

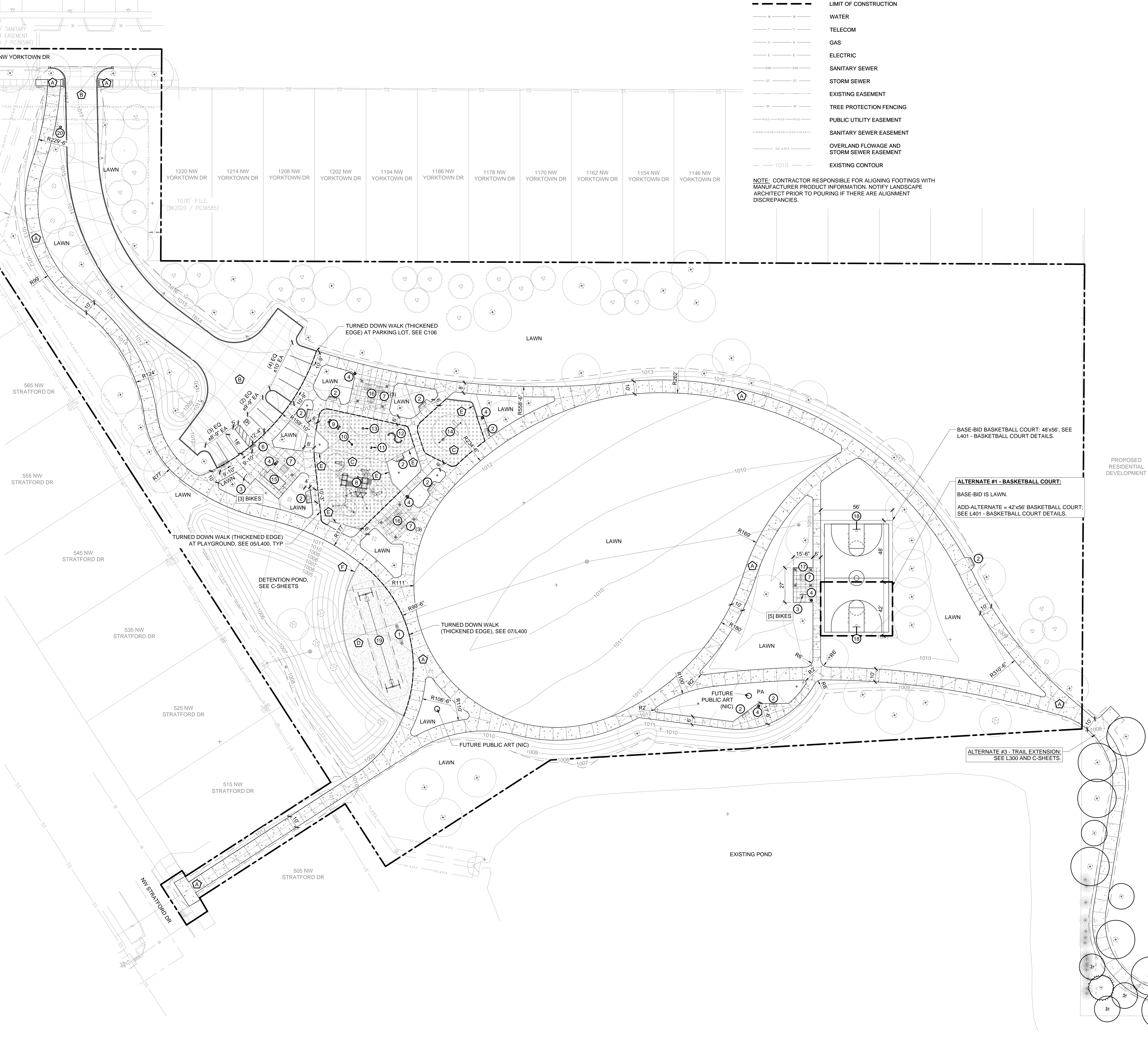
LEGEND

- PROPERTY LINE
- LIMIT OF CONSTRUCTION
- WATER
- TELECOM
- GAS
- ELECTRIC
- SANITARY SEWER
- STORM SEWER
- EXISTING EASEMENT
- TREE PROTECTION FENCING
- PUBLIC UTILITY EASEMENT
- SANITARY SEWER EASEMENT
- OVERLAND FLOWAGE AND STORM SEWER EASEMENT
- 1010 --- EXISTING CONTOUR

NOTE: CONTRACTOR RESPONSIBLE FOR ALIGNING FOOTINGS WITH MANUFACTURER PRODUCT INFORMATION. NOTIFY LANDSCAPE ARCHITECT PRIOR TO POURING IF THERE ARE ALIGNMENT DISCREPANCIES.

SITE AMENITIES SCHEDULE			
QTY	KEY	DESCRIPTION	NOTES
1	1	BACKLESS TIMBERBENCH	SEE 18/L400
10	2	STANDARD COMMERCIAL PARK BENCH	FURNISH AND INSTALL BY OWNER
2	3	BIKE RACK	[3] OR [5] BIKE CAPACITY, SEE PLAN FOR LOCATIONS, FURNISH AND INSTALL BY OWNER
6	4	COMMERCIAL PARK WASTE RECEPTACLE	FURNISH AND INSTALL BY OWNER
4	5	PARKING LOT LIGHTING	SEE ELECTRICAL, ME SHEETS
1	6	ADA PARKING SIGN + PARKING SIGN POST	SEE 14,15/L400
8	7	PICNIC TABLE	FURNISH AND INSTALL BY OWNER, [1] TABLE TO BE ADA COMPLIANT
1	8	NUCLEUS/INTENSITY PLAY EQUIPMENT	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	9	ORB ROCKER	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	10	SWIFT TWIST SPINNER	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	11	META ROCKER	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	12	NOVO ARC BENCH	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	13	KIDFORCE SPINNER	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	14	SWING SET	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	15	RESTROOM BUILDING	SEE A100, SEE ME SHEETS; BUILDING FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
2	16	OPEN-AIR SHELTER A	SEE A100, SEE ME SHEETS; SHELTER FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
1	17	OPEN-AIR SHELTER B	SEE A100, SEE ME SHEETS; SHELTER FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
2	18	BASKETBALL HOOP	SEE SPECIFICATION 11 68 00, SEE ALTERNATE #1 NOTES
1	19	ZIPVENTURE DUO	FURNISHED BY OWNER, INSTALLED BY OWNER'S CONTRACTOR
1	20	PARK ENTRY SIGN	SIGN NOT IN CONTRACT; FOOTING IS IN CONTRACT/BY CONTRACTOR, SEE 16/L400

MATERIALS SCHEDULE		
KEY	DESCRIPTION	NOTES
A	6" THK PCC PEDESTRIAN PAVEMENT	SEE 32 13 13, SEE 01/L400
B	8" THK VEHICULAR PAVEMENT	SEE C-SERIES
C	PIP RUBBER PLAY SURFACING	FURNISH AND INSTALL OF PIP RUBBER BY OWNER/OWNER'S CONTRACTOR; COLOR LAYOUT SEE L102. SUBBASE SYSTEM BY CONTRACTOR; SEE 05/L400.
D	FIBAR PLAY MULCH	FURNISH AND INSTALL OF PLAY MULCH BY OWNER/OWNER'S CONTRACTOR; DRAINAGE, SUBGRADE PREP, ADJACENT PCC, AND SUBDRAINAGE BY CONTRACTOR; SEE 06/L400.
E	PCC CURB (INTEGRAL TO PCC SUBBASE)	SEE 05/L400
F	PCC BEAM CURB	SEE 06/L400



BASE-BID BASKETBALL COURT: 48'x56'. SEE L401 - BASKETBALL COURT DETAILS.

ALTERNATE #1 - BASKETBALL COURT:
BASE-BID IS LAWN.
ADD-ALTERNATE = 42'x56' BASKETBALL COURT; SEE L401 - BASKETBALL COURT DETAILS.

ALTERNATE #3 - TRAIL EXTENSION:
SEE L300 AND C-SHEETS.

PROPOSED RESIDENTIAL DEVELOPMENT

NO. DATE REVISION

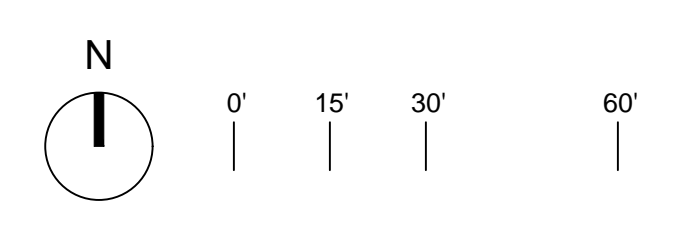
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BD BD
PROJECT TEAM MEMBERS
DJ
CHECKER
BD
SCALE/STAMP

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PARK MATERIAL AND LAYOUT PLAN

PROJECT NO.
22024
DATE:
SITE PLAN SUBMISSION #4
DATE:
DEC. 20, 2022

SHEET NO.



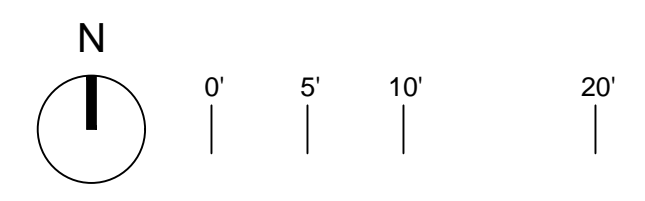
LEGEND

	PROPERTY LINE
	LIMIT OF CONSTRUCTION
	WATER
	TELECOM
	GAS
	ELECTRIC
	SANITARY SEWER
	STORM SEWER
	EXISTING EASEMENT
	TREE PROTECTION FENCING
	PUBLIC UTILITY EASEMENT
	SANITARY SEWER EASEMENT
	OVERLAND FLOWAGE AND STORM SEWER EASEMENT
	EXISTING CONTOUR

NOTE: CONTRACTOR RESPONSIBLE FOR ALIGNING FOOTINGS WITH MANUFACTURER PRODUCT INFORMATION. NOTIFY LANDSCAPE ARCHITECT PRIOR TO POURING IF THERE ARE ALIGNMENT DISCREPANCIES.



01 PLAYGROUND SUBSLAB PLAN
SCALE: 1:10



PLT: ...
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LEGEND

PROPERTY LINE
LIMIT OF CONSTRUCTION
WATER
TELECOM
GAS
ELECTRIC
SANITARY SEWER
STORM SEWER
EXISTING EASEMENT
TREE PROTECTION FENCING
PUBLIC UTILITY EASEMENT
SANITARY SEWER EASEMENT
OVERLAND FLOWAGE AND STORM SEWER EASEMENT
EXISTING CONTOUR
SOD (WITHIN PUBLIC R.O.W.) AND ANY ESTABLISHED LAWNS THAT GET DISTURBED
SUPER TURF 11 LS BY UNITED SEEDS, OR EQ. 4.78 ACRES
PLANTING AREA
5,839 SF
SHORT DRY PRAIRIE 30/10 MIX (IA CP25) BY PHEASANT'S FOREVER, OR EQ. 0.75 ACRES

MATING / STABILIZATION FOR SEEDED AREAS:

1. LAWN SEEDING:

- 1.1. SOW SEED WITH DRILL SEEDING MACHINE OR HYDROSEED WITH BONDED FIBER MATRIX (BFM) AT CONTRACTOR'S OPTION. DO NOT DROP SEED WHEN WIND VELOCITY EXCEEDS 5 MPH. EVENLY DISTRIBUTE BY SOWING EQUAL QUANTITIES IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
- 1.2. WHEN SLOPES EXCEED 5:1, HYDROSEED WITH BONDED FIBER MATRIX (BFM) PER SUDAS 9010.
- 1.3. IF USING A CONVENTIONAL SEEDING METHOD FOR SLOPES LESS THAN 5:1, HYDROMULCH OVER SEED PER SUDAS 9010.

2. NATIVE SEED AREAS:

- 2.1. SOW SEED BY HAND-BROADCASTING, HYDROSEEDING (WITH BFM), OR WITH GRASS AND DRILL SEEDING MACHINE CAPABLE OF SOWING NATIVE SEED. DO NOT DROP SEED WHEN WIND VELOCITY EXCEEDS 5 MPH. EVENLY DISTRIBUTE BY SOWING EQUAL QUANTITIES IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
- 2.2. IF HYDROSEEDING NATIVE SEED, INCREASE SPECIFIED RATES BY 20%. DO NOT APPLY FERTILIZER.
- 2.3. IF HAND-BROADCASTING SEED, MIX THE SEED TOGETHER WITH STERILE SAND/DUST, SAND, PERLITE OR VERMICULITE IN A STERILE CONTAINER. MIX THOROUGHLY WITH AT LEAST AN EQUAL RATIO OF ONE OR MORE OF THE STERILE MEDIAS.
- 2.3.1. VOLUME OF CARRIER MATERIAL (SAND/DUST, ETC) TO USE: 1 CY PER 1/4 ACRE.
- 2.4. WHEN SLOPES EXCEED 5:1, PROTECT SLOPES WITH BONDED FIBER MATRIX (BFM) FOR HYDROSEEDING MEETING REQUIREMENTS OF SUDAS 9010.
- 2.5. IF HAND-BROADCAST OR DRILL SEEDING METHOD IS USED FOR SLOPES LESS THAN 5:1, HYDROMULCH OVER SEED PER SUDAS 9010.

SHADE TREE
EVERGREEN
ORNAMENTAL TREE
SHRUB / PERENNIAL

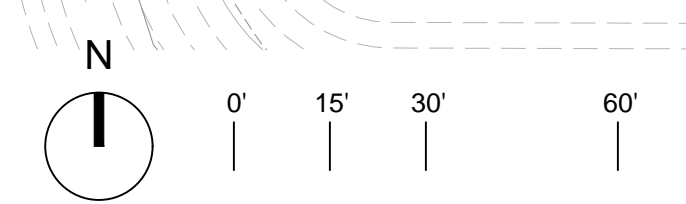
OVERSTORY TREES						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
2	AS	ACER SACCHARUM	SUGAR MAPLE	2" CAL	B&B	MIN. 8' HT.
2	AF	ACER X FREEMANI 'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	2" CAL	B&B	MIN. 8' HT.
6	BN	BETULA NIGRA 'BNMTF'	DURAM HEAT RIVER BIRCH	8-10' HT	B&B	MIN. 6' HT.
3	CO	CELTIS OCCIDENTALIS	HACKBERRY	2" CAL	B&B	MIN. 8' HT.
4	CR	CORYLUS COLURNA	TURKISH FILBERT	1.75" CAL	B&B	MIN. 8' HT.
1	GB	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	2" CAL	B&B	MIN. 8' HT.
4	GT	GLEDITSIA TRIACANTHOS F. 'INERMIS' 'SKYCOLE'	SKYLINE HONEYLOCUST	2" CAL	B&B	MIN. 8' HT.
12	GD	GYMNOCLADUS DIOICUS 'ESPRESSO JFS'	ESPRESSO KENTUCKY COFFEETREE	2" CAL	B&B	MIN. 8' HT.
1	LS	LIQUIDAMBAR STYRACIFLUA 'MORAINÉ'	MORAINÉ SWEETGUM	2" CAL	B&B	MIN. 8' HT.
4	LT	LIRIODENDRON TULIPIFERA	TULIPTREE	2" CAL	B&B	MIN. 8' HT.
1	MA	MAGNOLIA ACUMINATA	CUCUMBERTREE MAGNOLIA	2" CAL	B&B	MIN. 8' HT.
1	OV	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	2" CAL	B&B	MIN. 8' HT.
9	PO	PLATANUS OCCIDENTALIS	PLANE TREE	1.75" CAL	B&B	MIN. 8' HT.
2	QA	QUERCUS ALBA	WHITE OAK	2" CAL	B&B	MIN. 8' HT.
1	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL	B&B	MIN. 8' HT.
1	QM	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	2" CAL	B&B	MIN. 8' HT.
1	QP	QUERCUS PALUSTRIS	PIN OAK	1.75" CAL	B&B	MIN. 8' HT.
3	QR	QUERCUS RUBRA	NORTHERN RED OAK	1.75" CAL	B&B	MIN. 8' HT.
2	TC	TILIA CORDATA	LITTLE LEAF LINDEN	2" CAL	B&B	MIN. 8' HT.
4	UA	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2" CAL	B&B	MIN. 8' HT.
3	UD	ULMUS MORTON'	ACCOLADE ELM	2" CAL	B&B	MIN. 8' HT.

ORNAMENTAL TREES						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
4	CC	CERCIS CANADENSIS	EASTERN REDBUD	6-8' HT	B&B	MIN. 6' HT.
1	MH	MALLUS HYBRIDA	HARVEST GOLD FLOWERING CRABAPPLE	6-8' HT	B&B	MIN. 6' HT.
1	MS	MALLUS SPRING SNOW'	CRABAPPLE SPRING SNOW	6-8' HT	B&B	MIN. 6' HT.
1	SR	SYRINGA RETICULATA	JAPANESE LILAC	1.75" CAL	B&B	MIN. 6' HT.

EVERGREEN TREES						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
6	PA	PICEA ABIES	NORWAY SPRUCE	6-8' HT	B&B	MIN. 6' HT.
7	PG	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	8-10' HT	B&B	MIN. 6' HT.
12	PS	PINUS STROBUS	WHITE PINE	8-10' HT	B&B	MIN. 6' HT.

NOTE:
PLANT SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY WAUKEE PARKS AND RECREATION DIRECTOR PRIOR TO EXECUTING CHANGES.

