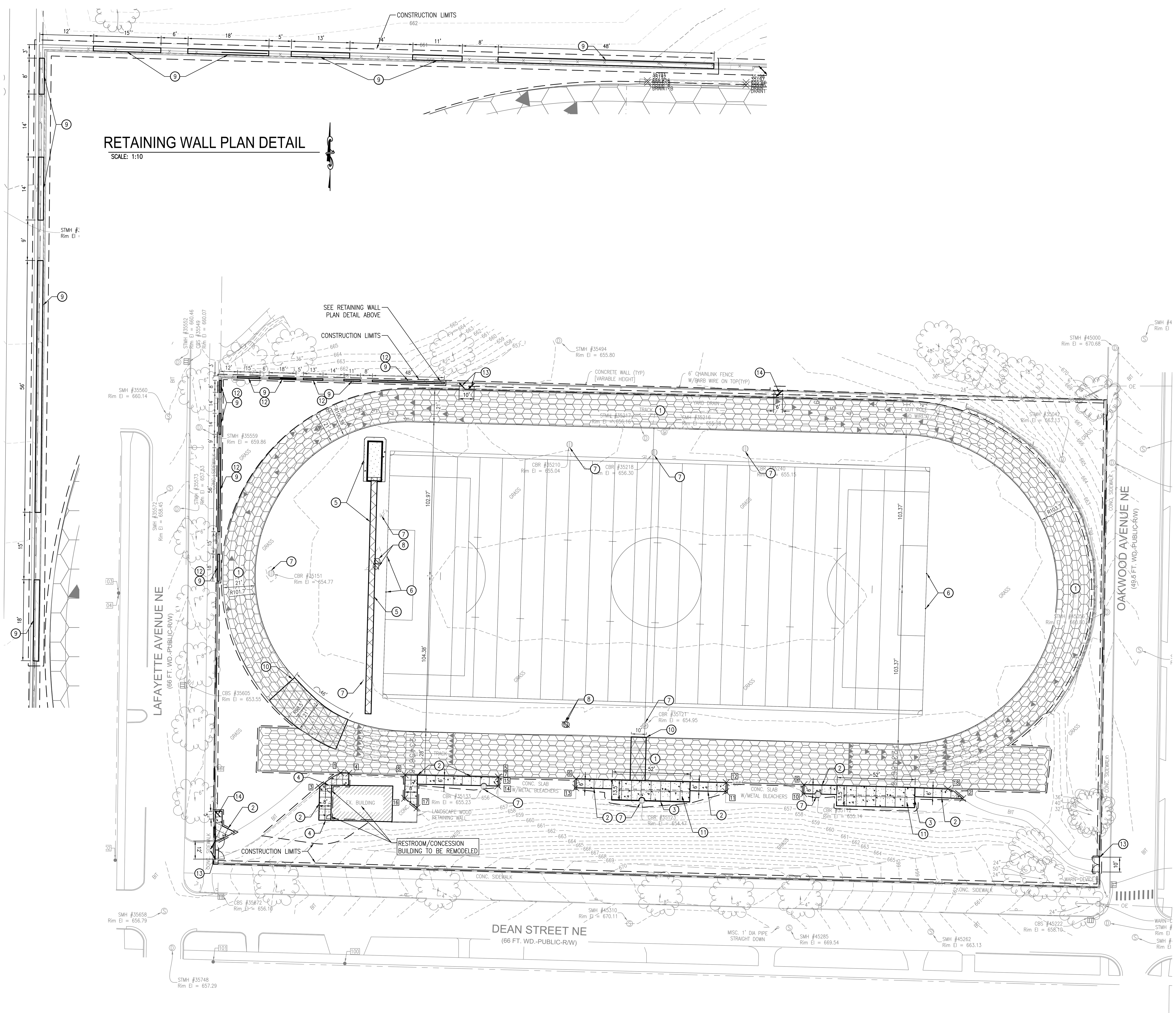
PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

# DESCRIPTION	DATE
0 CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

C-101



BENCHMARKS

B.M. A – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548015.82, E: 12776794.50
ELEV. 658.53'

B.M. B – PAINT MARK ON SW FLANGE BOLT HYDRANT
N: 548346.58, E: 12776798.69
ELEV. 663.66

0 30 60 Feet

Point Table

Point #	Northing	Easting	Description
1	548074.49	12776931.32	EPC B TRACK E
2	548057.35	12777346.28	EPB2 OC
3	548064.95	12776917.31	EPC B TRACK E
4	548074.29	12776936.84	EPC B TRACK E
5	548071.70	12777036.55	EPC E TRACK
6	548070.51	12777088.41	EPC B TRACK
7	548071.70	12777036.55	EPC E TRACK
8	548073.13	12776974.38	EPC B TRACK E
9	548066.57	12777240.37	EPC B TRACK
10	548060.57	12777240.21	EPC
11	548061.99	12777188.22	EPC
12	548067.99	12777188.50	EPC E TRACK
13	548064.52	12777088.17	EPC
14	548065.70	12777036.19	EPC
15	548071.70	12777036.55	EPC E TRACK
16	548057.57	12776974.00	EPC
17	548051.19	12776982.33	EPC E WALLB B
18	548063.76	12777336.38	EPB2 OC

POINT TABLE CODE LEGEND

EPC – EDGE OF PAVED CONCRETE
EPB2 – EDGE OF BITUMINOUS SURFACE #2
EPC B – EDGE OF PAVED CONCRETE TO BITUMINOUS SURFACE
EPC E – EDGE OF PAVED CONCRETE TO EXISTING

SITE IMPROVEMENT LEGEND

- CONSTRUCTION LIMITS
- FULL DEPTH HMA PAVEMENT AND RUBBERIZED TRACK SURFACE
- 1.5" HMA TOP COURSE AND RUBBERIZED TRACK SURFACE
- RUBBERIZED TRACK SURFACE OVER EXISTING HMA
- CONCRETE SIDEWALK
- SAND FOR LONG JUMP PIT

SITE IMPROVEMENT NOTES

1. ALL AREAS SHOWN NOT BUILT, PAVED OR OTHERWISE COVERED BY CONSTRUCTION SHALL BE HYDROMULCH SEEDED, REFER TO SPECS FOR DETAILS.
2. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE OUTSIDE THE CONSTRUCTION LIMITS SHALL BE RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN EXISTING CONDITIONS.
3. THE SITE CONTRACTOR SHALL COORDINATE WORK WITH ALL ADJACENT CONSTRUCTION BY OTHERS.
4. REFER TO THIS SHEET, C–103, FOR SITE GRADING DESIGN.
5. REFER TO SHEET, C–103. FOR DRAINAGE STRUCTURE RIM ADJUSTMENTS.
6. REFER TO SHEET, C–502, DETAIL 5, FOR RUBBERIZED TRACK SURFACE DETAILS.
7. REFER TO SHEET, C–502, DETAIL 6, FOR HMA RESURFACING SECTION DETAILS.
8. REFER TO SHEET, C–502, DETAIL 7, FOR FULL DEPTH HMA PAVEMENT SECTION DETAILS.
9. NEW ALUMINUM BLEACHERS TO CONSIST OF (4) SECTIONS OF 4–ROW, 56 SEAT W/ 8" RISE AT 21–FEET LONG. KAY PARK RECREATION OR EQUIVALENT SUPPLIER.

BID ALTERNATE

SITE IMPROVEMENT KEY

1. SYNTHETIC RUNNING TRACK SURFACE, 400 M OVAL — 5/C–502, 6/C–502, 7/C–502
2. CONCRETE SIDEWALK — 3/C–502
3. CONCRETE BLEACHER PAD — 4/C–502
4. CONCRETE ENTRANCE SLAB; REFER TO STRUCTURAL FOR DETAIL.
5. LONG JUMP RUNWAY AND SAND PIT — 8/C–502
6. INSTALL SALVAGED GOAL POSTS
7. DRAINAGE STRUCTURE RIM ADJUSTMENT
8. IRRIGATION VALVE HEIGHT ADJUSTMENT (BY OTHERS)
9. RETAINING WALL REPLACEMENT; REFER TO STRUCTURAL FOR DETAIL. INCLUDES INSTALLATION OF FENCE W/ EMBEDDED POSTS.
10. FULL DEPTH HMA PAVEMENT SECTION — 7/C–502
11. ALUMINUM BLEACHERS
12. ATTACH CHAIN LINK FENCE FABRIC AND SUPPORT RAILS TO EX. FENCEPOSTS. — 9/C–502
13. DOUBLE–LEAF SWING GATE — 9/C–502
14. SINGLE–LEAF SWING GATE — 9/C–502

BID ALTERNATE

BID ALTERNATE

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SITE IMPROVEMENTS PLAN

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE

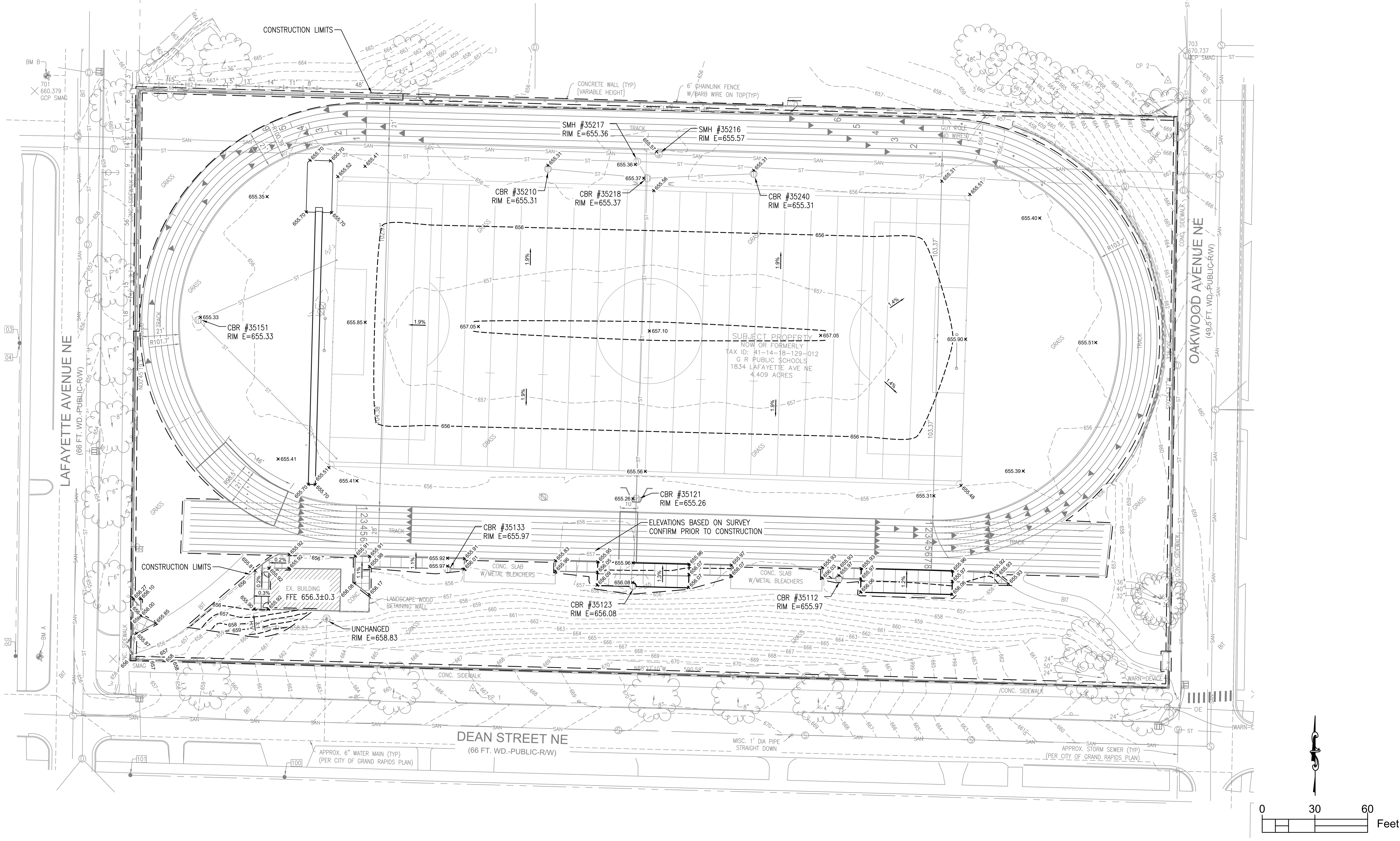
CONSTRUCTION DOCUMENTS

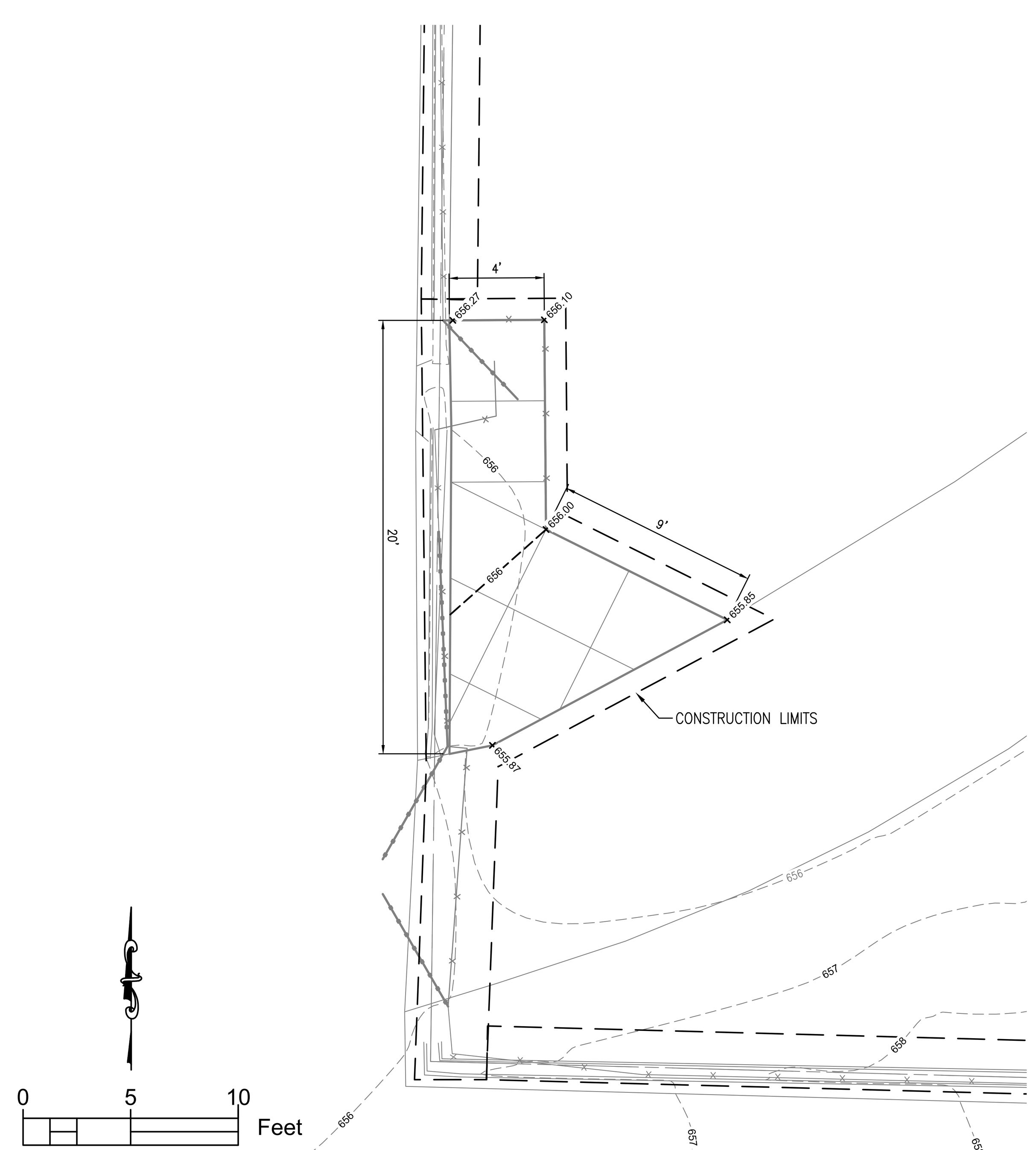
ISSUANCES

# DESCRIPTION	DATE
0 CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

C-102





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GRADING LEGEND

650.0 ×	EXISTING SPOT ELEVATION (MATCH EXISTING GRADE)
650.00 ×	PROPOSED SPOT ELEVATION
2.0% →	PROPOSED SURFACE SLOPE
- - - - -	EXISTING CONTOUR
– – – – –	PROPOSED CONTOUR
— — — —	CONSTRUCTION LIMITS

NOTE: SPOT GRADES REFLECT FINISHED SURFACES FOR PAVEMENT AND WALK. TOP OF CURB GRADES ARE INDICATED BY TC.

GRADING & DRAINAGE NOTES

1. ALL AREAS DISTURBED OUTSIDE OF THE PROJECT LIMITS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. ALL SPOT GRADES AND GRADE LINES SHOWN ON THE PLANS ARE FINISHED GRADES OF THE PROPOSED SURFACE UNLESS NOTED OTHERWISE.
3. PROPOSED GRADES AND SLOPES SHALL MATCH EXISTING GRADES AND SLOPES AT CONSTRUCTION LIMITS OR AS SHOWN ON DRAWINGS. WHERE INTERSECTING SLOPE ELEVATIONS VARY, PROVIDE SMOOTH TRANSITIONAL EDGE.
4. TRANSITIONS FROM PROPOSED SIDEWALKS AND PAVEMENTS SHALL BE UNIFORM AND SMOOTH WITHOUT ABRUPT CHANGES IN GRADE OR ALIGNMENT.
5. PROPOSED FINISHED GRADES SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM THE BUILDING AND TO A DRAINAGE STRUCTURE, IF PRESENT, OR MATCH EXISTING GRADES. INFORM ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. CONTRACTOR MAY ADJUST PLAN GRADES AS NEEDED TO FACILITATE MATCHING EXISTING PAVEMENT AND LAWN GRADES, TO PROVIDE SURFACE DRAINAGE, AND TO PREVENT PONDING OF STORM WATER.
7. CONTRACTOR SHALL FILL LOW/DEPRESSIONAL AREAS WHICH MAY OCCUR AS A RESULT OF CONSTRUCTION, SO AS TO PROVIDE CONSTANT UNIFORM SLOPES.
8. GRADE ALL WALKS AND WALKING SURFACES AS SHOWN ON THE PLANS. MAXIMUM LONGITUDINAL SLOPE OR RUNNING SLOPE WILL NOT EXCEED 5% (1v:20h). CROSS SLOPES WILL NOT EXCEED 2% (1v:50h). CONSTRUCTION TOLERANCE IS ACCOUNTED FOR IN MINIMUM AND MAXIMUM ALLOWABLE SLOPES.
9. FINAL FLOOR ELEVATION NOT INCLUDED IN SURVEY, ELEVATION EXISTING BUILDING OF 656.3±0.3 FEET.

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SITE GRADING PLAN

GRPS BRIGGS FIELD REPLACEMENT

1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE

CONSTRUCTION DOCUMENTS

ISSUANCES

# DESCRIPTION	DATE
0 CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

WE RECYCLE

THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK WHITE

THE BAR BELOW SHOWS PRIMARY COLORS

E5 DUST CONTROL

WHEN
- ON CONSTRUCTION SITES DURING PERIODS OF LOW PRECIPITATION, LOW HUMIDITY, AND HIGH TEMPERATURE OR HIGH WINDS.

WHY
- TO REDUCE DUST AND SEDIMENTATION FROM WIND AND CONSTRUCTION ACTIVITIES.

WHERE
- USE ON UNPAVED ROADWAYS, CONSTRUCTION SITES WITH VEHICLE TRAFFIC, SOIL STOCKPILE AREAS, AND GENERAL AREAS WITH UNSTABILIZED, OR FINE SOILS.

HOW
1. DUST CONTROL APPLICATIONS CAN INCLUDE WATERING, CHEMICAL DUST SUPPRESSION, GRAVEL OR ASPHALT SURFACING, TEMPORARY AGGREGATE COVER, AND HAUL TRUCK COVERS.
2. MINIMIZE LENGTH OF TIME VULNERABLE AREAS ARE EXPOSED ON CONSTRUCTION SITE.
3. IDENTIFY AND STABILIZE KEY ACCESS POINTS PRIOR TO INITIATING CONSTRUCTION.
4. QUICKLY STABILIZE EXPOSED SOIL BY VEGETATION, MULCH, SOIL EROSION CONTROL BLANKETS, SPRAY-ON ADHESIVES, SPRINKLING, OR STONE LAYERING TO MINIMIZE AREAS IN NEED OF DUST CONTROL.
5. FOLLOW MANUFACTURERS INSTRUCTIONS REGARDING APPLICATION OF ANY DUST PALLIATIVE. PAY PARTICULAR ATTENTION TO MIXING DETAILS.
6. APPLY DUST SUPPRESSANT TO SURFACES USING A PRESSURE TYPE WATER DISTRIBUTOR TRUCK EQUIPPED WITH A SPRAY SYSTEM.
7. THE NUMBER OF APPLICATIONS TO BE DETERMINED BY SITE ENGINEER.
8. IMMEDIATELY CLEAN-UP SEDIMENT TRACKED ONTO PAVED ROADS.
9. LIMIT VEHICLE TRAFFIC TO 15 MILES PER HOUR.
10. UTILIZE AGGREGATE COVER ON ACCESS, PARKING, AND PAVED ROADS.
11. KEEP CONSTRUCTION TRAFFIC DIRECTED TO STABILIZED SITE ROADWAYS WHEN POSSIBLE.

MAINTENANCE
- FREQUENT, EVEN DAILY APPLICATION MAY BE REQUIRED TO INCREASE EFFECTIVENESS.
- DO NOT OVERWATER, AS OVERWATERING MAY CAUSE EROSION.
- OIL SHOULD NOT BE USED FOR DUST CONTROL, AS IT MAY ENTER A DRAINAGEWAY THROUGH RUNOFF OR SEEPING INTO THE SOIL.

LIMITATIONS
- TO CONTINUE ITS EFFECTIVENESS, DUST CONTROL APPLICATION NEEDS TO BE APPLIED ON A REGULAR SCHEDULE.
- APPLYING TOO MUCH WATER TO SURFACE MAY CAUSE EROSION.
- SOME TYPES OF DUST SUPPRESSANTS MAY MAKE SOIL WATER REPELLANT, INCREASING RUNOFF.

E6 MULCHING

WHEN
- WHEN AREAS ARE SUBJECT TO EROSIVE SURFACE SHEET FLOWS OR SEVERE WIND.

WHY
- TEMPORARILY PROTECTS SEEDED AREAS AND SLOPES AGAINST EROSION FROM RAIN OR WIND. HOLDS SOIL MOISTURE TO ALLOW FOR SEED GERMINATION AND REDUCES WIND DESICCATION OF GERMINATED SEEDS. INHIBITS SEED CONSUMPTION BY BIRDS.

WHERE
- USE ON EXPOSED SLOPES, NEWLY SEEDED AREAS AND OTHER AREAS SUBJECT TO EROSION.

HOW
1. OTHER SURFACE RUNOFF CONTROL MEASURES SHOULD BE INSTALLED PRIOR TO MULCHING.
2. PREPARE SURFACE TO PROPER GRADE AND COMPACTION REQUIREMENTS.
3. IF TREATMENT AREA IS TO BE REVEGETATED IMMEDIATELY, SPREAD OR DRILL SEED, OR INSTALL VEGETATIVE SPRIGS INTO PLANTING SURFACE.
4. SELECT MULCH MATERIAL APPROPRIATE FOR SITE CHARACTERISTICS, INCLUDING GRADE, LEVEL OF TRAFFIC, INSTALLATION METHOD, AND ACCESSIBILITY:
   a. STRAW – MOST COMMON AND WIDELY USED MATERIAL. PROVIDES ORGANIC MATTER AS IT BREAKS DOWN. EFFECTIVENESS OF SEDIMENT REDUCTION HIGH FOR AT LEAST 3 MONTHS. SUBJECT TO WINDBLOW AND WASHOUT. FOR STRAW, APPLY A MIN OF 2 TONS/ACRE OR APPROX. 50 LBS/1000 SFT TO COVER THE SURFACE. INCREASE APPLICATION RATES 50% FOR DORMANT SEEDING.
   b. ROCK – CRUSHED STONE AND GRAVEL MAINTAIN EFFECTIVENESS INDEFINITELY IF MAINTAINED TO REPAIR COMPACTION. COVER 2-3" IN DEPTH (APPROX. 2.27 TONS/1000 SQ. FT.).
   c. WOOD CHIPS/BARK – CHIPS DECOMPOSE SLOWLY BUT MAY REQUIRE NITROGEN FERTILIZER APPLICATION TO AVOID NUTRIENT DEFICIENCY. TEND TO WASH DOWN SLOPES OVER 6% AND MAY CLOG INLET GRATES. COVER 2-3" IN DEPTH.
5. MULCHES SHOULD NOT BE APPLIED IF STANDING WATER IS PRESENT BUT MAY BE APPLIED TO WET SOIL.
6. MULCHES (PARTICULARLY STRAW) MAY NEED ANCHORING. COMMON METHODS INCLUDE CRIMPING, DISKING, OR PUNCHING INTO SOIL; COVERING WITH NETTING; SPRAYING WITH A BINDER/TACKIFIER, OR KEEPING MOIST.
7. IF USING A TACKIFIER TO ANCHOR MULCH IN PLACE, APPLY IMMEDIATELY AFTER MULCH HAS BEEN PLACED. TACKIFIERS INCLUDE:
   a. LATEX-BASE. MIX 37 GALLONS OF ADHESIVE OR THE MANUFACTURER'S RECOMMENDED RATE WITH A MINIMUM OF 620 LBS. OF RECYCLED NEWSPRINT AS A TRACER WITH 925 GALLONS OF WATER.
   b. RECYCLED NEWSPRINT. MIX 1850 LBS. OF NEWSPRINT WITH 3700 GALLONS OF WATER.
   c. WOOD FIBER. MIX 1850 LBS. OF WOOD FIBER WITH 3700 GALLONS OF WATER.
   d. GUAR GUM. MIX 120 LBS. OF DRY ADHESIVE AND A MINIMUM OF 620 LBS. RECYCLED NEWSPRINT AS A TRACER WITH 3225 GALLONS OF WATER.
   e. OTHER TACKIFIERS. MIX 240 LBS. OF DRY ADHESIVE OR THE MANUFACTURER'S RECOMMENDED RATE AND A MIN OF 620 LBS. OF RECYCLED NEWSPRINT AS A TRACER WITH 3,225 GALLONS OF WATER.

MAINTENANCE
- INSPECT MULCHED AREAS PERIODICALLY AND AFTER ANY STORM EVENT. REPAIR DAMAGED AREAS, RESEED OR REPLACE VEGETATION (IF NECESSARY), AND REPLACE LOST MULCH IMMEDIATELY.
- KEEP ERODED SOIL, VEHICULAR AND PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF AWAY FROM THE MULCHED AREA.

LIMITATIONS
- MULCH CAN BE BLOWN OR WASHED AWAY IF NOT SECURED.
- ORGANIC MULCHES, PARTICULARLY THICK APPLICATIONS OF WOOD CHIPS, CAN REDUCE NITROGEN AVAILABILITY TO DESIRED PLANTS, MAY INHIBIT GOOD SURFACE COVERAGE BY VEGETATION, AND SHOULD BE SUPPLEMENTED WITH FERTILIZER.
- TACKIFIERS ARE SLIPPERY WHEN WET. EQUIPMENT MUST BE KEPT CLEAN TO PREVENT ACCIDENTS.
- TACKIFIERS CAN MARK VEHICLES, SIGNS, OR OTHER OBJECTS IF THESE ITEMS ARE NOT PROTECTED.
- HAY MULCH SHOULD NOT BE USED, AS IT CAN CONTAIN NOXIOUS WEEDS.

E7 TEMPORARY SEEDING

WHEN
- WHEN AN AREA NEEDS STABILIZATION DURING A BREAK IN CONSTRUCTION, THIS WILL STABILIZE SOIL. PREVENTS EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING. ALLOWS RUNOFF TO INFILTRATE SOIL.

WHERE
- USED ON CONSTRUCTION AND EARTH CHANGE SITES WHERE EARTH CHANGE HAS BEEN INITIATED BUT WILL NOT BE COMPLETED WITHIN TWO NORMAL WORK WEEKS.
- A TEMPORARY MEASURE WHEN AN AREA NEEDS STABILIZATION DURING A BREAK IN CONSTRUCTION.

