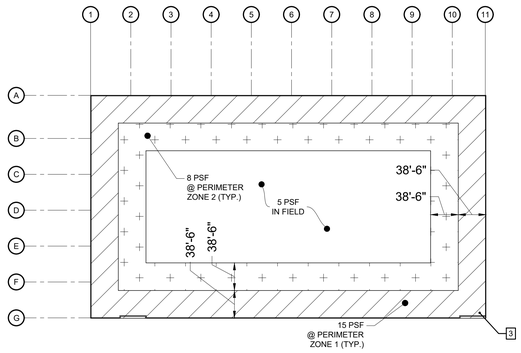
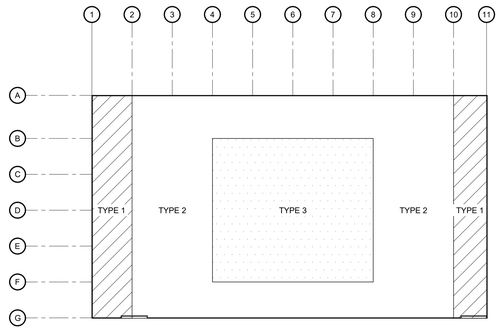


UPLIFT DIAGRAM ON JOIST GIRDER - MWFRS

SCALE: NONE

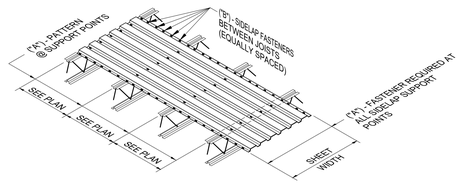
NOTE:
1. LOADS INDICATED REPRESENT NET MWFRS SERVICE UPLIFT VALUES.



ROOF DECK ATTACHMENT LAYOUT PLAN

SCALE: NONE

WELDED ROOF DECK ATTACHMENT FASTENER SCHEDULE		
TYPE #	FASTENERS "A" 5/8"Ø PUDDLE WELDS	FASTENERS "B" #10 TEK SCREWS
TYPE 1	36/7	5
TYPE 2	36/7	2
TYPE 3	36/5	2

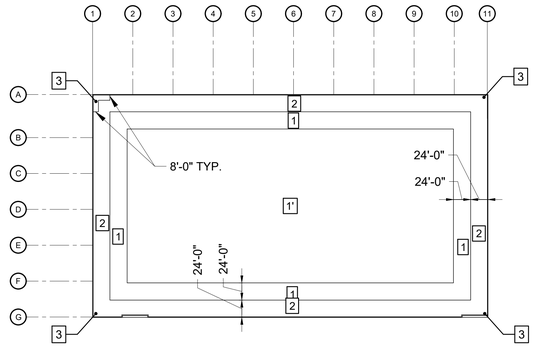


TYPICAL ROOF DECK ATTACHMENT

SCALE: NONE

NOTES:
1) ROOF DECK PER PLAN MIN. THREE SPAN CONDITION.
2) FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
3) END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.

DETAIL BOOK REF.
S2.19
1/27/2023

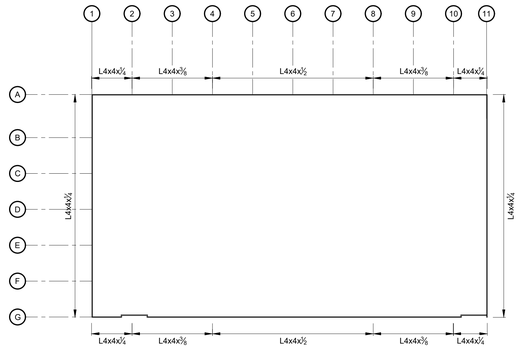


UPLIFT DIAGRAM ON JOISTS - C&C

SCALE: NONE

NOTE:
1. LOADS INDICATED IN TABLE REPRESENT NET COMPONENTS & CLADDING SERVICE UPLIFT VALUES, VARY WITH ZONE (SEE 'UPLIFT DIAGRAM ON JOISTS - C&C).
1.1. USE PRESSURE VALUE BELOW OBTAINED UTILIZING ALLOWABLE EFFECTIVE AREA AS DEFINED BY ASCE 7 CHAPTER 30 FOR JOIST UPLIFT.