01 PARK PLANTING PLAN
SCALE: 1:30



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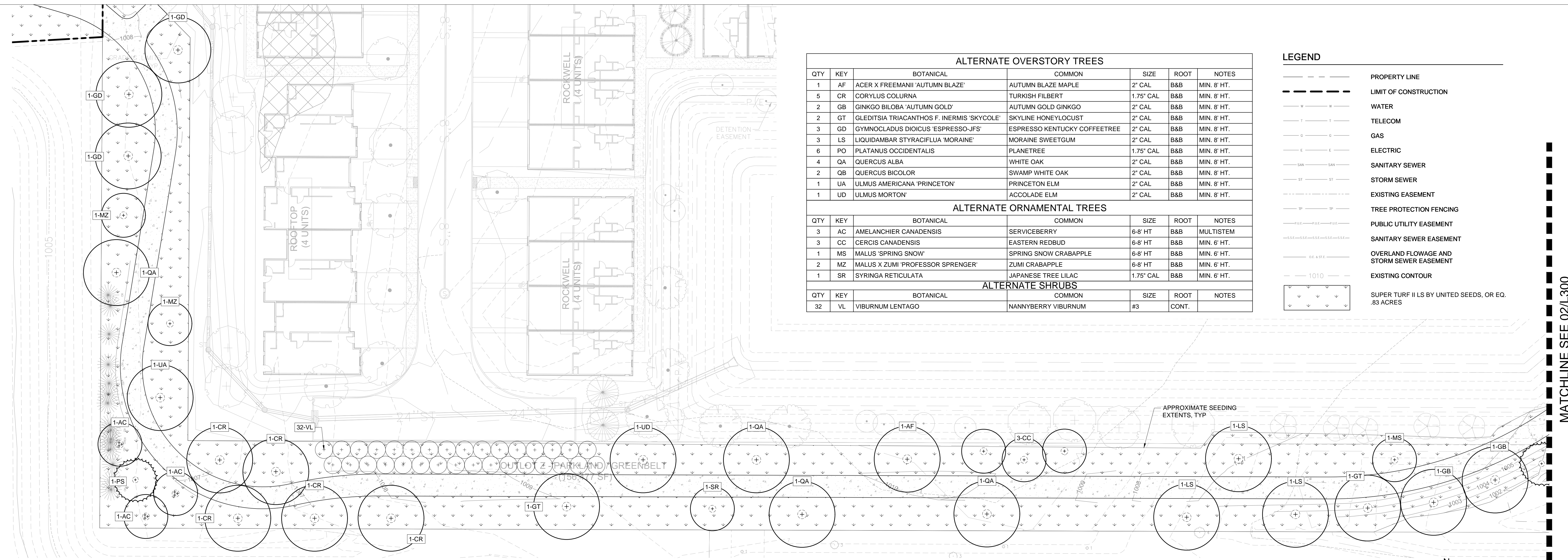
ALTERNATE OVERSTORY TREES						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
1	AF	ACER X FREEMANI 'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	2' CAL	B&B	MIN. 8' HT.
5	CR	CORYLUS COLURNA	TURKISH FILBERT	1.75' CAL	B&B	MIN. 8' HT.
2	GB	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	2' CAL	B&B	MIN. 8' HT.
2	GT	GLEDTISIA TRIACANTHOS F. INERMIS 'SKYCOLE'	SKYLINE HONEYLOCUST	2' CAL	B&B	MIN. 8' HT.
3	GD	GYMNOCLADUS DIOICUS 'ESPRESSO-JFS'	ESPRESSO KENTUCKY COFFEETREE	2' CAL	B&B	MIN. 8' HT.
3	LS	LIQUIDAMBAR STYRACIFLUA 'MORAINÉ'	MORAINÉ SWEETGUM	2' CAL	B&B	MIN. 8' HT.
6	PO	PLATANUS OCCIDENTALIS	PLANETREE	1.75' CAL	B&B	MIN. 8' HT.
4	QA	QUERCUS ALBA	WHITE OAK	2' CAL	B&B	MIN. 8' HT.
2	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2' CAL	B&B	MIN. 8' HT.
1	UA	ULMUS AMERICANA 'PRINCETON'	PRINCETON ELM	2' CAL	B&B	MIN. 8' HT.
1	UD	ULMUS MORTON'	ACCOLADE ELM	2' CAL	B&B	MIN. 8' HT.

ALTERNATE ORNAMENTAL TREES						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
3	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6-8' HT	B&B	MULTISTEM
3	CC	CERCIS CANADENSIS	EASTERN REDBUD	6-8' HT	B&B	MIN. 6' HT.
1	MS	MALLUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	6-8' HT	B&B	MIN. 6' HT.
2	MZ	MALLUS X ZUMI 'PROFESSOR SPRENGER'	ZUMI CRABAPPLE	6-8' HT	B&B	MIN. 6' HT.
1	SR	SYRINGA RETICULATA	JAPANESE TREE LILAC	1.75' CAL	B&B	MIN. 6' HT.

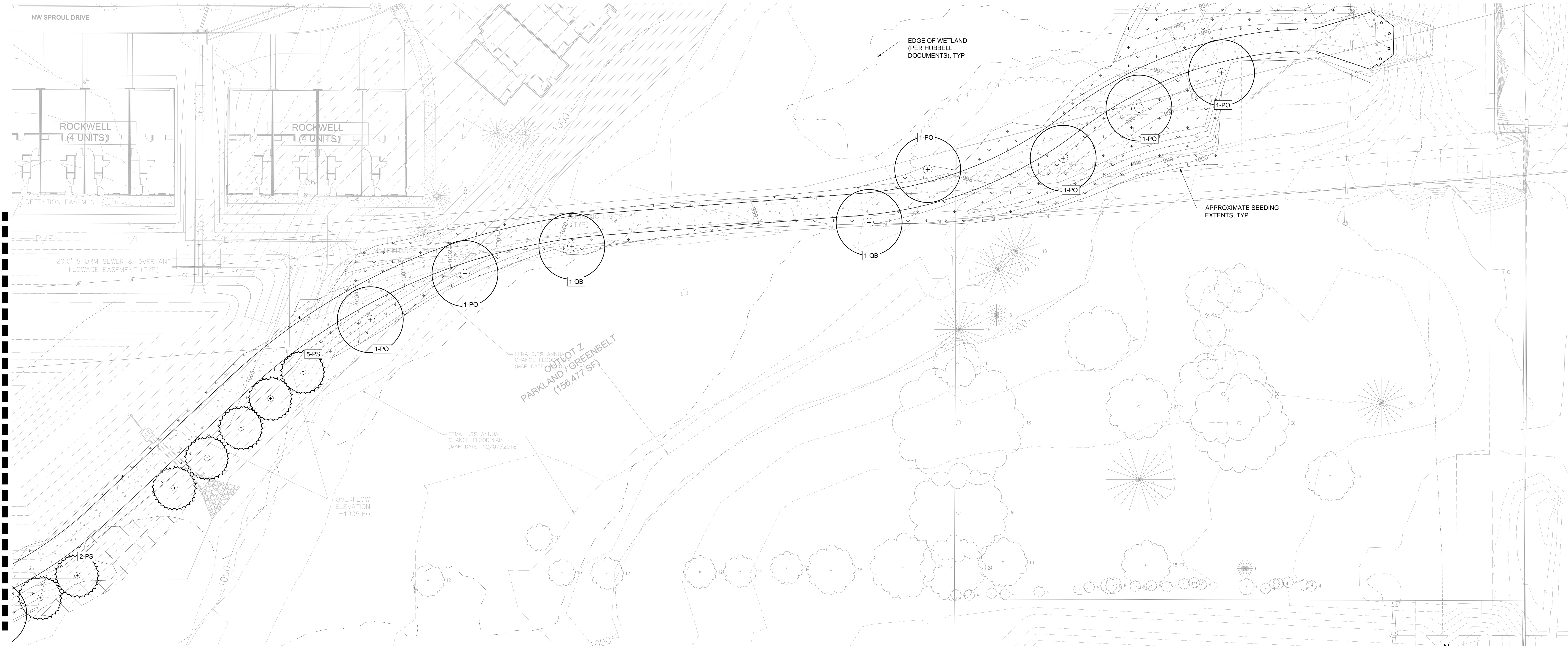
ALTERNATE SHRUBS						
QTY	KEY	BOTANICAL	COMMON	SIZE	ROOT	NOTES
32	VL	VIBURNUM LENTAGO	NANNYBERRY VIBURNUM	#3	CONT.	

LEGEND

- PROPERTY LINE
- - - - - LIMIT OF CONSTRUCTION
- WATER
- TELECOM
- GAS
- ELECTRIC
- SANITARY SEWER
- STORM SEWER
- EXISTING EASEMENT
- TREE PROTECTION FENCING
- PUBLIC UTILITY EASEMENT
- SANITARY SEWER EASEMENT
- OVERLAND FLOWAGE AND STORM SEWER EASEMENT
- EXISTING CONTOUR
- SUPER TURF II LS BY UNITED SEEDS, OR EQ. 83 ACRES



01 GREENWAY PLANTING PLAN - ALTERNATE #3
SCALE: 1:20



02 GREENWAY PLANTING PLAN - ALTERNATE #3
SCALE: 1:20

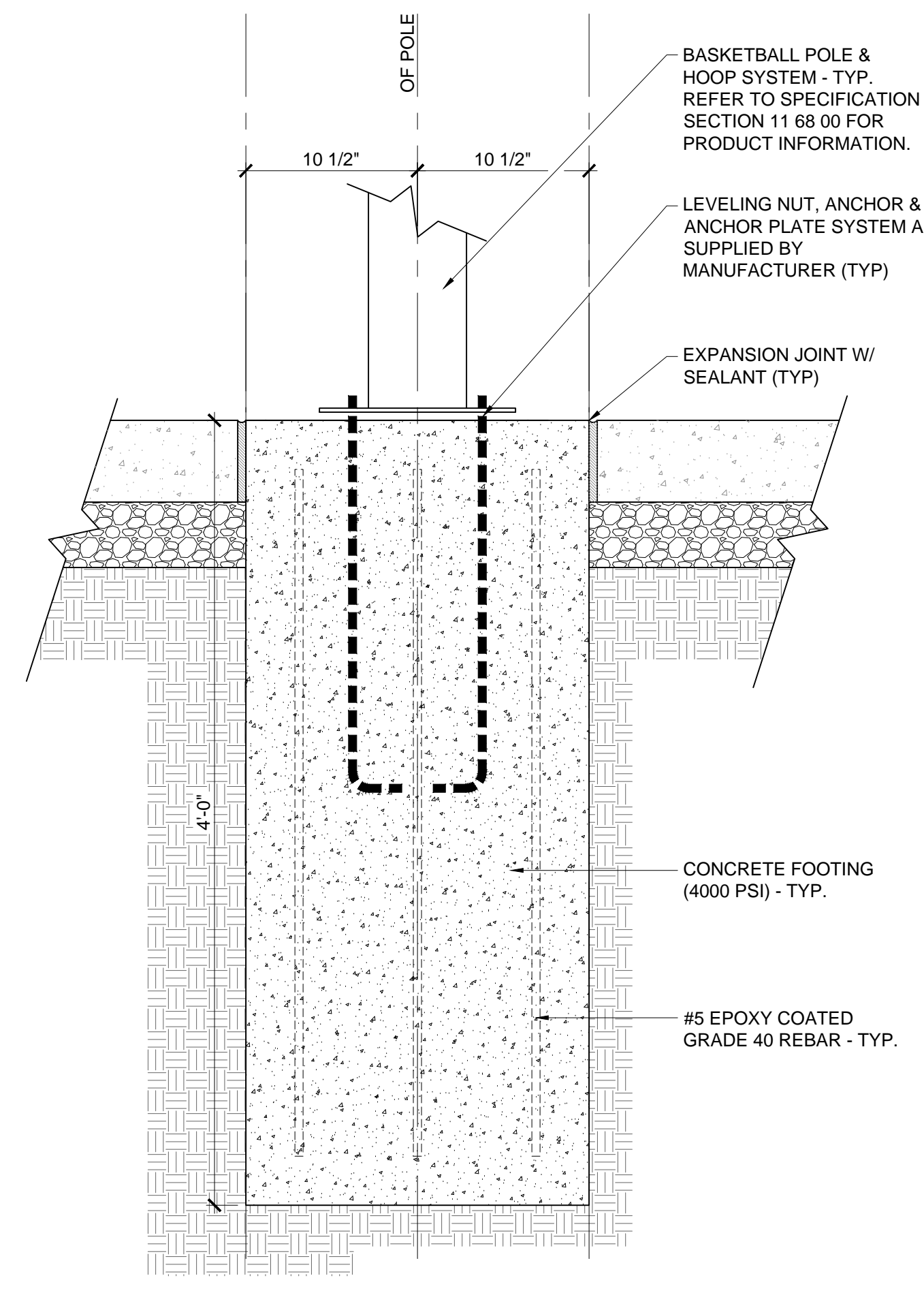
NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
BD	BD

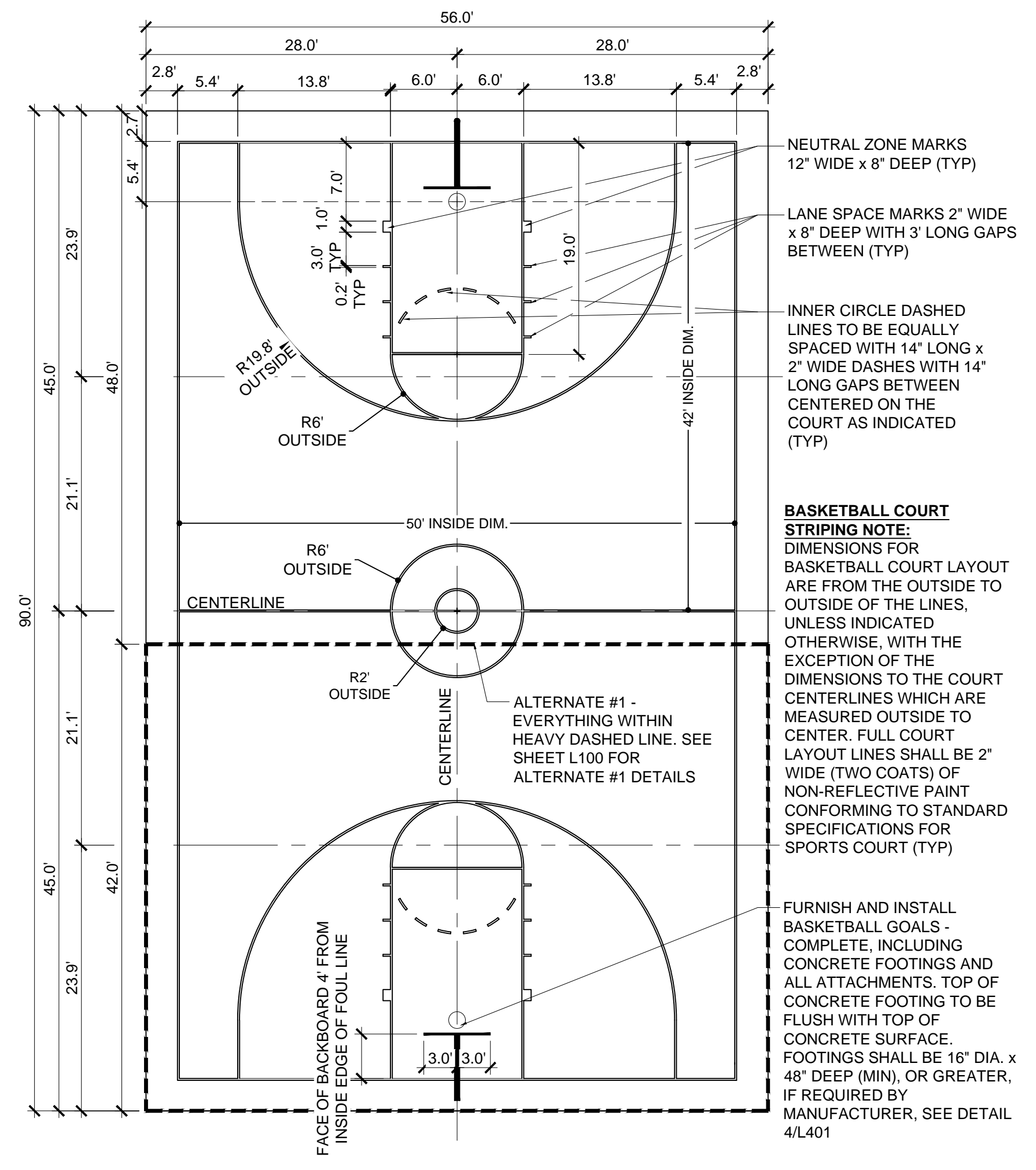
PROJECT TEAM MEMBERS
DJ
CHEN
BD

SCALE/STAMP

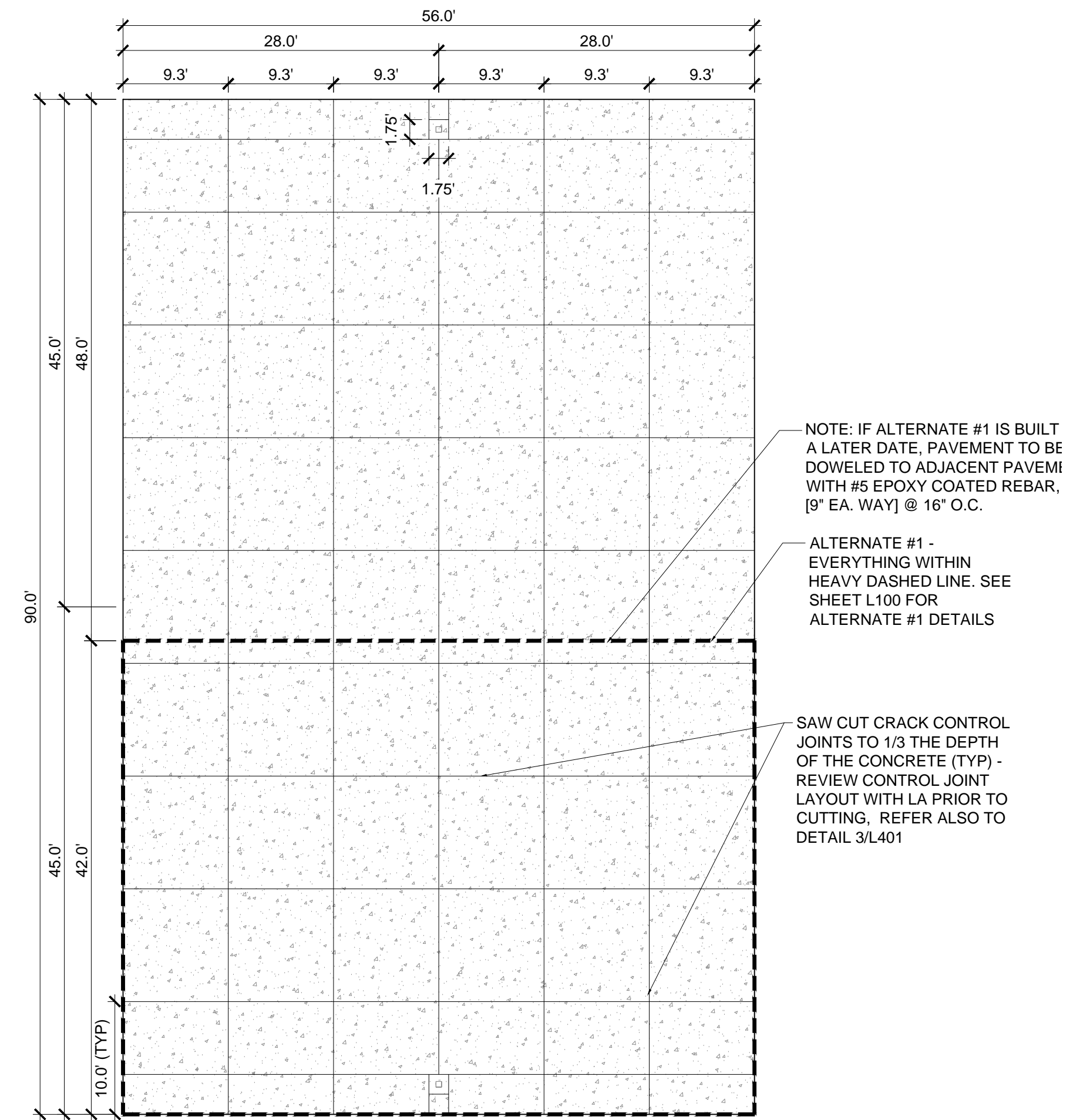
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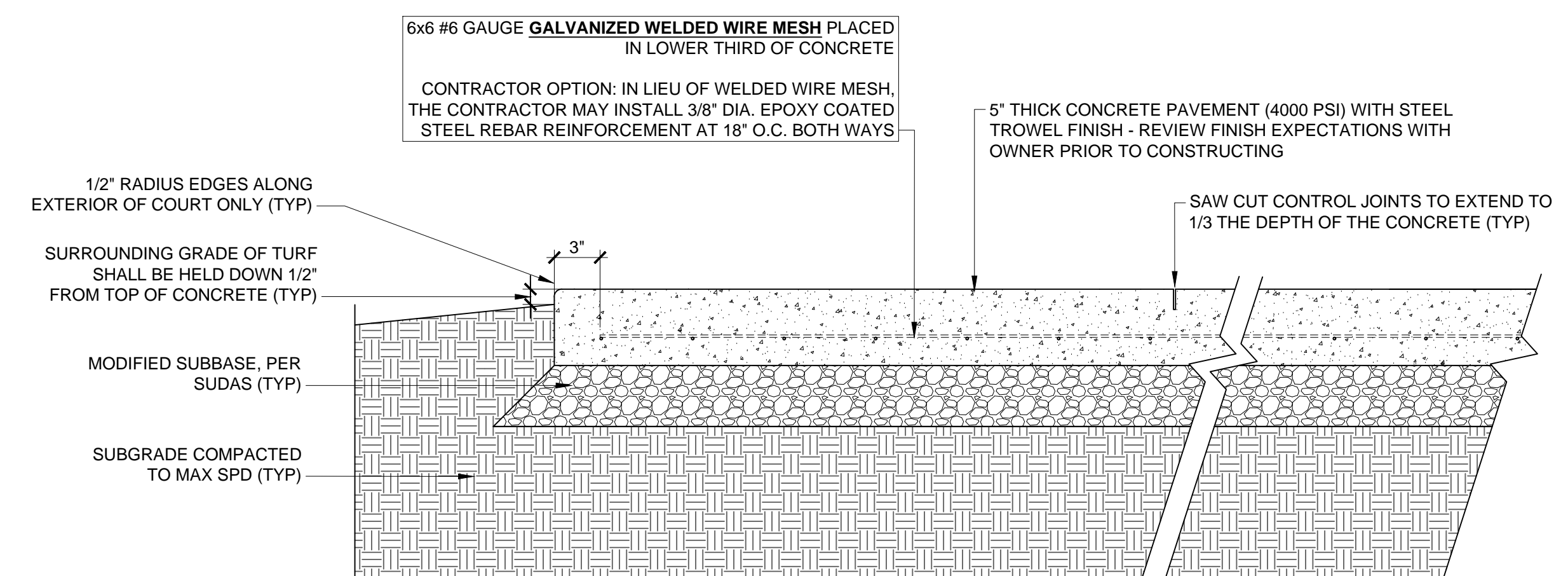
4 BASKETBALL GOAL FOOTING
SCALE: 1 1/2" = 1'-0"



1 FULL BASKETBALL COURT STRIPING
SCALE: 1:10



2 FULL BASKETBALL COURT JOINTING
SCALE: 1:10



3 PCC COURT PAVING
SCALE: 1 1/2" = 1'-0"

NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
BD	BD
PROJECT TEAM MEMBERS:	
DJ	
CH	
BD	

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TITLE
BASKETBALL COURT DETAILS

PROJECT NO.
22024
DATE
DEC. 20, 2022

SHEET NO.