HOW
1. REVIEW CONSTRUCTION PHASING AND SOIL EROSION CONTROL PLAN TO IDENTIFY AREAS REQUIRING TEMPORARY SEEDING.
2. SELECT ANNUAL GRASS SEED FOR TEMPORARY COVER AREAS.
3. SEED MIXES MAY VARY, SHOULD ONLY CONTAIN ANNUAL, NON-AGGRESSIVE SPECIES, AND GENERALLY INCLUDE RYE, WHEAT, OR OAT SPECIES.
4. SEED MIXES SHOULD BE OBTAINED FROM A SEED SUPPLIER AS SEED MIXES ARE DEPENDENT ON SOIL TYPE, LIGHT, MOISTURE, AND USE APPLICATION.
5. PREPARE SEEDBED BY REMOVAL OF CONSTRUCTION/WOODY DEBRIS.
6. THEN SCARIFY OR RAKE SEEDBED.
7. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
8. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION.
9. MULCH IMMEDIATELY AFTER SEEDING ALL SLOPES, UNSTABLE SOILS, HEAVY CLAY SOILS, AND ALL AREAS ADJACENT TO WETLANDS, WATERCOURSES, OR SENSITIVE AREAS.
10. THE TIME TO SEED IS DEPENDENT ON THE CLIMATE OF THE AREA. MICHIGAN HAS THREE CLIMATIC ZONES.
11. PROTECT SEEDED AREAS FROM PEDESTRIAN/VEHICULAR TRAFFIC.
12. DIVERT CONCENTRATED FLOWS AWAY FROM SEEDED AREA UNTIL VEGETATION IS ESTABLISHED.
13. INSPECT TEMPORARY SEEDED AREAS WEEKLY AND FOLLOWING EACH RAIN EVENT UNTIL FINAL GRADING AND STABILIZATION ACTIVITIES ARE COMPLETED.
14. MUST BE FOLLOWED BY PERMANENT SEEDING.

WHY
- SEEDS NEED ADEQUATE TIME TO ESTABLISH.
- MAY NOT BE APPROPRIATE IN AREAS WITH FREQUENT TRAFFIC.
- SEEDED AREA MAY REQUIRE IRRIGATION IN DRY PERIODS.

TEMPORARY SEEDING DATES

Seed Type	Zone 1 Lower Peninsula (South of U.S. 10)	Zone 2 Lower Peninsula (North of U.S. 10)	Zone 3 Upper Peninsula	Amount per 1,000 Sft	Amount
Oats, barley	4/1 – 9/15	4/15 – 8/1	5/1 –8/1	2 lbs.	96 lbs.
Annual Rye	8/1 – 10/15	8/1 – 10/10	8/1 – 11/1	3 lbs.	120 lbs.
Wheat	9/20 – 10/15	9/10 – 10/10	9/10 – 10/1	3 lbs.	120 lbs.
Buckwheat	6/1 – 7/15	6/1 – 7/15	6/15 – 7/15	2 lbs.	75 lbs.
Perennial Ryegrass	8/1 – 10/15	6/1 – 8/1	8/1 – 10/1	1 lbs.	20 lbs.

Source: Adapted from USDA NRCS Technical Guide #342 (1999)

E8 PERMANENT SEEDING

WHEN
- TO FINALIZE STABILIZATION OF TEMPORARY SEEDING AREAS OR WHEN AN AREA NEEDS PERMANENT STABILIZATION FOLLOWING COMPLETION OF CONSTRUCTION. ALSO USED WHEN VEGETATIVE ESTABLISHMENT CAN CORRECT EXISTING SOIL EROSION OR SEDIMENTATION PROBLEM.
- WITHIN 5 DAYS OF FINAL GRADE.

WHY
- TO STABILIZE SOIL AND PREVENT OR REDUCE SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.

WHERE
- USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE PERMANENT VEGETATIVE STABILIZATION.

HOW
1. REVIEW SESC PLAN AND CONSTRUCTION PHASING TO IDENTIFY AREAS IN NEED OF PERMANENT VEGETATIVE STABILIZATION.
2. SELECT PERENNIAL GRASS AND GROUND COVER FOR PERMANENT COVER.
3. SEED MIXES VARY. HOWEVER, THEY SHOULD CONTAIN NATIVE SPECIES.
4. SEED MIXES SHOULD BE SELECTED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT, MOISTURE, USE APPLICATIONS, AND NATIVE SPECIES CONTENT.
5. SOIL TESTS SHOULD BE PERFORMED TO DETERMINE THE NUTRIENT AND PH LEVELS IN THE SOIL. THE PH MAY NEED TO BE ADJUSTED TO BETWEEN 6.5 AND 7.0.
6. PREPARE A 3-5" DEEP SEEDBED, WITH THE TOP 3-4" CONSISTING OF TOPSOIL.
7. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
8. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. SEED MAY BE BROADCAST BY HAND, HYDROSEEDING, OR BY USING MECHANICAL DRILLS.
9. MULCH IMMEDIATELY AFTER SEEDING.
10. DORMANT SEED MIXES ARE FOR USE AFTER THE GROWING SEASON, USING SEED WHICH LIES DORMANT IN THE WINTER AND BEGINS GROWING AS SOON AS SITE CONDITIONS BECOME FAVORABLE.
11. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.
12. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDED AREA UNTIL VEGETATION IS ESTABLISHED.

MAINTENANCE
- INSPECT WEEKLY AND WITHIN 24 HOURS FOLLOWING EACH RAIN EVENT IN THE FIRST FEW MONTHS FOLLOWING INSTALLATION TO BE SURE SEED HAS GERMINATED AND PERMANENT VEGETATIVE COVER IS BEING ESTABLISHED.
- ADD SUPPLEMENTAL SEED AS NECESSARY.

LIMITATIONS
- SEEDS NEED ADEQUATE TIME TO ESTABLISH.
- MAY NOT BE APPROPRIATE IN AREAS WITH FREQUENT TRAFFIC.
- SEEDED AREAS MAY REQUIRE IRRIGATION DURING DRY PERIODS.
- SEEDING SUCCESS IS SITE SPECIFIC, CONSIDER MULCHING OR SODDING WHEN NECESSARY.

SEEDING WINDOW

Type of Seeding	Planting Zones: Zone 1 Lower Peninsula (South of U.S. 10)	Zone 2 Lower Peninsula (North of U.S. 10)	Zone 3 Upper Peninsula
Permanent Seeding	4/15 – 10/15	5/1 – 10/1	5/1 – 9/20
Dormant Seeding*	11/15 – Freeze	11/01 – Freeze	11/1 – Freeze

SOURCE: ADAPTED FROM MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION

SEEDING DATES

Description	Planting Zones: Zone 1 Lower Peninsula (South of U.S. 10)	Zone 2 Lower Peninsula (North of U.S. 10)	Zone 3 Upper Peninsula
With Irrigation or Mulch	4/1 – 8/1	5/1 – 9/20	5/1 – 9/10
Spring Without Irrigation or Mulch	4/1 – 5/20	5/1 – 6/10	5/1 – 6/15
Fall Without Irrigation or Mulch	8/10 – 10/1	8/1 – 9/20	8/1 – 9/20
Dormant Seeding*	11/1 – Freeze	10/25 – Freeze	10/25 – Freeze

SOURCE: ADAPTED FROM USDA NRCS TECHNICAL GUIDE #342 (1999)

* DORMANT SEEDING IS FOR USE IN THE LATE FALL AFTER THE SOIL TEMPERATURE REMAINS CONSISTENTLY BELOW 50° F, AND PRIOR TO THE GROUND FREEZING. THIS PRACTICE IS APPROPRIATE IF CONSTRUCTION ON A SITE IS COMPLETED IN THE FALL BUT THE SEED WAS NOT PLANTED PRIOR TO RECOMMENDED SEEDING DATES. NO SEED GERMINATION WILL TAKE PLACE UNTIL SPRING. A COOL SEASON ANNUAL GRASS MAY BE ADDED IN AN ATTEMPT TO HAVE SOME FALL GROWTH.
* MULCH MUST BE USED WITH DORMANT SEED.
* DO NOT SEED WHEN THE GROUND IS FROZEN OR SNOW COVERED.
* DO NOT USE A DORMANT SEED MIX ON GRASSED WATERWAYS.

GENERAL NOTES

1. THIS PROPERTY IS SUBJECT TO A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT THRU THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES). THE CONTRACTOR SHALL SUBMIT THE PERMIT APPLICATION AND OBTAIN THIS PERMIT. THE CONTRACTOR SHALL PROVIDE TEMPORARY STORMWATER POLLUTION CONTROLS SHOWN ON THE DRAWINGS., COMPLY WITH ANY/ALL PERMIT CONDITIONS AND IS RESPONSIBLE TO PROVIDE ANY/ALL FEES/BONDS/INSURANCE THAT MAY BE REQUIRED. COMPLY WITH ALL BEST MANAGEMENT PRACTICES, GENERAL REQUIREMENTS, PERFORMANCE REQUIREMENTS, REPORTING REQUIREMENTS AND ALL OTHER MISCELLANEOUS APPURTENANCES.
2. IF THE PROPERTY SUBJECT TO THIS SOIL EROSION AND SEDIMENTATION CONTROL PERMIT IS TRANSFERRED, THE PERMIT, INCLUDING ALL PERMIT OBLIGATIONS, ARE TRANSFERRED WITH THE PROPERTY ALONG WITH THE RESPONSIBILITY FOR ANY VIOLATIONS OF THE PERMIT THAT EXIST ON THE DATE OF THE TRANSFER OF THE PROPERTY. IF A PARCEL OF THE PROPERTY, BUT NOT THE ENTIRE PROPERTY IS TRANSFERRED, THE PERMIT OBLIGATIONS AND CONDITIONS WITH RESPECT TO THAT PARCEL ARE TRANSFERRED, BUT NOT THE PERMIT; ALONG WITH THE RESPONSIBILITY FOR ANY VIOLATIONS OF THE PERMIT WITH RESPECT TO THAT PARCEL THAT EXIST ON THE DATE OF THE TRANSFER OF THE PARCEL. NOTICE OF PROPERTY OR PARCEL TRANSFERS SHALL BE SUBMITTED TO THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) PRIOR TO TRANSFER AND SHALL OTHERWISE BE IN COMPLIANCE WITH MCL 324.9112. MAINTENANCE RESPONSIBILITIES SHALL BECOME PART OF ANY SALES AGREEMENTS FOR THE LAND ON WHICH THE PERMANENT SESC MEASURES ARE LOCATED. RESUBMISSION SHALL ADDRESS THESE ISSUES.
3. THE LANDOWNER (PERMITTEE), CONTRACTOR(S), AND ANY AGENT INVOLVED IN OBTAINING OR EXERCISING AND PERFORMING THE EARTH DISTURBANCE WORK AUTHORIZED BY A SOIL EROSION PERMIT, ARE ALL HELD RESPONSIBLE TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH ALL APPROVED PLANS, SPECIFICATIONS, AND CONDITIONS CONTAINED AND PERMITTED THEREIN. PRIOR TO INITIATING EARTH DISTURBANCE AUTHORIZED THEREIN, THE PERMITTEE IS REQUIRED TO PROVIDE A COPY OF THE PERMIT AND APPROVED SESC PLAN TO ANY CONTRACTOR(S) AND AGENTS INVOLVED WITH EARTH DISTURBANCE WORK. THE CONTRACTOR(S) AND AGENTS ARE REQUIRED TO PROVIDE A COPY OF THE PERMIT AND APPROVED SESC PLAN TO CALL SUBCONTRACTORS INVOLVED WITH EARTH DISTURBANCE WORK.
4. APPROVAL OF THIS SOIL EROSION PERMIT DOES NOT AUTHORIZE ANY EARTH DISTURBANCE ACTIVITY OFF-SITE, INCLUDING BUT NOT LIMITED TO REMOVAL OF EXCAVATED MATERIAL. SHOULD IT BECOME NECESSARY THAT EXCAVATED MATERIAL FROM THIS SITE NEEDS TO BE DEPOSITED OFF-SITE, THAT MATERIAL SHALL NOT BE REMOVED UNTIL THE DEPOSIT LOCATION AND RESULTING EARTH DISTURBANCE IS EVALUATED BY THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) FOR A SOIL EROSION PERMIT, AND, IF NECESSARY, THOSE SOIL EROSION PERMITS HAVE BEEN ISSUED. THE PERMITTEE IS TO INFORM THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) OF THE NEED TO REMOVE SOILS FROM THE SITE IN A TIMELY MANNER SO THAT OTHER PERMITS, IF NEEDED, CAN BE ISSUED.
5. IN ACCORDANCE WITH RULE 1709 PROMULGATED UNDER THE AUTHORITY OF PART 91, SOIL EROSION AND SEDIMENTATION CONTROL, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, AND IN ADDITION TO THE INFORMATION ON THE ATTACHED PLAN(S) AND SPECIAL CONDITIONS, THE FOLLOWING GENERAL CONDITIONS APPLY TO THE EARTH CHANGED AUTHORIZED BY THIS PERMIT:

- DESIGN, CONSTRUCT, AND COMPLETE EARTH CHANGE IN A MANNER THAT LIMITS THE EXPOSED AREA OF DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.
- REMOVE SEDIMENT CAUSED BY ACCELERATED SOIL EROSION FROM RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH CHANGE.
- TEMPORARY OR PERMANENT CONTROL MEASURES SHALL BE DESIGNED AND INSTALLED TO CONVEY WATER AROUND, THROUGH, OR FROM THE EARTH CHANGE AT A NON-EROSIVE VELOCITY.
- INSTALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES BEFORE OR UPON COMMENCEMENT OF THE EARTH CHANGE ACTIVITY AND MAINTAIN THE MEASURES ON A DAILY BASIS. REMOVE TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AFTER PERMANENT SOIL EROSION MEASURES ARE IN PLACE AND THE AREA IS STABILIZED. ("STABILIZED" MEANS THE ESTABLISHMENT OF VEGETATION OR THE PROPER PLACEMENT, GRADING, OR COVERING OF SOIL TO ENSURE ITS RESISTANCE TO SOIL EROSION, SLIDING, OR OTHER EARTH MOVEMENT.)
- COMPLETE PERMANENT SOIL EROSION CONTROL MEASURES FOR THE EARTH CHANGE WITHIN FIVE CALENDAR DAYS AFTER FINAL GRADING OR UPON COMPLETION OF THE FINAL EARTH CHANGE. IF IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE THE EARTH CHANGE, THEN MAINTAIN TEMPORARY SOIL AND SEDIMENTATION CONTROL MEASURES UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL VERIFY PROPER INSTALLATION OF THE SESC MEASURES PRIOR TO COMMENCEMENT OF EARTH DISTURBANCE AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- POST THE ENCLOSED SOIL EROSION AND SEDIMENTATION POLLUTION CONTROL PERMIT ON SITE SO THAT IT IS CLEARLY VISIBLE FROM A PUBLIC ROAD UNTIL THE LAND IS PERMANENTLY STABILIZED AND THE PERMIT IS CLOSED.
- THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) SHALL BE COPIED THE NPDES WEEKLY LOG REPORTS BY THE SECOND AND FOURTH FRIDAY EACH MONTH UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE PERMIT IS CLOSED.
- THE PRIME CONTRACTOR SHALL PROVIDE CONTACT INFORMATION OF ALL CONTRACTORS WHO WILL BE DISTURBING THE EARTH WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL PROVIDE THE ON-SITE CONTACT PERSON, OFFICE LOCATION, MOBILE PHONE NUMBER AND EMAIL ADDRESS TO THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES), PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE AUTHORIZED BY THE SESC PERMIT.

6. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) REQUIREMENTS AND PROJECT SPECIFICATIONS.
7. ANY EROSION OR SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS: WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
8. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ESTABLISHED. THE PERMIT WILL NOT BE CLOSED UNTIL THE TEMPORARY MEASURES HAVE BEEN REMOVED.
9. IF DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES) FOR APPROVAL.
10. THE CONTRACTOR SHALL PLACE THE TEMPORARY SILT FENCE AND CATCH BASIN SILT TRAPS PRIOR TO COMMENCING GRADING OPERATIONS.
11. INSTALL FABRIC DROP BETWEEN THE FRAME AND COVER OF ALL EXISTING YARD BASINS OR INLETS WHICH MAY BE SUSCEPTIBLE TO SEDIMENT EROSION FROM THE PROPOSED CONSTRUCTION AS SHOWN IN THESE PLANS.
12. WHILE MAINTAINING A VEGETATIVE BUFFER WHENEVER POSSIBLE, STRIP AND STOCKPILE TOPSOIL ABOVE AREAS OF PROPOSED EXCAVATION OR GRADING FOR LATER USE ON SITE. PLACE STOCKPILED TOPSOIL IN AREAS WHICH ARE NEITHER SUBJECT TO HIGH RUNOFF NOR ALONG STEEP SLOPES. SEED AND MULCH STOCKPILES IMMEDIATELY TO PREVENT WIND BLOWN SEDIMENT POLLUTION AND EXCESSIVE DUST.
13. EXCAVATE FOR PROPOSED SITE AND UTILITY CONSTRUCTION AS NECESSARY. DO NOT EXPOSE AREAS FAR IN ADVANCE OF THE PROPOSED CONSTRUCTION FOR THAT AREA. ROUGHEN AND SCARIFY EXPOSED SURFACES TO REDUCE RUNOFF VELOCITY AND SEDIMENTATION. MAINTAIN VEGETATION WHENEVER POSSIBLE TO PROVIDE A NATURAL BUFFER.
14. AFTER COMPLETION OF PROPOSED DRAINAGE STRUCTURES, INSTALL TEMPORARY SEDIMENT BARRIERS WITH DEBRIS BAG. DEBRIS BAGS SHALL BE "SILTSACK" BY ACF OR "BASIN BAG" BY CONSTRUCTION SUPPLY INC., OR EQUAL.
15. TOPSOIL, SEED, FERTILIZE & MULCH EXPOSED AREAS WITHIN 5 CALENDAR DAYS OF ACHIEVING FINAL GRADE TO PROTECT AND RESTORE PERMANENT VEGETATION.
16. IN NON-TRAFFIC AREAS WHERE THE ROUGH GRADING OPERATIONS HAVE BEEN STOPPED BY THE CONTRACTOR FOR A PERIOD LONGER THAN 3 WORKING DAYS, THE CONTRACTOR SHALL STABALIZE THE AREA WITH APPLIED POLYMER SYSTEMS, INC., "SILT STOP" OR APPROVED EQUAL.
17. THE CONTRACTOR SHALL WATER EXPOSED GROUND, AS REQUIRED, TO CONTROL AIRBORNE PARTICULATE MATTER.
18. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL PERMANENT VEGETATION IS ESTABLISHED. REMOVE ACCUMULATED SEDIMENT FROM ALL DRAINAGE AND UTILITY STRUCTURES.
19. THE SITE WILL BE PERIODICALLY INSPECTED BY THE STAFF OF THE CITY OF GRAND RAPIDS (LAND USE DEVELOPMENT SERVICES). THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE RULES AND REGULATIONS OF THAT OFFICE.
20. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
21. AFTER EACH RAINFALL EVENT, CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES AND CLEAN AND REPLACE CATCH BASIN FILTERS.
22. DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTORS. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST BECOMES A PROBLEM.
23. ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR NO LESS THAN ON A DAILY BASIS. ALL MUD, DIRT AND DEBRIS TRACKED OR SPILLED ONTO PAVED SURFACES WITHIN THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
24. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UPON FINAL APPROVAL OF ALL REVIEWING AGENCIES AND THE OWNER.
25. UPON COMPLETION OF THE CONSTRUCTION PROJECT AND REMOVAL OF THE TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES, THE OWNER WILL OPERATE AND MAINTAIN THE PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL DEVICES, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING ITEMS:

- DRIVES, CURB AND GUTTER, AND OTHER HARD SURFACES
- ON SITE DITCHES AND SWALES

THE OWNER SHALL BE RESPONSIBLE FOR THE CONTINUED MAINTENANCE PROGRAM. THE MAINTENANCE PROGRAM SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

- LAWN AREAS – MOWING OF LAWNS AND PERIODIC WEED CONTROL AND FERTILIZING, ONCE VEGETATION HAS BEEN ESTABLISHED. LAWN AREAS TO BE MOWED BY CONTRACTOR UNTIL VEGETATION IS STABILIZED AND ESTABLISHED.
- DRIVES, CURB AND GUTTER, AND OTHER HARD SURFACES – PERIODIC INSPECTION AND REPAIR OF DAMAGED SURFACES.
- ON SITE DITCHES AND SWALES – PERIODIC INSPECTION, REPAIR OF ERODED AREAS IF ANY, AND RE-ESTABLISHMENT OF TURF

26. THE CITY HAS SUBMITTED AN EGLE JOINT PERMIT APPLICATION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.

RESTORATION REQUIREMENTS:

TEMPORARY SEED SHALL BE MDOT TUF SEED MIXTURE APPLIED AT 220# PER ACRE.

FERTILIZER SHALL BE MDOT CLASS A APPLIED AT 228 POUNDS OF CHEMICAL FERTILIZER NUTRIENT PER ACRE.

STRAW MULCH BLANKETS SHALL BE AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL.

MULCH BLANKETS IN DITCH LINES OR ON SIDE SLOPES SHALL BE S150BN – 10 OUNCES PER SQUARE YARD.

MULCH BLANKETS IN ALL OTHER AREAS SHALL BE S75BN – 9 OUNCES PER SQUARE YARD.

MULCH BLANKET END OVERLAP SHALL BE 6 INCHES (MIN) AND SIDE EDGE OVERLAP SHALL BE 2 INCHES (MIN).

LEGAL DESCRIPTION
LAND SITUATED IN THE CITY OF GRAND RAPIDS, COUNTY OF KENT, STATE OF MICHIGAN, AND IS DESCRIBED AS FOLLOWS:

PART OF NE 1/4 OF NW 1/4 OF SEC 18 T7N R11W COM AT NW COR OAKWOOD AVE & DEAN ST TH W TO E LINE LAFAYETTE AVE N 325 FT E TO W LINE OAKWOOD AVE TH S 325 FT TO BEG.

CONSTRUCTION SCHEDULE

YEAR: 2025

SESC SCHEDULE AND SEQUENCING	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
PLACE AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES						■	■	■	■	■	■	
SITE DEMOLITION (CLEARING/ROUGH GRADES)						■						
INSTALL FIELD AND TRACK								■	■			
REFURBISH RESTROOM BUILDING							■					
INSTALL PAVEMENT AND SIDEWALKS								■	■			
FINAL SITE GRADING AND SITE RESTORATION										■		
INSTALL PERMANENT CONTROL MEASURES										■	■	
REMOVE TEMPORARY EROSION CONTROL MEASURES											■	

SOIL TYPES
81B – URBAN LAND-SPINKS COMPLEX, 0 TO 8 PERCENT
81C – URBAN LAND-SPINKS COMPLEX, 8 TO 15 PERCENT
81D – URBAN LAND-SPINKS COMPLEX, 15 TO 25 PERCENT

DISTANCE TO NEAREST WATER BODY
PROJECT IS APPROXIMATELY 2,700 FT EAST OF THE GRAND RIVER.

C2AE
(866) 454-3923 | WWW.C2AE.COM

SESC NOTES

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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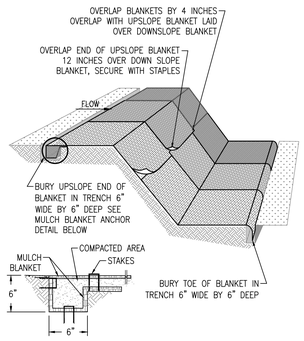
BRYAN WALKER
DESIGNED BY: -
CHECKED BY: - APPROVED BY: -

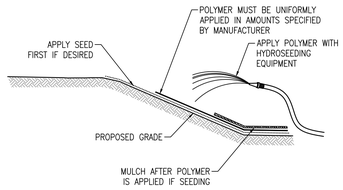
E9 MULCH BLANKETS



MULCH BLANKET ANCHOR DETAIL

NOTES
1. PLACE MULCH BLANKET PARALLEL TO FLOW AND ANCHOR SECURELY.
2. WHEN BLANKETS ARE USED IN FLOWING DITCH, BLANKETS SHOULD NOT OVERLAP IN DITCH CENTER PARALLEL TO FLOW.
3. STAPLES INSTALLED/SECURED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

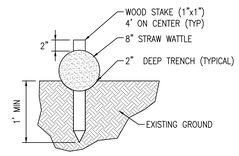
ES40 POLYMERS



NOTES:
- NOT FOR USE IN CHANNELS.
- ONLY THE ANIONIC FORM OF POLYACRYLAMIDE (PAM) SHALL BE USED. THE CATIONIC FORM OF PAM IS TOXIC TO WILDLIFE AND PLANTS AND SHALL NOT BE USED.
- WHEN USED ALONE, NOT IN COMBINATION WITH SEED OR MULCH, POLYMERS SHOULD ONLY BE USED ON SLOPES 1:3 OR FLATTER.

MAINTENANCE
- SINCE POLYMER IS NORMALLY ONLY APPLIED ONCE, MAINTENANCE IS MINIMAL.

ES4 STRAW WATTLES

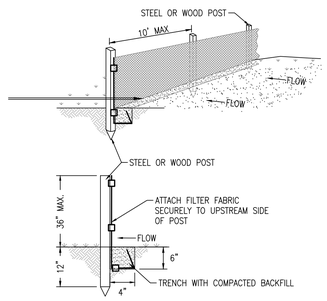


STRAW WATTLE DETAIL

NOTES:
1. STRAW WATTLES SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR STRAW WATTLE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 5" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

MAINTENANCE
- INSPECT FREQUENTLY AND IMMEDIATELY AFTER EACH STORM EVENT. CHECK SEVERAL TIMES DURING PROLONGED STORM EVENTS. IF NECESSARY, REPAIR IMMEDIATELY.
- IF THE SEDIMENT HAS REACHED 1/3 THE HEIGHT OF THE FENCE, THE SOIL SHOULD BE REMOVED AND DISPOSED OF IN A STABLE UPLAND SITE.
- THE STRAW WATTLE SHOULD BE RE-INSTALLED IF WATER IS SEEPING UNDERNEATH IT OR IF THE STRAW WATTLE HAS BECOME INEFFECTIVE.
- STRAW WATTLE SHOULD BE REMOVED ONCE VEGETATION IS ESTABLISHED AND UP-SLOPE AREA HAS STABILIZED.

S51 SILT FENCE

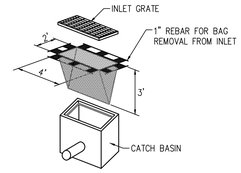


TRENCH DETAIL

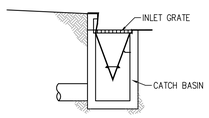
NOTES:
1. PLACE SILT FENCE ON SLOPE CONTOURS TO MAXIMIZE EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. MAXIMUM STORAGE HEIGHT: 9"
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. 10' MAX. SPACING WITH WIRE SUPPORTED FENCE, 6' MAX SPACING WITHOUT WIRE SUPPORTED FENCE.

MAINTENANCE
- INSPECT FREQUENTLY AND IMMEDIATELY AFTER EACH STORM EVENT. CHECK SEVERAL TIMES DURING PROLONGED STORM EVENTS. IF NECESSARY, REPAIR IMMEDIATELY.
- IF THE SEDIMENT HAS REACHED 1/3 THE HEIGHT OF THE FENCE, THE SOIL SHOULD BE REMOVED AND DISPOSED OF IN A STABLE UPLAND SITE.
- THE FENCE SHOULD BE RE-INSTALLED IF WATER IS SEEPING UNDERNEATH IT OR IF THE FENCE HAS BECOME INEFFECTIVE.
- SILT FENCE SHOULD BE REMOVED ONCE VEGETATION IS ESTABLISHED AND UP-SLOPE AREA HAS STABILIZED.

S58 INLET PROTECTION – FABRIC DROP



ISOMETRIC VIEW



INSTALLATION DETAIL

MAINTENANCE
- DROP INLET FILTERS SHOULD BE INSPECTED ROUTINELY AND AFTER EACH RAIN EVENT.
- DAMAGED FILTER BAGS SHOULD BE REPLACED.
- CLEAN AND/OR REPLACE FILTER BAG WHEN 1/2 FULL.
- REPLACE CLOGGED FABRIC IMMEDIATELY.
- IF NEEDED, INITIATE REPAIRS IMMEDIATELY UPON INSPECTION.
- REMOVE INLET PROTECTION WHEN AREAS ARE STABILIZED AND STREETS HAVE BEEN SWEPT.