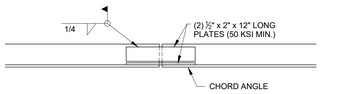
COMPONENTS & CLADDING NET UPLIFT									
NET SERVICE LEVEL SURFACE PRESSURES (PSF)									
ROOF ZONE \ AREA	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf	1500 sf
NEGATIVE ZONE 1	-29.1	-26.9	-24.0	-21.9	-19.7	-17.9	-16.8	-16.8	-16.8
NEGATIVE ZONE 1*	-15.0	-15.0	-15.0	-15.0	-12.4	-10.2	-8.9	-6.2	-6.2
NEGATIVE ZONE 2	-39.7	-36.9	-33.1	-30.4	-27.5	-25.3	-23.8	-23.8	-23.8
NEGATIVE ZONE 3	-55.5	-49.9	-42.5	-36.9	-31.3	-26.7	-23.8	-23.8	-23.8



DECK CHORD ANGLE ATTACHMENT PLAN

SCALE: NONE

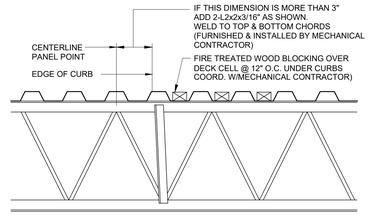
NOTES:
1) ALL CHORD ANGLES TO HAVE YIELD STRENGTH OF 50 KSI MIN.



TYPICAL DIAPHRAM CHORD SPLICE

SCALE: NONE

DETAIL BOOK REF.
S2.18
1/27/2023

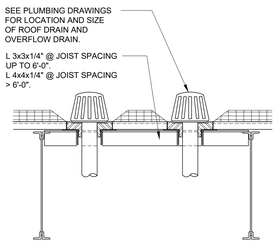


JOIST REINFORCEMENT AT ROOF TOP UNIT CURBS

SCALE: NONE

NOTE: DO NOT ADD EQUIPMENT TO JOISTS SUPPORTING SPRINKLER MAINS W/OUT E.O.R. APPROVAL.

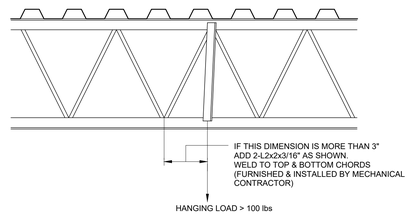
DETAIL BOOK REF.
S2.23-N
1/27/2023



TYPICAL ROOF DRAIN SUPPORT

SCALE: NONE

DETAIL BOOK REF.
S2.27
1/27/2023

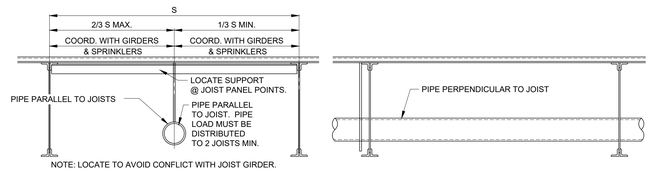


JOIST REINFORCEMENT AT HANGING LOADS

SCALE: NONE

NOTE: DO NOT ADD EQUIPMENT TO JOISTS SUPPORTING SPRINKLER MAINS W/OUT E.O.R. APPROVAL.