L401

GENERAL NOTES

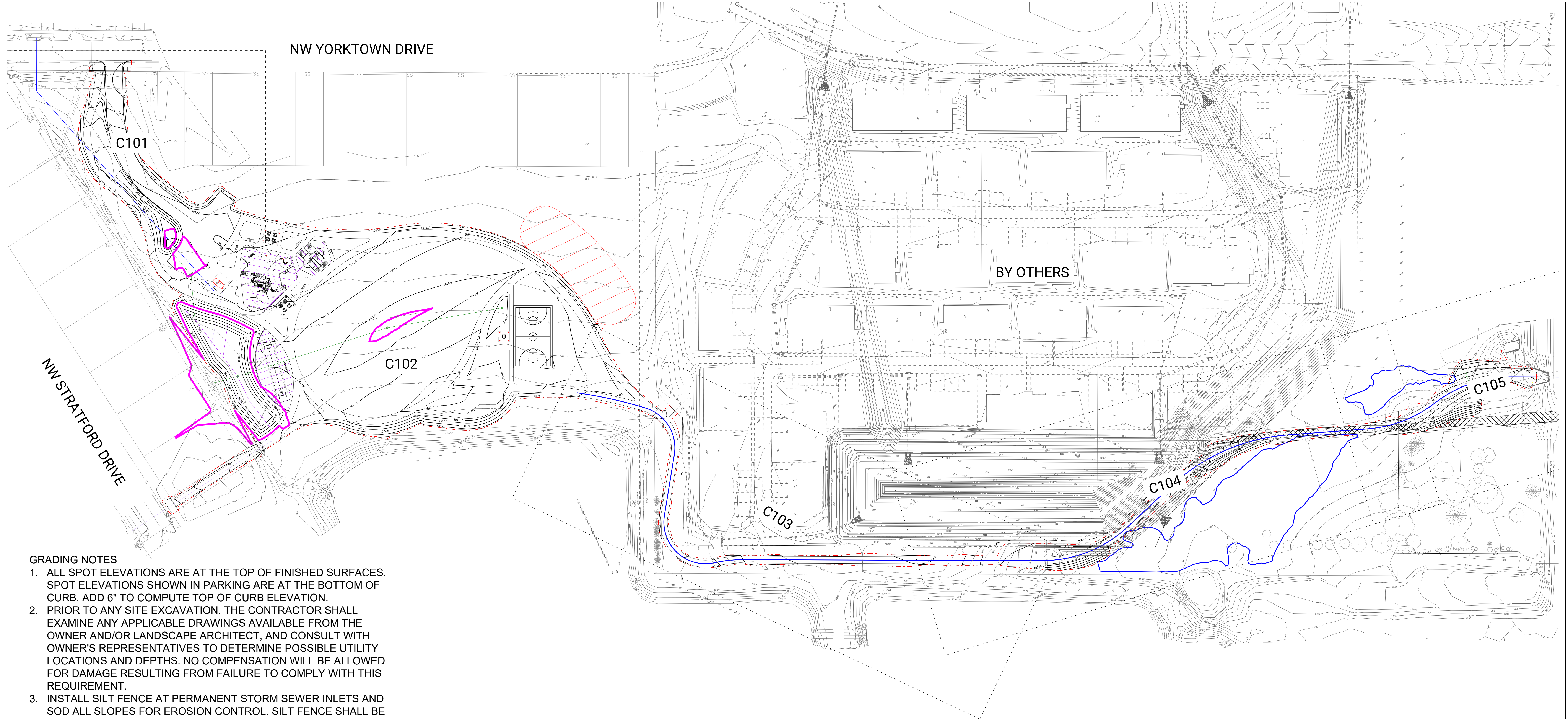
OWNER
CITY OF WAUKEE, IOWA
230 WEST HICKMAN RD
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER
FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1393

MEP CONSULTANT
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

KEY PLAN



GRADING NOTES

- ALL SPOT ELEVATIONS ARE AT THE TOP OF FINISHED SURFACES. SPOT ELEVATIONS SHOWN IN PARKING ARE AT THE BOTTOM OF CURB. ADD 6" TO COMPUTE TOP OF CURB ELEVATION.
- PRIOR TO ANY SITE EXCAVATION, THE CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER AND/OR LANDSCAPE ARCHITECT, AND CONSULT WITH OWNER'S REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
- INSTALL SILT FENCE AT PERMANENT STORM SEWER INLETS AND SOD ALL SLOPES FOR EROSION CONTROL. SILT FENCE SHALL BE MAINTAINED UNTIL ESTABLISHMENT OF PERMANENT GROUND COVER OR EROSION CONTROL MEASURE.
- FINAL BERM SHAPE TO BE APPROVED BY OWNER.
- SEE SPECS FOR MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS AND PLANTING BEDS. TOPSOIL MINIMUM DEPTH IS TO MEET SUDAS SECTION 2010 REQUIREMENTS.
- ALL DEBRIS SPILLED ON THE R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY AND PRIOR TO A RAIN EVENT.
- CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISHED GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES, AND LIGHT BASES.
- BACKFILL TO TOP OF CURB.
- ADEQUATE SCREENING OF PARKING LOT AREAS WITH EARTH BERMS OR LANDSCAPING SHALL BE PROVIDED IN A MANNER ACCEPTABLE TO THE CITY OF WAUKEE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE IN ALL AREAS, UNLESS OTHERWISE NOTED. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER TO BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.
- WHERE PROPOSED GRADES MEET EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN THE NEW WORK AND EXISTING WORK. PONDING AT JOINTS WILL NOT BE ACCEPTED.
- CONTACT LANDSCAPE ARCHITECT PRIOR TO BACKFILLING AGAINST EXISTING BUILDINGS. PROVIDE WATERPROOFING WHEN BACKFILLING AGAINST EXISTING BUILDINGS.
- CONTRACTOR RESPONSIBLE FOR ALL PRIVATE LOCATES NOT COVERED BY THE IOWA ONE CALL SYSTEM.
- CONTRACTOR TO PLACE SPOILS IN HATCHED AREA NORTH & EAST OF BASKETBALL COURT (GRADE TO DRAIN).

GRADING NOTES CONTINUED

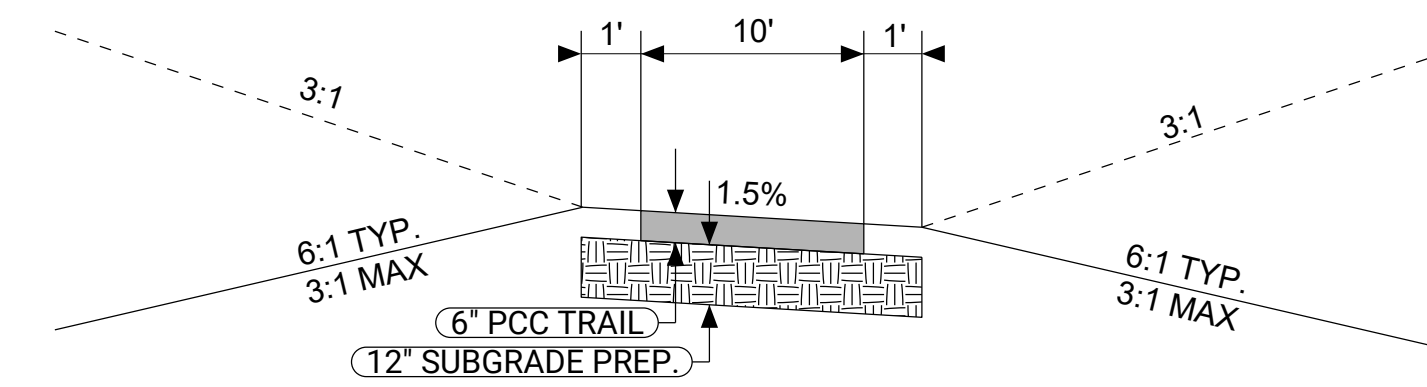
- INSTALL TRUNCATED DOMES AT ALL PEDESTRIAN RAMPS. TRUNCATED DOMES SHALL BE CAST IRON PANELS IN NATURAL FINISH.

STAGING NOTES

- AGGREGATE AND ENGINEERED SOIL LAYERS IN BIORETENTION AREA SHALL BE INSTALLED AFTER UPSTREAM AREAS ARE FULLY STABILIZED TO PREVENT SEDIMENT FROM CLOGGING THE BIORETENTION PRACTICE.

ESTIMATED QUANTITIES

ITEM	UNIT	BASE BID QUANTITY	BID ALT 1 QUANTITY
TOPSOIL, STRIP, SALVAGE, & SPREAD	CY	4790	629
EXCAVATION, CLASS 10	CY	6761	534
EMBANKMENT-IN-PLACE	CY	4403	823
EXCAVATION, CLASS 10, WASTE, ON-SITE	CY	2043	
CURB GRINDING	LF	48	
SIDEWALK REMOVAL	SY	80	
DRIVEWAY, PCC, 8"	SY	1470	
SHARED USE PATH, PCC, 6"	SY		1705
SHARED USE PATH, PCC, 8"	SY		74
SIDEWALK, PCC, 4"	SY	23	
SIDEWALK, PCC, 6"	SY	45	



10' TRAIL TYPICAL SECTION

NO. DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

JCD JCD

PROJECT TEAM MEMBERS:

WBT

CHDK

JCD

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

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TITLE

OVERALL GRADING PLAN

PROJECT NO.

22024

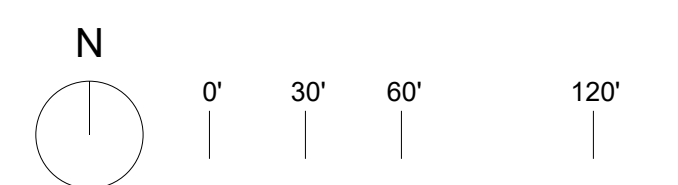
DATE

SITE PLAN SUBMISSION #4

DATE

DEC. 20, 2022

SHEET NO.



OWNER

CITY OF WAUKEE, IOWA
230 WEST HICKMAN RD.
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER

FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1393

MEP CONSULTANT

KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

KEY PLAN

NO. DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

JCD JCD

PROJECT TEAM MEMBERS:

WB

CHK

JCD

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**GRADING
ENLARGEMENT PLAN**

PROJECT NO.

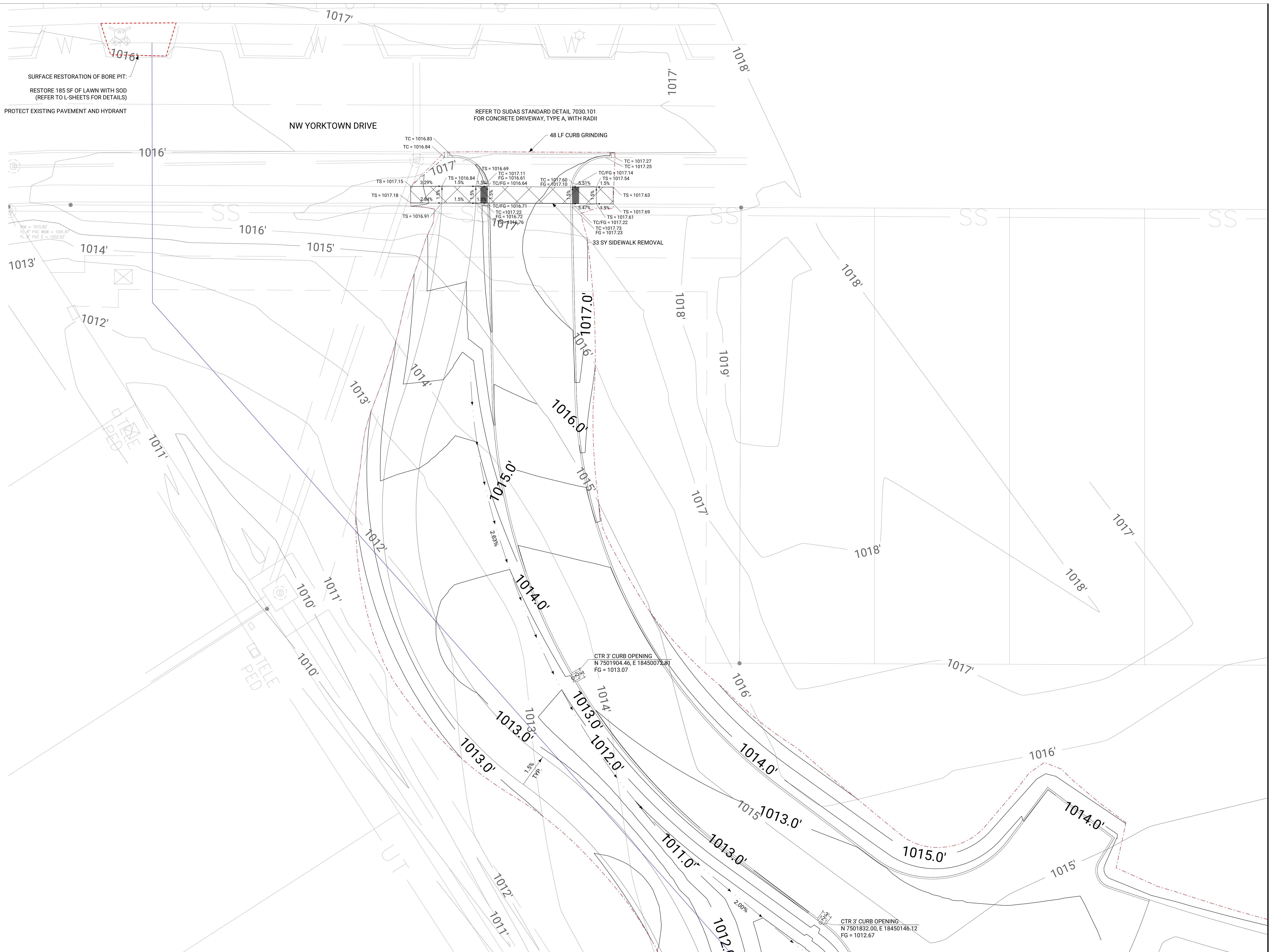
22024

DATE

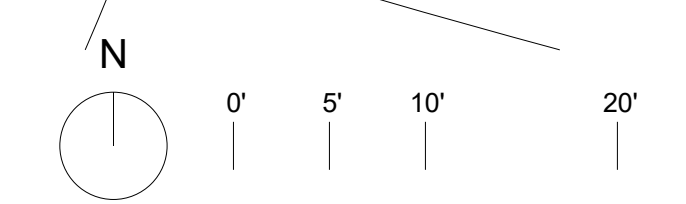
DEC. 20, 2022

SHEET NO.

C101



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GENERAL NOTES

OWNER
CITY OF WAUKEE, IOWA
230 WEST HICKMAN RD
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER
FOTH
8191 BIRCHWOOD CT I.
JOHNSTON, IA 50131
P 515.254.1393

MEP CONSULTANT
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

KEY PLAN

NO. DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

JCD JCD

PROJECT TEAM MEMBERS:

WBT

CHIEF

JCD

SCALE / STAMP

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**GRADING
ENLARGEMENT PLAN**

PROJECT NO.