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SESC DETAILS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

C-501

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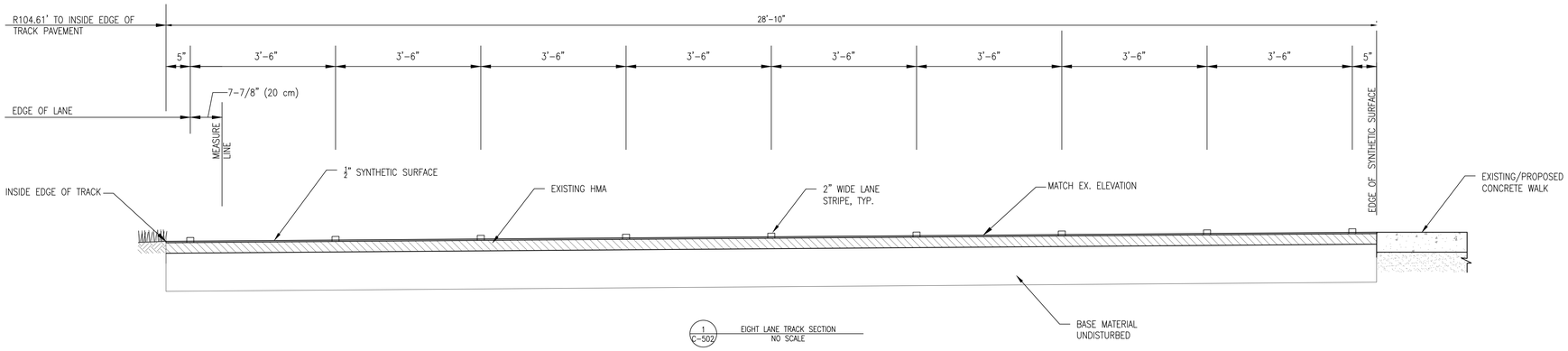
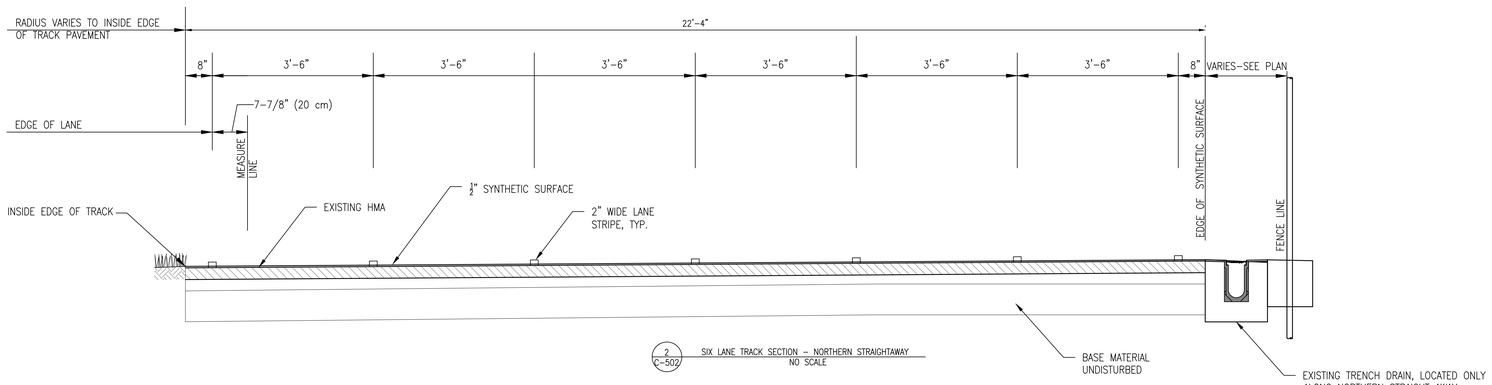
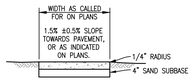
BRYAN.WALKER
DESIGNED BY: --
CHECKED BY: -- APPROVED BY: --



1 C-502 EIGHT LANE TRACK SECTION
NO SCALE

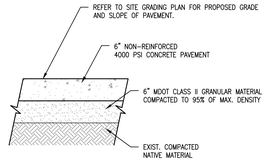


2 C-502 SIX LANE TRACK SECTION – NORTHERN STRAIGHTAWAY
NO SCALE

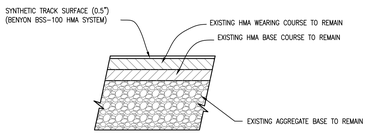


NOTES:
1. SIDEWALK TRANSVERSE SLOPE MAY VARY FROM ZERO TO 2% TO MEET SITE CONDITIONS. WHEN TRANSVERSE SLOPE IS LESS THAN 1%, LONGITUDINAL DRAINAGE MUST BE PROVIDED.
2. SIDEWALK SHALL BE 4" MIN. THICKNESS, AND 6" MIN. THICKNESS FOR VEHICLE TRAFFIC.

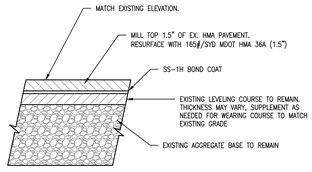
3 C-502 CONCRETE SIDEWALK
NO SCALE



4 C-502 NON-REINFORCED CONCRETE PAVEMENT
NO SCALE

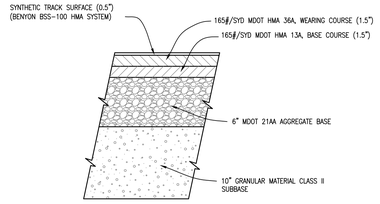


5 C-502 TRACK REPLACEMENT SECTION
NO SCALE



NOTES:
1. THE BITUMINOUS MATERIAL SHALL BE PRODUCED USING P058-28 ASPHALT CEMENT.
2. THE MIX DESIGNS SHALL TARGET 3.0 PERCENT AIR VOIDS.
3. ALL BITUMINOUS MATERIAL SHALL BE COMPACTED TO A DENSITY OF 94 TO 97 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE RICE METHOD. A BOND COAT OF SS-1H EMULSION SHALL BE REQUIRED BETWEEN THE LEVELING AND WEARING COURSE AND BETWEEN LIFTS IN THE LEVELING COURSE. THE BOND COAT SHALL BE APPLIED IN A UNIFORM MANNER OVER THE SURFACE AT A RATE OF 0.1 GALLONS PER SQUARE YARD.
4. JOINTS IN THE WEARING COURSE SHALL BE OFFSET A MINIMUM OF 12 INCHES FROM THE JOINTS IN THE LEVELING COURSE.

6 C-502 HMA RESURFACING SECTION
NO SCALE



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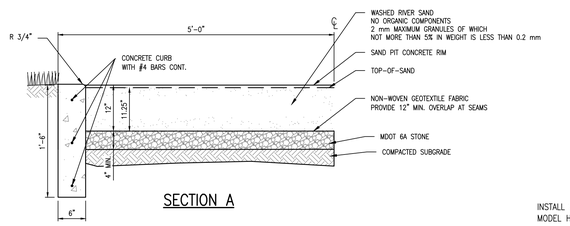
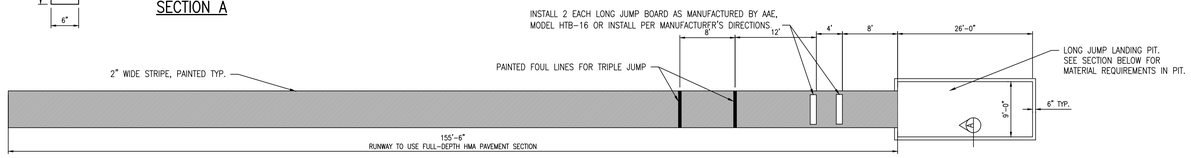
4. JOINTS IN THE WEARING COURSE SHALL BE OFFSET A MINIMUM OF 12 INCHES FROM THE JOINTS IN THE LEVELING COURSE.

7 C-502 FULL-DEPTH HMA PAVEMENT SECTION
NO SCALE



SECTION A

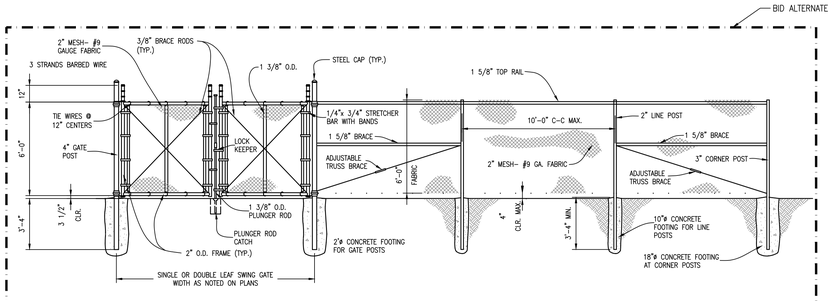


NOTE: THE LONG JUMP RUNWAY SHALL BE CONSTRUCTED AT A CONSTANT ELEVATION, ±0.01', WITH A TRANSVERSE SLOPE LESS THAN 2.00%

LONG JUMP RUNWAY LAYOUT – PLAN

8 C-502 LONG JUMP RUNWAY AND SAND PIT
NO SCALE

BID ALTERNATE



9 C-502 CHAIN LINK FENCE & GATE
NO SCALE

GENERAL NOTES

1. BENCH MARKS
USE TWO BENCH MARKS FOR VERIFICATION OF GRADE FOR ALL CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ADDITIONAL BENCH MARKS AS REQUIRED TO MEET THIS REQUIREMENT.

2. EXISTING SITE IMPROVEMENTS
UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS, ALL SIDEWALKS, DRIVES, CULVERTS, DRAINAGE STRUCTURES, FENCES, AND ABOVE GROUND AND BURIED UTILITIES SHALL BE PROTECTED. ALL SUCH EXISTING UTILITIES AND IMPROVEMENTS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH LIKE MATERIAL EQUAL TO OR BETTER THAN EXISTING AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. LAWN RESTORATION
ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE HYDROMULCH SEEDED AT THE FOLLOWING RATE AND MIXTURE:

RATE=8 LBS/1000 SFT
25% PARK KENTUCKY BLUEGRASS
15% PENNLAWN CREEPING RED FESCUE
15% PENNFINE PERENNIAL RYE GRASS
20% RUGBY KENTUCKY BLUEGRASS
25% BANFF OR BRONCO KENTUCKY BLUEGRASS

WEED SEED SHALL NOT EXCEED 0.35% BY WEIGHT IN THE TOTAL AMOUNT SUPPLIED.
TOPSOIL DEPTH: 4" MINIMUM

4. UNDERGROUND UTILITIES
FOR LOCATION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.

5. EROSION CONTROL
ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS WITHIN CONTRACT LIMITS SHALL BE PROTECTED FROM INTRUSION OF SEDIMENT WITH A FILTER FABRIC SILT SACK. THE TOE OF SLOPES SHALL BE PROTECTED BY MEANS OF A SILT FENCE. ADDITIONAL ITEMS ARE NOTED ON THE CONSTRUCTION DRAWINGS.

6. SAWCUTTING PAVEMENT
EXISTING BITUMINOUS AND CONCRETE SURFACES SHALL BE SAWCUT TO THE LIMITS OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. IF THE EDGE IS DAMAGED AFTER SAWCUTTING, THE EDGE SHALL BE RECUT AS DIRECTED BY THE ENGINEER.

7. CONSTRUCTION STAKING
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING REQUIRED FOR THE CONSTRUCTION. OWNER WILL PROVIDE ELECTRONIC FILE WITH DESIGN INFORMATION, IF REQUESTED.

8. SOIL BORINGS
THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME OTHER THAN AT THE EXACT LOCATION OF THE BORINGS. THE GEOTECHNICAL REPORT IS INCLUDED IN THE APPENDIX OF THE SPECIFICATIONS

9. RECORD DRAWINGS
CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AND FURNISHING TO THE OWNER AS-BUILT LOCATIONS AND ELEVATIONS OF ALL UTILITY CONSTRUCTION PRIOR TO THE CONTRACTOR'S FINAL PAYMENT APPLICATION.

10. EXISTING UNDERGROUND UTILITIES
THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD OBSERVATIONS AND AVAILABLE SITE DESIGN DRAWINGS. NO RECORD OR "AS-BUILT" DRAWINGS ARE AVAILABLE. LOCATIONS OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE. STORM AND SANITARY SEWER LOCATIONS ARE BASED ON STRAIGHT LINE GRADES AND ALIGNMENT BETWEEN STRUCTURES. THE CONTRACTOR IS REQUIRED TO LOCATE AND PROTECT THE EXISTING UTILITIES.

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CIVIL NOTES AND DETAILS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

C-502

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BRYAN.WALKER
DESIGNED BY: --- CHECKED BY: --- APPROVED BY: ---

WE RECYCLE

THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID — BLACK / WHITE

THE BAR BELOW SHOWS PRIMARY COLORS

ABBREVIATIONS

TYPE	DESCRIPTION	TYPE	DESCRIPTION
ALT.	ALTERNATE	LG.	LONG.
ARCH.	ARCHITECTURAL	LLH.	LONG LEG HORIZONTAL
AVG.	AVERAGE	LLV.	LONG LEG VERTICAL
AFF	ABOVE FINISH FLOOR	LONG.	LONGITUDINAL
		L.P.	LOW POINT
BFF	BELOW FINISH FLOOR	MAX.	MAXIMUM
BLDG.	BUILDING	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
B.O.	BOTTOM OF	MANUF.	MANUFACTURER
BRG.	BEARING	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
		M.O.	MASONRY OPENING
CANT.	CANTILEVER	N.S.	NEAR SIDE
C.J.	CONTROL JOINT		
CLR.	CLEAR		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
CONC.	CONCRETE	OPNG.	OPENING
CONST. JT.	CONSTRUCTION JOINT	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	O.F	OUTSIDE FACE
		O.H.	OVERHANG
DIA.	DIAMETER	OHD	OVERHEAD DOOR
		O/O	OUT TO OUT
EA.	EACH	PSF	POUNDS PER SQUARE FT.
ELEC.	ELECTRICAL	PSI	POUNDS PER SQUARE IN.
ELEV./EL.	ELEVATION		
EQ.	EQUAL	REINF.	REINFORCING
E.W.	EACH WAY	REQ'D.	REQUIRED
EXIST.	EXISTING		
EXST.	EXISTING		
E.F.	EACH FACE	SIM.	SIMILAR
F.F.	FINISH FLOOR	T&B	TOP AND BOTTOM
FLR.	FLOOR	T.O.	TOP OF
FND.	FOUNDATION	T.O.F	TOP OF FOOTING
FTG.	FOOTING	T.O.W.	TOP OF WALL
F.S.	FAR SIDE	T.O.P.	TOP OF PIER
		T.O.S.	TOP OF STEEL
		TRANS.	TRANSVERSE
GA.	GAUGE	TYP.	TYPICAL
GALV.	GALVANIZED		
HDG	HOT DIPPED GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL		
H.P.	HIGH POINT	VERT.	VERTICAL
		V.S.C	VERTICAL SLOTTED CONN.
INSUL.	INSULATION	V.B.F.	VERTICAL BRACED FRAME
I.F.	INSIDE FACE		
ISO.	ISOLATION	WWF	WELDED WIRE FABRIC
		W/	WITH

REQUIRED SPECIAL INSPECTIONS (2015 MBC SECTION 1705)

REQUIRED REPORTS AND CERTIFICATES ARE TO BE SENT TO THE BUILDING OFFICIAL FROM EITHER THE OWNER OR OWNER'S AUTHORIZED AGENT IN ACCORDANCE WITH SECTION 1704.2.4	**SPECIAL INSPECTIONS TO BE PROVIDED BY APPROVED AGENCIES IN ADDITION TO INSPECTIONS BY BUILDING OFFICIAL**
SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION:	
INSPECT REINFORCING AND PLACEMENT IN ACCORDANCE WITH ACI 318. REFERENCED STANDARDS: MBC 1705.3, 1908.4	**PERIODIC**
VERIFY USE OF CORRECT MIX DESIGN. REFERENCED STANDARDS: MBC 1705.3, 1904.1, 1904.2, 1908.2, 1908.3	**PERIODIC**
PRIOR TO CONCRETE PLACEMENT, PERFORM AIR CONTENT, SLUMP, AND TEMPERATURE TESTS AND FABRICATE SPECIMENS FOR STRENGTH TESTING IN ACCORDANCE WITH ASTM C172 AND ASTM C31. REFERENCED STANDARDS: MBC 1705.3, 1908.10	**CONTINUOUS**
SPECIAL INSPECTIONS AND TESTS OF SITE AND SOIL CONDITIONS: .	
PERFORM CLASSIFICATION AND COMPACTION TESTING OF FILL MATERIALS. REFERENCED STANDARDS: MBC 1705.6	**PERIODIC**
VERIFY CONTINUOUS USE OF PROPER MATERIALS, LIFT THICKNESSES, AND COMPACTION FOR FILL PLACEMENT. REFERENCED STANDARDS: MBC 1705.6	**CONTINUOUS**
INSPECT SUBGRADE HAS BEEN PREPARED PRIOR TO PLACEMENT. REFERENCED STANDARDS: MBC 1705.6	**PERIODIC**

MASONRY SPECIAL INSPECTIONS (TMS 402/602 ACI 530/ASCE 5)

VERIFICATION OF f'm IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE. IN ADDITION, THESE TASKS AS REQUIRED BASED ON PROJECT APPLICABILITY.	**SPECIAL INSPECTIONS TO BE PROVIDED BY APPROVED AGENCIES IN ADDITION TO INSPECTIONS BY BUILDING OFFICIAL**
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	**PERIODIC**
PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC
CONSTRUCTION OF MORTAR JOINTS	PERIODIC
LOCATION OF REINFORCEMENT AND CONNECTORS	PERIODIC
PARTIAL GROUT SPACING OR FULLY GROUTED WALLS	PERIODIC
GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS	PERIODIC
PROPORTIONS OF SITE-PREPARED GROUT	PERIODIC
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS OR OTHER CONSTRUCTION	PERIODIC
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES)	PERIODIC
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	CONTINUOUS
OBSERVE PREPARATION OF GROUT AND MORTAR SPECIMENS, AND/OR PRISMS	PERIODIC

LAP CHART
4000 PSI CONCRETE

BAR SIZE	OTHER BARS	TOP BARS
#3	16"	16"
#4	16"	20"
#5	20"	25"
#6	24"	30"
#7	33"	43"
#8	38"	49"
#9	43"	55"
#10	47"	62"

LAP CHART
3500 PSI CONCRETE

BAR SIZE	OTHER BARS	TOP BARS
#3	16"	16"
#4	17"	21"
#5	21"	26"
#6	25"	32"
#7	36"	46"
#8	41"	52"
#9	46"	59"
#10	51"	65"

GENERAL STRUCTURAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND TO CROSS-CHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH THE RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS. FLOOR AND WALL OPENINGS, SLEEVES AND OTHER ARCH., MECH., ELEC., REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
2. ALL ENGINEERING DESIGN, CONSTRUCTION, AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE MICHIGAN BUILDING CODE.
3. ALL STRUCTURAL WORK MUST BE TEMPORARILY BRACED AND SUPPORTED UNTIL THE STRUCTURE IS SUFFICIENTLY COMPLETED AND CAN SAFELY CARRY THE DESIGN AND CONSTRUCTION LOADS.
4. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK THAT IS INVOLVED IN THE CONFLICT.

CONCRETE:

1. ALL CONCRETE WORK TO BE PERFORMED IN CONFORMANCE WITH THE MOST RECENT EDITION OF ACI 301 & ACI 318 CODE REQUIREMENTS AND DETAILING STANDARDS.
2. ALL CONCRETE SHALL DEVELOP THE COMPRESSIVE STRENGTHS AT 28 DAYS OF:
   F`c = 3000 PSI
1. USE AIR ENTRAINED CONCRETE FOR ALL AREAS EXPOSED TO WEATHER, FROST IN SOIL, OR FREEZE THAW CYCLES. REFER TO CONCRETE SPECIFICATIONS FOR AIR CONTENT CRITERIA.
2. ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF THE CONCRETE.
3. ALL HORIZONTAL BARS IN CONCRETE WALLS AND GRADE BEAMS SHALL BE CONTINUOUS AND BENT AT ALL CORNERS AND INTERSECTIONS. PRE-BENT "CORNER" BARS SUBSTITUTED FOR CONTINUOUS BENT BARS SHALL BE OF SAME SPACING AS HORIZONTAL BARS AND SHALL BE OF SUFFICIENT LENGTH TO PROVIDE REQUIRED LAP SPLICE LENGTHS.
4. DETAILING BENDING AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE ACI CODE.
5. ALL CONCRETE FORMWORK SHALL BE ADEQUATELY TIED TOGETHER AND BRACED TO FORM TRUE LINES, SQUARE CORNERS, AND PLUMB WALLS.
6. NO CONCRETE SHALL BE POURED SUBJECT TO FREEZING CONDITIONS, OR ON FROZEN GROUND.
7. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, OR ACCESSORIES REQUIRED TO BE CAST INTO CONCRETE, AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
8. FOOTINGS SHALL BE LOCATED ON THE CENTERLINE OF WALLS, PIERS, OR COLUMNS, UNLESS NOTED OTHERWISE.
9. LOCATE ALL SLEEVES, OPENINGS, EMBEDDED ITEMS, ETC. WHICH ARE INDICATED ON DESIGN DRAWINGS. CHECK WITH OTHER TRADES TO VERIFY THAT ALL SLEEVES, OPENINGS, AND EMBEDDED ITEMS ARE IN PLACE AND LOCATED CORRECTLY PRIOR TO PLACEMENT OF CONCRETE.
10. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. SLEEVES SHALL BE WRAPPED WITH EXPANSION JOINT FILLER MATERIAL TO ALLOW CONCRETE TO CURE WITHOUT RESTRAINT. PIPES OR CONDUITS WITH DIAMETER EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED AS SUCH. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC.
11. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE ALL DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO THE PLACEMENT OF ADJACENT CONCRETE.
12. SLAB CONTROL JOINTS SHALL BE INSTALLED WITH JOINT FORMERS WHEN THE SLAB IS POURED, OR SAWCUT AS SOON AS THE CONCRETE WILL ALLOW WITHOUT DAMAGE.
13. ALL EMBEDDED ITEMS SHALL BE PLACED IN THE FORMWORK PRIOR TO PLACING CONCRETE. DRILLING AND GROUTING IS ACCEPTABLE SUBJECT TO ENGINEER APPROVAL.
14. CONCRETE WALLS MAY BE BACKFILLED TO TWO-THIRDS THE WALL HEIGHT ONCE 75% OF THE 28 DAY COMPRESSIVE DESIGN STRENGTH HAS BEEN ACHIEVED. WALLS WITH TOP SLABS MAY BE BACKFILLED TO ONE-HALF OF THE WALL HEIGHT PRIOR TO CASTING THE TOP SLAB.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS, GRADE 60 ASTM A615, WITH 60,000 PSI MINIMUM YIELD STRENGTH, UNLESS NOTED OTHERWISE.
2. REINFORCEMENT PROTECTION: (U.N.O.)
   A. CONCRETE POURED AGAINST EARTH TO WEATHER, EARTH OR LIQUID = 3"
   B. CONCRETE POURED IN FORMS BUT EXPOSED = 2"
   C. SLABS AND WALLS NOT EXPOSED TO WEATHER OR EARTH = 1 1/2"
   D. BEAMS, GIRDERS, AND COLUMNS NOT EXPOSED TO WEATHER, OR IN CONTACT WITH EARTH = 1 1/2"
3. WELDING OF REINFORCING BARS IS NOT PERMITTED, UNLESS NOTED OTHERWISE.

MASONRY:

1. CONCRETE MASONRY UNITS (CMU) ARE TO CONFORM TO ASTM C-90.
2. SEE SPECIFICATIONS FOR UNIT WEIGHT AND STRENGTH.
3. ALL MASONRY REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF TMS 602/ACI 530.1/ASCE 6.
4. ALL VERTICAL REINFORCING STEEL IN CMU WALLS SHALL BE CONTINUOUS FROM THE FOOTING TO THE BOND BEAM, AND TERMINATED IN END HOOKS. WHERE BOND BEAMS ARE NOT AT THE TOP OF A WALL, REINFORCING SHALL BE CONTINUOUS THROUGH THE BOND BEAM TO TOP WALL.
5. ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE SPLICED A MINIMUM OF 50 BAR DIAMETERS, BUT NOT LESS THAN 24 INCHES.
6. ALL MASONRY WORK BELOW GRADE SHALL HAVE CORES GROUTED SOLID WITH GROUT CONFORMING TO ASTM C476. BELOW GRADE MASONRY SHALL USE TYPE M OR S MORTAR.
7. SEE LINTEL SCHEDULE FOR LINTEL SIZES. ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED OTHERWISE.
8. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE-6/TMS-602)," EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DRAWINGS.
9. CONTROL JOINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THESE DRAWINGS. IN AREAS NOT NOTED ON DRAWINGS, A MINIMUM PLACEMENT OF ONE SIDE ABOVE ALL OPENINGS 6'-0" WIDE OR LESS, AND AT BOTH SIDES OF ALL OTHER OPENINGS, OR AT 20'-0" O.C.MAX.