DETAIL BOOK REF.
S2.24
1/27/2023



PIPE PARALLEL TO JOISTS

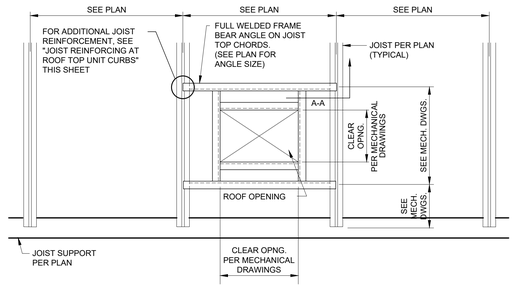
PIPE PERPENDICULAR TO JOISTS

SPRINKLER MAIN SUPPORT DETAIL

SCALE: NO SCALE

NOTES:
- WHEN PARALLEL TO JOISTS 4" AND SMALLER PIPE MAY HANG FROM SINGLE JOIST, BUT MUST SPREAD OUT SO THAT THE SAME JOIST IS NOT AFFECTED BY MORE THAN ONE PIPE.
- WHEN PARALLEL TO JOISTS 6" PIPES SHOULD BE LOCATED AS SHOWN IN SPACE BETWEEN JOISTS AND SPREAD OUT SO THAT THE SAME JOIST IS NOT AFFECTED BY MORE THAN ONE PIPE. EXCEPTION: IF PIPE LOCATIONS ARE PROVIDED DURING DESIGN LOADS CAN BE MODIFIED TO ACCOUNT FOR PIPES.
- PIPES GANGED TOGETHER MUST BE REVIEWED BY EOR FOR SPECIFIC LOADS PRIOR TO JOIST FABRICATION.
- DO NOT SPACE HANGERS MORE THAT 15' APART.
- WHEN PERPENDICULAR, PIPES LARGER THAN 6"Ø SHALL BE REVIEWED BY EOR FOR SPECIFIC LOADS PRIOR TO JOIST FABRICATION.
- DO NOT HANG WITH A BEAM CLAMP FROM BOTTOM CHORD OF JOIST OR GIRDER. BOTTOM CHORD HANGERS MUST BE CONCENTRIC, IF USED.
- HANGERS SHALL BE LOCATED WITHIN 3" OF PANEL POINTS OR JOIST SHALL BE REINFORCED PER TYP. REINF. AT POINT LOADS DETAIL.
- DO NOT SUPPORT MAINS FROM JOISTS THAT ALSO SUPPORT MECHANICAL EQUIPMENT WITHOUT E.O.R. REVIEW.

DETAIL BOOK REF.
S2.26
8/24/2023

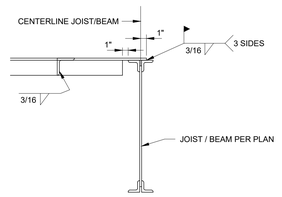


TYPICAL ROOF OPENING

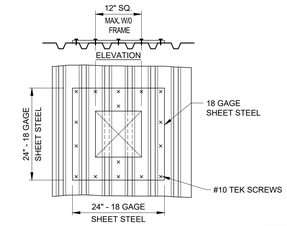
SCALE: NO SCALE

NOTE: THE UNIT IS SUPPORTED BY THE UNIT CURB WHICH MUST BE DESIGNED TO SPAN TO SUPPORTING MEMBERS.

DETAIL BOOK REF.
S2.23-N
1/27/2023



A-A



NOTE: WHERE DECK OPENINGS ARE GREATER THAN 12" ON ANY SIDE PROVIDE L 4x4x1/4" FRAME @ EXHAUST FANS.

DETAIL BOOK REF.
S2.25
1/27/2023

ROOF DECK OPENING ≤ 12"

SCALE: NO SCALE

PRINTED ARCH E1 30" x 42"

DESIGNER / BUILDER

ARCO DESIGN/BUILD

44 SOUTH BROADWAY, SUITE 1003
WHITE PLAINS, NY 10601
P: 914.821.5535 F: 914.306.6010

ADB STRUCTURAL ENGINEERING

PROJECT TITLE

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SUFFERN, NY 10901

OWNER
BROOKFIELD PROPERTIES
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ARCHITECT
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CIVIL ENGINEER
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ADB STRUCTURAL ENGINEERING
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MECHANICAL ENGINEER
NATIONAL DESIGN BUILD SERVICES
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MARYLAND HEIGHTS, MO 63146

ELECTRICAL ENGINEER
FXB ENGINEERING
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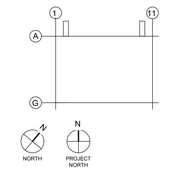
CHADDS FORD, PA 19317

PLUMBING ENGINEER
MCCARTHY ENGINEERING
2500 E HIGH STREET, SUITE 630
POTTSTOWN, PA 19464

FIRE PROTECTION ENGINEER
S.A. COMUNALE
2900 NEWPARK DRIVE
BARBERTON, OH 44203

SEAL

KEY PLAN



SUBMITTALS

NO.	DATE	DESCRIPTION
	12-04-23	COORDINATION SET
	12-08-23	75% PROGRESS SET
	01-26-24	90% PROGRESS SET
	02-09-24	PERMIT SET

PROJECT NO. AS397-22 | NY154 | SEI-085-23
DRAWN BY JWC

SHEET TITLE

STRUCTURAL DETAILS

SHEET NO.

S4.2