22024

WALUKEE

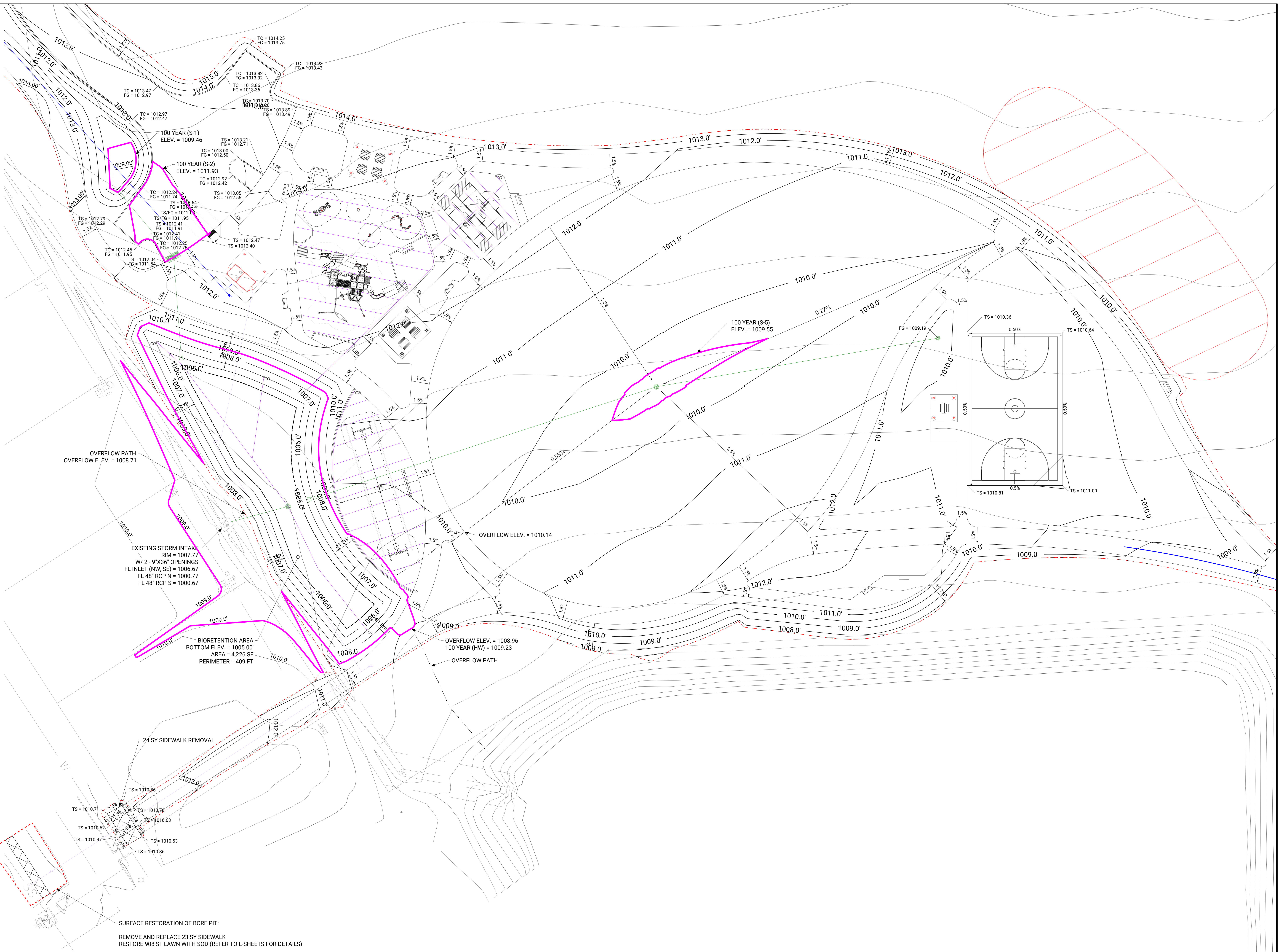
SITE PLAN SUBMISSION #4

DATE

DEC. 20, 2022

SHEET NO.

C102



OVERFLOW PATH
OVERFLOW ELEV. = 1008.71

EXISTING STORM INTAKE
RIM = 1007.77
W/ 2 - 9"X36" OPENINGS
FL INLET (NW, SE) = 1006.67
FL 48" RCP N = 1000.77
FL 48" RCP S = 1000.67

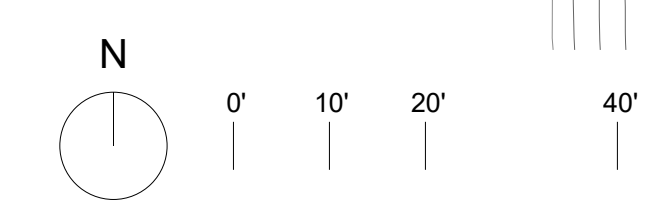
BIORETENTION AREA
BOTTOM ELEV. = 1005.00'
AREA = 4,226 SF
PERIMETER = 409 FT

OVERFLOW ELEV. = 1010.14
OVERFLOW PATH

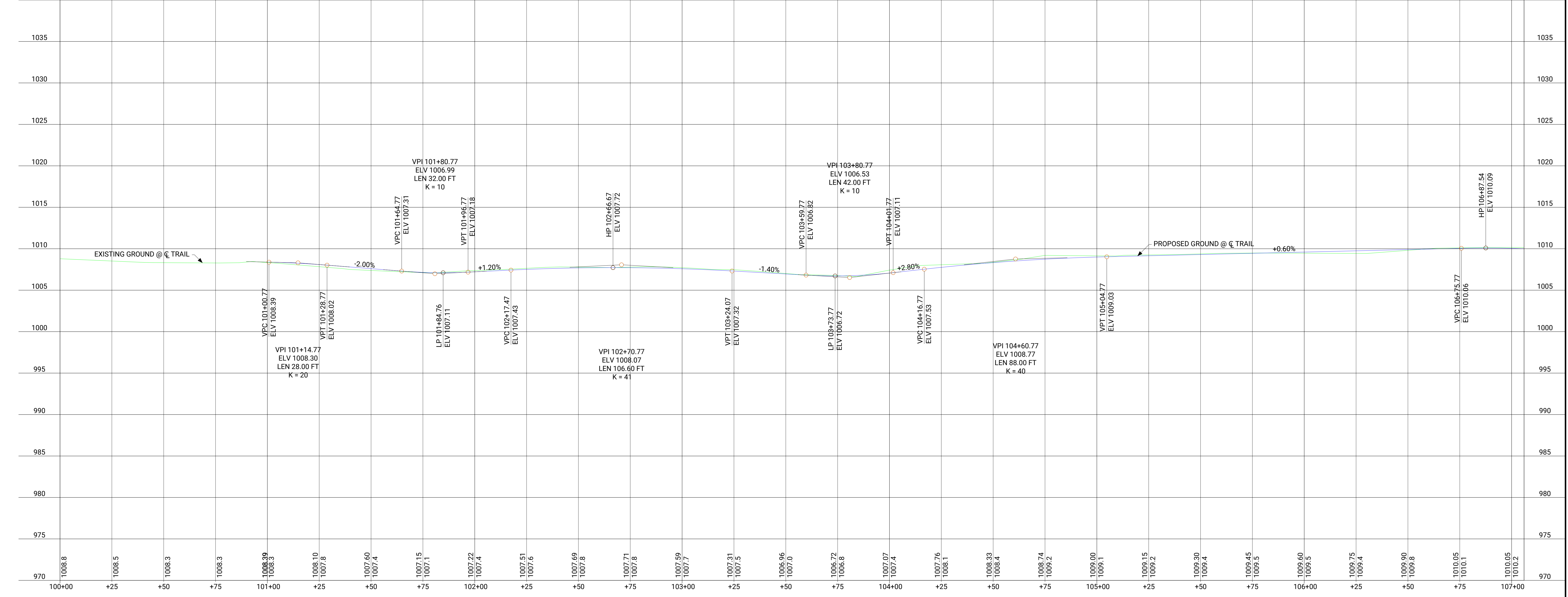
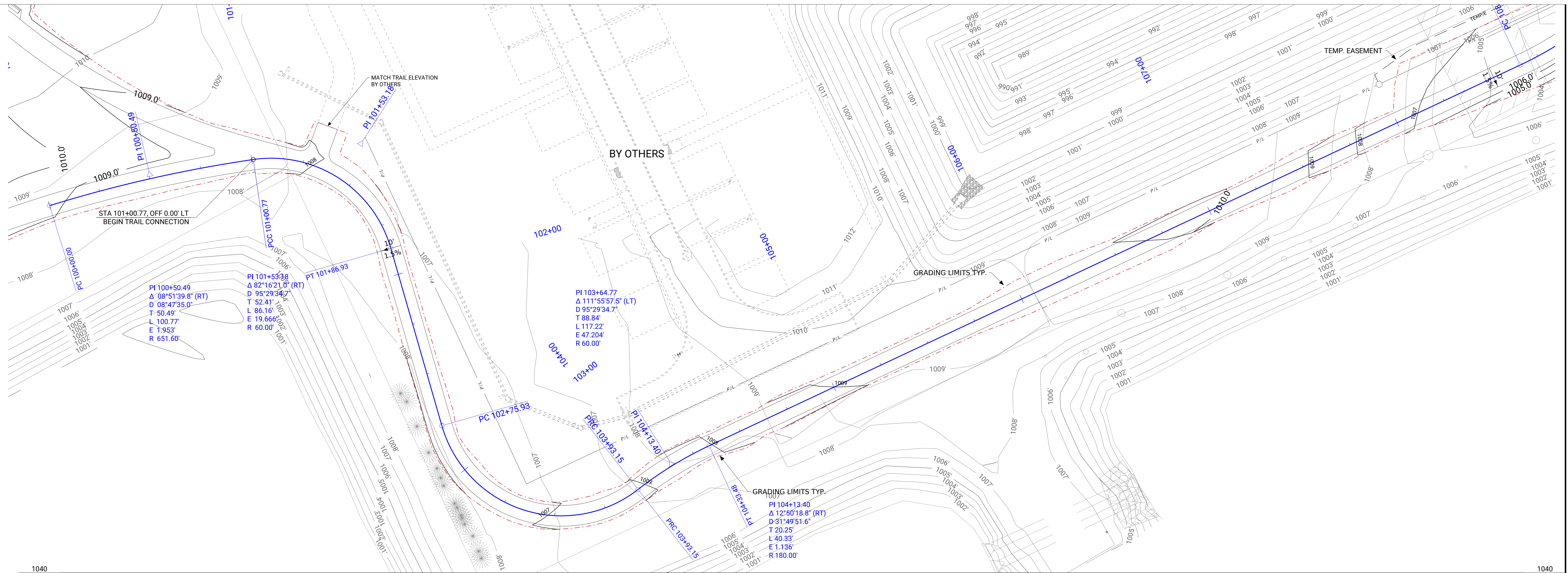
OVERFLOW ELEV. = 1008.96
100 YEAR (HW) = 1009.23

SURFACE RESTORATION OF BORE PIT:
REMOVE AND REPLACE 23 SY SIDEWALK
RESTORE 908 SF LAWN WITH SOD (REFER TO L-SHEETS FOR DETAILS)
PROTECT EXISTING TURNING SPACE AND PEDESTRIAN RAMPS

01 OVERALL GRADING PLAN
SCALE: 1:20



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NO.	DATE	REVISION

PROJECT IN CHARGE	PROJECT MANAGER
JCD	JCD

PROJECT TEAM MEMBERS
WB1
JCD

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TITLE
TRAIL PLAN & PROFILE

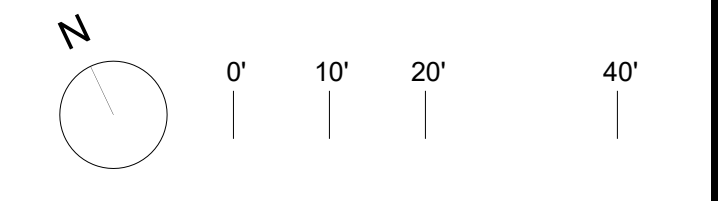
PROJECT NO.
Z2024

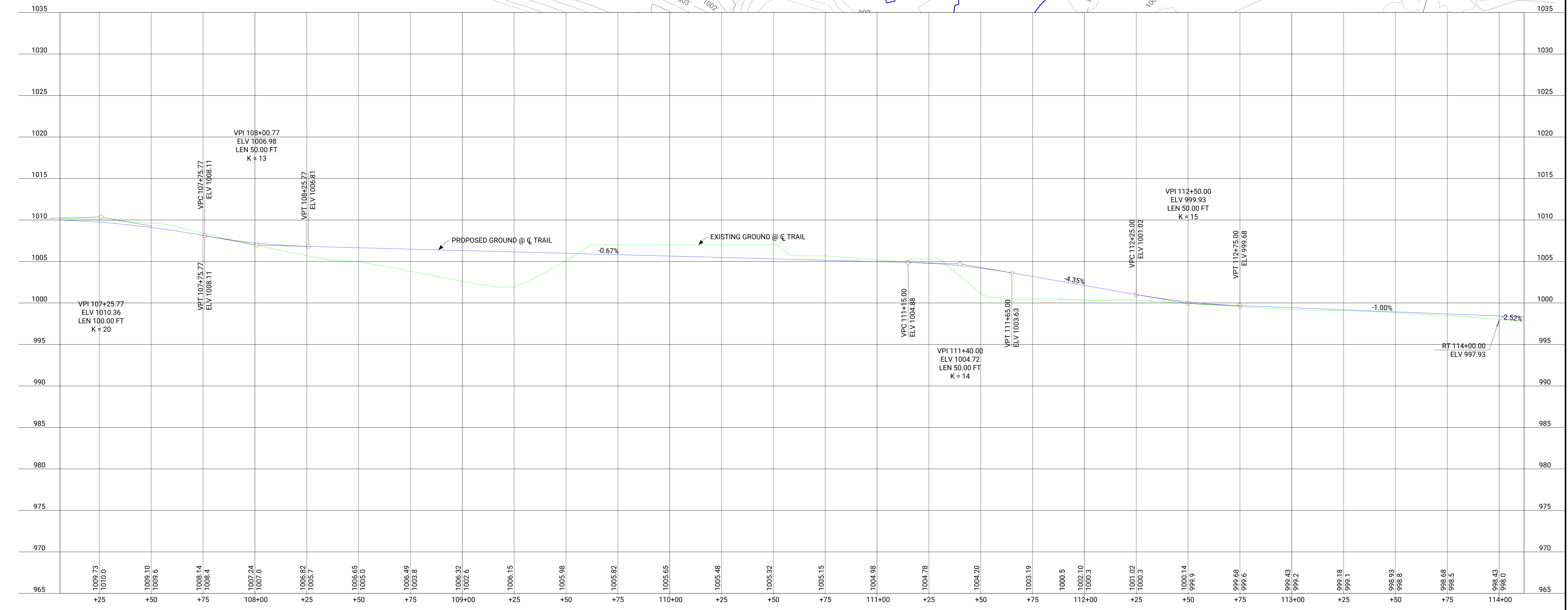
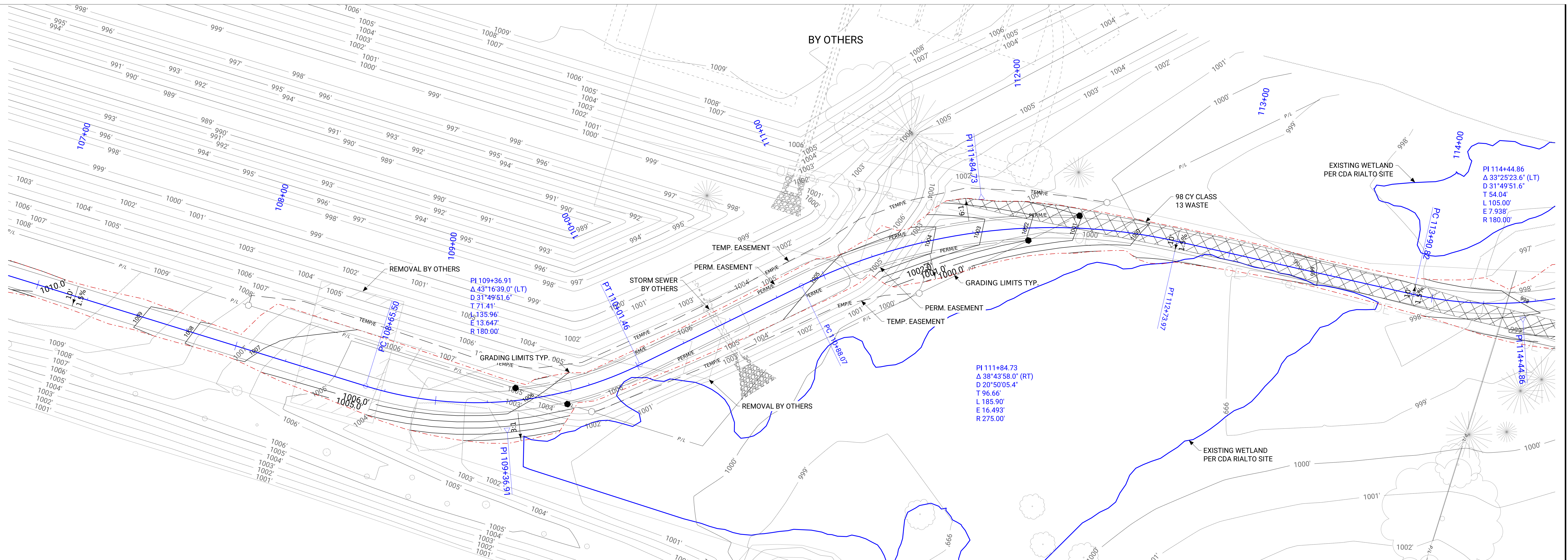
DATE
DEC. 20, 2022

SHEET NO.

C103

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NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
JCD	JCD
PROJECT TEAM MEMBERS:	
WB	
JCD	

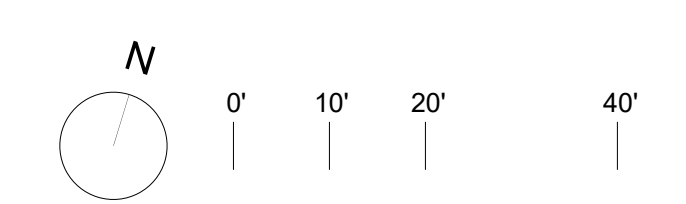
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TRAIL PLAN & PROFILE

PROJECT NO:
22024
SUBMITTING:
SITE PLAN SUBMISSION #4
DATE:
DEC. 20, 2022

SHEET NO.