STRUCTURAL DESIGN INFORMATION:
DESIGN DATA BASED ON ASCE 7-10

RISK CATEGORY: II

3. ROOF SNOW LOAD DATA

GROUND SNOW LOAD, P_g	35 PSF
FLAT-ROOF SNOW LOAD, P_f	22.5 PSF
SNOW EXPOSURE FACTOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.00
THERMAL FACTOR, C_t	1.0
SLOPE FACTOR, C_s	1.0
UNBALANCED SNOW LOAD, P_d	16.5 PSF
WIDTH OF UNBALANCED SNOW LOAD, W	7.25 FT

4. WIND DESIGN DATA

BASIC DESIGN WIND SPEED, V	115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	89 MPH
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.18

SEE TABLE FOR COMPONENTS & CLADDING DESIGN WIND PRESSURES

5. EARTHQUAKE DESIGN DATA

SEISMIC IMPORTANCE FACTOR, I_e 1.00

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:

SITE CLASS D

$S_{DS} = 0.075$ $S_s = 0.07$

$S_{D1} = 0.069$ $S_1 = 0.043$

SEISMIC DESIGN CATEGORY B

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GENERAL NOTES AND LEGENDS

GRPS BRIGGS FIELD REPLACEMENT

1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE

CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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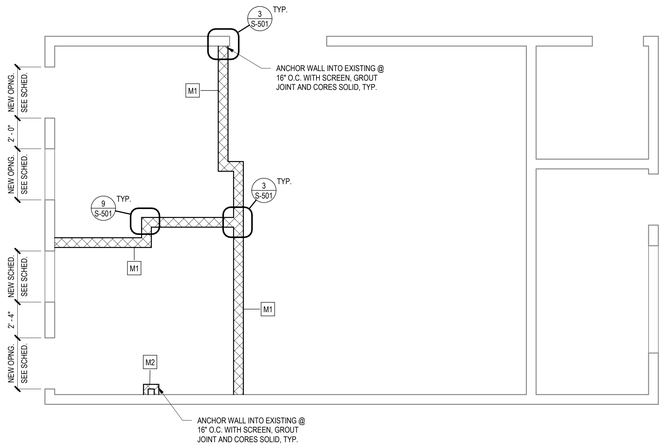
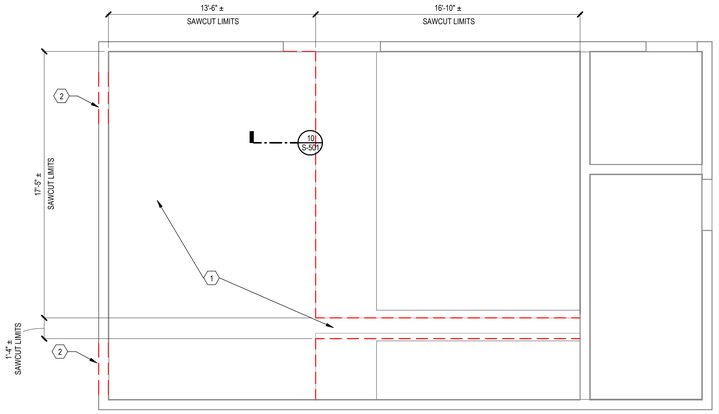
DESIGNED BY: Designer
CHECKED BY: Checker APPROVED BY: Approver



FRAMING PLAN - WALLS
1/4" = 1'-0"

MASONRY WALL REINFORCEMENT SCHEDULE			
MARK	WALL		COMMENTS
	WALL SIZE	VERTICAL REINF.	
M1	8" CMU	(1) #4 @ 48" O.C.	INTERIOR PARTITION WALL
M2	4" CMU	(-)	CHASE ENCLOSURE

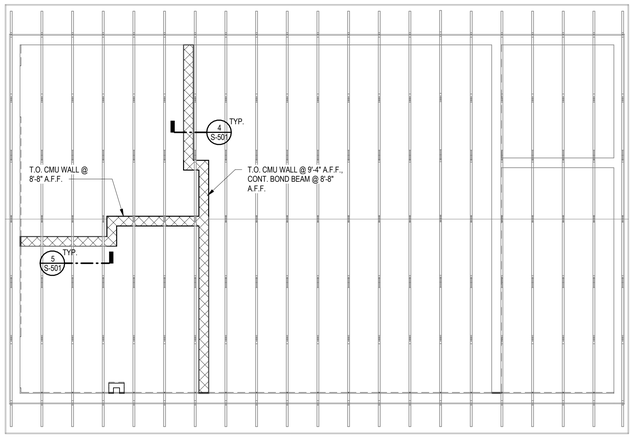
NOTES:
1. VERTICAL WALL REINFORCEMENT SHALL BE LAPPED WITH FOOTING DOWEL BARS AND SOLID GROUTED, FULL WALL HEIGHT.
2. PROVIDE HORIZONTAL LADDER REINFORCING W1.7 AT 16" O.C. TYP.
3. GROUT REINFORCED CORE AND JAMB CORE SOLID TO FOUNDATION.
4. PROVIDE HORIZONTAL BOND BEAMS AT TOP OF WALL AND AT INTERMEDIATE LOCATIONS AS REQUIRED FOR A MAXIMUM BOND BEAM SPACING OF 12'-0" IN 8" CMU WALLS. UNLESS OTHERWISE NOTED, BOND BEAM REINFORCING SHALL BE (2) #5 BARS CONTINUOUS.
5. ALL MASONRY SUPPORTING BEAMS SHALL INCLUDE BOTTOM PLATE AND BRICK ANGLES PER LINTEL SCHEDULE. GALVANIZE LINTELS SUPPORTING EXTERIOR MASONRY.
6. ALL MASONRY WORK SHALL BE DONE IN ACCORDANCE WITH LATEST ACI 530 SPECIFICATIONS. MASONRY UNITS SHALL CONFORM TO ASTM C90 OR ASTM C625 GRADE SW AS APPLICABLE. USE TYPE M OR S MORTAR. f'm USED IN DESIGN = 1500 PSI.
7. BEAM AND LINTEL BEARING ON MASONRY WALLS SHALL BE A MINIMUM OF 8". SEE PLAN FOR LINTEL AND BEARING PLATE SIZES.
8. AT CONTROL JOINTS CONTINUE HORIZONTAL REINFORCEMENT THROUGH THE JOINT AT THE TOP OF THE WALL. VERTICAL REINFORCING TO BE WITHIN 8" OF CONTROL JOINT EACH SIDE.
9. AT CORNERS AND END OF WALLS VERTICAL REINFORCEMENT TO BE WITHIN 8" AND LAPPED WITH FOUNDATION WALL STEEL.



DEMOLITION PLAN - SLAB
1/4" = 1'-0"

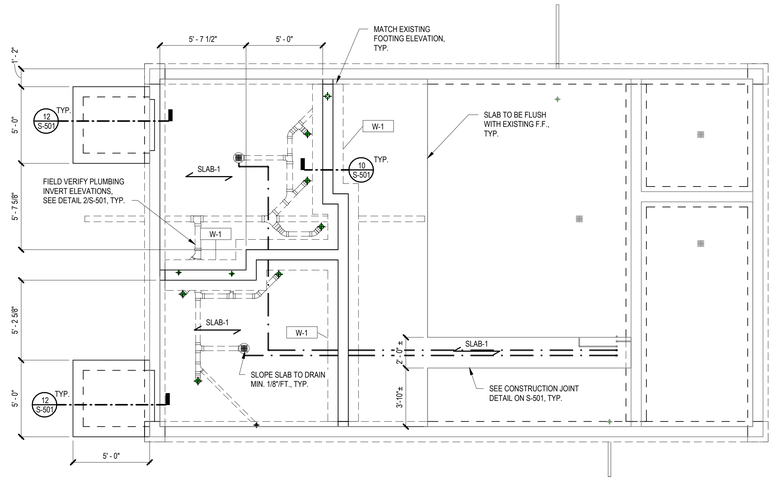
STRUCTURAL DEMOLITION NOTES
1. PROTECT EXISTING WALLS, SLABS, FOOTINGS AND FOUNDATIONS TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
2. SAWCUT LIMITS SHOWN ARE APPROXIMATE. REMOVE SLABS AS REQUIRED TO MAINTAIN 1:1 SLOPE OF EXCAVATION.
3. COORDINATE EXTENTS OF DEMOLITION WITH ARCHITECTURAL, PLUMBING, AND PROCESS PIPING DRAWINGS. FOR LOCATIONS WITH DEMOLISHED SLAB, REPLACE WITH SLAB-1 AND REFER TO CONSTRUCTION JOINT DETAIL.
4. INSTALL TEMPORARY SHORING AS INDICATED ON DEMOLITION FRAMING PLANS PRIOR TO BEGINNING DEMOLITION OF BEARING WALLS, FOUNDATION WALLS, OR FOOTINGS.

DEMOLITION KEYNOTES	DENOTED BY: X
1. DEMOLISH EXISTING CONCRETE SLAB. SAWCUT FLUSH AGAINST EXISTING CONCRETE TO REMAIN. GRIND SMOOTH AS NEEDED. APPLY COATING TO ANY EXPOSED REINFORCING STEEL. COORDINATE EXTENTS OF SAWCUT WITH WITH NEW CONSTRUCTION.	
2. NEW WALL OPENING. SHORE EXISTING WALL TO REMAIN AND ROOF FRAMING PRIOR TO SAWCUTTING NEW OPENING AND DURING INSTALLATION OF LINTEL AS REQUIRED	



FRAMING PLAN - ROOF
1/4" = 1'-0"

WALL FOOTING SCHEDULE							
MARK	DIMENSIONS		REINFORCING				COMMENTS
	WIDTH	THICKNESS	W (SHORT BARS)	L (LONG BARS)	WALL VERTICAL BARS	WALL HORIZONTAL BARS	
W-1	2' - 0"	1' - 0"	#5 BARS @ 12" O.C.	(3) #5 BARS CONT.	#4 BARS @ 16" O.C.	#4 BARS @ 12" O.C.	



FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION PLAN NOTES
1. C.J. AND CONST. JOINT LOCATIONS ARE SHOWN FOR VISUAL REPRESENTATION ONLY. FIELD LOCATE AT SPACING NOT TO EXCEED 30 *SLAB THICKNESS.
2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED FILL AS REQUIRED.
3. CONTRACTOR SHALL VERIFY DIMENSIONS WITH ARCHITECTURAL PLANS. NOTIFY ENGINEER OF DISCREPANCIES.
4. FINISH FLOOR ELEVATION = 100'-0

REINF. CONC. FLOOR SLAB	
MARK	DESCRIPTION
SLAB-1	4" CONC. SLAB ON GRADE W/ 6x6 - W2.1x W2.1 WWF, OVER MINIMUM 6" OF COMPACTED GRANULAR FILL OVER VAPOR RETARDER, TYP. U.N.O.

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DEMOLITION, FOUNDATION AND FRAMING PLANS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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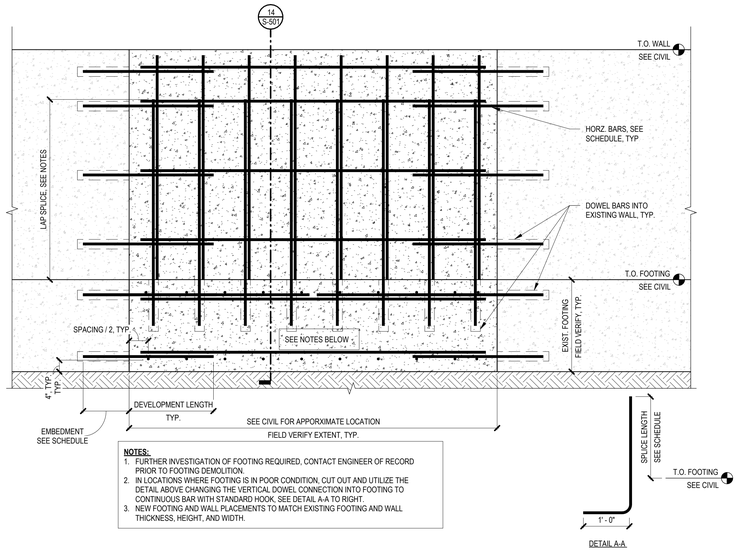
DESIGNED BY: Designer
CHECKED BY: CheckedPROVED BY: Approver

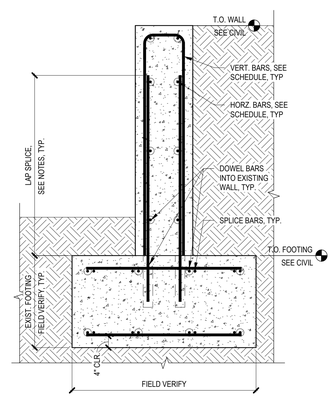


NOTES:
1. FURTHER INVESTIGATION OF FOOTING REQUIRED, CONTACT ENGINEER OF RECORD PRIOR TO FOOTING DEMOLITION.
2. IN LOCATIONS WHERE FOOTING IS IN POOR CONDITION, CUT OUT AND UTILIZE THE DETAIL ABOVE CHANGING THE VERTICAL DOWEL CONNECTION INTO FOOTING TO CONTINUOUS BAR WITH STANDARD HOOK, SEE DETAIL A-A TO RIGHT.
3. NEW FOOTING AND WALL PLACEMENTS TO MATCH EXISTING FOOTING AND WALL THICKNESS, HEIGHT, AND WIDTH.

13 RETAINING WALL - ELEVATION VIEW
3/4" = 1'-0"

RETAINING WALL SCHEDULE									
MARK	FOOTING		WALL	REINFORCING				DOWEL EMBED	DOWEL EPOXY
	WIDTH	THICKNESS	THICKNESS	W (SHORT BARS)	L (LONG BARS)	WALL VERT. BARS	WALL HORZ. BARS	ALL LOCATIONS	ALL LOCATIONS
(-)	4' - 0"	16"	15" (V.I.F.)	#5 @ 10" O.C., T&B	#5 @ 18" O.C., T&B	#5 @ 10" O.C., EACH FACE	#5 @ 18" O.C., EACH FACE	12-1/2"	HILTI HIT-RE 500 V3

NOTES:
1. IF EXISTING RETAINING WALL FOOTING WIDTH, THICKNESS ALONG WITH WALL THICKNESS ARE LESS THAN WHAT IS LISTED IN THE SCHEDULE ABOVE, CONTACT ENGINEERING. PROVIDE WITH AS-BUILT DIMENSIONS, AND PROCEED ACCORDING TO ENGINEERING DIRECTION.

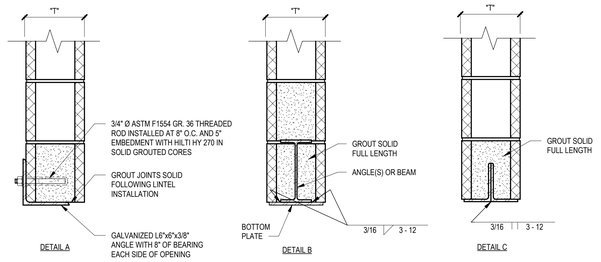


NOTES:
1. FURTHER INVESTIGATION OF FOOTING REQUIRED, CONTACT ENGINEER OF RECORD PRIOR TO FOOTING DEMOLITION.
2. IN LOCATIONS WHERE FOOTING IS IN POOR CONDITION, CUT OUT AND UTILIZE THE DETAIL ABOVE CHANGING THE VERTICAL DOWEL CONNECTION INTO FOOTING TO CONTINUOUS BAR WITH STANDARD HOOK, SEE DETAIL A-A.
3. NEW FOOTING AND WALL PLACEMENTS TO MATCH EXISTING FOOTING AND WALL THICKNESS, HEIGHT, AND WIDTH.

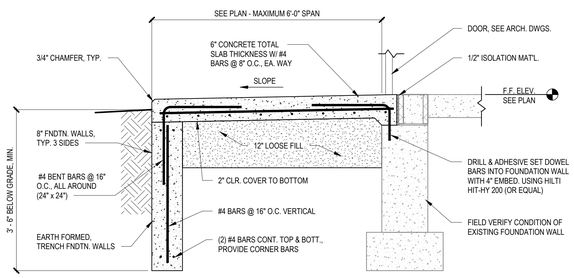
14 RETAINING WALL SECTION
3/4" = 1'-0"

MISCELLANEOUS STEEL LINTEL SCHEDULE			
SPAN	WITHOUT FACE BRICK		
	T	DESCRIPTION	DETAIL
0 TO 6'-0"	6"	(2) L3 1/2 x 2 1/2 x 5/16" (LLV)	A
	8"	(2) L3 1/2 x 3 1/2 x 5/16"	A
	10"	L4 x 3 x 5/16 & L5 x 3 x 5/16" (SLV)	A
	12"	(2) L4 x 4 x 5/16" WITH 3/8" x 11" PLATE	B

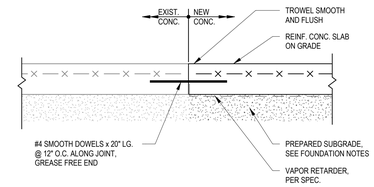
NOTES:
1. DETAIL A, B, & C LINTELS TO BEAR A MINIMUM OF 8" ON FULLY GROUTED COURSES OF SOLID MASONRY. LINTELS SPANNING 8'-0" OR MORE TO BEAR ON FULLY GROUTED CORES FULL HEIGHT OF JAMB.
2. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE TO BE GALVANIZED. LINTELS CONSISTING OF A PLATE AND ROLLED BEAM W8 AND SMALLER TO HAVE BOTH PLATE AND BEAM GALVANIZED AFTER WELDING. ALL ANGLES TO BE GALVANIZED.
3. LINTELS UTILIZING BOTTOM PLATES TO HAVE PLATE EXTEND FULL LENGTH OF MASONRY OPENING ONLY. BOTTOM PLATES ARE NOT TO EXTEND INTO JAMBS OF WALL OPENINGS.
4. FOR OPENINGS 16 INCHES AND SMALLER, PROVIDE SOLID GROUTED BOND BEAM WITH (2) #5 BARS WITH 8" MIN. BEARING EACH SIDE OF OPENING.



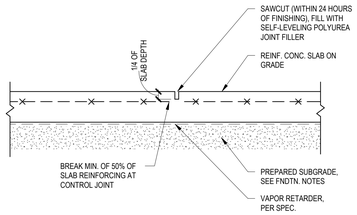
11 MISCELLANEOUS STEEL LINTEL SCHEDULE & DETAILS
NOT TO SCALE



12 ENTRANCE SLAB SECTION - EX. BUILDING
3/4" = 1'-0"



7 SLAB ON GRADE CONSTRUCTION JOINT DETAIL
NOT TO SCALE



8 SLAB ON GRADE CONTROL JOINT DETAIL
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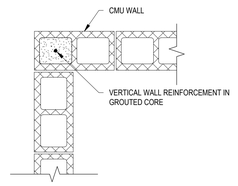
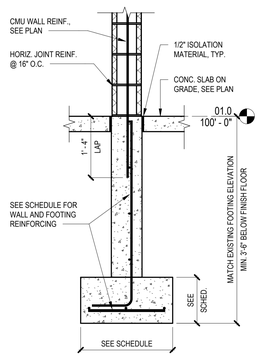
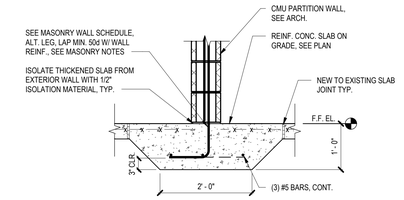


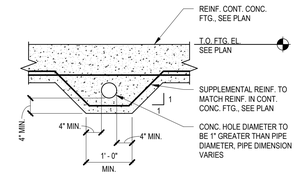
9 TYPICAL CORNER DETAIL
1" = 1'-0"



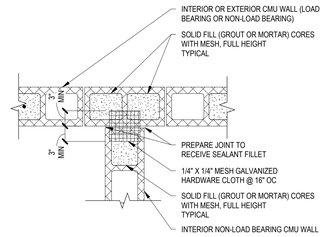
10 TYP. FOUNDATION WALL SECTION
3/4" = 1'-0"



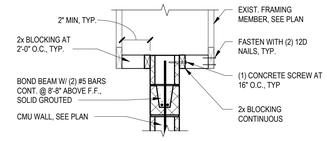
1 INTERIOR THICKENED SLAB SECTION
3/4" = 1'-0"



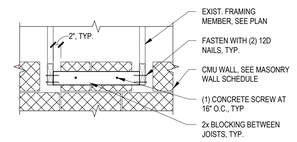
2 PIPE PENETRATION DETAIL
NOT TO SCALE



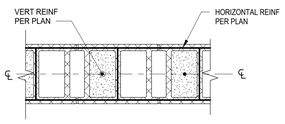
3 TYPICAL WALL INTERSECTION
1" = 1'-0"



4 CMU WALL BRACING DETAIL - PARALLEL
3/4" = 1'-0"



5 CMU WALL BRACING DETAIL - PERPENDICULAR
3/4" = 1'-0"



6 TYPICAL REINFORCEMENT POSITION
1" = 1'-0"

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DETAILS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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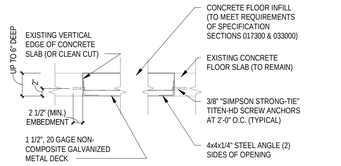
DESIGNED BY: Designer
CHECKED BY: CheckedPROVED BY: Approver

WE RECYCLE

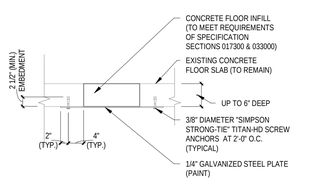
THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK

THE BAR BELOW SHOWS PRIMARY COLORS WHITE



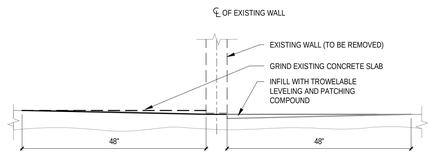
TYP DEMO FLOOR INFILL (OPENING 12" TO 5'-0")

NOT TO SCALE



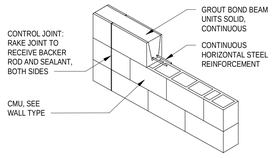
TYP DEMO FLOOR INFILL (OPENING 12" SQ. OR SMALER)

NOT TO SCALE



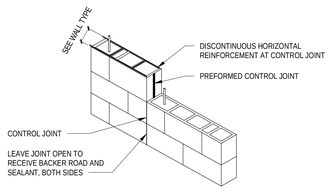
TYP DEMO FLOOR LEVELING AT WALL REMOVAL

NOT TO SCALE



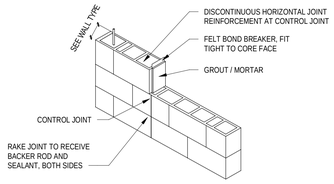
CMU CONTROL JOINT AT BOND BEAM

NOT TO SCALE



CMU CONTROL JOINT TYPE B

NOT TO SCALE



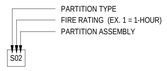
CMU CONTROL JOINT TYPE A

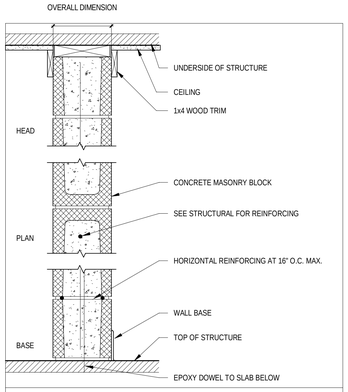
NOT TO SCALE

PARTITION TYPE GENERAL NOTES

1. ALL GYPSUM BOARD SHALL BE INSTALLED AS PER SPECIFICATIONS OR ANY OTHER AUTHORITY HAVING JURISDICTION.
2. WATER AND MILDEW RESISTANT GYPSUM BOARD SHALL BE USED AT ALL DAMP LOCATIONS, FOR EXAMPLE BATHROOMS, KITCHENS, PLUMBING CHASE WALLS, ETC. IN LIEU OF STANDARD GYPSUM BOARD.

LEGEND INTERIOR PARTITIONS:





M## MASONRY PARTITION

NON-RATED

M01	CMU SIZE: 3-5/8"
M03	CMU SIZE: 7-5/8"

ABBREVIATIONS

ABBREV.	FULL TEXT
AB	ANCHOR BOLT
ABI	ADDITIVE BID ITEM
AC	ACOUSTICAL
ACB	ACOUSTICAL CEILING BAFFLE
ACP	ACOUSTICAL CEILING PANEL
ACS	ACOUSTICAL CEILING SPRAY
AD	AREA DRAIN
ADA	ADA
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS DOORS
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AWP	ACOUSTICAL WALL PANEL
B/	BOTTOM OF
BD	BOARD
BF	BARRIER FREE
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLKHD	BULKHEAD
BOTT	BOTTOM
BP	BASE PLATE
BR	BUMP RAIL
BS	BOTH SIDES
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CG	CORNER GUARD
CH	CHANNEL
CHKDPL	CHECKERED PLATE
CJ	CONTROL JOINT
CL	CENTERLINE
CL TO CL	CENTERLINE TO CENTERLINE
CLG	CEILING
CLK	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSIBLE
COMPO	COMPOSITION
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET TILE
CS	CONCRETE SEALER
CTR	COUNTER
CTSK	COUNTERSINK
DEXS	DOUBLE EXTRA STRONG (STEEL PIPE)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DS	DOWN SPOUT
DT	DRAIN TILE
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEMS
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR OR ELEVATION
ENCL	ENCLOSURE
EP	EPOXY PAINT
EPS	EXTERIOR PAINT SYSTEM
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EX	EXISTING

ABBREVIATIONS

ABBREV.	FULL TEXT
EXGR	EXISTING GRADE
EXP	EXPANSION
EXS	EXTRA STRONG (STEEL PIPE)
EXT	EXTERIOR
FA	FIRE ALARM
FAB	FABRIC/UPHOLSTERY
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FG	FROSTED GLASS
FHC	FIRE HOSE CABINET
FIN	FINISH
FL	FLOOR
FLL	FLOOR LINE
FLUOR	FLUORESCENT
FOC	FACE OF COLUMN
FOCONC	FACE OF CONCRETE
FRC	FIBER REINFORCED CONCRETE
FRP	FIELD REINFORCED PANEL
FRPFG	FIREPROOFING
FS	FULL SIZE
FT	FIRE TREATED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
G.B.	GRAB BAR, GRADE BEAM
G.O.	GRILL OPENING
GA	GAUGE
GALV	GALVANIZED
GCT	GLAZED CERAMIC TILE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GND.	GROUND
GR.	GRADE
GRTG.	GRATING
GSCFT	GLAZED STRUCTURAL CLAY FACING TILE
GT	GROUT
GYP. BD.	GYPSUM BOARD
HC	HOLLOW CORE
HCWD	HOLLOW CORE WOOD
HDPB	HIGH DENSITY PARTICLEBOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HWD	HARDWARE
I.D. OR ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IG	INSULATING GLASS
IN	INCHES
INCL	INCLUDING, INCLUSIVE
INSUL	INSULATION
INT	INTERIOR
IPS	INTERIOR PAINT SYSTEM
JAN	JANITOR
JT	JOINT
KW	KILOWATTS
KWh	KILOWATT HOURS
LAD	LADDER
LAM	LAMINATED
LAV	LAVATORY
LF	LINEAR FEET
LGTH	LENGTH
LH	LEFT HAND
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOUVER OPENING
LP	LIGHTING PANEL
LPG	LIQUID PETROLEUM GAS
LPS	LOW PRESSURE STEAM
LT	LIGHT
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBH	THOUSAND BTU/HR
MC	MEDICINE CABINET
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MULTI-COLOR COATING

ABBREVIATIONS

ABBREV.	FULL TEXT
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMBWP	MEMBRANE WATERPROOFING
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MG	MEDICAL GAS
MH	MANHOLE
MHP	MOTOR HORSEPOWER
MIN.	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MM	MISCELLANEOUS METALS
MO	MASONRY OPENING
MOCP	MAXIMUM OVERCRRENT PROTECTION
MPC	MICHIGAN PLUMBING CODE
MR	MANUFACTURER'S RECOMMENDATIONS
MT	MARBLE TILE
MTD	MOUNTED
MUL.	MULLION
N	NORTH
N.S.	NEAR SIDE
NF	NO FINISH
NIC	NOT IN CONTRACT
NO	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NSNS	NON SHRINK NON STAIN GROUT
NTS	NOT TO SCALE
NTS	NOT TO SCALE
O.C. OR OC	ON CENTER
OBSGL	OBSCURE GLASS
OD	OUTSIDE DIAMETER
OHDR	SECTIONAL OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
P	PAINT
PART	PARTITION
PB	PARTICLE BOARD
PC	PRECAST
PCS	PIECES
PERM	PERMANENT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLY	PLYWOOD
PT	PRESSURE TREATED
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
QT	QUARRY TILE
QTB	QUARTZ TILE BASE
QTZ	QUARTZ
R	RISER
RA	RETURN AIR
RB	RUBBER BASE
RC	ROOF CONDUCTOR
RD	ROOF DRAIN
RD	ROUND
RECVG	RECEIVING
REF	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
RF	RESILIENT FLOORING
RH	RIGHT HAND
RL	ROOF LADDER
RM	ROOM
RO	ROUGH OPENING
RS	ROOF SUMP
RSN	RESIN
RWD	REDWOOD
RWD	RIGID WALL PROTECTION
S	SOUTH
S	SPANDREL GLASS
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BLANKETS
SC	SOLID CORE
SCH	SCHEDULE
SCONC	SEALED CONCRETE
SCWD	SOLID CORE WOOD
SECT	SECTION
SER.RECPT	SERVICE RECEPTOR
SH	SHELF
SHT	SHEET

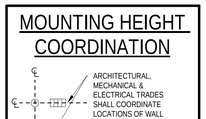
ABBREVIATIONS

ABBREV.	FULL TEXT
SHWR	SHOWER
SIM	SIMILAR
SLR	CONCRETE SEALER
SLS	SOLID SURFACE
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SQ	SQUARE
SQFT	SQUARE FOOT
SS	STAINLESS STEEL
SSK	SERVICE SINK
SSM	SOLID SURFACING MATERIAL
ST	SMOKE-TIGHT PER CODE TO RESIST THE PASSAGE OF SMOKE
STD	STANDARD
STDW	STANDARD WEIGHT (STEEL PIPE)
STL	STEEL
STN	STAIN
STOR	STORAGE
STRL	STRUCTURAL
SUPP	SUPPORT
SUSP	SUSPENDED
SYM	SUSPENSION SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
T.O.C. OR T/C	TOP OF CONCRETE
T.O.F. OR T/F	TOP OF FOOTING
T.O.M. OR T/M	TOP OF MASONRY
T.O.P. OR T/P	TOP OF PAVEMENT
T.O.S. OR T/S	TOP OF STEEL
T.O.W. OR T/W	TOP OF WALL
T/	TOP OF
TB	TRUSS BEARING
TG	TEMPERED GLASS
THK	THICK
THRESH	THRESHOLD
TLT	TOILET
TP	TOILET PARTITION
TR	TRANSITION TRIM
TYP	TYPICAL
TYP	TYPICAL
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WC	WALLCOVERING
WCO	WALL CLEAN OUT
WCVR	WALLCOVERING
WD	WOOD
WP	WATERPROOFING
WP	WORKPOINT
WP	WALL PROTECTION
WS	WINDOW SHADE
WSCT	WAINSCOT
WT	WEIGHT
X-(MATERIAL)	DENOTES EXISTING MATERIAL REFRENCED

DRAWING REFERENCE SYMBOLS

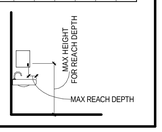
SIM, 1 / A101	ENLARGED PLAN OR DETAIL
	LEVEL OR ELEVATION
SIM, 1 / A101	WALL SECTION
X X	DEMARCATION LINE
SIM, 1 / A101, SIM, 1 / A101	BUILDING SECTION
##	ARCHITECTURAL KEYNOTE
SIM, 1 / A101	DETAIL
X##	EQUIPMENT TAG
1 / A101	EXTERIOR ELEVATIONS
X## PARTITION TYPE, PARTITION ASSEMBLY, FIRE RATING (EX. 1 = 1-HOUR)	WALL TAG
Ref, Ref, 1, A101, 1, Ref, Ref	INTERIOR ELEVATIONS
###.#	DOOR TAG
X##	REVISION CLOUD AND TAG
ROOM NAME, ###	ROOM TAG
	WINDOW TAG
# / X-###	VIEW TITLE & REFERENCE
#' - #"	CEILING SPOT ELEVATION
0	EXISTING COLUMN LINE
XX-#	FINISH TAG
0	NEW COLUMN LINE
XX-#	SPECIALITY EQUIPMENT TAG
##	DEMO KEYNOTE
XX#	FURNITURE TAG

MOUNTING HEIGHT COORDINATION

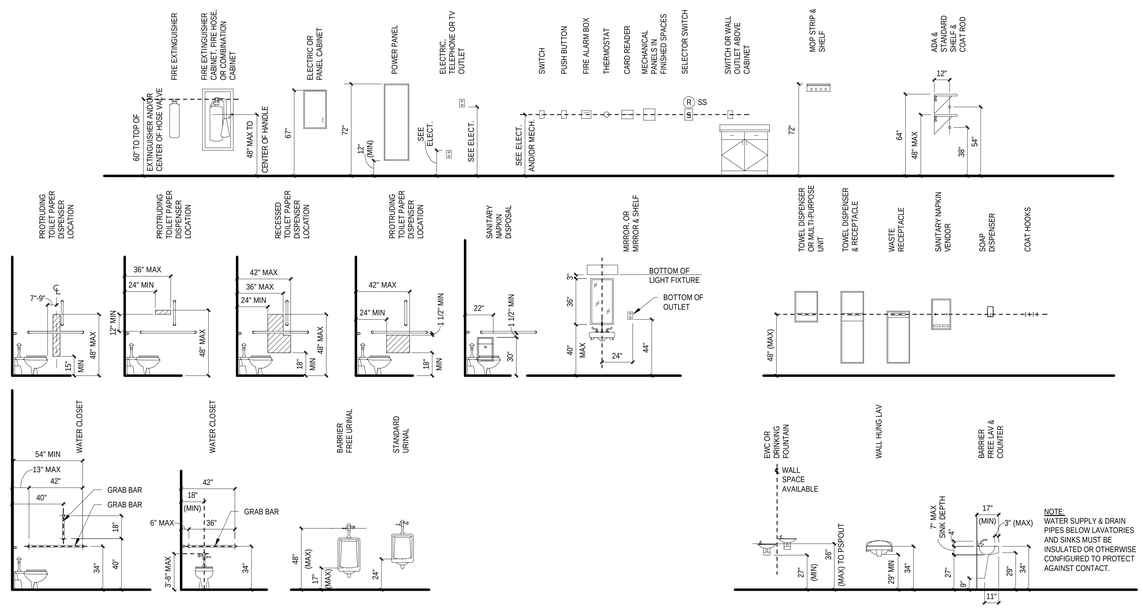


GENERAL MAXIMUM REACH DEPTH AND HEIGHT FOR HAND DRYERS / TOWEL DISPENSERS

MAX REACH DEPTH	0.5"	2"	5"	6"	9"	11"
MAX REACH HEIGHT	48"	46"	42"	40"	36"	34"



RECOMMENDED MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)



NOTE:
WATER SUPPLY & DRAIN PIPES BELOW LAVATORIES AND SINKS MUST BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.

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DESIGNED BY: Designer
CHECKED BY: Checker

APPROVED BY: Approver

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PARTITION TYPES, LEGENDS, SYMBOLS, ABBREVIATIONS, AND TYPICAL DETAILS

GRPS BRIGGS FIELD REPLACEMENT

1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE

CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

A-001

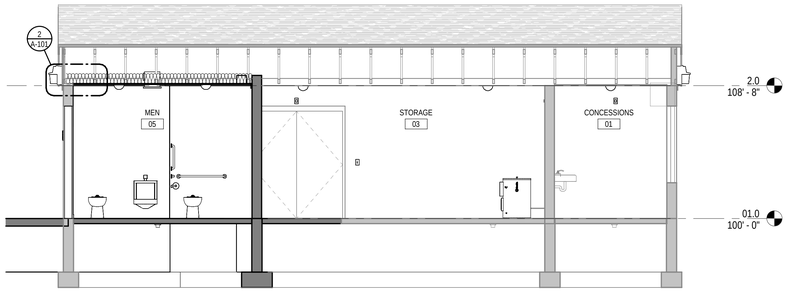
WE RECYCLE

THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID

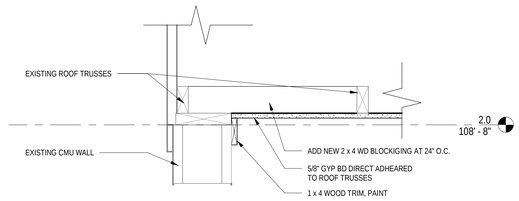
BLACK

WHITE

THE BAR BELOW SHOWS PRIMARY COLORS



1 A-101 SECTION E-W
1/4" = 1'-0"



2 A-101 SECTION DETAIL
1 1/2" = 1'-0"

ACCESSORY SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	SUPPLIED BY	INSTALLED BY	BLOCKING REQ'D	NOTES
BC	BABY CHANGING STATION			OWNER	CONTRACTOR		
GB1	42" GRAB BAR			CONTRACTOR	CONTRACTOR		
GB2	18" GRAB BAR			CONTRACTOR	CONTRACTOR		
GB3	36" GRAB BAR			CONTRACTOR	CONTRACTOR		
MR	MIRROR 24" X 36"			CONTRACTOR	CONTRACTOR		
PT	PAPER TOWEL DISPENSER	-	-	OWNER	CONTRACTOR		
SD	SOAP DISPENSER	-	-	OWNER	CONTRACTOR		
SND	SANITARY NAPKIN DISPOSAL	BOBRICK	B-271	OWNER	CONTRACTOR		
TTD	TOILET TISSUE DISPENSER	FORT HOWARD	ACCLAIM	OWNER	CONTRACTOR		

GENERAL DEMOLITION NOTES:

1. ALL EXISTING ITEMS TO BE RETAINED BY THE OWNER WILL BE REMOVED PRIOR TO DEMOLITION. ANY ITEMS LEFT IN THE DEMOLITION AREA BECOME THE PROPERTY OF THE DEMOLITION CONTRACTOR.
2. REFER TO ALL CONTRACT DOCUMENTS, INCLUDING SPECIFICATIONS, FOR ADDITIONAL DEMOLITION NOTES AND INFORMATION.
3. SHORE AND BRACE ALL WORK REQUIRED TO REMAIN.
4. CONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
5. CONTRACTORS ARE TO COORDINATE DEMOLITION WORK WITH OWNER PRIOR TO START OF WORK.
6. U.N.O., PATCH AND PREPARE FLOOR W/ CONCRETE (OR FLORSTONE) TO FLUSH WITH ADJACENT FLOOR SURFACE. FILL ANY SLOPING OR RECESSED AREAS TO LEVEL WITH TYPICAL FINISH FLOOR ELEVATION TO ACCOMMODATE NEW FLOOR COVERINGS.
7. INFILL EXISTING CHASE OPENINGS AND/OR PENETRATIONS IN FLOORS, CEILINGS, OR ROOF DECK. FIRE-RATING OF NEW CONSTRUCTION IS TO MATCH EXISTING.

DEMO PLAN LEGEND:

- EXISTING WALL OR PARTITION TO REMAIN
- EXISTING WALL/PARTITION OR EXISTING ITEMS TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING BUILDING COMPONENT & STRUCTURE TO REMAIN
- EXISTING ASSEMBLY TO BE REMOVED

NOTE: ALL ITEMS SHOWN RED AND DASHED ARE TO BE DEMOLISHED- U.N.O.

DEMOLITION KEYNOTES

KEY VALUE	KEYNOTE TEXT
D1	SAWCUT EXTERIOR WALL FOR NEW OPENING. SEE STRUCTURAL FOR ADDITIONAL NOTES AND LINTEL SIZE. SEE FLOOR PLAN FOR OPENING SIZE.
D2	REMOVE FENCE. PATCH AND REPAIR FLOOR AND OR WALLS AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
D3	SAWCUT AND REMOVE CONCRETE SLAB ON GRADE
D4	REMOVE AND SALVAGE BABY CHANGING STATION
D5	REMOVE AND SALVAGE GRAB BAR

GENERAL NOTES:

1. CONTRACTORS ARE TO COORDINATE WORK WITH ALL OTHER TRADES.
2. CONFLICTS BETWEEN NOTES, DETAILS, SPECIFICATIONS, ETC., SHALL BE VERIFIED WITH THE ARCHITECT OR THE MOST STRINGENT PROVISIONS SHALL GOVERN.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. ANY UNCLEAR CONDITIONS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO CONSTRUCTION OF THAT AREA.
4. DRAWINGS ARE NOT TO BE SCALED. ANY UNCLEAR DIMENSIONS, OR DIMENSIONAL DISCREPANCIES, SHALL BE VERIFIED WITH ARCHITECT.
5. ALL EXISTING CONDITIONS AND ALL RELATED DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION. ANY CONDITIONS THAT DIFFER FROM THAT INDICATED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION, ERECTION, AND/OR CONSTRUCTION.
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7. PATCH & REPAIR ALL EXISTING SITE, EXTERIOR, AND INTERIOR BUILDING ELEMENTS THAT WERE DISTURBED BY DEMOLITION WORK. REPAIRS ARE TO MATCH ADJACENT MATERIAL(S), COLOR(S), AND FINISH(ES), UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF FLOOR, WALL, AND/OR CEILING SUBSTRATES FOR NEW FINISHES.
9. MAINTAIN FIRE RATING AT ALL ASSEMBLIES WHERE OPENINGS PENETRATIONS, EMBEDMENT, RECESSED EQUIPMENT, ACCESSORIES, ETC. DISRUPT THE CONTINUITY OF THE RATING
10. ALL DIMENSIONS ARE FROM FACE OF WALL SHEATHING, C.M.U., OR CONCRETE, U.N.O.
11. PROVIDE ISOLATION MATERIAL BETWEEN DISSIMILAR MATERIALS THAT ARE IN CONTACT WITH ONE ANOTHER.
12. *PATCH & REPAIR ALL MAJOR & MINOR BLEMISHES AS REQ'D, DUE TO DEMOLITION WORK. REPAIRS ARE TO MATCH ADJACENT MATERIAL & COLOR.*
13. PROVIDE SOLID, CONTINUOUS, NON COMBUSTIBLE BLOCKING AT LOCATIONS WHERE MILLWORK, PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, OR ETC. ATTACH TO WALLS OR CEILINGS.

REFLECTED CEILING PLAN LEGEND:

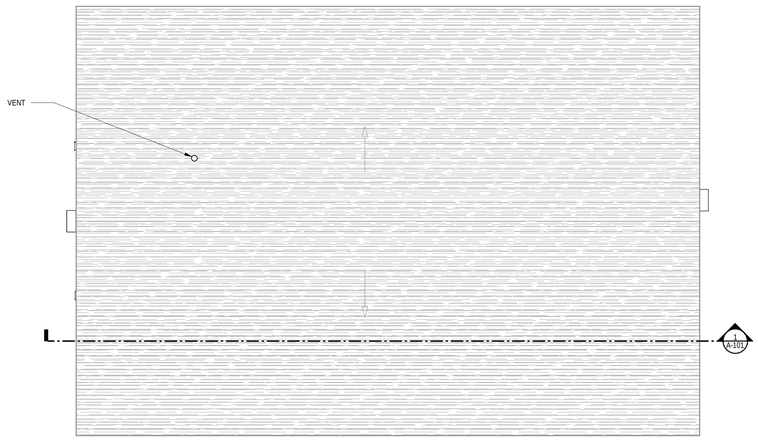
- EXPOSED
- 5/8" GYPSUM BOARD
- CEILING HEIGHT- ABOVE FINISH FLOOR
- EX. CEILING HEIGHT- ABOVE FINISH FLOOR
- LINEAR LIGHT FIXTURE
- SUPPLY DIFFUSER
- TRANSFER GRILLE AND/OR EXHAUST FAN
- FIRE EXIT SIGN LOCATION

ROOF GENERAL NOTES:

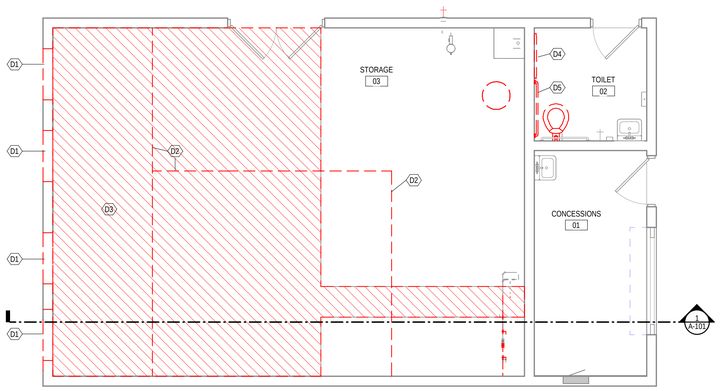
1. ALL NEW ROOF WORK THAT INTERACTS WITH EXISTING ROOFING TO REMAIN, IS TO BE EXECUTED AS REQUIRED TO MAINTAIN EXISTING ROOFING WARRANTIES.
2. ALL NEW VENT PIPES ARE TO EXTEND A MINIMUM 12" ABOVE FINISHED ROOF.
3. ALL NEW EQUIPMENT CURBS ARE TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF.

ROOF LEGEND

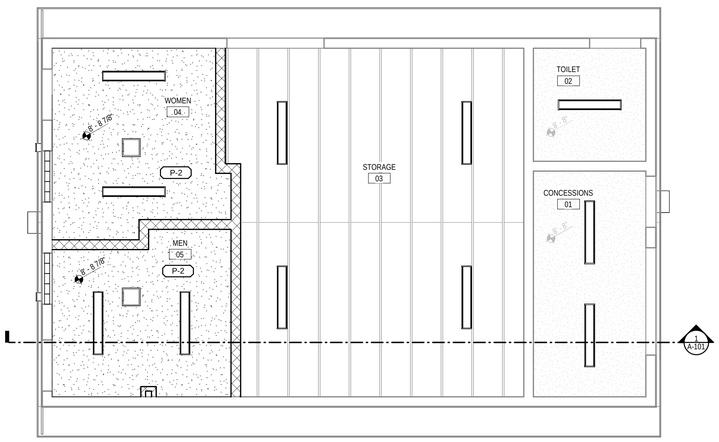
- EXISTING ROOF
- DENOTES EXHAUST FAN OR RELIEF VENT, SEE MECHANICAL PLANS FOR SPECIFICATIONS.
- EFFECTIVE DIRECTION OF ROOF SLOPE DUE TO STRUCTURE



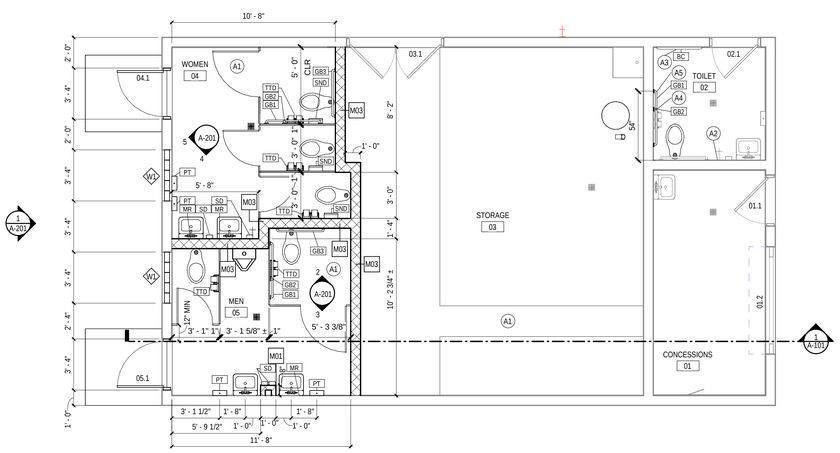
ROOF PLAN
1/4" = 1'-0"



DEMOLITION FLOOR PLAN - FIRST LEVEL
1/4" = 1'-0"



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



FLOOR PLAN
1/4" = 1'-0"

ARCHITECTURAL KEYNOTES

KEY VALUE	KEYNOTE TEXT
A1	CONCRETE SLAB ON GRADE
A2	REPAIR WALL
A3	RELOCATE BABY CHANGING STATION
A4	INSTALL VERTICAL GRAB BAR
A5	INSTALL HORIZONTAL GRAB BAR TO MEET ADA

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PLANS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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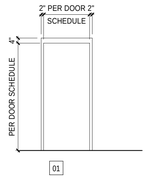
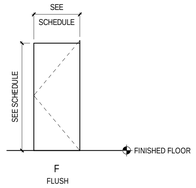
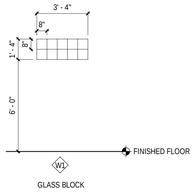
DESIGNED BY: Designer
CHECKED BY: Checker APPROVED BY: Approver



FRAME TYPES
1/4" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



WINDOW TYPES
1/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR NO.	ROOM NO.	ROOM NAME	DOOR SIZE WD.	DOOR SIZE HGT	DOOR MATL	DOOR TYPE	FRAME MATL	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	HARDWARE SET NO.	NOTES
01.0													
01.1	01	CONCESSIONS	3' - 0"	7' - 0"	EXIST	F	EXIST	EXIST	EXIST	EXIST	-	-	PAINT EXISTING FRAME (P-3) AND DOOR (P-4)
01.2	01	CONCESSIONS	5' - 8"	5' - 0"	EXIST	-	EXIST	EXIST	EXIST	EXIST	-	-	PAINT EXISTING LINTEL (P-3)
02.1	02	TOILET	3' - 0"	7' - 0"	EXIST	F	EXIST	EXIST	EXIST	EXIST	-	-	PAINT EXISTING FRAME (P-3) AND DOOR (P-4)
03.1	03	STORAGE	6' - 0"	7' - 0"	EXIST	F	EXIST	EXIST	EXIST	EXIST	-	-	PAINT EXISTING FRAME (P-3) AND DOOR (P-4)
04.1	04	WOMEN	3' - 0"	7' - 0"	FRP	F	HM	01	H1	J1	S1	1	
05.1	05	MEN	3' - 0"	7' - 0"	FRP	F	HM	01	H1	J1	S1	1	

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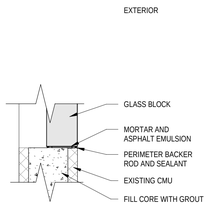
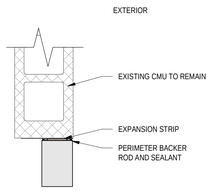
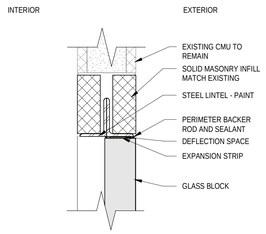


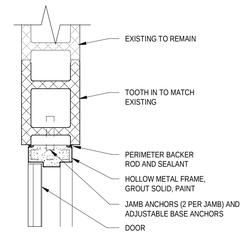
S2 GLASS BLOCK SILL
1 1/2" = 1'-0"



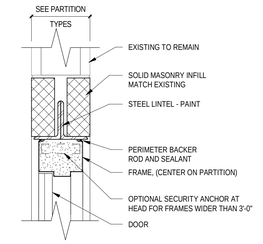
J2 GLASS BLOCK JAMB
1 1/2" = 1'-0"



H2 GLASS BLOCK HEAD
1 1/2" = 1'-0"



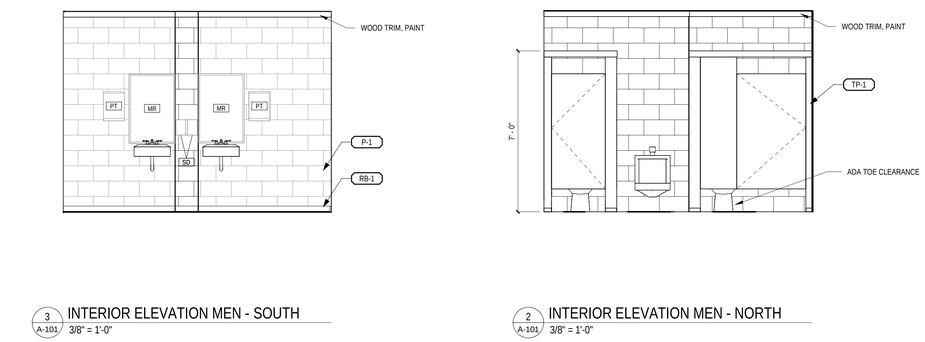
J1 EXTERIOR DOOR AT CMU WALL JAMB
1 1/2" = 1'-0"



H1 EXTERIOR DOOR AT CMU WALL HEAD
1 1/2" = 1'-0"

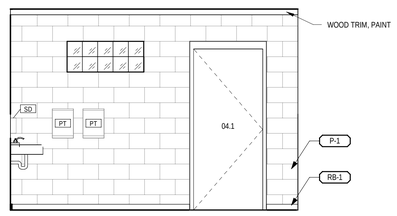
ELEVATION LEGEND

EXISTING SPLIT FACE CMU

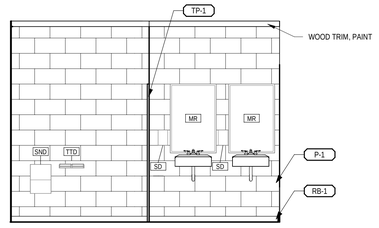


3 A-101 INTERIOR ELEVATION MEN - SOUTH
3/8" = 1'-0"

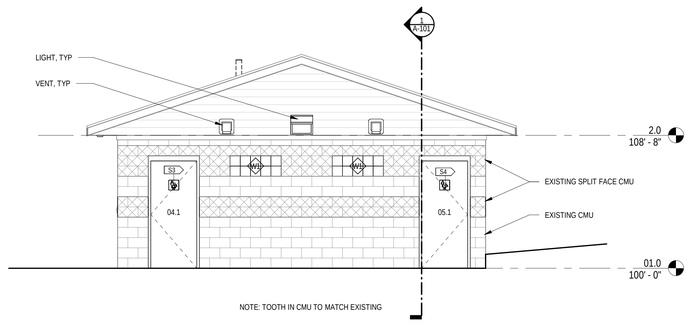
2 A-101 INTERIOR ELEVATION MEN - NORTH
3/8" = 1'-0"



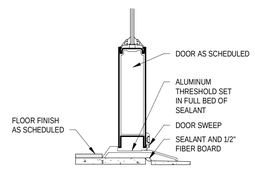
5 A-101 INTERIOR ELEVATION WOMEN - WEST
3/8" = 1'-0"



4 A-101 INTERIOR ELEVATION WOMEN - SOUTH
3/8" = 1'-0"



1 A-101 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"



S1 DOOR THRESHHOLD DETAIL
3" = 1'-0"

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EXTERIOR AND INTERIOR ELEVATIONS AND DETAILS

GRPS BRIGGS FIELD REPLACEMENT
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PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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Autodesk Docs://24082_GRPS Briggs Field Replacement/24082_Arvt
DESIGNED BY: Designer
CHECKED BY: Checker APPROVED BY: Approver

WE RECYCLE

THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID
BLACK
WHITE

THE BAR BELOW SHOWS PRIMARY COLORS

MATERIALS SCHEDULE

CODE	USE	MANUFACTURER	STYLE	PATTERN & COLOR	FINISH NOTES
BASE					
RB-1	WALL BASE	TARKETT JOHNSONITE	DURACOVE RUBBER TP	BLACK	4" H, CONTINUOUS RUNS
PAINT					
P-1	FIELD PAINT	BENJAMIN MOORE	EPOXY, GLOSS	GRPS CREAM	SCUFF-X
P-2	CEILING PAINT	SHERWIN WILLIAMS	FLAT	GRPS CREAM	--
P-3	DOOR FRAME PAINT	SHERWIN WILLIAMS	EPOXY, GLOSS	TRICORN BLACK,SW 6258	SCUFF-X
P-4	DOOR PAINT	SHERWIN WILLIAMS	EPOXY, GLOSS	ANEW GRAY, SW 7030	SCUFF-X
MISCELLANEOUS					
SC-1	SEALED CONCRETE	--	--	--	--
TP-1	TOILET PARTITION	ASI GLOBAL	HDPE	PEBBLE GRAINED	--

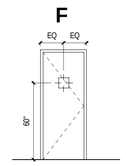
MATERIALS LEGEND

FIELD WALL FINISH
FIELD BASE FINISH
FIELD FLOOR FINISH

ROOM FINISH GENERAL NOTES

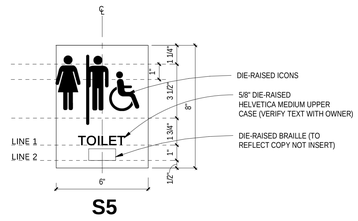
1. DOOR FRAME COLOR CHANGES SHALL OCCUR ON STOP AS IF DOOR IS IN CLOSED POSITION WITH THE DOOR AND FRAME SHOWING AS ONE COLOR.
2. FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR WHILE IN CLOSED POSITION. PROVIDE TRANSITION STRIP BETWEEN ALL FLOORING MATERIAL TRANSITIONS.
3. ALL EXPOSED STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL ELEMENTS ARE TO BE PAINTED. REFER TO INTERIORS DOCUMENTS FOR COLOR.