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OWNER

CITY OF WAUKEE, IOWA
230 WEST HICKMAN RD
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER

FOTH
8191 BIRCHWOOD CT I.
JOHNSTON, IA 50131
P 515.254.1393

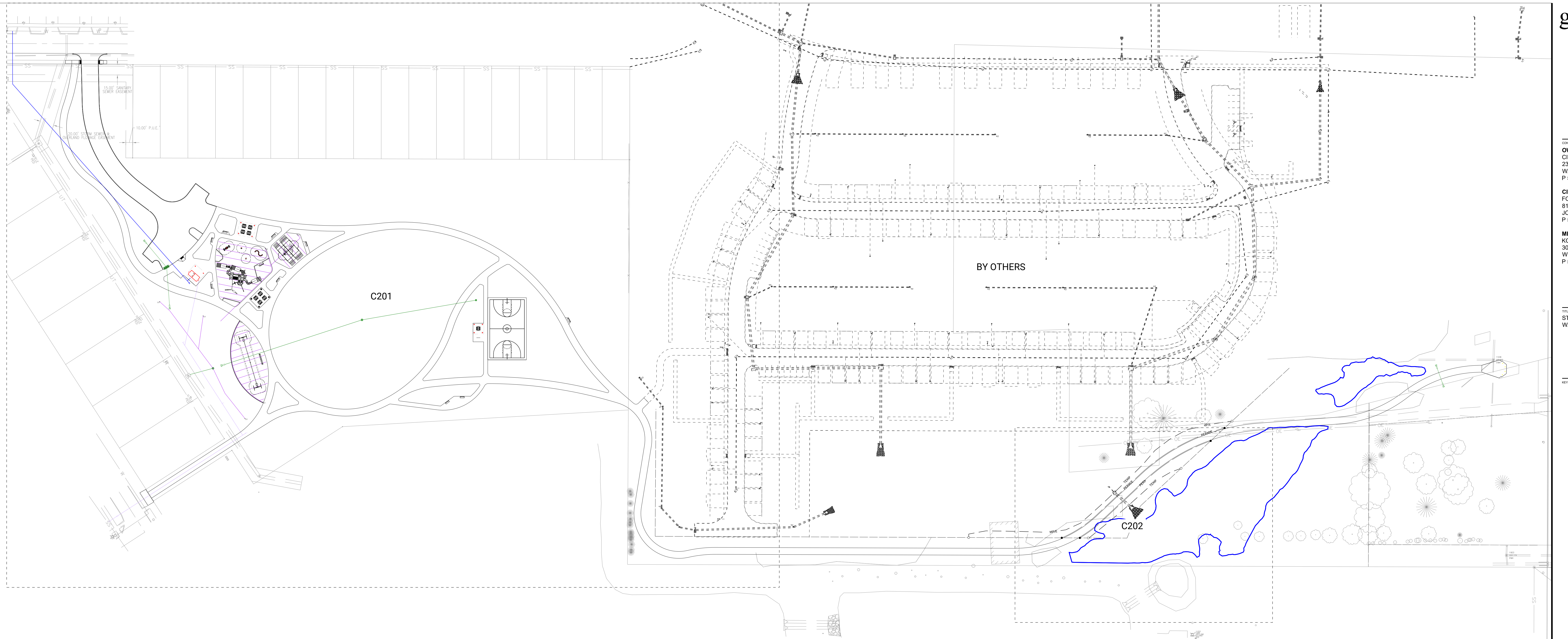
MEP CONSULTANT

KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE & LOGO

STRATFORD CROSSING PARK
WAUKEE, IOWA

REVISION



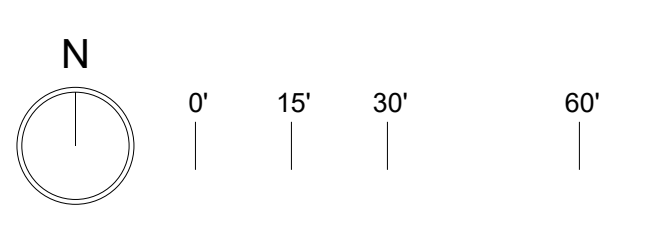
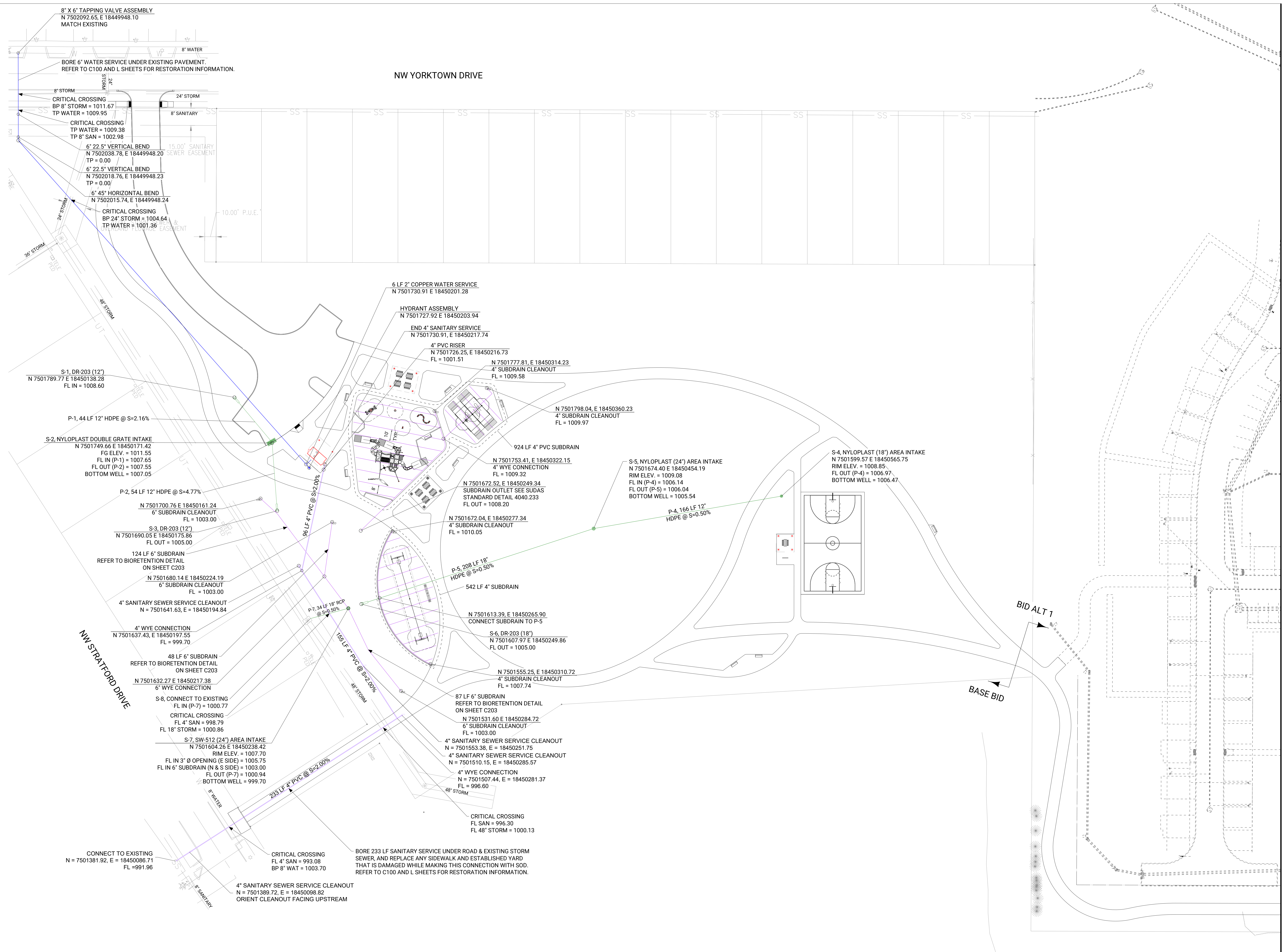
UTILITY NOTES

1. ALL WATER LINES SHALL HAVE A MINIMUM 5.5' OF COVER UNLESS NOTED OTHERWISE.
2. MAINTAIN A MINIMUM OF 18" OF VERTICAL SEPERATION BETWEEN WATER MAIN AND SEWERS AT ALL CRITICAL CROSSINGS.
3. IN INSTANCES WHERE 18" OF VERTICAL SEPERATION IS NOT FEASIBLE, THE CONTRACTOR MAY UTILIZE SUDAS SECTION 4C-1 AS AN ACCEPTABLE SOLUTION.
4. WATER MAIN SHALL BE BORED UNDERNEATH EXISTING PAVEMENT.
5. ALL STORM SEWER STRUCTURES SHALL BE NYLOPLAST DRAINAGE STRUCTURES EXCEPT FOR S-7, S-8 & S-9.
6. INLET ELEVATIONS FOR S-4 & S-5 WERE SET 4" BELOW THE PROPOSED FINISHED GRADE TO ENSURE PROPER INLET CAPTURE. CONTRACTOR SHALL GRADE TO DRAIN DURING FINAL GRADING.
7. THE STATEWIDE URBAN DESIGN AND SPECIFICATION, 2022 EDITION, AND THE CITY OF WAUKEE SUPPLEMENTAL SPECIFICATIONS SHALL APPLY TO ALL UTILITY CONSTRUCTION WORK ON THIS PROJECT.
8. SUBDRAIN CONNECTIONS TO STRUCTURES OR STORM SEWER PIPE SHALL BE CORE-DRILLED AND CONSIDERED INCIDENTAL TO SUBDRAIN INSTALLATION.
9. ADDITIONAL WATER MAIN FITTINGS REQUIRED DUE TO STAGING OR FIELD ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO WATER MAIN INSTALLATION.
10. ANY EXISTING TILE LINES ENCOUNTERED DURING UTILITY CONSTRUCTION SHALL BE REPAIRED OR CONNECTED INTO EXISTING OR PROPOSED STORM SEWER FACILITIES & LOCATIONS PROVIDED FOR AS-BUILT.
11. ALL STORM SEWER PIPE BID LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. LENGTHS SHOWN ON PLANS ARE CONSTRUCTION/DESIGN LENGTH.
12. REFER TO ARCHITECTURAL SHEETS FOR BUILDING SERVICE CONNECTION.

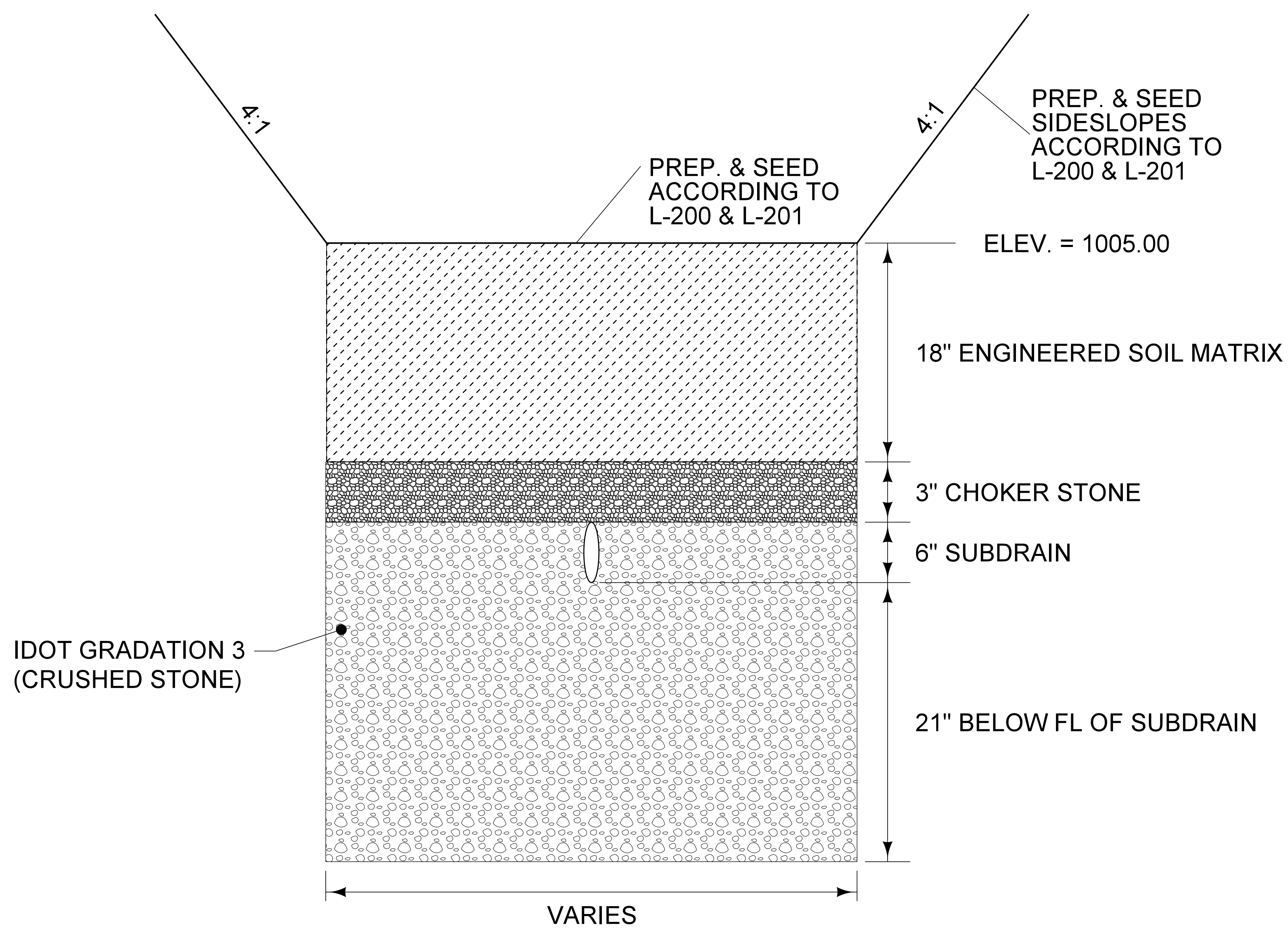
ESTIMATED QUANTITIES

ITEM	UNIT	BASE BID QUANTITY	BID ALT 1 QUANTITY
STORM SEWER, HDPE, 12"	LF	272	
STORM SEWER, HDPE, 18"	LF	210	
STORM SEWER, RCP, 18"	LF	38	
STORM SEWER, RCP, 15"	LF		22
SUBDRAIN 4"	LF	1466	
SUBDRAIN 6"	LF	259	
SUBDRAIN CLEANOUT, 4"	EA	4	
SUBDRAIN CLEANOUT, 6"	EA	3	
SUBDRAIN OUTLET, 4"	EA	3	
SUBDRAIN OUTLET, 6"	EA	2	
DR-203, 12"	EA	2	
DR-203, 18"	EA	1	
DR-201, 15"	EA		2
DOUBLE GRATE INTAKE, NYLOPLAST	EA	1	
AREA INTAKE, 18", NYLOPLAST	EA	1	
AREA INTAKE, 24" NYLOPLAST	EA	1	
SW-512 INTAKE, 24"	EA	1	
CONNECT TO EXISTING INTAKE	EA	1	
SANITARY SEWER SERVICE, TRENCHED, PVC, 4"	LF	251	
SANITARY SEWER SERVICE, TRENCHLESS, PVC, 4"	LF	233	
FITTING, 4" X 4" WYE, PVC, 4"	EA	3	
FITTING, 6" X 6" WYE, PVC, 6"	EA	1	
SANITARY SEWER CLEANOUT, 4"	EA	4	
WATER MAIN, TRENCHED, C900, 6"	LF	408	
WATER MAIN, TRENCHLESS, C900, 6"	LF	54	
WATER SERVICE, COPPER, 2"	LF	6	
WATER SERVICE, CORPORATION	EA	1	
WATER SERVICE, CURB STOP & BOX	EA	1	
FITTING, 22.5 DEGREE BEND, 6"	EA	2	
FITTING, 45 DEGREE BEND, 6"	EA	1	
TAPPING VALVE ASSEMBLY, 8" X 6"	EA	1	
FIRE HYDRANT ASSEMBLY	EA	1	

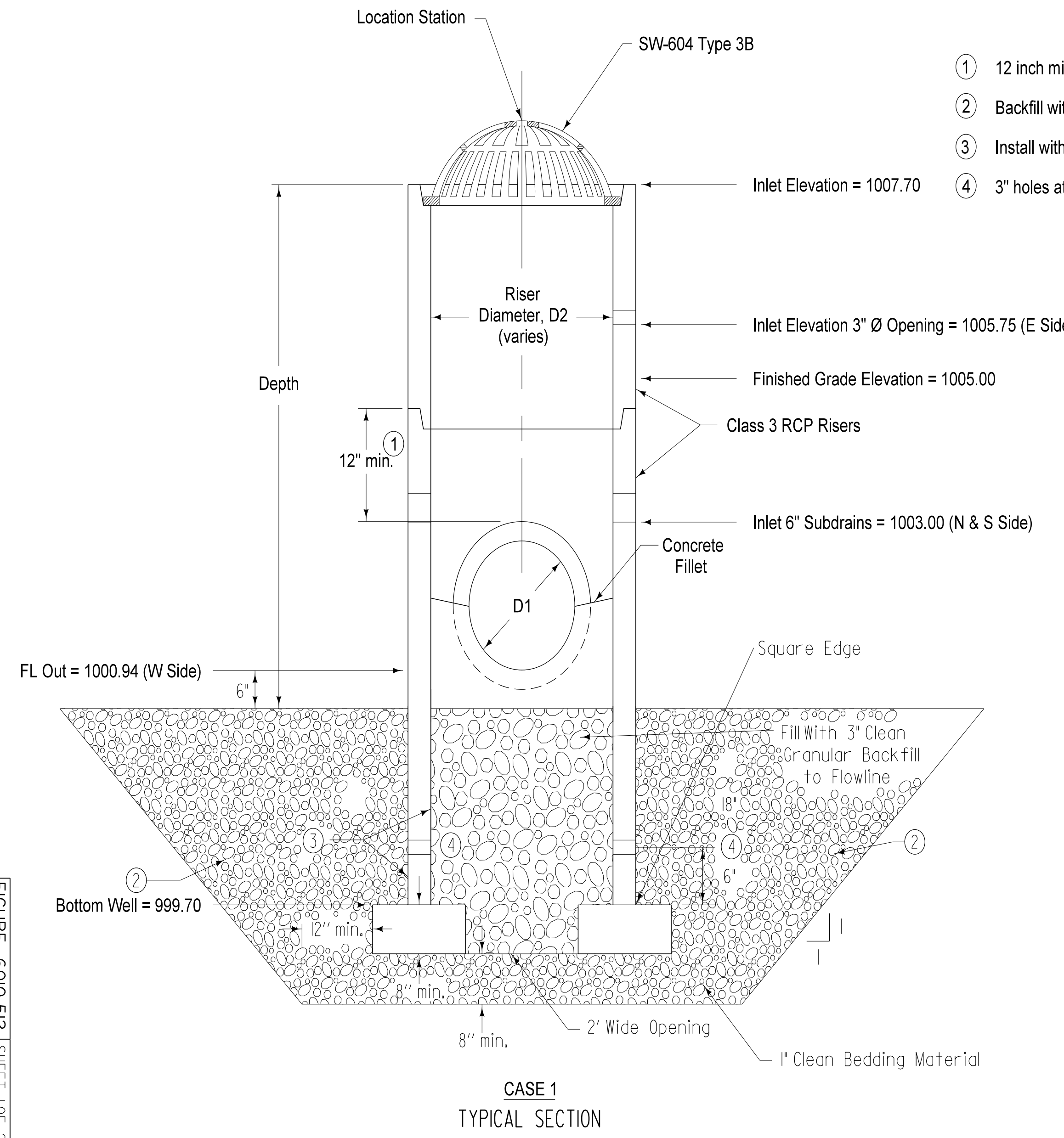
NW YORKTOWN DRIVE



BIORETENTION BASIN CROSS-SECTION DETAIL (N.T.S.)



BIORETENTION CELL MAINTENANCE REQUIREMENTS	
ACTIVITY	SCHEDULE
1) Prune and thin out plants when needed. Remove weeds throughout the growing season, preferably by pulling or trimming. Replace plants when needed. 2) Replace mulch when erosion is evident and/or weed growth is excessive. 3) Remove trash and debris from pretreatment area and bioretention cell.	Fall, Spring, As Needed
1) Inspect inflow points for clogging (offline systems). Remove any sediment. 2) Inspect filter strip/grass channel for erosion or gullyng. Re-seed or sod as necessary. 3) Trees and shrubs should be inspected to evaluate their health and remove any dead or severely diseased vegetation.	Semi-Annually
1) Look for evidence of standing water in the observation port. This may be a sign of hydraulic failure.	Annually
1) Replace pea gravel diaphragm when necessary. 2) Replace modified soil layer when ponding greatly exceeds the design drainage time.	As Necessary



- ① 12 inch minimum riser height above all pipes.
- ② Backfill with 1" clean to 6" below FL.
- ③ Install with engineering fabric 42" from bottom on interior and exterior.
- ④ 3" holes at 90° spacing.