FINISH PLAN
3/8" = 1'-0"



NOTE: SIGN MOUNTING TYPICAL FOR OPPOSITE DOOR CONFIGURATION

SIGN MOUNTING
1/4" = 1'-0"



SIGN TYPES
3" = 1'-0"

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FINISH PLAN - FIRST LEVEL

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

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DESIGNED BY: Designer
CHECKED BY: Checker PROVED BY: Approver

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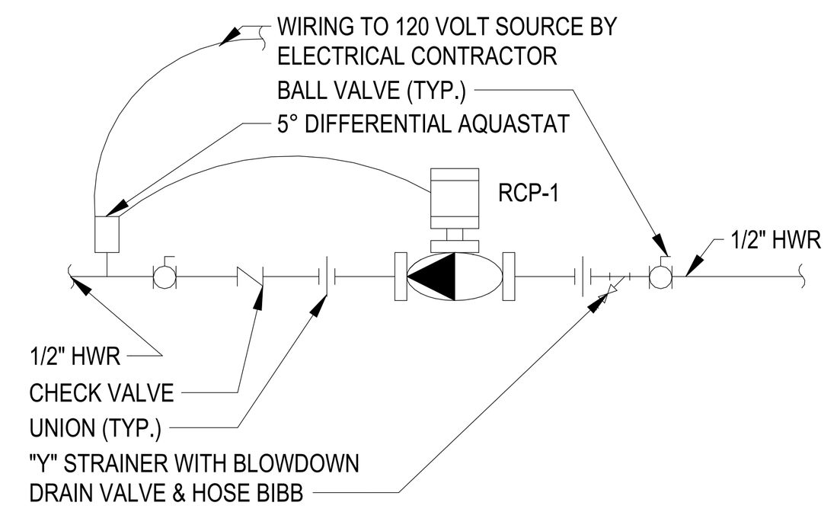
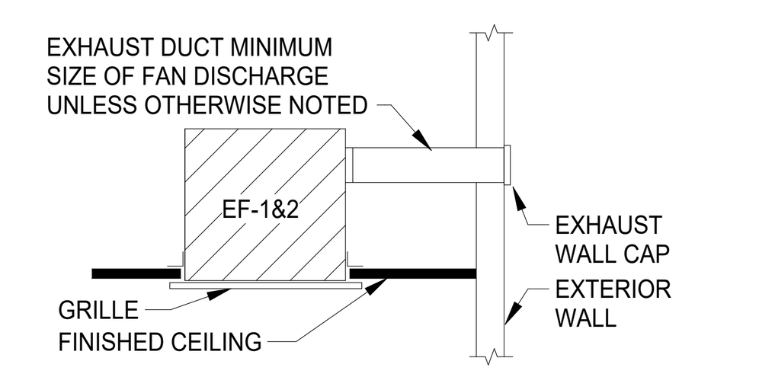
MECHANICAL AND PLUMBING PLAN

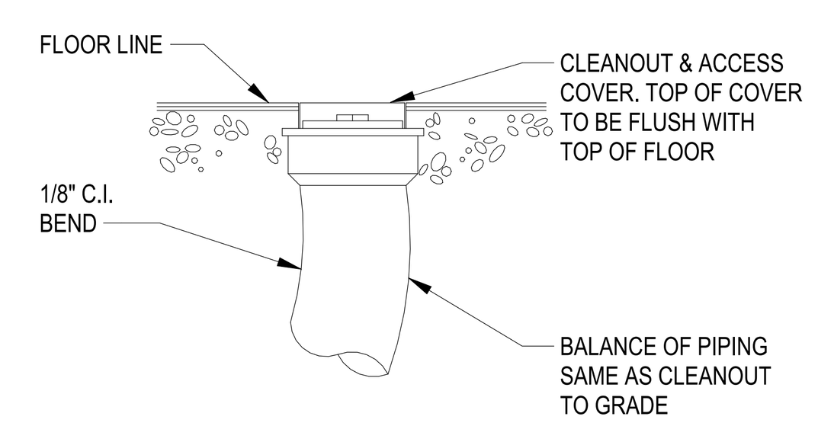
GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503



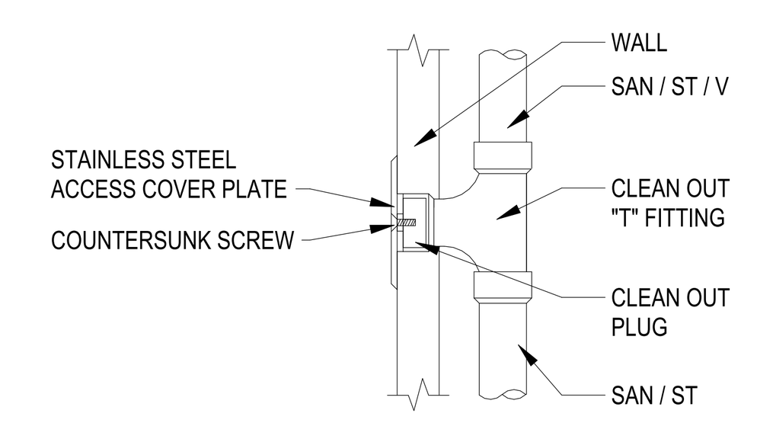
9 HOT WATER RECIRC PUMP DETAIL
NOT TO SCALE



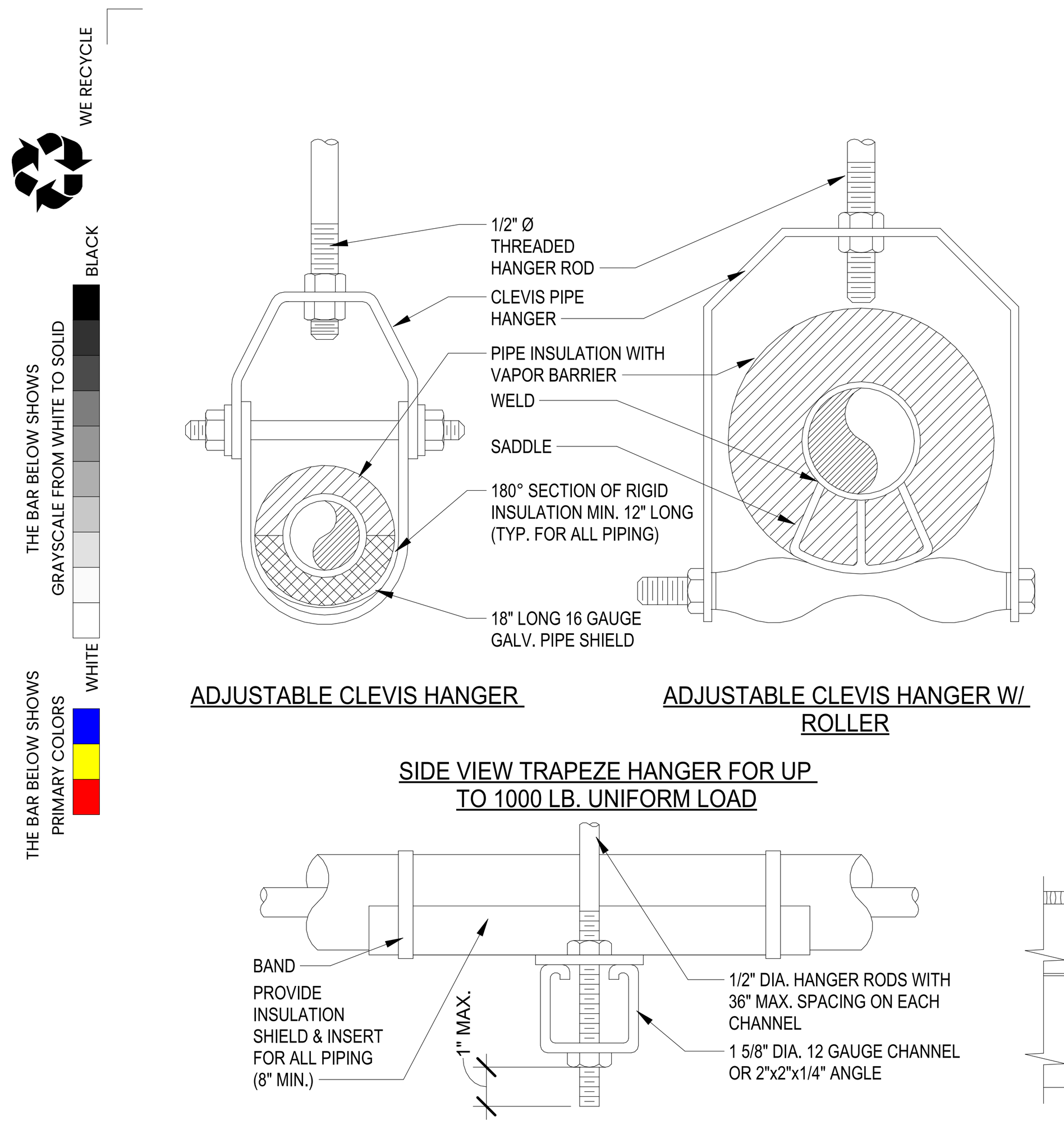
8 CEILING MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



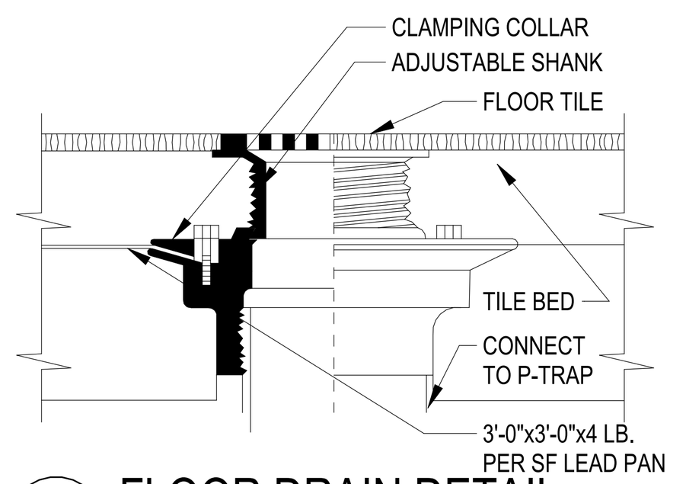
7 FLOOR CLEANOUT DETAIL
NOT TO SCALE



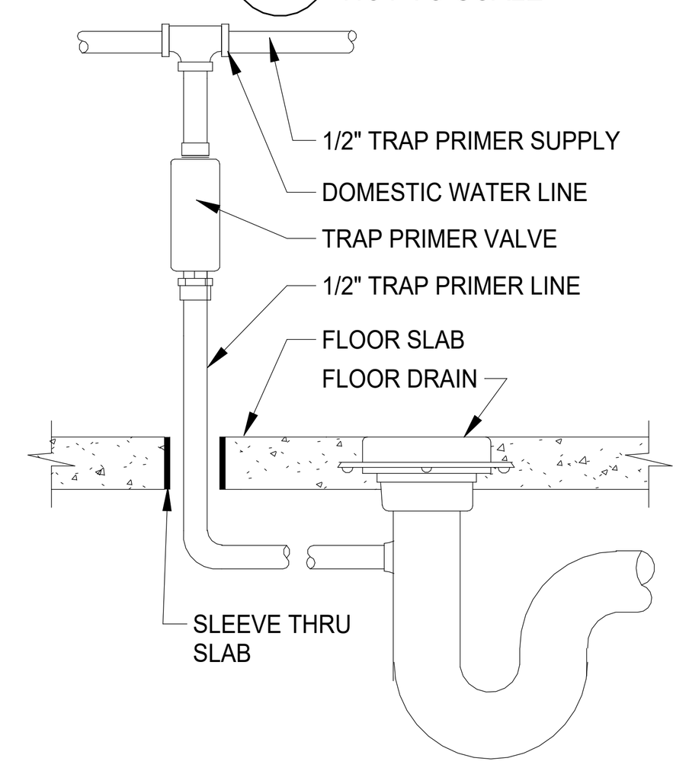
6 CLEANOUT - WALL MOUNTED
NOT TO SCALE



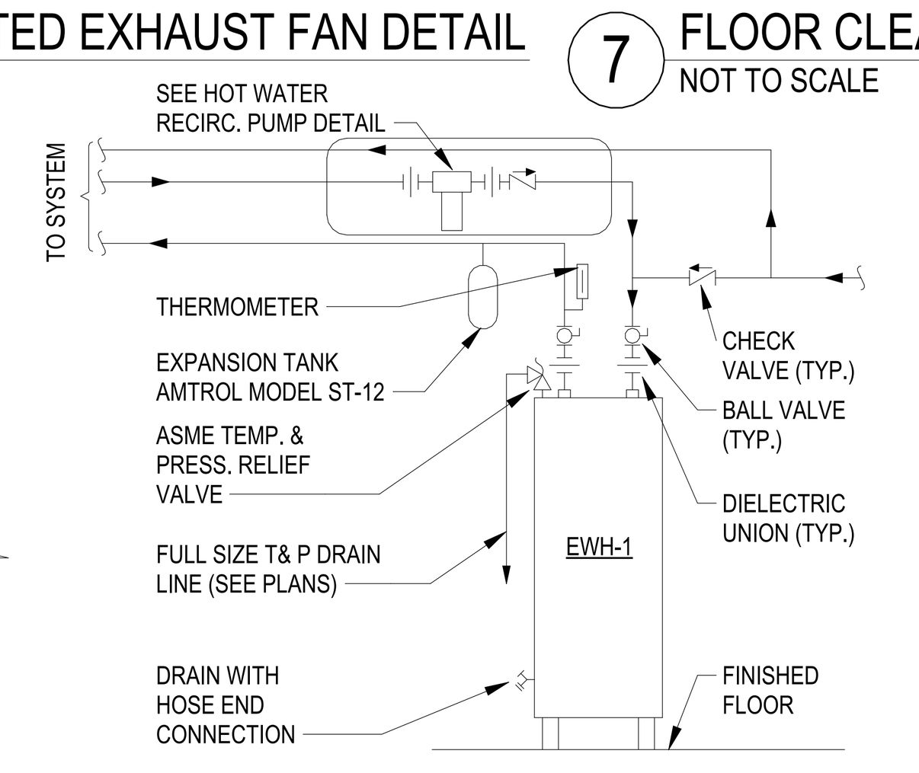
5 PIPE SUPPORT DETAIL
NOT TO SCALE



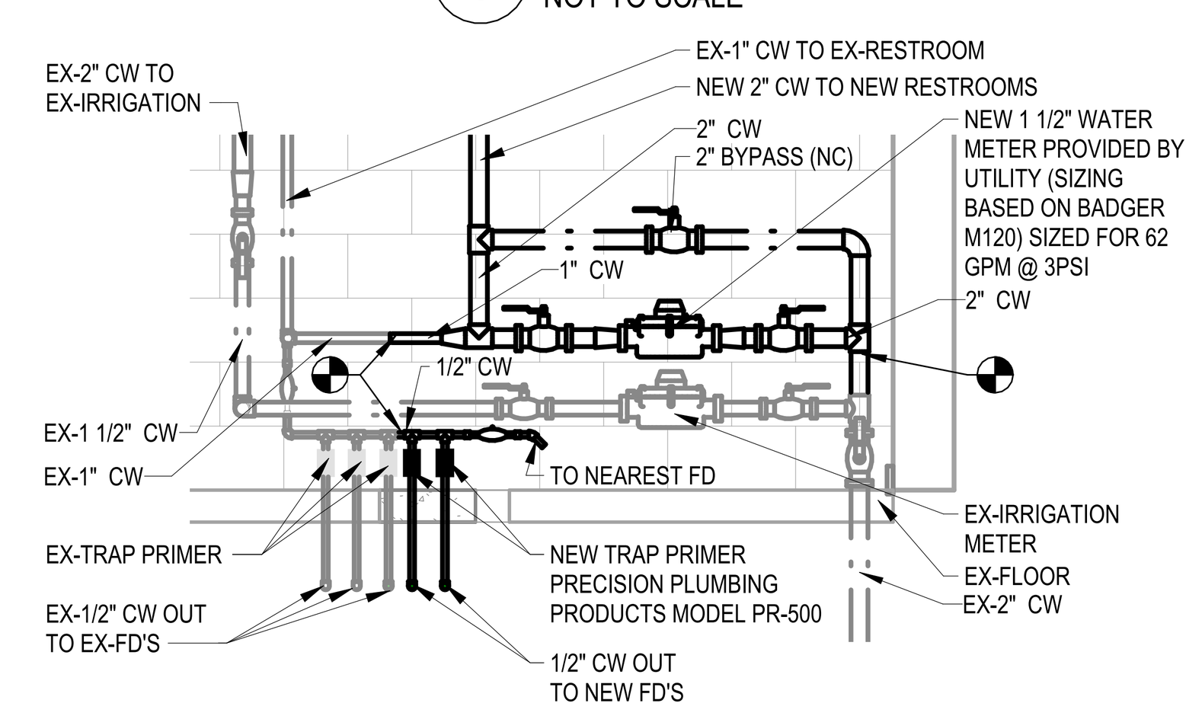
4 FLOOR DRAIN DETAIL
NOT TO SCALE



3 DRAIN - TRAP SEAL PRIMER
NOT TO SCALE



2 ELECTRIC WATER HEATER (EWH-1)
NOT TO SCALE



1 WATER SERVICE DETAIL
NOT TO SCALE

PLUMBING DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REVIEW THE ENTIRETY OF THE DRAWINGS AND SPECITICATIONS BEFORE ANY WORK IS STARTED.
2. ALL WORK TO BE DEMOLISHED IS NOTED WITH DASHED LINES, OR A DEMOLITION KEYNOTE, OR BOTH. REVIEW THE DEMOLITINO KEYNOTES PRIOR TO BEGINNING THE WORK.
3. EXCEPT FOR WHEN NOTED ON DRAWINGS, PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS NOTED TO BE REMOVED SHALL BE ENTIRELY DEMOLISHED, AND SHALL BECOME PROPERTY OF THE CONTRACTOR TO REMOVE FROM THE SITE, WHILE FOLLOWING ALL CODES ARE REQUIREMENTS.
4. ITEMS NOTED FOR SALVAGE SHALL BE REMOVED WITH DUE CARE TAKEN AND RETUNED TO THE OWNER IN A LIKE CONDITION TO IT'S PREVIOUS STATE.
5. DEMOLITION SHALL BE COORDINATED WITH OTHER TRADES. THE CONTRACTOR IS RESPOINSIBLE FOR ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED IN THE DEMOLITION PROCESS.
6. THESE DRAWINGS ARE COMPILED BY THE ARCHITECT AND ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. AREAS OF WORK THAT DIFFER GREATLY FROM THE DEMOLITION PLAN SHALL GENERATE AND RFI TO THE ENGINEER.
7. PLUMBING FIXTURES, EQUIPMENT, AND SYSTEMS LOCATED IN THE AREA OF DEMOLITION BUT USED TO SERVE ARES THAT ARE NOT TO BE DEMOLISHED SHALL BE LEFT EXISTING TO REMAIN OR RELOCATED IN SUCH A WAY AS TO MAINTAIN THE ORIGINAL DESIGN INTENT OF THE SYSTEM.

PLUMBING PIPING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
V	SANITARY VENT (ABOVE GRADE)
SAN	SANITARY (ABOVE GRADE)
SAN	SANITARY (BELOW GRADE)
	TOP CONNECTION, 45 OR 90
	SIDE CONNECTION
	BOTTOM CONNECTION, 45 OR 90
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN PROPOSED AND EXISTING SYSTEMS
	DEMOLITION ENDPOINT
WCO	WALL CLEANOUT
	HOSE BIBB
	WALL HYDRANT (IN RECESSED BOX)

MECHANICAL/PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BDD	BACKDRAFT DAMPER
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
EFF	EFFICIENCY
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EA	EXHAUST AIR
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FCO	FLOOR CLEANOUT
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HB	HOSE BIBB
HP	HORSEPOWER
HZ	FREQUENCY
HW	HOT WATER
HWR	HOT WATER RETURN
IN	INCHES
IN WC	INCHES WATER COLUMN
IPC	INTERNATIONAL PLUMBING CODE
LAV	LAVATORY
MCA	MINIMUM CIRCUIT AMPACITY
MPC	MICHIGAN PLUMBING CODE
MMC	MICHIGAN MECHANICAL CODE
MR	MANUFACTURER'S RECOMMENDATIONS
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	ROUNDS PER MINUTE
SAN	SANITARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	SANITARY VENT
WCO	WALL CLEANOUT
W	WATTS

MECHANICAL/PLUMBING GENERAL NOTES:

1. IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS, OR ANY COMBINATION THEREOF, IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
2. THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
3. DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY, INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
4. ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
5. FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
6. ALL MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ORDINANCES, CODES, AND LAWS. FOR PURPOSES OF THIS DESIGN, THE CODES FOR THE STATE OF **MICHIGAN** WERE USED AS THE BASIS.
7. ALL ABOVE CEILING SYSTEMS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC.) SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITHIN THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
8. COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION, AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK.
9. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (DAMPERS, TERMINAL UNITS, FILTERS, BALANCING VALVES, ISOLATION VALVES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
10. CONTRACTOR SHALL FURNISH AND INSTALL BEVELED OR TAPERED TAKEOFFS AT ALL CONNECTIONS OF DUCT RUNOUTS TO TRUNKS. ALL FITTINGS SHALL BE IN ACCORDANCE WITH SMACNA.
11. COORDINATE LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL, STRUCTURAL, CIVIL, INTERIORS, AND ELECTRICAL PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE MECHANICAL CONTRACTOR TO THE ENGINEER PRIOR TO PROCEEDING AND COMPLETION OF WORK
12. HINGED STEEL ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL ABOVE CEILING EQUIPMENT REQUIRING ACCESS OR SERVICE (VALVES, ACCESSORIES, ETC.) IN GYPSUM CEILINGS. PANELS SHALL BE KEYED FOR ACCESS BY MAINTENANCE STAFF ONLY, AND FINISHED WITH WHITE BAKED-ON ENAMEL. MECHANICAL CONTRACTOR SHALL CONSOLIDATE ABOVE CEILING ACCESS REQUIREMENTS TO LIMIT THE NUMBER OF PANELS.
13. ALL SANITARY SHALL BE INSTALLED TO MAINTAIN 1/8" SLOPE FOR 3" OR LARGER AND 1/4" PER FOOT FOR 2" OR SMALLER. TYPICAL U.N.O.
14. ALL SANITARY SHALL BE FITTED WITH ACCESSIBLE CLEANOUT AT BASE. PROVIDE CLEANOUT COVER/WALL PLATE IN FINISHED AREAS. PROVIDE BOLLARDS IN EXPOSED AREAS. COORDINATE EXACT LOCATION WITH STEEL AND CONCRETE CONTRACTORS TO ENSURE BOLLARDS ARE PROVIDED.
15. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL NEW PLUMBING PENETRATIONS THROUGH RATED ASSEMBLIES.
16. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION VALVES AT ALL WATER CONSUMING FIXTURES, AND LOCATE VALVES TO ALLOW FOR ACCESS WITHIN 3 ' AFTER CONSTRUCTION IS COMPLETE.
17. ALL PIPING SHALL BE INSTALLED SO BUILDING REMAINS DRAINABLE FOR OFF SEASION.
18. ALL VALVES SHALL BE TWO PEICE BRASS FULL PORT BALL VALVES WITH STAINLESS STEEL TRIM UNO.
19. ALL DUCT WORK AND FITTINGSTO BE 24 GA GALVANIZED STEEL AND TO CONFORM TO SMACNA STANDARDS UNO.
20. PROVIDE PRODUCT DATA FOR EACH PRODUCT THAT IS INTENDED TO BE INSTALLED IN THIS PROJECT UNO.

DOMESTIC HOT WATER RECIRC PUMP SCHEDULE

GENERAL				PERFORMANCE			ELECTRICAL			NOTES
MARK	MANUFACTURER	MODEL	SERVING	FLOW (GPM)	WPD (FT-HD)	RPM	WATTS	VOLTAGE	PHASE	
RCP-1	BELL AND GOSSETT	NBF-12FLW	EWH-1	1	15	2800	55	120	1	1

1.PROVIDE WITH AQUASTAT AND TIMER.

ELECTRIC WATER HEATER SCHEDULE

GENERAL			PERFORMANCE		ELECTRICAL			NOTES
MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	WATER CONNECTION SIZE (IN)	ELEMENT WATTAGE	VOLTAGE	PHASE	
EWH-1	AO SMITH	DEL-30	30	3/4"	5000 W	240	1	1

1. MOUNT ON 4" CONCRETE HOUSKEEPING PAD.

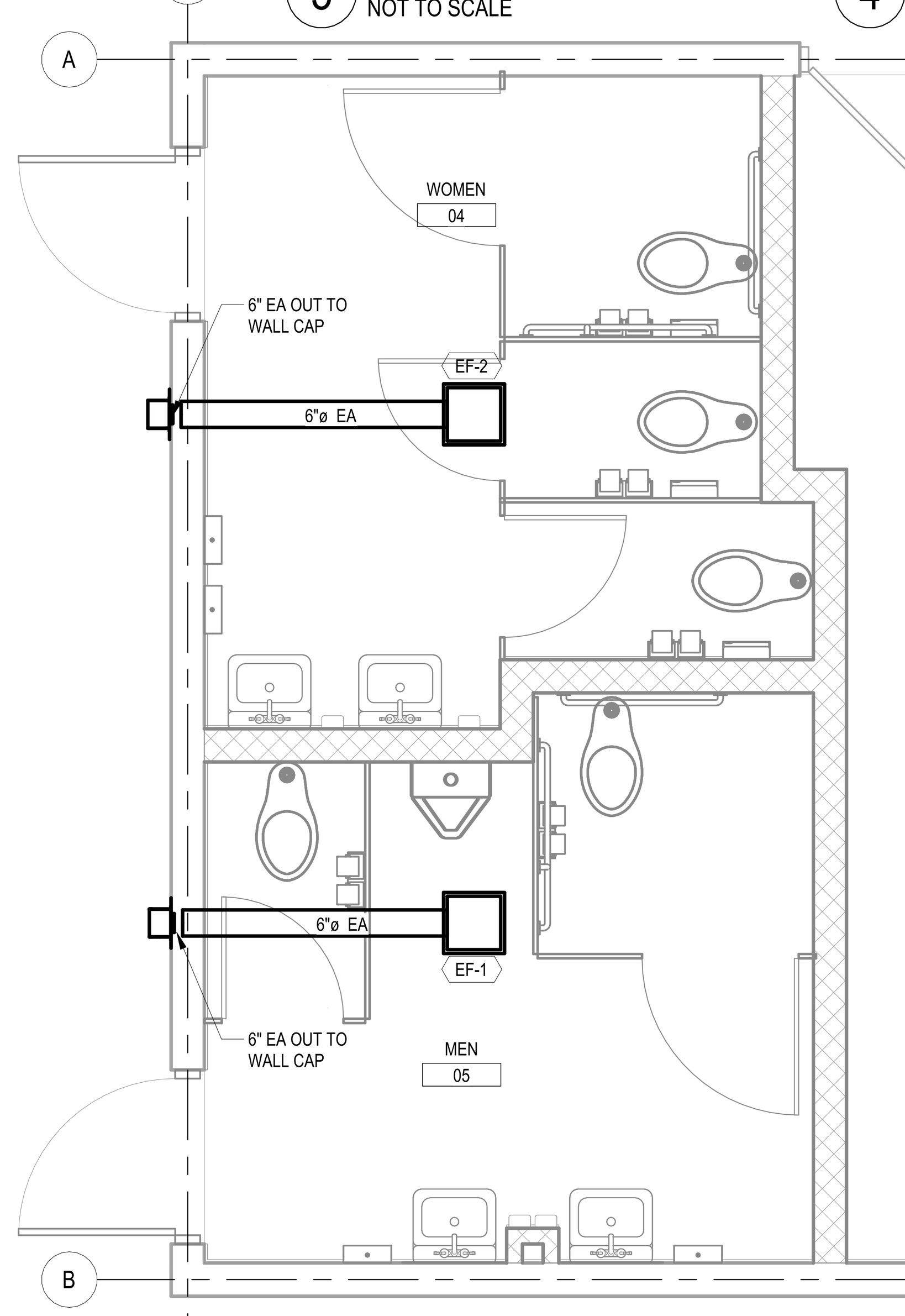
EXHAUST FAN SCHEDULE

GENERAL					FAN			ELECTRICAL				WEIGHT (LBS)	NOTES
MARK	MANUFACTURER	MODEL	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN-WG)	SPEED (RPM)	WATTS	VOLTAGE	PHASE	MCA		
EF-1	GREENHECK	SP-A510-VG	MENS RESTROOM	CEILING	225	0.25	821	29	120	1	3.1	35	1
EF-2	GREENHECK	SP-A510-VG	WOMENS RESTROOM	CEILING	225	0.25	821	29	120	1	3.1	35	1

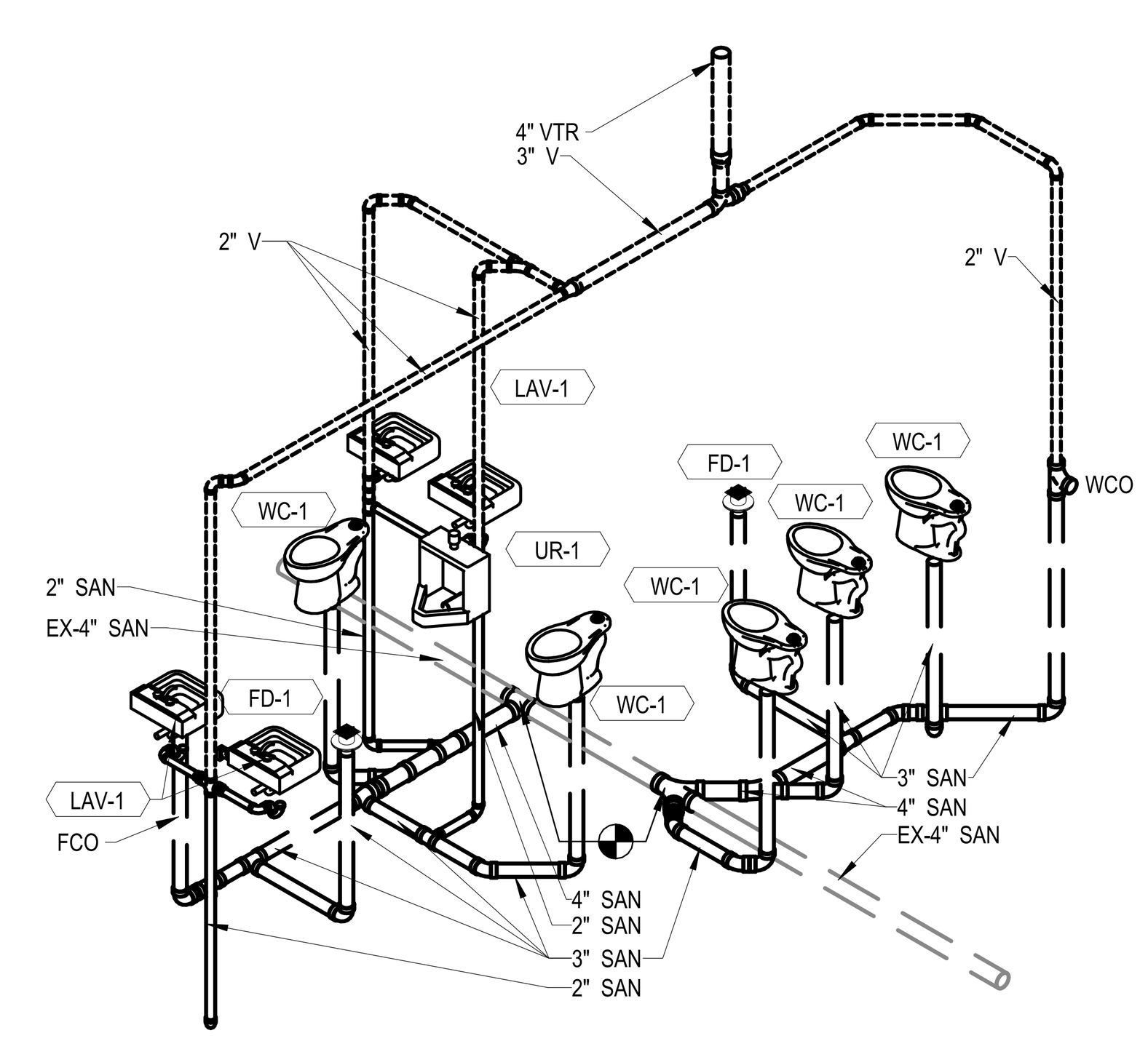
1. EXHAUST FAN TO BE INTERLOCKED WITH OCCUPANCY SENSOR.