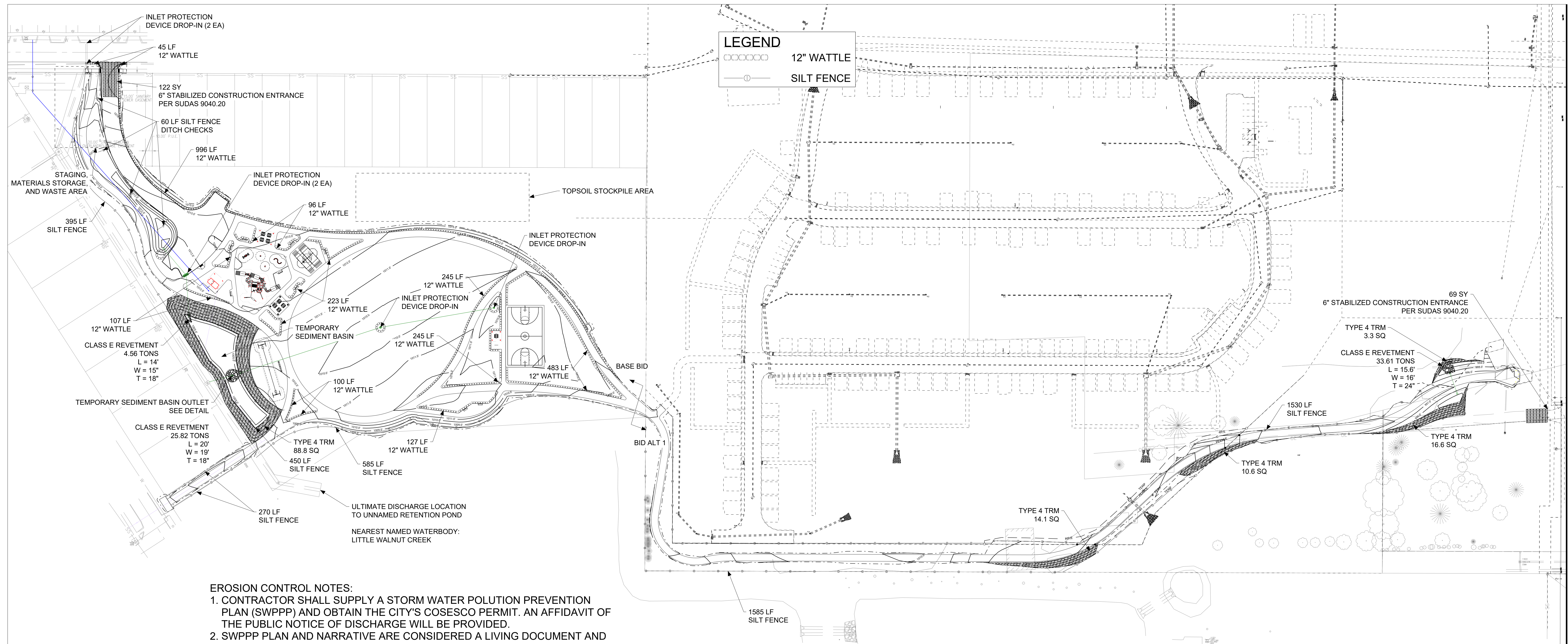
INTAKE SIZE - CASE 1	
Outlet Pipe Diameter, D1	Minimum Riser Diameter, D2
12"	18"
15"	24"
18"	24"
21"	30"
24"	30"
27"	36"

SUDAS	MODIFIED	
FIGURE 6010.512	STANDARD ROAD PLAN	SW-512
REVISIONS:		
SUDAS, DIRECTOR		
DESIGN METHODS ENGINEER		

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NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
JCD	JCD
PROJECT TEAM MEMBERS:	
WBT	
CHKR	
JCD	
SEAL/STAMP	



- EROSION CONTROL NOTES:**
1. CONTRACTOR SHALL SUPPLY A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAIN THE CITY'S COSESCO PERMIT. AN AFFIDAVIT OF THE PUBLIC NOTICE OF DISCHARGE WILL BE PROVIDED.
 2. SWPPP PLAN AND NARRATIVE ARE CONSIDERED A LIVING DOCUMENT AND WILL NEED PERIODIC UPDATES AND ADJUSTMENTS AS NECESSARY DEPENDING ON SITE CONDITIONS TO ASSURE COMPLIANCE WITH NPDES GENERAL PERMIT NO. 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THE SWPPP AND IMPLEMENT ANY AND ALL MEASURES NECESSARY TO COMPLY WITH SAID PERMIT NO. 2.
 3. JOINT INSPECTIONS WITH CITY OF WAUKEE STAFF WILL BE REQUIRED FOR GENERAL PERMIT NO. 2 STORMWATER INSPECTIONS.
 4. INSTALL PERIMETER SILT SOCK AND INTAKE PROTECTION AS SHOWN ON PLANS PRIOR TO CONSTRUCTION.
 5. INSTALL INTAKE PROTECTION IMMEDIATELY AFTER STORM SEWER CONSTRUCTION.
 6. INSTALL FINISHED PAVING INLET PROTECTION IMMEDIATELY AFTER PAVING IS COMPLETED AROUND INTAKE.
 7. OTHER EROSION CONTROL TYPES MAY NOT BE SUBSTITUTED FOR SILT FENCE.
 8. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A CONCRETE WASHOUT IN ACCORDANCE WITH NPDES GENERAL PERMIT NO. 2 DURING ALL CONCRETE WORK. CONCRETE WASHOUT SHALL MEET SUDAS SPEC 11050.
 9. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING TEMPORARY RESTROOM FACILITIES. SANITARY WASTE SHALL BE DISPOSED OF PER ALL FEDERAL, STATE AND LOCAL REGULATIONS.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL TOPSOIL REQUIREMENTS OF NPDES GENERAL PERMIT NO. 2 ARE MET.
 11. SLURRY FROM CONCRETE SAWCUTTING AND GRINDING OPERATIONS SHALL CONTAINED ACCORDING TO NPDES GENERAL PERMIT NO. 2 REQUIREMENTS

- EROSION CONTROL REMOVAL NOTES:**
1. AFTER FINAL STABILIZATION HAS OCCURED, AS DEFINED IN NPDES GENERAL PERMIT NO. 2, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO: SILT FENCE, FILTER SOCK, AND INLET PROTECTION.

- SEDIMENT BASIN MAINTENANCE NOTES:**
1. REFER TO SHEET C100 SHEETS FOR TEMPORARY SEDIMENT BASIN GRADING AREAS.
 2. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN, CLEANOUT, AND REPAIR THE SEDIMENT BASIN DURING THE PROJECT.
 3. SEDIMENT BASIN SHALL BE INSPECTED FOR SIGNS OF SEEPAGE, SETTLEMENT OR SLUMPING DURING ALL EROSION CONTROL INSPECTIONS. THESE PROBLEMS SHOULD BE REPAIRED IMMEDIATELY.
 4. SEDIMENT SHOULD BE REMOVED FROM THE BASIN WHEN IT ACCUMULATES TO ONE HALF OF THE WET STORAGE VOLUME. DURING CLEANOUT, TRASH SHOULD BE REMOVED FROM THE BASIN AND THE STANDPIPE SHOULD BE CHECKED & CLEARED OF ANY ACCUMULATED DEBRIS.
 5. SEDIMENT BASINS SHALL BE REMOVED AS THE SITE STABILIZES.

IMPERVIOUS SURFACE AREA CALCULATIONS:

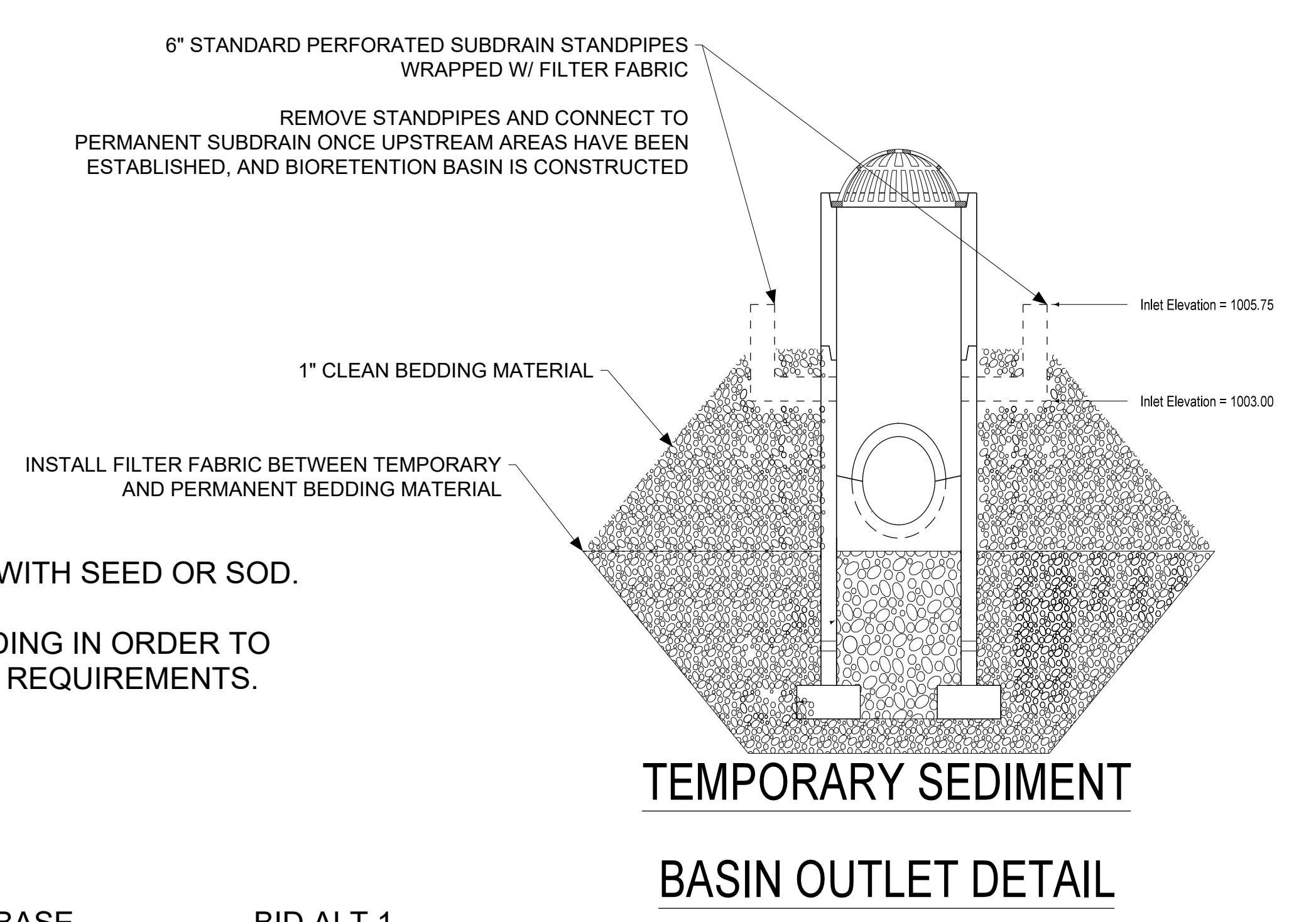
BASE BID AREA	AREA (SF)	AREA (%)
IMPERVIOUS AREAS	60,169	34%
LAWN OR SEEDING AREAS	115,664	66%
BID ALTERNATE AREA	AREA (SF)	AREA (%)
IMPERVIOUS AREAS	16,011	47%
LAWN OR SEEDING AREAS	17,823	53%

- STABILIZATION NOTES:**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE SITE WITH SEED OR SOD. SEE LANDSCAPE PLAN FOR SEED AND SOD LIMITS.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY SEEDING IN ORDER TO COMPLY WITH NPDES GENERAL PERMIT NO. 2 OR CITY OF WAUKEE REQUIREMENTS. TEMPORARY SEED SHALL MEET SUDAS TYPE 4 SEED MIXTURE.

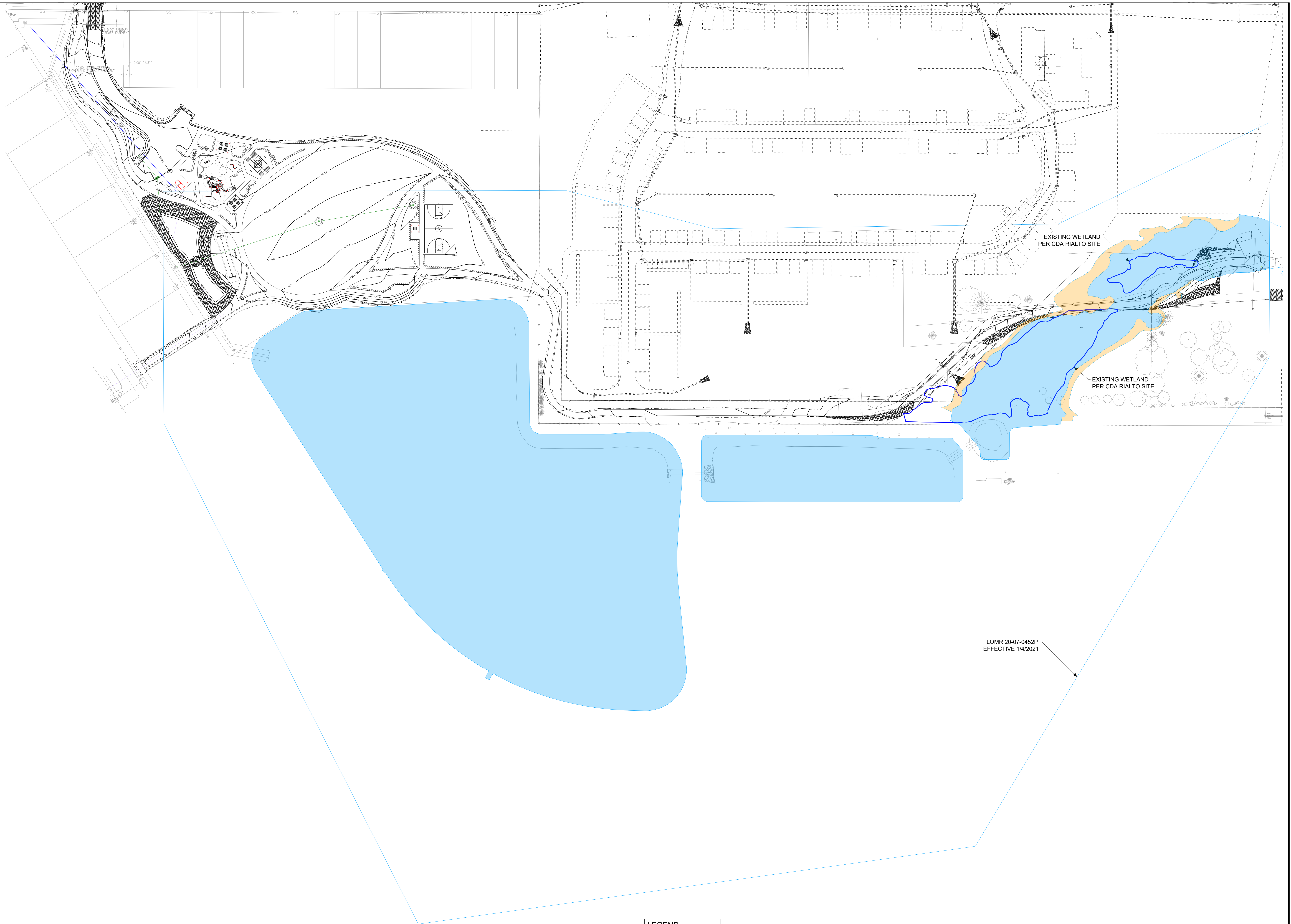
ESTIMATED QUANTITIES

ITEM	UNIT	BASE QUANTITY	BID ALT 1 QUANTITY
STABILIZED CONSTRUCTION ENTRANCE	SY	122	122
DISTURBED AREA	AC	4.8	1.0
12" PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	3000	100
SILT FENCE	LF	2000	3200
INLET PROTECTION (DROP-IN)	EA	7	
CLASS E RIP RAP	TON	30.38	33.61
TURF REINFORCEMENT MAT, TYPE 4	SQ	88.8	44.6
PERMANENT SEEDING	AC	SEE LANDSCAPING PLAN	
TEMPORARY SEEDING	AC	4.8	1.0

*NOTE: EROSION CONTROL QUANTITIES ARE PROVIDED FOR CITY REQUIREMENT ONLY AND ARE A ROUGH ESTIMATE. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO MEET SITE CONDITIONS.



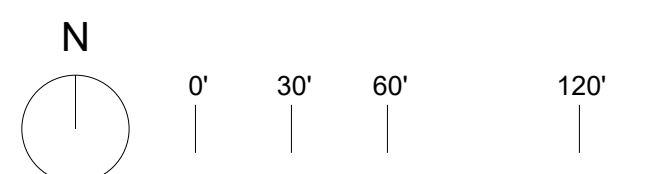
**TEMPORARY SEDIMENT
BASIN OUTLET DETAIL**



LOMR 20-07-0452P
EFFECTIVE 1/4/2021

LEGEND
[Blue Box] ZONE A

FLOOD ZONE
BASE BID LOCATED IN ZONE 'X' ACCORDING TO FEMA FLOOD INSURANCE RATE MAPS,
COMMUNITY-PANEL #19049C0220F, EFFECTIVE 12/7/2018



NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
JCD	JCD
PROJECT TEAM MEMBERS:	
WB	
CHK	
JCD	

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

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FLOODPLAIN MAP

PROJECT NO.
22024
ISSUING DATE
SITE PLAN SUBMISSION #4
DATE
DEC. 20, 2022

SHEET NO.

C301

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MECHANICAL SYMBOLS

	COLD WATER
	HOT WATER
	SOIL, WASTE, OR SANITARY SEWER BELOW FLOOR OR GRADE
	VENT ABOVE FLOOR OR GRADE
	FLOOR DRAIN - TYPE AND SIZE AS NOTED
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RECTANGULAR TO ROUND DUCT TRANSITION
	90 DEGREE MITERED ELBOW
	90 DEGREE MITERED ELBOW WITH TURNING VANES
	90 DEGREE RADIUS ELBOW
	90 DEGREE RADIUS ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	EQUIPMENT TAG
	DIFFUSER/GRILLE/REGISTER REFERENCE
	NECK SIZE / CFM

NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT.

MECHANICAL GENERAL NOTES

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.

ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL PROVIDE ALL FACILITIES AND EQUIPMENT AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT. PROVIDE TESTING AND BALANCING TO ENSURE EQUIPMENT AND DIFFUSERS MEET DESIGN INTENT. ADJUST EQUIPMENT, DAMPERS, SHEAVES, AND OTHER MEANS TO ACHIEVE A FULLY BALANCED, FUNCTIONAL MECHANICAL SYSTEM. FURNISH BALANCING DAMPERS AS REQUIRED.

PLUMBING GENERAL NOTES

MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE PLUMBING SYSTEM, INCLUDING, PIPE, INSULATION, HANGERS, SUPPORTS AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, SIZE AND INSTALL SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.

	DRAIN
	CONDENSATE DRAIN ABOVE FLOOR OR GRADE
	UNION
	CHECK VALVE
	COCK VALVE
	OS&Y VALVE
	PRESSURE RELIEF VALVE
	PRESSURE REGULATING VALVE
	RISER DOWN (ELBOW)
	RISER DOWN (TEE)
	RISER UP (ELBOW)
	NEW PIPING
	SHUT OFF VALVE (BALL, BUTTERFLY, ETC. REFER TO SPECS)

HVAC GENERAL NOTES

MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING EXHAUST DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS AND COORDINATION DRAWINGS.

MECHANICAL WARRANTY NOTES

MECHANICAL CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY WILL NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM ACCIDENT OR IMPROPER OPERATION OR CARE ON THE PART OF THE OWNER, AND NOT DUE TO DEFECTIVE MATERIAL OR INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

GENERAL ELECTRICAL NOTES

GENERAL NOTES

- THE ENTIRE PROJECT SHALL COMPLY WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE (NEC), INCLUDING AMENDMENTS, AND WITH ALL STATE, LOCAL, AND OTHER CODES AS APPLICABLE. THE CURRENT ISSUE SHALL BE THE ISSUE THAT IS IN EFFECT WHEN THE CONSTRUCTION PERMITS ARE SECURED FOR THE WORK. THE INTERPRETATIONS AND DECISIONS OF THE AUTHORITY HAVING JURISDICTION OF APPLICABLE CODES SHALL GOVERN.
- WHERE A CONFLICT EXISTS BETWEEN THE APPLICABLE CODES AND THE PLANS AND THE SPECIFICATIONS, THE ONE SHALL BE FOLLOWED WHICH RESULTS IN THE HIGHER QUALITY, MOST COMPLETE INSTALLATION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED STATE AND LOCAL PERMITS AND ASSOCIATED FEES.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- ELECTRICAL DRAWINGS ARE SCHEMATIC. ELECTRICAL ITEMS ARE SHOWN IN APPROXIMATE LOCATIONS. MINOR RELOCATIONS OF THESE ITEMS MAY BE MADE BY THE CONSTRUCTION REPRESENTATIVE AT NO EXPENSE TO THE OWNER.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- VOLTAGE DROP SHALL BE LIMITED TO 3% ON ALL BRANCH CIRCUITS.
- ALL CONDUCTORS SIZES ARE BASED ON COPPER UNLESS OTHERWISE NOTED.
- PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
- INSTALL BELOW GRADE WIRING IN PVC CONDUIT. CONTRACTOR OPTION: DIRECT BURY VIA DIRECTIONAL BORING OR TRENCHING. PRIOR TO WORK COMMENCING CONTRACTOR SHALL COORDINATE INSTALLATION METHOD WITH EXISTING FIELD CONDITIONS AND OWNER/ENGINEER PRIOR TO COMMENCING INSTALLATION.
- CONTRACTOR SHALL PROTECT SITE FROM MACHINERY/VEHICLES AND REPAIR ANY SITE DISTURBANCES MADE. RETURN EXCAVATED SOIL TO GRADE LEVEL AND THOROUGHLY COMPACT TO MINIMIZE SETTLING OF GROUND. REPAIR ANY DAMAGE OR DISTURBANCES TO THE SITE WITHIN OWNER'S APPROVAL. APPLY GRASS SEED TO DISTURBED SOIL WITH SUPER TURF II LS BY UNITED SEEDS. CUT AND PATCH WALKWAYS AND PADS WHERE NECESSARY. MATCH EXISTING SURFACE MATERIAL.
- VERIFY DIMENSIONS ON SITE. ELECTRICAL SITE PLAN SHOULD NOT BE USED FOR MATERIAL TAKE OFF'S.
- UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHOWN ON PLANS ARE FOR REFERENCE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY OWNER/ENGINEER BEFORE PROCEEDING.
- CONTACT WEST DES MOINES WATER WORKS MITCH PINKERTON: 515-222-3465 PRIOR TO ANY EXCAVATION NEAR CONTROLS STATIONS.
- NEW PATHWAY LIGHT POLES AND BASES ARE TO BE LOCATED +2'0" OFF OF PATHWAY EDGE. OFFSET AS NECESSARY WHERE UNDERGROUND CONFLICTS OCCUR.
- WHERE APPLICABLE TO THE PROJECT, THE LATEST EDITION OF THE 'STANDARD URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS' (SUDAS) SHALL BE USED. REFER TO THE VARIOUS EQUIPMENT AND COMPONENT SPECIFICATIONS WITHIN THESE PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- CONTRACTOR WILL BE ALLOWED TO STORE EQUIPMENT AND CONSTRUCTION MATERIALS ON-SITE DURING PROJECT. IT WILL BE CONTRACTOR'S RESPONSIBILITY TO SECURE SUCH EQUIPMENT AND MATERIALS. CONTRACTOR WILL BE LIMITED TO STAGING WORK TO ONLY ONE AREA OF PARK AT ANY ONE TIME. FINAL LOCATION TO BE COORDINATED WITH OWNER PRIOR TO MOBILIZING.
- CONTRACTOR IS TO PRESERVE AND PROTECT EXISTING SITE STRUCTURES NOT INDICATED FOR MODIFICATIONS. ANY PAVEMENT THAT REQUIRES REMOVAL ORDER TO COMPLETE PROJECT SHALL BE REPLACED TO MATCH EXISTING PAVEMENT. LIMIT ASPHALT PAVEMENT REMOVALS TO ONLY WHAT IS NECESSARY TO COMPLETE WORK. CONCRETE REMOVALS WILL REQUIRE REMOVAL TO THE NEAREST CONSTRUCTION JOINT. WORK UNDER THIS NOTE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL PROPERLY SECURE PROJECT SITE AT THE END OF THE EACH DAY. ANY OPEN EXCAVATIONS SHALL BE FENCED WITH ORANGE CONSTRUCTION FENCING. SAFETY FENCING AND INSTALLATION ARE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL MATERIALS AND EQUIPMENT REMOVED FROM SITE DURING PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- IF WORK REQUIRES CLOSING OF PARK TRAIL, CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND REMOVING TRAFFIC CONTROL DEVICES. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO CLOSING TRAIL. TRAFFIC CONTROL SHALL BE INCIDENTAL TO THIS PROJECT.
- CONTRACTOR SHALL PROVIDE A PHASING PLAN INDICATING AREAS OF WORK ALONG A CONSTRUCTION TIMELINE.

ELECTRICAL ABBREVIATIONS

AFG	ABOVE FINISHED GRADE	MCS	MOMENTARY CONTACT SWITCH
AIC	AMPS INTERRUPTING CAPACITY	HH	HANDHOLE - POWER
BKR	BREAKER	N	NEW DEVICE IN EXISTING LOCATION
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CKT	CIRCUIT	R	EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
DPST	DOUBLE POLE SINGLE THROW	RN	REPLACE EXISTING WITH NEW
E	EXISTING ITEM TO REMAIN	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EC	ELECTRICAL CONTRACTOR	SPDT	SINGLE POLE DOUBLE THROW
ER	NEW LOCATION OF EXISTING ITEM	SPST	SINGLE POLE SINGLE THROW
HOA	HAND OFF AUTOMATIC	TYP	TYPICAL
JB	JUNCTION BOX	VF	VERIFY IN FIELD
K	KEYED	XFMR	TRANSFORMER
LC	LIGHTING CONTRACTOR		

ELECTRICAL SYMBOLS

P1	POLE MOUNTED LIGHT FIXTURE - PATHWAYS
	PHOTOCELL
	TIME CLOCK
	LIGHTING CONTACTOR
	DUPLEX GROUND FAULT RECEPTACLE, +18" OR AS NOTED
	DUPLEX RECEPTACLE, +18" OR AS NOTED
	DUPLEX GROUND FAULT "WR"-TYPE RECEPTACLE WITH IN-USE WEATHERPROOF COVER, +24" OR AS NOTED
	NOTE REFERENCE
	INDICATES DETAIL NUMBER
	INDICATES DRAWING NUMBER WHERE DETAIL IS FOUND



GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES. AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

NO DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

NS LW

PROJECT TEAM MEMBERS

LW

NS

REAL TEAM

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MECHANICAL & ELECTRICAL NOTES & SYMBOLS

PROJECT NO.

22002

REVISION

SITE PLAN SUBMISSION #3

DATE

NOV. 29, 2022

SHEET NO.

ME000

OWNER

CITY OF WAUKEE, IOWA
805 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER

FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1393

STRUCTURAL ENGINEER

KCPFF
604 LOCUST ST #202
DES MOINES, IA 50309
P 515.279.3900

MEP CONSULTANT

KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA



NOTE:
ANY UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN UPON AVAILABLE INFORMATION. THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT REFERENCED ON THIS PLAN. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY OWNER/ENGINEER BEFORE PROCEEDING.

- KEYED NOTES:**
- 1 MOUNT EXTERIOR RECEPTACLE TO STRUCTURAL COLUMN AT +18" ABOVE FINISHED FLOOR. EXPOSED CONDUIT ABOVE GRADE SHALL BE RIGGED TYPE.
 - 2 MOUNT LIGHT FIXTURE TO UNDERSIDE OF ROOF STRUCTURE. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. CONCEAL CONDUIT PATHWAYS THROUGH COLUMNS AND ROOF STRUCTURE.

1 ELECTRICAL SITE PLAN - NEW
SCALE: 1" = 40'-0"

NO.	DATE	REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER
NS LW

PROJECT TEAM MEMBERS
LW NS

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MEP SITE PLAN

PROJECT NO.
22002
DATE
NOV. 29, 2022

OWNER

CITY OF WAUKEE, IOWA
805 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER

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8191 BIRCHWOOD CT. I.
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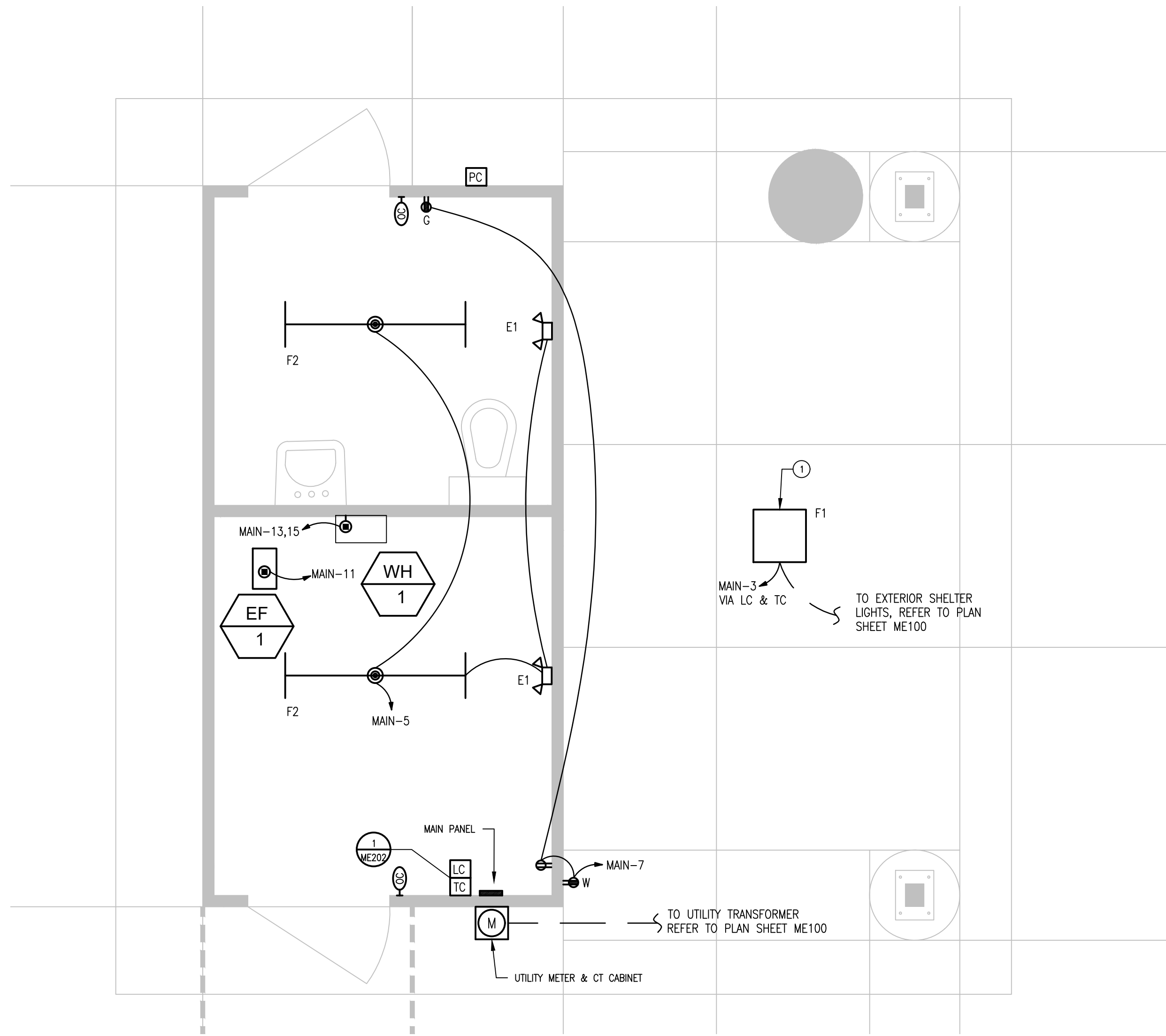
TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

GENERAL MECHANICAL NOTES

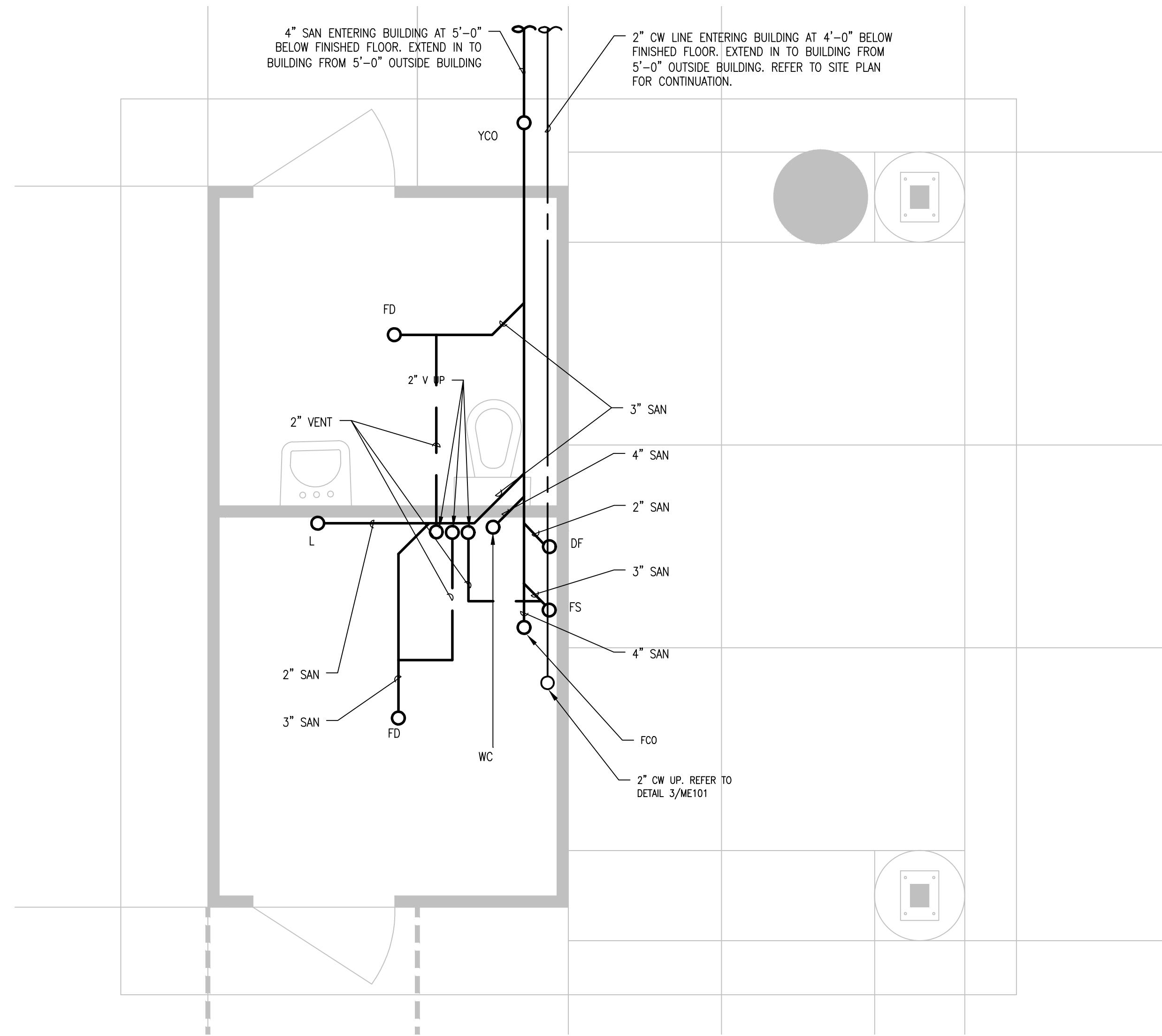
- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- REFER TO ME000 FOR GENERAL NOTES.
- REFER TO ME201 FOR MECHANICAL DETAILS.
- REFER TO PLUMBING ROUGH-IN SCHEDULE ON ME200 FOR MINIMUM FIXTURE CONNECTION SIZES.
- REFER TO ME201 FOR PLUMBING DETAILS.

KEYED NOTES:

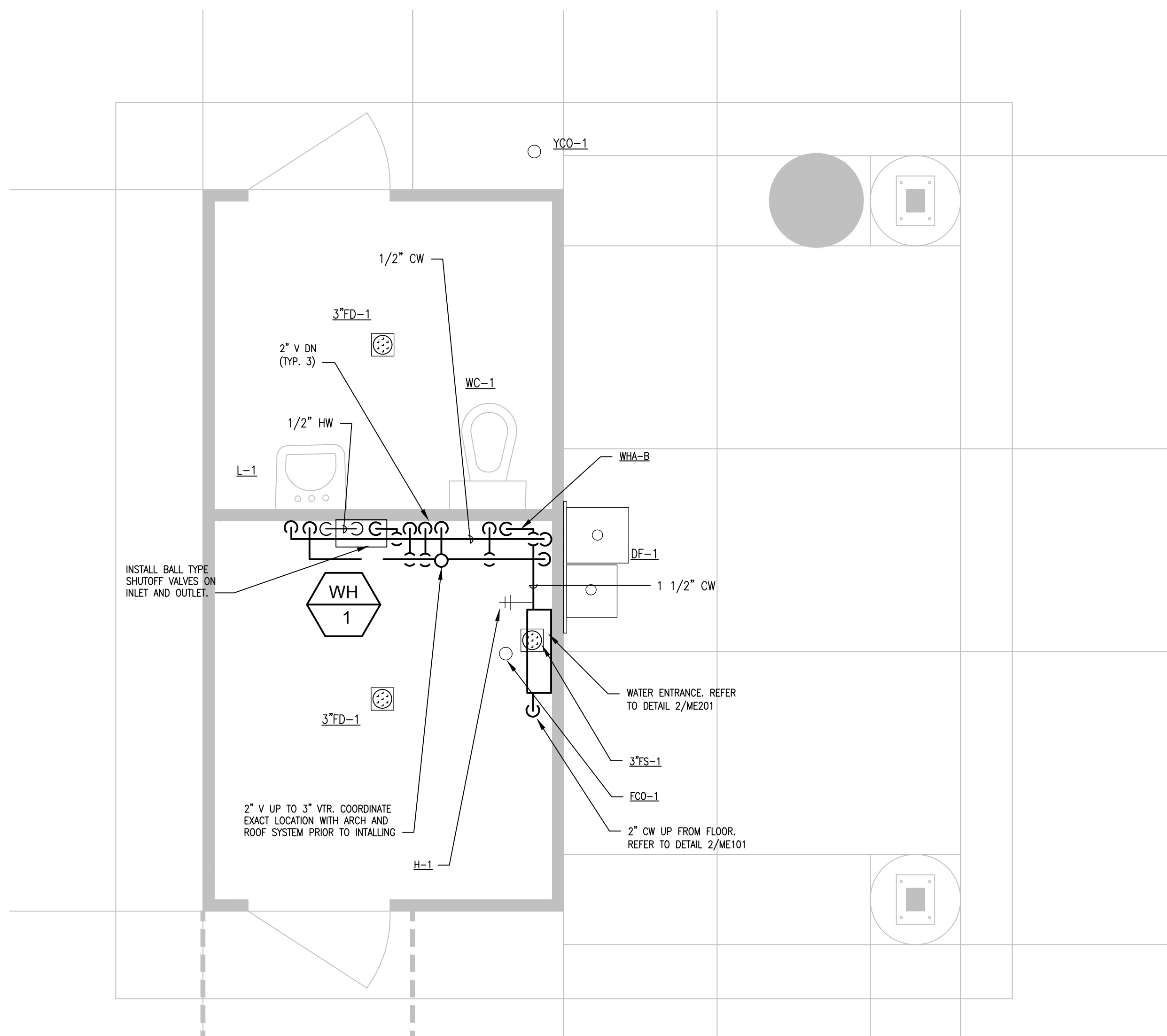
- MOUNT LIGHT FIXTURE TO UNDERSIDE OF ROOF STRUCTURE. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. CONCEAL CONDUIT PATHWAYS THROUGH ROOF STRUCTURE.