PLUMBING FIXTURE SCHEDULE

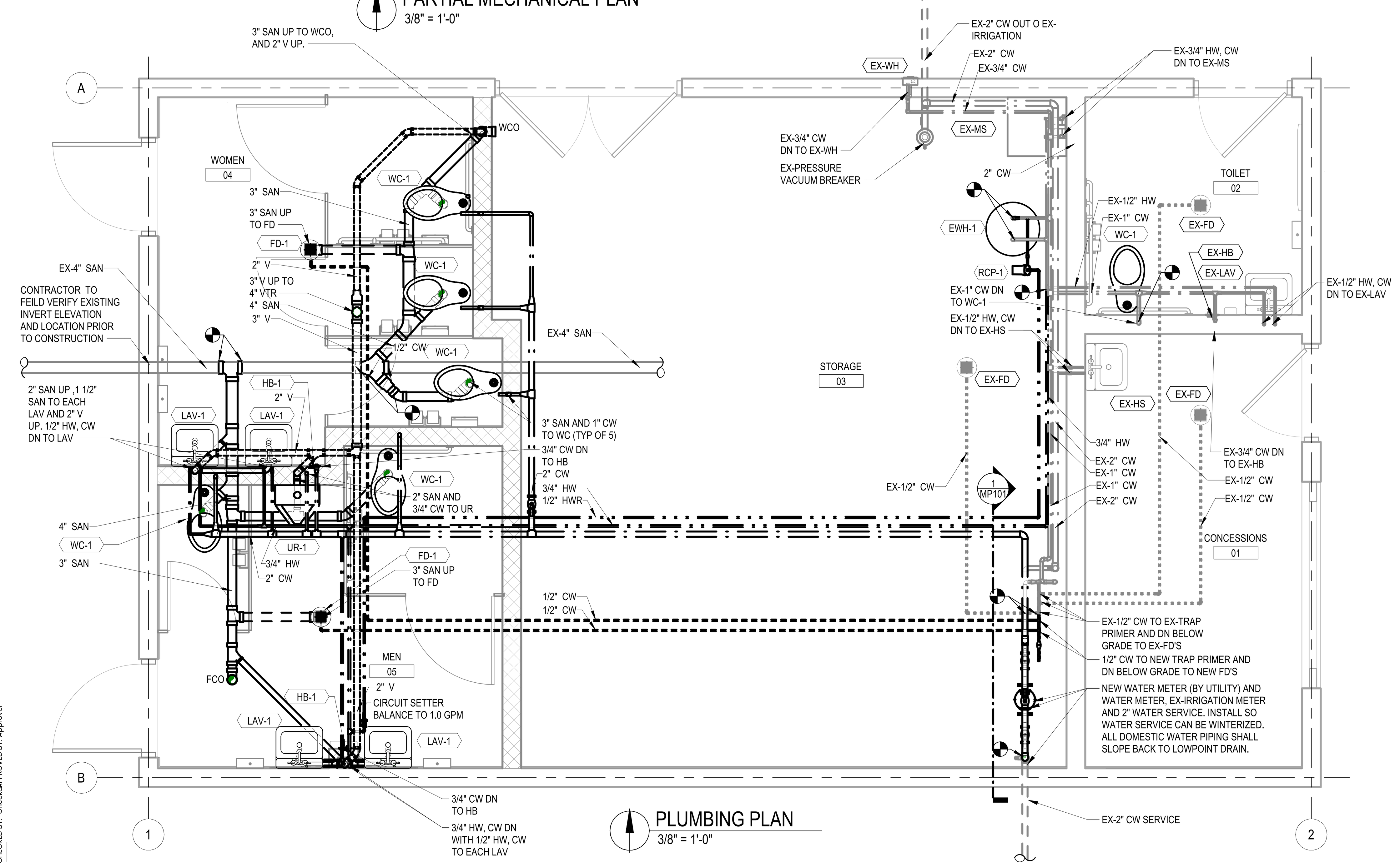
GENERAL				CONNECTIONS				DESCRIPTION
MARK	FIXTURE	MANUFACTURER	MODEL	SAN	VENT	CW	HW	
WC-1	WATER CLOSET	AMERICAN STANDARD	MADERA 3043001.020	3"	2"	1"		VITREOUS CHINA, FLOOR MOUNTED, ADA COMPLIANT, ELONGATED BOWL, FLUSH VALVE TOILET. HIGH EFFICIENCY, ULTRA LOW CONSUMPTION (1.28 GPF) WATER CLOSET.
	FLUSH VALVE	AMERICAN STANDARD	ULTIMA 6047121.002					MANUAL LEVER PISTON TYPE FLUSH VALVE ULTRA LOW CONSUMPTION (1.28 GPF).
	SEAT	AMERICAN STANDARD	5901110T.020					ELONGATED RIGHT WIDTH, OPEN FRONT, LESS COVER, SOLID PLASTIC TOILET SEAT, EVER CLEAN SURFACE
UR-1	URINAL	AMERICAN STANDARD	WASHBROOK 6590001EC.020	2"	1-1/2"	3/4"	-	VITREOUS CHINA, WALL MOUNTED, ADA COMPLIANT, HIGH EFFICIENCY, ULTRA LOW CONSUMPTION (0.125 GPF) PISTON TYPE FLUSH VALVE. PROVIDE WITH FLOOR MOUNTED WALL CARRIER.
	FLUSH VALVE	AMERICAN STANDARD	ULTIMA 6045013.002					MANUAL LEVER PISTON URINAL FLUSH VALVE ULTRA LOW CONSUMPTION (0.125 GPF).
LAV-1	WALL-HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355912.020	1-1/2"	1-1/2"	1/2"	1/2"	18-1/2" x 17" WALL MOUNTED VITRIOUS CHINA LAVATORY, 4" CENTERS, ADA COMPLIANT. PROVIDE WITH FLOOR MOUNTED WALL CARRIER.
	TRIM	AMERICAN STANDARD	MONTERREY 5500140.002					CAST BRASS BODY, 0.5 GPM VANDAL-RESISTANT, PRESSURE COMPENSATING MULTI-LAMINAR SPRAY, 4" WRIST BLADEHANDLES.
	DRAIN	AMERICAN STANDARD	7716.020					BRASS GRID DRAIN POLISHED CHROME, LESS OVERFLOW, 1-1/2" TAILPIECE.
	SUPPLIES	MCGUIRE	LF2165CCLK					1/2" AND 3/8" LOOSE KEY ANGLE STOP WITH BRASS STEMS AND 3/8" O.D. RISER.
	TRAP	MCGUIRE	8912					CAST BRASS P-TRAP WITH CLEANOUT PLUG AND BRASS NUTS AND TAILPIECE TO BE INSULATED TO COMPLY WITH ADA.
	MIXING VALVE	BRADLEY	S59-4000					ASSE 1070 LISTED FOR SINGLE FIXTURE USE.
FD-1	FLOOR DRAIN	JOSAM	30000-S	SEE PLANS	-	-	-	5" x 5" COATED CAST IRON BODY FLOOR DRAIN, TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEPHOLES, BOTTOM OUTLET AND AJUSTABLE SATIN NICKELOY SQUARE STRAINER. PROVIDE WITH TRAP SEAL RECTORSEAL MODEL SS3009.
HB-1	WALL MOUNTED HOSE BIB	WOODFORD	74-3/4	-	-	3/4"	-	ANTI-SIPHON, VACUUM BREAKER PROTECTED, WALL MOUNTED, CAST BRASS, CHROME PLATED, HOSE BIB, 3/4" CW CONNECTION.



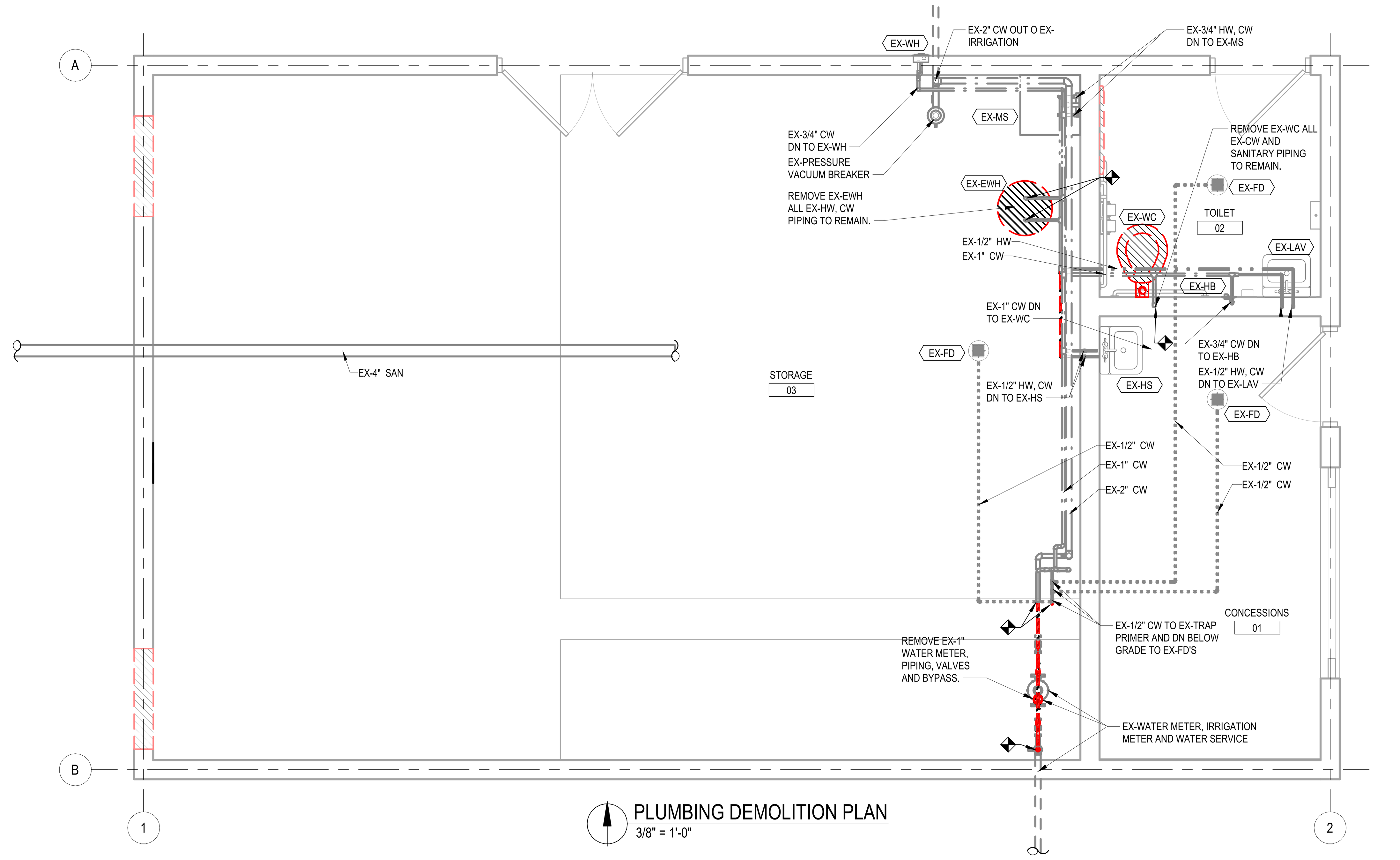
PARTIAL MECHANICAL PLAN
3/8" = 1'-0"



10 DWV PLUMBING ISOMETRIC PLAN



PLUMBING PLAN
3/8" = 1'-0"



PLUMBING DEMOLITION PLAN
3/8" = 1'-0"

PHASE

CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

MP101

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DESIGNED BY: Designer
CHECKED BY: Checker APPROVED BY: Approver

ELECTRICAL ABBREVIATIONS

1P	SINGLE POLE
1PH	SINGLE PHASE
2P	TWO POLE
3P	THREE POLE
3PH	THREE PHASE
©	COPYRIGHT
°	DEGREES
Δ	DELTA
Φ	PHASE
∟	ANGLE
A	AMP
AAP	ALARM ANNUNCIATOR PANEL
AC	AIRCRAFT CABLE
AC	ABOVE COUNTER
ACU	AIR CONDITIONING UNIT
AF	AMP FUSE
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISHED FLOOR
BKR	BREAKER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DEVICE
BOF	BOTTOM OF FIXTURE
BYP	BYPASS
C	CONDUIT
CCR	CONTROL CONTACT
CCTV	CLOSED CIRCUIT TELEVISION
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED / OWNER INSTALLED
CHH	COMMUNICATIONS HANDHOLE
CKT	CIRCUIT
CKT BKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CMH	COMMUNICATIONS MANHOLE
COAX	COAX CABLE
COD	CENTER OF DEVICE
COMM	COMMUNICATION
CP	CONTROL PANEL
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TV
CU	COPPER
D	DATA
DB	DIRECT BURIAL
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DISC	DISCONNECT
DIST	DISTRIBUTION
DMR	DIMMER
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EHH	ELECTRICAL HANDHOLE
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER

ELECTRICAL ABBREVIATIONS

EX	EXISTING
EXIST	EXISTING
EXP	EXPLOSION PROOF
EXT	EXTERNAL
(F)	FIELD LOCATED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FF	FINISH FLOOR
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
FLUOR	FLUORESCENT
FP	FIRE PROTECTION
FT	FEET OR FOOT
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GBB	GROUND BUS BAR
GC	GENERAL CONTRACTOR
GDP	GENERATOR DISTRIBUTION PANEL
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
IS	INSTANT START (BALLAST)
IWH	INSTANTANEOUS WATER HEATER
JB	JUNCTION BOX
JXN	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LGR	BMS CONTROLLER PANEL
LM	LUMEN
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MIXER CONTROL PANEL
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MICRO	MICROWAVE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCH BOARD
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION

ELECTRICAL ABBREVIATIONS

NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	ODOR CONTROL PANEL
OD	OUTSIDE DIAMETER
OL	OVERLOADS THERMAL
OLC	OUTDOOR LIGHTING CONTACTOR
OS	OCCUPANCY SENSOR
P	POLE OR PUMP
PA	PUBLIC ADDRESS
PB	PUSHBUTTON OR PULL BOX
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PC	PHOTO-SWITCH
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PFRE	POWER FAILURE RELAY ENCLOSURE
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PTT	PUSH-TO-TEST
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
R	RELAY
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECEPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
SASW	SAFETY SWITCH
SCC	SHORT CIRCUIT CAPACITY
SD	SMOKE DETECTOR
SES	SERVICE ENTRANCE SECTION
SF	SQUARE FOOT (FEET)
SH	SHIELDED
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SSRV	SOLID STATE REDUCED VOLTAGE
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWD	SWITCHING DUTY
SWGR	SWITCHGEAR
SZ	SIZE
TB	TERMINAL BOX
TC	TIME CLOCK
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNV	UNIVERSAL VOLTAGE DRIVER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLT METER
VOLT	VOLTAGE
VSC-X	VENTILATION CONTROL STATION, TYPE X
W	WATT
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFAF	XX AMPERE FUSE
XFAS	XX AMPERE SWITCH
XFER	TRANSFER
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

LIGHTING

BACKBOX & RACEWAY BY	FURNISHED BY	INSTALLED BY	WIRED BY	SYMBOL	DESCRIPTION (C - CONTRACTOR, O - OWNER, V - OWNER'S VENDOR)	TYP. HT AFF
C	C	C	C	$	SWITCH, SINGLE POLE	BOD 44"
C	C	C	C	$3	SWITCH, SINGLE POLE 3-WAY	BOD 44"
C	C	C	C	$D	SWITCH, SINGLE POLE W/ DIMMING	BOD 44"
C	C	C	C	$OS	SWITCH, SINGLE POLE W/ OCCUPANCY SENSOR	BOD 44"
C	C	C	C	$VS	SWITCH, SINGLE POLE W/ VACANCY SENSOR	BOD 44"
C	C	C	C	$M	SWITCH, LOW-VOLTAGE MOMENTARY CONTACT	BOD 44"
C	C	C	C	$P	SWITCH, LABELED STATUS PILOT LIGHT	BOD 44"
C	C	C	C	OS	OCCUPANCY SENSOR, CEILING MOUNTED	
C	C	C	C	VS	VACANCY SENSOR, CEILING MOUNTED	
C	C	C	C	OS	OCCUPANCY SENSOR, WALL MOUNTED	96"
C	C	C	C	PC	EXTERIOR PHOTOCELL, BUILDING MOUNTED	
C	C	C	C	PP	LIGHTING CONTROLS, POWER PACK	
C	C	C	C	RC	LIGHTING CONTROLS, ROOM CONTROLLER	
C	C	C	C		LIGHT FIXTURE, RECESSED DOWN LIGHT	
C	C	C	C		LIGHT FIXTURE, SURFACE DOWN LIGHT	
C	C	C	C		LIGHT FIXTURE, SURFACE MOUNT DECORATIVE PENDANT	
C	C	C	C		LIGHT FIXTURE, RECESSED RECTANGULAR	
C	C	C	C		LIGHT FIXTURE, SURFACE MOUNTED RECTANGULAR	
C	C	C	C		LIGHT FIXTURE, INDUSTRIAL STRIP	
C	C	C	C		LIGHT FIXTURE, WALL MOUNTED EXIT SIGN	
C	C	C	C		LIGHT FIXTURE, CEILING MOUNTED EXIT SIGN	
C	C	C	C		LIGHT FIXTURE, WALL OR BUILDING MOUNTED SCONCE	
C	C	C	C		LIGHT FIXTURE, BUILDING MOUNTED WALL PACK	
C	C	C	C		LIGHT FIXTURE, POLE MOUNTED AREA LIGHT	
C	C	C	C		LIGHT FIXTURE ON EMERGENCY POWER	

EQUIPMENT/WIRING

BACKBOX & RACEWAY BY	FURNISHED BY	INSTALLED BY	WIRED BY	SYMBOL	DESCRIPTION (C - CONTRACTOR, O - OWNER, V - OWNER'S VENDOR)	TYP. HT AFF
C	C	C	C		SWITCH, SINGLE POLE	BOD 44"
C	C	C	C		SWITCH, PRESET TIMER SWITCH	BOD 44"
C	C	C	C		SWITCH, SINGLE POLE FUSED - SIZE PER EQUIPMENT, MOUNT TO EQUIPMENT OR	BOD 44"
C	C	C	C		SWITCH, MANUAL MOTOR STARTER - SIZE PER EQUIPMENT, MOUNT TO EQUIPMENT OR	BOD 44"
C	C	C	C		PUSH BUTTON OPERATOR OR CONTROL STATION	BOD 44"
C	C	C	C		3 BUTTON OPERATOR	
C	C	C	C		ENCLOSED CIRCUIT BREAKER	COD 60"
C	C	C	C		DISCONNECT, NON-FUSED	COD 60"
C	C	C	C		DISCONNECT, FUSED	COD 60"
C	C	C	C		STARTER	COD 60"
C	C	C	C		COMBINATION STARTER/DISCONNECT, NON-FUSED	COD 60"
C	C	C	C		COMBINATION STARTER/DISCONNECT, FUSED	COD 60"
C	C	C	C		VARIABLE FREQUENCY DRIVE	COD 60"
C	C	C	C		MOTOR, SINGLE PHASE	
C	C	C	C		MOTOR, THREE PHASE	
C	C	C	C	GBB	GROUNDING BUS BAR	COD 18"
C	C	C	C		ELECTRICAL PANEL, SURFACE OR RECESSED	TOD 72"
C	C	C	C		DATA RACK	
C	C	C	C		ELECTRICAL CONDUIT	
C	C	C	C	- - - - -	ELECTRICAL CONDUIT, UNDERGROUND	
C	C	C	C		ELECTRICAL CONDUIT, VERTICAL RUN	

POWER/COMMUNICATIONS

BACKBOX & RACEWAY BY	FURNISHED BY	INSTALLED BY	WIRED BY	SYMBOL	DESCRIPTION (C - CONTRACTOR, O - OWNER, V - OWNER'S VENDOR)	TYP. HT AFF
C	C	C	C		RECEPTACLE, DUPLEX	COD 18"
C	C	C	C		RECEPTACLE, DUPLEX - SURFACE MOUNTED	COD 18"
C	C	C	C	AC	RECEPTACLE, DUPLEX - 4" ABOVE BACKSPLASH OR	BOD 44"
C	C	C	C	SW	RECEPTACLE, DUPLEX - SWITCHED	COD 18"
C	C	C	C		RECEPTACLE, DUPLEX - CRITICAL POWER	COD 18"
C	C	C	C		RECEPTACLE, DUPLEX - EMERGENCY POWER	COD 18"
C	C	C	C	GFI	RECEPTACLE, DUPLEX - GFCI	COD 18"
C	C	C	C	WP	RECEPTACLE, DUPLEX - WEATHERPROOF GFCI	COD 18"
C	C	C	C	USB	RECEPTACLE, DUPLEX - USB - EQUAL TO PASS & SEYMOUR #TR5362USB	COD 18"
C	C	C	C		RECEPTACLE, DUPLEX - SENSOR CONTROLLED	COD 18"
C	C	C	C		RECEPTACLE, QUAD	COD 18"
C	C	C	C		RECEPTACLE, SINGLE	COD 18"
C	C	C	C		RECEPTACLE, SPECIAL - DIRECT WIRE OR PROVIDE MATCHING RECEPT PER MANUFACTURER'S RECOMMENDATION	COD 18"
C	C	C	C		FLOOR BOX, DUPLEX	
C	C	C	C		FLOOR BOX, QUAD	
C	C	C	C		FLOOR BOX, SPECIAL - DIRECT WIRE TO FURNITURE OR EQUIPMENT PER MANUFACTURER'S RECOMMENDATION	
C	C	C	C		RECEPTACLE, DUPLEX, CEILING MOUNTED	
C	C	C	C		CORD REEL, CEILING MOUNTED	

FIRE ALARM

BACKBOX & RACEWAY BY	FURNISHED BY	INSTALLED BY	WIRED BY	SYMBOL	DESCRIPTION (C - CONTRACTOR, O - OWNER, V - OWNER'S VENDOR)	TYP. HT AFF
C	C	C	C	F	MANUAL PULL STATION	BOD 44"
C	C	C	C	V	VISUAL NOTIFICATION DEVICE, WALL MOUNTED	TOD 96"
C	C	C	C	A	AUDIO NOTIFICATION DEVICE, WALL MOUNTED	TOD 96"
C	C	C	C	AV	AUDIO/VISUAL NOTIFICATION DEVICE, WALL MOUNTED	TOD 96"
C	C	C	C	V	VISUAL NOTIFICATION DEVICE, CEILING MOUNTED	
C	C	C	C	A	AUDIO NOTIFICATION DEVICE, CEILING MOUNTED	
C	C	C	C	AV	AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED	
C	C	C	C	SD	SMOKE DETECTOR, CEILING MOUNTED	
C	C	C	C	HD	HEAT DETECTOR, CEILING MOUNTED	
C	C	C	C	DD	DUCT DETECTOR	
C	C	C	C	DH	MAGNETIC DOOR HOLD DEVICE, WALL MOUNTED	
C	C	C	C	FS	FLOW SWITCH DEVICE	
C	C	C	C	TS	TAMPER SWITCH DEVICE	
C	C	C	C	FACP	FIRE ALARM CONTROL PANEL	TOD 72"
C	C	C	C	FAAP	FIRE ALARM ANNUNCIATOR PANEL	TOD 60"
C	C	C	C	FAPS	FIRE ALARM POWER SUPPLY (NAC)	TOD 72"

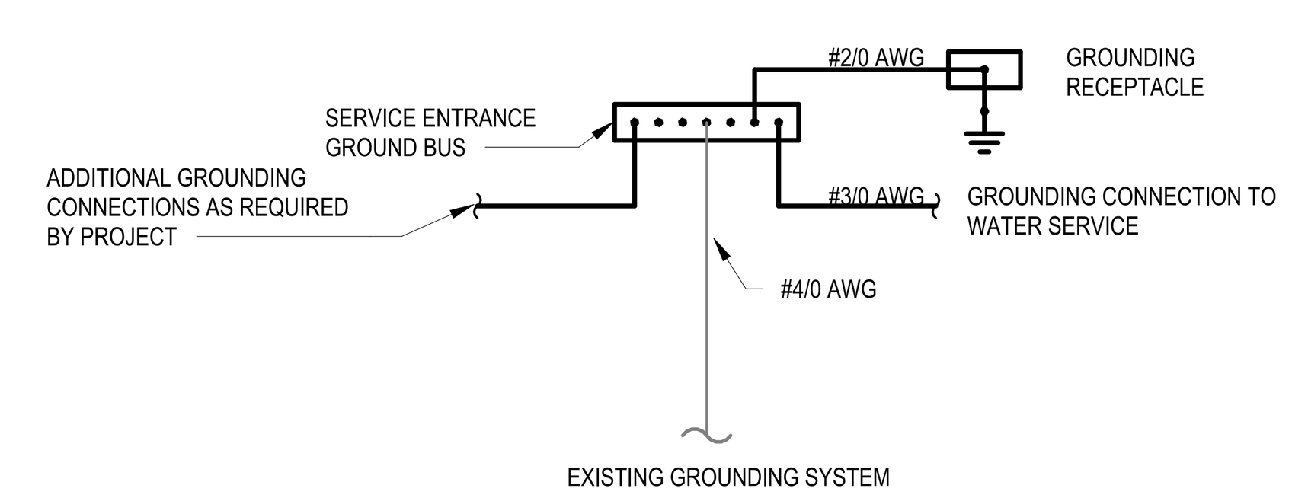
GENERAL NOTES

A. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL STATE AND LOCAL CODES.
B. AREAS ADJACENT TO THE PROJECT WORK AREA WITHIN THE FACILITY ARE TO REMAIN OPERATIONAL DURING NORMAL HOURS OF FACILITY OPERATION. COORDINATE ALL REQUIRED SYSTEM SHUTDOWNS WITH THE OWNER TO MINIMIZE DISRUPTION OF STAFF WITHIN THE FACILITY.
C. WORK MAY BE REQUIRED TO BE PERFORMED DURING OFF HOURS TO AVOID INTERFERING WITH THE OPERATION OF THE FACILITY. SEE PHASING OR CONSTRUCTION SEQUENCING INFORMATION ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS.
D. WHERE ELECTRICAL DEMOLITION WORK IS REQUIRED, IT SHALL INCLUDE REMOVAL OF ELECTRICAL MATERIALS AND EQUIPMENT. INCLUDE REMOVAL OF SERVICE, FEEDER AND BRANCH CIRCUIT CONDUCTORS, EXPOSED CONDUIT, HANGERS, ETC. BACK TO SOURCE. CONDUIT CONCEALED IN BUILDING CONSTRUCTION SHALL BE CUT OFF FLUSH WITH SURFACE AND PLUGGED WITH NON-SHRINK GROUT. UNDERGROUND CONDUIT SHALL BE CUT OFF 24 INCHES BELOW GRADE AND PLUGGED.
E. COORDINATE THE INSTALLATION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH ARCHITECTURAL AND MECHANICAL PLANS, SPECIFICATIONS AND EQUIPMENT DRAWINGS. PROVIDE ALL NECESSARY EQUIPMENT POWER AND CONTROL CONNECTIONS NOT PROVIDED BY OTHERS WHETHER INDICATED ON THE DRAWINGS OR NOT.
F. SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING.
G. BACK-TO-BACK OR THROUGH THE WALL BOXES SHALL NOT BE USED.
H. ALL CONDUITS RUN IN CONCRETE FLOOR SLABS SHALL BE SPACED A MINIMUM OF ONE CONDUIT DIAMETER APART EXCEPT WHERE THEY EXIT THE SLAB TO RISE TO A PANEL.
I. UNLESS OTHERWISE NOTED, ALL SINGLE PHASE BRANCH CIRCUITS FOR LIGHTING AND POWER SHALL BE 2#12 AND 1#12G IN ¾" CONDUIT.
J. MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NEC SHALL NOT BE USED. PROVIDE EACH SINGLE POLE CIRCUIT BREAKER/CIRCUIT WITH A SEPARATE NEUTRAL CONDUCTOR.
K. INSTALL NO MORE THAN THREE SINGLE POLE BRANCH CIRCUITS IN A SINGLE CONDUIT (UP TO 3 PHASE CONDUCTORS, 3 GROUNDED CONDUCTORS AND 1 GROUNDING CONDUCTOR).
L. INSTALL A HANDLE LOCK-ON DEVICE ON ALL CIRCUIT BREAKERS SUPPLYING NIGHT LIGHTS, EMERGENCY LIGHTS AND EXIT LIGHTS.
M. BATTERY BACKUP EXIT AND EMERGENCY LIGHTS SHALL BE FED FROM THE SAME CIRCUITS AS NORMAL LIGHTING IN THEIR RESPECTIVE AREAS AND CONNECTED AHEAD OF LOCAL SWITCHES.
N. BRANCH CIRCUIT CONDUCTORS SUPPLYING NIGHT LIGHTS, EMERGENCY LIGHTS AND EXIT LIGHTS SHALL BE 10-AWG MINIMUM.
O. ALL LOW VOLTAGE ELECTRICAL POWER CONDUCTORS SHALL BE STRANDED COPPER.
P. INSTALL AN INSULATED, GREEN, GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUIT RACEWAYS.
Q. SPLICE CABLES OR CONDUCTORS IN OUTLET BOXES, DEVICE BOXES, PULL BOXES, JUNCTION BOXES, MANHOLES OR HANDHOLES. DO NOT SPLICE CABLES OR CONDUCTORS IN CONDUIT BODIES.
R. RECEPTACLES INDICATED AS GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE MAY BE EITHER GFI RECEPTACLES OR DUPLEX RECEPTACLES CONNECTED TO A BRANCH CIRCUIT PROTECTED BY A GFI CIRCUIT BREAKER.
S. BRANCH CIRCUITS FROM CIRCUIT BREAKER TYPE DISTRIBUTION EQUIPMENT WHICH SUPPLY MOTOR LOADS THAT ARE LESS THAN 6.0 AMP SHALL BE PROTECTED BY A 15 AMP CIRCUIT BREAKER.
T. 120VAC CONTROL WIRING ASSOCIATED WITH MOTOR CONTROL CIRCUITS MAY BE RUN IN THE SAME RACEWAY WITH MOTOR POWER WIRING FOR CONSTANT SPEED MOTORS LESS THAN 30HP. FOR MOTORS 30HP AND GREATER OR FOR MOTORS POWERED FROM VARIABLE FREQUENCY CONTROLLERS, SEPARATE RACEWAYS SHALL BE USED FOR POWER AND CONTROL CONDUCTORS.
U. WITHIN ANY ROOM OR AREA, 120VAC CONTROL WIRING TO THE SAME DESTINATION MAY BE RUN IN THE SAME RACEWAY.
V. 120/208VAC CIRCUIT WIRING FOR ANY ROOM OR AREA MAY BE GROUPED INTO RACEWAYS AS REQUIRED UNLESS SEPARATE RACEWAYS ARE REQUIRED BY THE NEC. COMPLY WITH NEC REQUIREMENTS FOR CONDUCTOR DERATING.
W. CONDUIT RUNS IN FINISHED AREAS WITH EXPOSED CEILINGS ARE TO BE SUBMITTED TO ENGINEER/ ARCHITECT FOR FINAL REVIEW BEFORE INSTALLATION. CONDUIT RUNS ARE TO BE AS HIGH ON THE WALL AS POSSIBLE AND BE INSTALLED HORIZONTAL TO FLOOR.
X. IF COMPLIANCE WITH TWO OR MORE DIFFERING STANDARDS, REQUIREMENTS, DRAWINGS OR SPECIFICATIONS OR ANY COMBINATION THEREOF IS SPECIFIED AND THESE ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. THE MOST STRINGENT REQUIREMENT WILL BE THE BETTER QUALITY OR GREATER QUANTITY OF WORK AND WILL TYPICALLY BE THE MORE EXPENSIVE OPTION. REFER UNCERTAINTIES AND REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
Y. THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO ENGINEER FOR A DECISION BEFORE PROCEEDING.
Z. DESIGN DOCUMENTS MUST BE REPRODUCED IN THEIR ENTIRETY INCLUDING ALL PLANS, SPECIFICATIONS, AND FRONT END DOCUMENTS.
AA. ONLY COMPLETE DOCUMENT SETS ARE TO BE DISTRIBUTED TO SUBCONTRACTORS AND SUPPLIERS OF THE CONTRACTOR DURING BIDDING OR CONSTRUCTION.
AB. FAILURE TO REVIEW AND COMPLY WITH A FULL SET OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS A VALID REASON FOR FAILURE TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
AC. ALL ABOVE CEILING SYSTEMS AND COMPONENTS INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC. SHALL BE COORDINATED SUCH THAT THE SYSTEMS ARE PROPERLY INTEGRATED IN THE SPACE PROVIDED ABOVE THE CEILING AT THE CEILING HEIGHTS NOTED. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO COORDINATE PATHWAYS WITH THE SPACE PROVIDED. CEILING HEIGHTS WILL NOT BE MODIFIED.
AD. COORDINATE INSTALLATION OF ROOF MOUNTED MATERIALS AND EQUIPMENT WITH THE ROOFING CONTRACTOR OR ROOFING MANUFACTURER TO AVOID DAMAGE TO THE ROOFING SYSTEM.
AE. COORDINATE LOCATIONS OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, CIVIL, AND INTERIORS PRIOR TO ROUGH-IN. ALL CONFLICTS WITH FINISHES, ADJACENT CONSTRUCTION AND CONSTRUCTION DOCUMENTS ARE TO GENERATE AN RFI FROM THE CONTRACTOR TO THE ENGINEER PRIOR TO PROCEEDING WITH AND COMPLETION OF THE WORK.
AF. WHERE CIRCUIT CONDUCTOR SIZES OR QUANTITIES EXCEED THE EQUIPMENT TERMINATION CAPACITY, COMPRESSION TYPE CABLE REDUCING ADAPTERS; MECHANICAL OR COMPRESSION INLINE SPLICER-REDUCERS; OR MECHANICAL TWO WAY MULTI-TAP TYPE CABLE BLOCKS MAY BE USED TO REDUCE CONDUCTOR SIZE AND/OR QUANTITY TO ALLOW EQUIPMENT TERMINATIONS TO BE MADE. WITH SPLICER-REDUCERS AND CABLE BLOCKS, THE LENGTH OF THE REDUCED SIZE OR QUANTITY OF CONDUCTOR SHALL NOT EXCEED TEN FEET. THE AMPERE RATING OF THE REDUCED QUANTITY OR SIZE CONDUCTORS SHALL NOT BE LESS THAN THE RATING OF THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE.
AG. WHERE REQUIRED BY NEC, PROVIDE CIRCUIT BREAKERS AT SWITCHBOARDS AND PANELBOARDS FEEDING EQUIPMENT OR APPLIANCES WITH A FIXED ATTACHMENT FOR LOCKING THE CIRCUIT BREAKER HANDLE IN THE OFF POSITION.

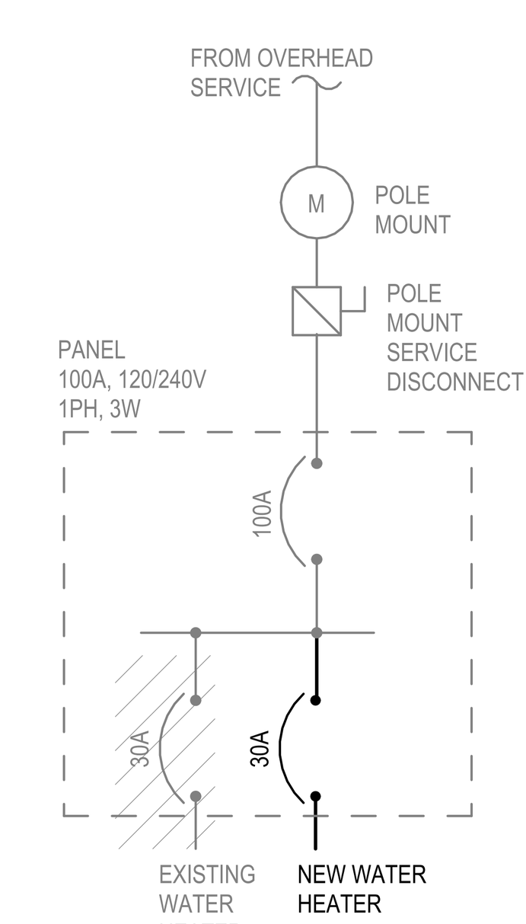
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUF.	MODEL	MOUNTING	LAMP TYPE	VOLTAGE	WATTAGE	MIN. DELIVERED LUMENS	COLOR TEMP.	LENS	FIXTURE FINISH	DIMMING	REMARKS
A	4' HIGH ABUSE LINEAR WITH DAMP LOCATION RATING	KENALL LIGHTING	MLHA3 48 F MW FA 800LF 35K8 DIM1 DV LEL DL	SURFACE MOUNT	LED	120V	24 W	3200	3500K	FROSTED ACRYLIC	WHITE	0-10V	PROVIDE FIXTURES LABELED "EM" WITH 10W BATTERY BACK-UP.
W	EXTERIOR WALL PACK	LITHONIA LIGHTING	WDGE2 LED P2 40K 80CRI T2M MVOLT SRM DBLXD	WALL MOUNTED - HEIGHT INDICATED ON PLANS	LED	120V	19 W	1875	4000K	PRECISION REFRACTIVE	BRONZE	0-10V	PROVIDE FIXTURES LABELED "EM" WITH 10W BATTERY BACK-UP.

1. CONTRACTOR MAY SUBSTITUTE LUMINAIRES BY OTHER MANUFACTURERS IF EQUAL IN ALL RESPECTS TO THE SCHEDULED LUMINAIRES. PRE-APPROVED MANUFACTURERS ARE TO BE COOPER, EATON, ACUITY, SIGNIFY AND HUBBELL. REFER TO THE INSTRUCTIONS FOR BIDDERS AND DIVISION 1 SPECIFICATIONS FOR SUBMITTAL PROCEDURES.
2. CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF LUMINAIRES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION AND ADJACENT FINISHES PRIOR TO SHOP DRAWING SUBMITTAL AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
3. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY AT, ABOVE OR BELOW THE CEILING PLANE TO SUPPORT THE LUMINAIRES.
4. LUMINAIRES SHALL BE UL LISTED AND BEAR THE APPROPRIATE LABEL.
5. REFER TO THE ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS AND CONFIGURATIONS OF LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, SUBMIT AN RFI FOR THE ARCHITECT/ENGINEER TO SPECIFICALLY CLARIFY PRIOR TO LUMINAIRE ROUGH-IN. THE ELECTRICAL DRAWINGS SHALL NOT BE USED TO DETERMINE LUMINAIRE LOCATIONS UNLESS OTHERWISE NOTED.
6. EXACT LOCATIONS OF LUMINAIRES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. LUMINAIRES SHALL NOT BE SUPPORTED FROM PIPING OR DUCTWORK. PROVIDE CHAIN OR TRAPEZE TYPE HANGERS WHERE LUMINAIRES CANNOT BE MOUNTED DIRECTLY TO CEILING.
7. LUMINAIRE MODEL IS INDICATIVE OF THE STYLE OF LUMINAIRE REQUIRED. CONTRACTOR SHALL PROVIDE LUMINAIRES WITH PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
8. CONNECT ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING. PROVIDE DIRECTIONAL ARROWS AND DOUBLE FACED UNITS WHERE REQUIRED.
9. WHERE LUMINAIRES ARE CONTROLLED BY OCCUPANCY OR VACANCY SENSORS, PROVIDE ALL POWER PACKS OR RELAYS AS REQUIRED.
10. INSTALL RECESSED LUMINAIRES SUCH THAT THE BOTTOM OF THE LUMINAIRE IS EVEN WITH THE FINISHED CEILING PLANE. LEVEL THE LUMINAIRE AS REQUIRED AFTER THE FINISHED CEILING PLANE HAS BEEN INSTALLED SUCH THAT THE LUMINAIRE FLANGE FITS FLUSH AND THERE IS NO VISIBLE LIGHT LEAKAGE.
11. AIM OR TARGET ALL ADJUSTABLE LUMINAIRES. FINAL AIMING TO BE APPROVED BY THE ARCHITECT/ENGINEER.
12. "TBD"- FINISH TO BE DETERMINED BY ARCHITECT FROM ALL STANDARD AND PREMIUM FINISH OPTIONS.
13. EMERGENCY LIGHTING CALCULATIONS: CONFIRM COMPLIANCE WITH BUILDING CODE REQUIREMENTS FOR EMERGENCY LIGHTING LEVELS AND DEMONSTRATE COMPLIANCE BY GENERATING AND SUBMITTING A POINT BY POINT LIGHTING CALCULATION BASED UPON ACTUAL FIXTURES USED IN ACTUAL LOCATIONS.



GROUNDING SYSTEM DETAIL
NOT TO SCALE



ONE LINE NOTES

A. ALL INDICATED BREAKERS ARE 2-POLE.
B. FURNISH AND INSTALL 2-#10 AWG, #10G FOR WATER HEATER CONNNECTION.

ONE-LINE DIAGRAM
NOT TO SCALE

(866) 454-3923 | WWW.C2AE.COM

GENERAL NOTES AND LEGENDS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

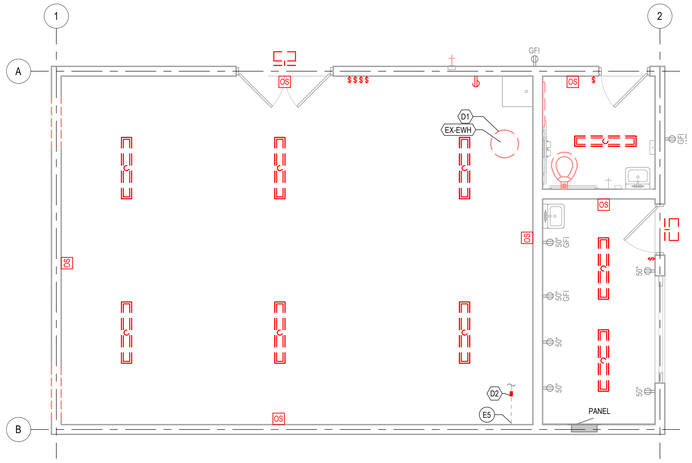
ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

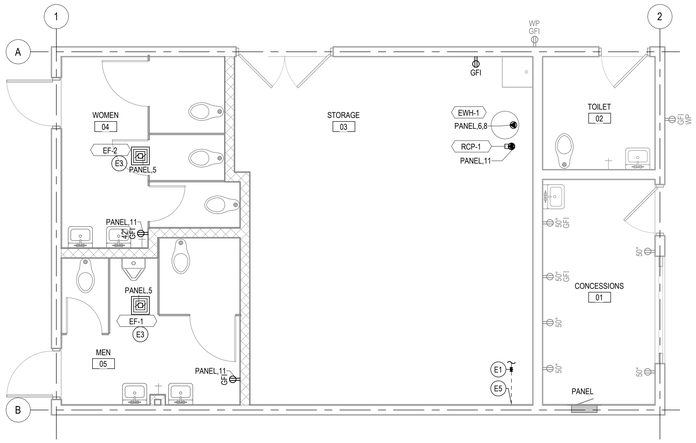
PROJ. #: 24-0162

E-001

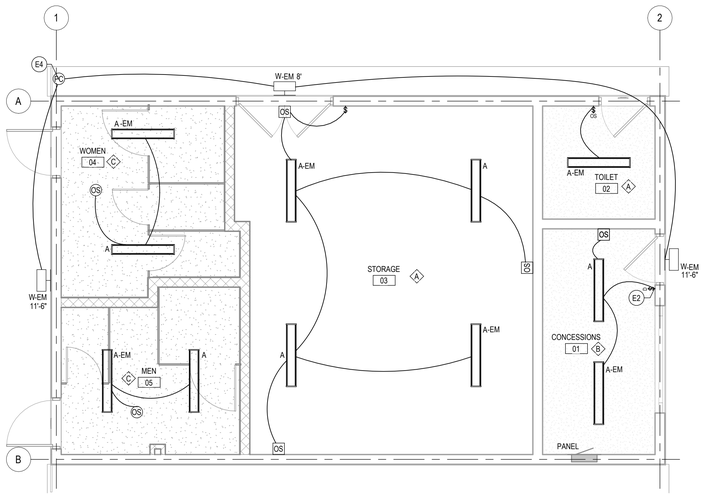
10/22/2024 8:33:37 AM
Autodesk Docs://240162_GRPS Briggs Field Replacement/240162_E.rvt
DESIGNED BY: Designer
CHECKED BY: Checker APPROVED BY: Approver



ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



ELECTRICAL FLOOR PLAN
1/4" = 1'-0"



ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

A. REFER TO SHEET E-001 FOR MORE INFORMATION.

B. DEMOLITION NOTES ARE BASED UPON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT CONDITIONS AT THE SITE AND REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE DISTURBING THE INSTALLATION.

C. THE SCOPE OF THE REQUIRED DEMOLITION IS NOT LIMITED TO THE ITEMS OR WORK INDICATED ON THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DETERMINE THE NATURE AND EXTENT OF WORK REQUIRED. THE CONTRACTOR ACCEPTS EXISTING SITE CONDITIONS AT THE START OF DEMOLITION.

D. WHERE ELECTRICAL COMPONENTS ARE SHOWN TO BE REMOVED, RECONNECT REMAINING COMPONENTS TO EXISTING CIRCUIT(S) AND PROVIDE TEMPORARY CIRCUIT(S) DURING CONSTRUCTION AS REQUIRED.

E. WHERE THE DRAWINGS SHOW DEVICES OR EQUIPMENT TO BE PERMANENTLY REMOVED, REMOVE CONDUCTORS BACK TO SOURCE, TURN CIRCUIT BREAKER OFF AND LABEL THE CIRCUIT BREAKER AS A SPARE ON A NEWLY PRINTED PANELBOARD DIRECTORY.

F. REMOVE ALL ABANDONED CONDUIT. THE ELECTRICAL CONTRACTOR SHALL CUT CONDUIT FLUSH WITH WALLS AND FLOORS UNLESS OTHERWISE NOTED. PATCH ALL SURFACES AND PROVIDE FIRESTOPPING WHERE REQUIRED.

G. REPAIR ADJACENT CONSTRUCTION AND FINISHES WHERE DAMAGED BY DEMOLITION WORK. REPAIRS SHALL BE MADE TO RETURN SPACE TO ORIGINAL CONDITION PRIOR TO COMPLETION OF THE PROJECT.

H. EQUIPMENT AND DEVICES SHOWN AS RED AND DASHED ON THE DRAWINGS ARE TO BE REMOVED.

I. LIGHTING FIXTURES SHALL BE DISPOSED OF ACCORDING TO STATE AND FEDERAL GUIDELINES. LIGHTING FIXTURES, WHERE NOTED, SHALL BE TURNED OVER TO THE OWNER. DISPOSE OF ALL LAMPS AS REQUIRED AND DIRECTED IN THE LATEST STATE AND FEDERAL GUIDELINES.

J. DISCONNECT AND REMOVE ALL ELECTRICAL SYSTEMS INCLUDING SPECIAL SYSTEMS, IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL.

K. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN OPERATION OF EXISTING SYSTEMS DURING CONSTRUCTION. CONDITIONS SHALL BE RETURNED TO NORMAL AT THE CLOSE OF THE PROJECT.

L. PROVIDE BLANK COVERS PLATES ON ALL JUNCTION AND DEVICE BOXES WHERE DEVICE HAS BEEN REMOVED AND BOX IS TO REMAIN FOR FUTURE USE.

M. DISPOSE OF ALL MATERIALS AND EQUIPMENT REMOVED THAT ARE NOT TO BE TURNED OVER TO THE OWNER.

N. COORDINATE ALL DISRUPTIONS OF SERVICE WITH THE OWNER. DO NOT PROCEED WITH DISRUPTIONS WITHOUT OWNER'S APPROVAL.

O. REMOVE ALL CONDUIT, CONDUCTORS, CABLES, JUNCTION BOXES, HANGERS AND ALL OTHER ASSOCIATED SPECIFICATION DIVISION 26, 27 AND 28 DEVICES LOCATED IN THE SCOPE OF THE WORK AREA. REMOVE BACK TO SOURCE PANEL. TERMINATION OR SPLICE LOCATED OUTSIDE OF PROJECT SCOPE OF WORK AREA, EXCEPT WHERE NOTED OTHERWISE.

P. CIRCUITS INDICATED TO ORIGINATE IN EXISTING PANELBOARDS ARE FOR REFERENCE ONLY. FIELD VERIFY QUANTITY OF EXISTING SPARE CIRCUIT BREAKERS AND IDENTIFY THOSE MADE AVAILABLE DURING DEMOLITION. UTILIZE SPARE CIRCUIT BREAKERS TO SERVE NEW LOADS. PROVIDE NEW SINGLE AND MULTI-POLE BREAKERS WHERE INDICATED ON RISER AND/OR SCHEDULE AND IDENTIFY THOSE WHICH WILL REMAIN AS SPARES. PROVIDE A PRINTED, UPDATED PANELBOARD SCHEDULE.

Q. TRACE ALL EXISTING CONDUCTORS AND CABLES RUNNING THROUGH PROJECT SCOPE OF WORK AREA THAT DO NOT CONNECT TO COMPONENTS INSIDE THE SCOPE OF WORK. REMOVE COMPONENTS THAT HAVE BEEN ABANDONED.

GENERAL NOTES

A. REFER TO SHEET E-001 FOR MORE INFORMATION.

B. POWER ALL LIGHTING TO CIRCUIT 5 ON PANEL.

DEMOLITION KEYNOTES (DK)

D1	DISCONNECT AND DEMOLISH CONNECTION FROM EX-EWH.
D2	DEMOLISH GROUNDING WIRES FROM WATER METER.

KEYNOTES (E#)

E1	GROUND NEW WATER METER. REFER TO GROUNDING SYSTEM DETAIL.
E2	LIGHT SWITCH SHARES J-BOX AND COVERPLATE WITH EXISTING RECEPTACLE. REPLACE COVERPLATE TO ACCOMMODATE CONDITION.
E3	INTERCONNECT EXHAUST FAN WITH LIGHTS TO SIMULTANEOUSLY TURN ON/OFF.
E4	CONNECT ALL EXTERIOR LIGHTING TO PHOTOCELL.
E5	WATER SERVICE ENTRANCE.

TYPICAL AREA LIGHTING CONTROL

DESIGNATOR	ROOM CONTROL DESCRIPTION
A	PROVIDE DUAL-TECHNOLOGY WALL BOX OCCUPANCY SENSOR SWITCH. PROGRAMMED FOR VACANCY SENSING WITH ON/OFF CONTROLS. CONFIGURE FOR MANUAL ON AND MANUAL OR VACANCY SENSOR OFF.
B	PROVIDE DUAL-TECHNOLOGY WALL BOX OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. CONFIGURE FOR MANUAL ON AND MANUAL OR VACANCY SENSOR OFF.
C	PROVIDE ROOM CONTROLLER WITH DUAL-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSORS, PROGRAMMED FOR OCCUPANCY SENSING. CONFIGURE FOR SENSOR ON, SENSOR OFF, OR OVERRIDE SWITCH ON/OFF.

NOTES:
1. PROVIDE LIGHTING CONTROLS WHICH COMPLY WITH THE 2017 MICHIGAN ENERGY CODE.
2. NOT ALL REQUIRED LIGHTING CONTROL DEVICES ARE SHOWN ON THE PLANS. PROVIDE ALL REQUIRED DEVICES, CONNECTIONS AND CONFIGURATION NECESSARY FOR ENERGY CODE COMPLIANCE.
3. SENSOR LOCATIONS SHOWN ARE APPROXIMATE. VERIFY REQUIRED LOCATIONS WITH MANUFACTURER PRIOR TO INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, RECOMMENDED COMPONENT PLACEMENT AND FIELD VERIFICATION OF PROPER OPERATION OF CONTROL DEVICES.
5. LOW VOLTAGE CONTROL WIRING INSTALLED ABOVE ACCESSIBLE CEILINGS MAY BE INSTALLED WITHOUT CONDUIT AND SHALL BE PLENUM RATED.

PANELBOARD PANEL

LOCATION: CONCESSIONS 01
SUPPLY FROM: EXISTING SERVICE
MOUNTING: RECESSED
ENCLOSURE: NEMA 1

VOLTS: 120/240 Single
PHASES: 1
WIRES: 3

A.I.C. RATING: 22,000 A SYMMETRICAL
MAIN TYPE: MCB
MAIN RATING: 100 A

NOTES:

CKT	DESCRIPTION	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	DESCRIPTION	CKT
1					0			2	100 A	SERVICE DISCONNECT (EXISTING)	2
3							0	--	--	--	4
5	LIGHTING & EXHAUST FANS	20 A	1	1062	2500			2	30 A	HOT WATER HEATER, EHW-1	6
7	(EX) RECEPTS - KITCHEN	20 A	1			540	2500	--	--	--	8
9	(EX) RECEPTS - STORAGE & EXTERIOR	20 A	1	540	540			1	20 A	(EX) RECEPTS - KITCHEN	10
11	RECEPTS, RESTROOMS & RCP, STORAGE	20 A	1			415	0	1	20 A	SPARE BREAKER	12
13	SPARE BREAKER	20 A	1	0	0			1	20 A	SPARE BREAKER	14
15	SPARE BREAKER	20 A	1			0	0	1	20 A	SPARE BREAKER	16
17	SPARE BREAKER	20 A	1	0	0			1	20 A	SPARE BREAKER	18
19	SPARE BREAKER	20 A	1			0	0	1	20 A	SPARE BREAKER	20
21	PREPARED SPACE	--	1	--	--			1	--	PREPARED SPACE	22
23	PREPARED SPACE	--	1			--	--	1	--	PREPARED SPACE	24
		TOTAL LOAD:		4642.2 VA		3455.0 VA					
		TOTAL AMPS:		39 A		29 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	318.6 VA	1.00	318.6 VA		
Motor	744.0 VA	1.13	837.0 VA	**TOTAL CONNECTED LOAD:**	8097.2 VA
POWER	55.0 VA	1.00	55.0 VA	**TOTAL ESTIMATED DEMAND:**	8190.2 VA
RECEPTACLE	5360.0 VA	1.00	5360.0 VA	**TOTAL CONNECTED CURRENT:**	34 A
				TOTAL ESTIMATED DEMAND...	34 A

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ELECTRICAL PLANS

GRPS BRIGGS FIELD REPLACEMENT
1834 LAFAYETTE AVE, GRAND RAPIDS, MI 49503

PHASE
CONSTRUCTION DOCUMENTS

ISSUANCES

#	DESCRIPTION	DATE
0	CONSTRUCTION DOCUMENTS	22OCT2024

PROJ. #: 24-0162

E-101

10/21/2024 8:33:39 AM
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DESIGNED BY: Designer
CHECKED BY: Checker
APPROVED BY: Approver