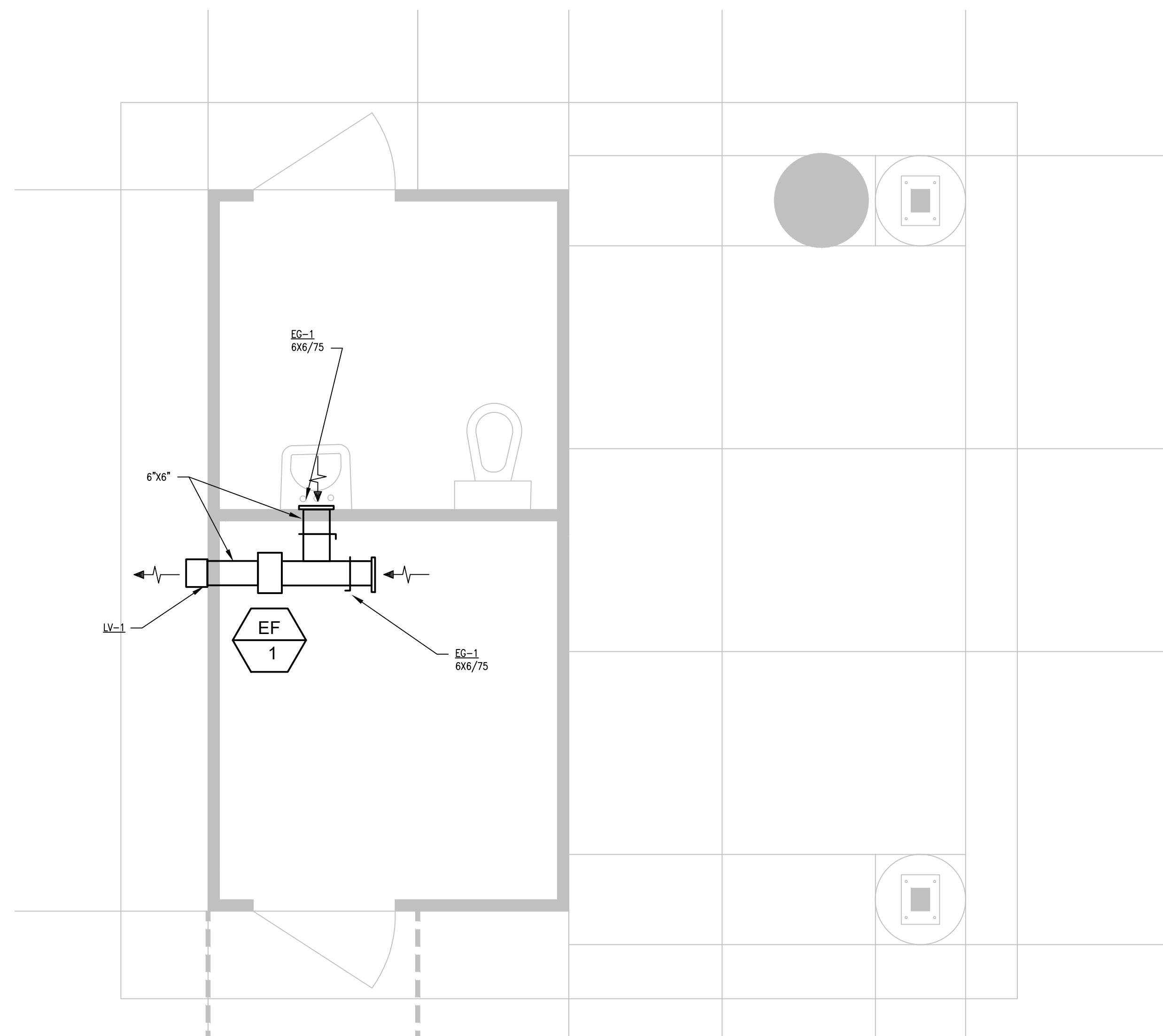
1 MODULAR RESTROOM/STORAGE BUILDING - ELECTRICAL SYSTEMS
SCALE: 1/2" = 1'-0"



2 MODULAR RESTROOM/STORAGE BUILDING - UNDERFOUNDATION PLUMBING SYSTEMS
SCALE: 1/2" = 1'-0"



3 MODULAR RESTROOM/STORAGE BUILDING ABOVE GROUND PLUMBING SYSTEMS
SCALE: 1/2" = 1'-0"



4 MODULAR RESTROOM/STORAGE BUILDING - VENTILATION SYSTEMS
SCALE: 1/2" = 1'-0"

NO. DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

NS LW

PROJECT TEAM MEMBERS

LW

NS

REAL TEAM

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**MEP SYSTEMS
MODULAR BUILDING**

PROJECT NO.

22002

DATE/ISSUE

SITE PLAN SUBMISSION #3

DATE

NOV. 29, 2022

SHEET NO.

ME101

PLUMBING FIXTURE SCHEDULE

REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
BFP-1	WATTS	009/909	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE TYPE, BRONZE OR FDA APPROVED EPOXY COATED CAST IRON CONSTRUCTION, SIZE SAME AS CONNECTED PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, SERVICEABLE WITHOUT REMOVING UNIT FROM LINE APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013. IAPMO AND SBCCI LISTED.	NA
FCO-1	ZURN	CO2455	ADJUSTABLE FLOOR CLEANOUT, ABS TAPERED THREAD PLUG AND ROUND NICKEL BRONZE FRAME AND COVER, SCORRIATED CAST IRON HEAVY-DUTY SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. OUTLET SIZE AS NOTED ON DRAWINGS.	NA
FD-1	ZURN	Z-415B	CAST IRON BODY FLOOR DRAIN, TYPE "B" 6" ROUND POLISHED NICKEL BRONZE STRAINER. OUTLET SIZE AS NOTED ON DRAWINGS, MIN. 3".	PROVIDE WITH TRAP GUARD; PROSET "TRAP GUARD", SURE SEAL "MODEL SS", OR APPROVED EQUAL.
FS-1	ZURN	Z-1910	CAST IRON BODY, NICKEL BRONZE RIM AND HALF GRATE, 8" SQUARE, 3" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH ALUMINUM SEDIMENT BUCKET, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.	NA
H-1	WOODFORD	24	WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, POLYCARBONATE WHEEL HANDLE AND LOOSE KEY TEE, KEY OPERATED, ASSE 1019 APPROVED AND LISTED. INSTALL AT 36" ABOVE FINISH FLOOR.	NA
DF-1	ELKAY	EDFPVR217C	BI-LEVEL, VANDAL RESISTANT, ADA COMPLIANT, WALL HUNG FOUNTAIN. STAINLESS STEEL BASIN WITH INTEGRAL GRID DRAIN, STREAM PROJECTORS WITH PROTECTIVE HOODS.	NA
L-1	KOHLER	K-2005	WALL HUNG VITREOUS CHINA LAVATORY, OVERALL DIMENSIONS 21" X 18", 4" CENTER HOLES, PROVIDE WITH WALL HANGER, ADA COMPLIANT.	DELTA "891-LGHGMHDF" OR APPROVED EQUAL, ADA COMPLIANT. BATTERY POWERED SENSOR TYPE FAUCET, WITH OFFSET GRID STRAINER AND TRAP, TRUEBRO "102W, 105" CW, HW, AND WASTE PIPE GUARDS AND ESCUTCHEONS, PROVIDE POWERS "LFE480" POINT OF USE MIXING VALVE UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
WC-1	KOHLER	K-4325	WALL MOUNTED 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, 1 1/2" TOP SPUD. ADA COMPLIANT BOWL HEIGHT.	SLOAN "8111-MC" OR APPROVED EQUAL, BATTERY POWERED, 1.6 GPF EXPOSED SENSOR OPERATED FLUSH VALVE WITH VANDAL RESISTANT CAP, CHURCH 295SSC WHITE OPEN FRONT EXTRA HEAVY SEAT, INJECTION MOLDED PLASTIC, STAINLESS STEEL POSTS, ESCUTCHEON & WAX RING.
YCO-1	ZURN	Z-1474	ROUND, DURA-COATED CAST IRON, 4" OR AS INDICATED, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORRIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL	NA

- NOTES:
1. REFER TO PLUMBING FIXTURE SCHEDULE FOR MINIMUM CONNECTION SIZES.
2. FIELD VERIFY EXISTING CONDITIONS FOR REPLACEMENT OF EXISTING FIXTURES.

PLUMBING FIXTURES ROUGH-IN SCHEDULE

FIXTURE	CW	HW	VENT	WASTE	NOTES
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	1,2,3
WATER CLOSET (FLUSH VALVE)	1"	-	2"	4"	1
FLOOR SINK	-	-	2"	3"	1
FLOOR DRAIN	-	-	2"	3"	1
HOSE BIBB	3/4"	-	-	-	1

- NOTES:
1. ALL SIZES SHOWN ARE MINIMUM CONNECTION SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
2. ALL BELOW FLOOR WASTE SIZES ARE TO BE A MINIMUM OF 2".
3. ALL HORIZONTAL BRANCH PIPING TO BE A MINIMUM OF 3/4".

WATER HEATER

REFERENCE	WH-1
MANUFACTURER	EEMAX
MODEL #	AM005240T
KW	4.5
AMPS	20
DIMENSIONS HxWxD	14"x6"x4"
GPM	0.5
TEMPERATURE RISE AT LISTED GPM	66 F
VOLTAGE/PH	240/1
NOTES	1

- NOTES:
1. EC TO PROVIDE DISCONNECT.

EXHAUST FAN SCHEDULE

REFERENCE	EF-1
MANUFACTURER	GREENHECK
MODEL #	SQ-97-VG
TYPE	INLINE
SERVES	RESTROOM
CFM	150
ESP (IN. W.C.)	0.50
FAN RPM	1410
BELT/DIRECT	DIRECT
SPEED CONTROL (YES/NO)	YES
SONES	11
DAMPER TYPE	MOTORIZED
BHP	0.1
MOTOR HP	1/4
VOLTAGE/PH	120/1
NOTES	1 THROUGH 4

- NOTES:
1. INTEGRAL STARTER AND DISCONNECT PROVIDED BY FAN MFR.
2. FAN TO OPERATE BY OCCUPANCY SENSOR. WIRING BY E.C.
3. MOTORIZED DAMPER TO OPEN/CLOSE WITH EXHAUST FAN OPERATION. WIRING BY E.C.
4. SPEED CONTROL TO BE LOCATED ON FAN HOUSING.

LOUVER SCHEDULE

REFERENCE	LV-1
MANUFACTURER	GREENHECK
MODEL	ESD-403
APPLICATION	EXHAUST
MATERIAL	ALUMINUM
SIZE (W X L X D) (IN.)	12 X 12 X 4
CFM	150
FREE AREA (SQ. FT.)	0.3
PRESSURE DROP (IN. W.C.)	0.035
FREE AREA VELOCITY (FPM)	495
BLADE DIRECTION	HORIZONTAL
INSTALLATION	WOOD FRAME
DRAINABLE	YES
NOTES	1,2,3,4

- NOTES:
1. PROVIDE COLOR CHARTS TO ARCHITECT FOR COLOR SELECTION. FINISH TO BE CLEAR ANODIZED.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE WITH BIRDSCREEN
4. PROVIDE LOUVER ABOVE, EQUIVALENT BY NCA, RUSKIN OR ENGINEER PRE-APPROVED EQUAL.

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
EG-1 (EXHAUST GRILLE)	ALUMINUM	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	350FL	1

- NOTES:
1. WITH MOUNTING BRACKET AND BUTTERFLY DAMPER, GRILLE IN STANDARD #26 WHITE FINISH.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DIMENSIONS	LAMP TYPE	FIXTURE LOAD	FIXTURE VOLTS	APPROVED EQUALS
E1	DUAL LITE	EV2DI	EMERGENCY FIXTURE, WALL OR CEILING MOUNT. (2) LED HEADS, 205 LUMENS PER HEAD. DAMP LOCATION. LV STABILIZED THERMOPLASTIC BODY. WHITE FINISH. LITHIUM PHOSPHATE BATTERY. IMPROVED DIAGNOSTICS.	5" X 8.5"	LED	2W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
F1	FC LIGHTING	FCW3360-UNV-40K-CR85-16L-WHE-CSM	EXTERIOR DECOR CEILING SURFACE MOUNT FIXTURE. 14" SQUARE, IP65 RATED, IMPACT RESISTANT HEAVY GAUGE DIE-CAST ALUMINUM HOUSING, POLYCARBONATE LENS. 1600 LUMENS @ 4000K CCT. 85CRI. SURFACE MOUNTS TO JUNCTION BOX. PROVIDE WITH CONDUIT SURFACE MOUNT BOX.	14"X14"	LED	19W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
F2	COLUMBIA LIGHTING	MPS440MW-CPW-EU-MPSCE	4" INDUSTRIAL STRIP FIXTURE, SURFACE MOUNTED TO CEILING. CURVED, FROSTED POLYCARBONATE LENS. 3600 LUMENS @ 4000K CCT, 80CRI.	4"	LED	27W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
P1	BEACON	VP MICROSTRIKE 2 320L-170 4K7 2 UNV A5 BC	AREA/SITE LUMINAIRE, DIE-CAS ALUMINUM HOUSING MOUNTS DIRECT TO 5" ROUND POLE. 70 CRI, 4000K CCT. BLACK MATTE TEXTURED FINISH. TYPE 2 DISTRIBUTION WITH MICRO STRIKE OPTICS TO MINIMIZE GLARE.	16.76"X14.37"	LED	167W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
P2	BEACON	VP MICROSTRIKE 4F 320L-170 4K7 2 UNV A5	AREA/SITE LUMINAIRE, DIE-CAS ALUMINUM HOUSING MOUNTS DIRECT TO 5" ROUND POLE. 70 CRI, 4000K CCT. BLACK MATTE TEXTURED FINISH. TYPE 4F DISTRIBUTION WITH MICRO STRIKE OPTICS TO MINIMIZE GLARE.	16.76"X14.37"	LED	167W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
POLE	BEACON	RSS-B-25-50-B-2L-B3-VM2	25 FOOT POLE. 5" STRAIGHT ROUND STEEL. .188 THICKNESS. PROVIDE BASE COVER WITH POLE. COORDINATE FIXTURE MOUNTING CONFIGURATION WITH FIXTURE HEAD. BLACK FINISH TO MATCH FIXTURE HEAD. VIBRATION DAMPER.	25' - 5" ROUND	-	-	-	AS APPROVED BY ENGINEER

- GENERAL NOTES:
1. ALL FIXTURE SHALL BE U.L. OR SIMILARLY LISTED.
2. ADJUSTABLE LIGHT FIXTURES SHALL BE TARGETED AND ADJUSTED BY THE CONTRACTOR UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS FO THE ENGINEER. ALL LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT SHALL BE INCLUDED.
3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL AND NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
5. LIGHTING SUBMITTALS MUST BE ON LOCAL AUTHORIZED MANUFACTURER REPRESENTATIVE'S LETTERHEAD AND CONTAIN PROJECT NAME AND LOCATION.

LIGHTING CONTROLS SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER / PRODUCT #	VOLTAGE	APPROVED EQUALS
OS1	LINE VOLTAGE WALL SWITCH PIR OCCUPANCY SENSOR. 1000 SQUARE-FOOT DETECTION AREA, 180 DEGREE COVERAGE. 4-30 MINUTES TIMER SETTINGS. ON/OFF BUTTON. SINGLE-GANG BOX RECESSED MOUNTED INTO WALL. ABILITY TO CONTROL LOCAL EXHAUST FAN.	WALL	HUBBELL LIGHTING LHRS-1-GY	120/277V	CRESTRON, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER

DESIGNED BY : LJW

GENERAL NOTES: (Apply to all types.)
1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
2. OCCUPANCY SENSOR TIME-OFF SETTING SHALL BE 20 MINUTES MINIMUM AND 30 MINUTES MAXIMUM.
3. LIGHTING SUBMITTALS MUST BE ON LOCAL AUTHORIZED MANUFACTURER REPRESENTATIVE'S LETTERHEAD AND CONTAIN PROJECT NAME AND LOCATION.
4. WHERE APPROVED EQUAL, MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

LOAD DESCRIPTION	ELECTRICAL PANEL SPECIFICATIONS - MAIN PANEL PROJECT: STRATFORD PARK													
	LOADTY	BRKR	WIRE	CKT	PHASE			CKT	BRKR	WIRE	TY/LOAD	LOAD DESCRIPTION		
	(VA)	(AMP)	SIZE	COND	N	A	B	C	NO	(AMP)	SIZE	COND	(VA)	
EXTERIOR POLE LIGHTS	668	L	20	1	10	3/4"	1	668	2	-	2	-	O	SPD
EXTERIOR SHELTER LIGHTS	80	L	20	1	10	3/4"	3	80	4	-	-	-	-	
INTERIOR LIGHTS	54	L	20	1	12	3/4"	5	54	6	20	1	-	-	SPARE
RECEPTACLES R/R BUILDING	540	R	20	1	12	3/4"	7	540	8	20	1	-	-	SPARE
RECEPTACLES SHELTERS	360	R	20	1	10	3/4"	9	360	10	20	1	-	-	SPARE
EF-1	670	M	20	1	12	3/4"	11	670	12	20	1	-	-	SPARE
WH-1	4500	A	25	2	12	3/4"	13	2250	14	20	1	-	-	SPARE
SPACE	-	-	-	-	-	-	15	2250	16	20	1	-	-	SPARE
SPACE	-	-	-	-	-	-	17	-	18	20	1	-	-	SPARE
SPACE	-	-	-	-	-	-	19	-	20	20	1	-	-	SPARE
VOLTS-PHASE-WIRE														
120/240V-1PHASE-3W														
BUS RATING														
125A														
MAIN BREAKER RATING														
50A MCB														
MOUNTED														
SURFACE														
TOTAL LOAD BY PHASE (KVA)														
DEMAND LIGHTING														
0.80 KVA @ 100%														
DEMAND RPT. 10KVA @ 50%														
0.80														
DEMAND MOTOR														
0.67 KVA @ 100%														
0.67														
DEMAND APPLIANCES														
4.50 KVA @ 100%														
4.50														
OTHER														
KVA @ %														
DEMAND LOAD														
SCCR RATING														
65K A														
TOT. DEMAND (KVA)														
6.87														
TOT. DEMAND (AMPS)														
28.63														
TOT. CONNECTED LOAD (KVA)														
6.87														
TOT. CONNECTED LOAD (AMPS)														
28.63														
TOT. CONNECTED AMPS * 1.25														
35.79 AMPS														

NO DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

NS LW

PROJECT TEAM MEMBERS

LW

NS

SHEET NAME

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SHEET

MEP SCHEDULES

PROJECT NO.

22002

DATE

SITE PLAN SUBMISSION #3

DATE

NOV. 29, 2022

SHEET NO.

GENERAL NOTES

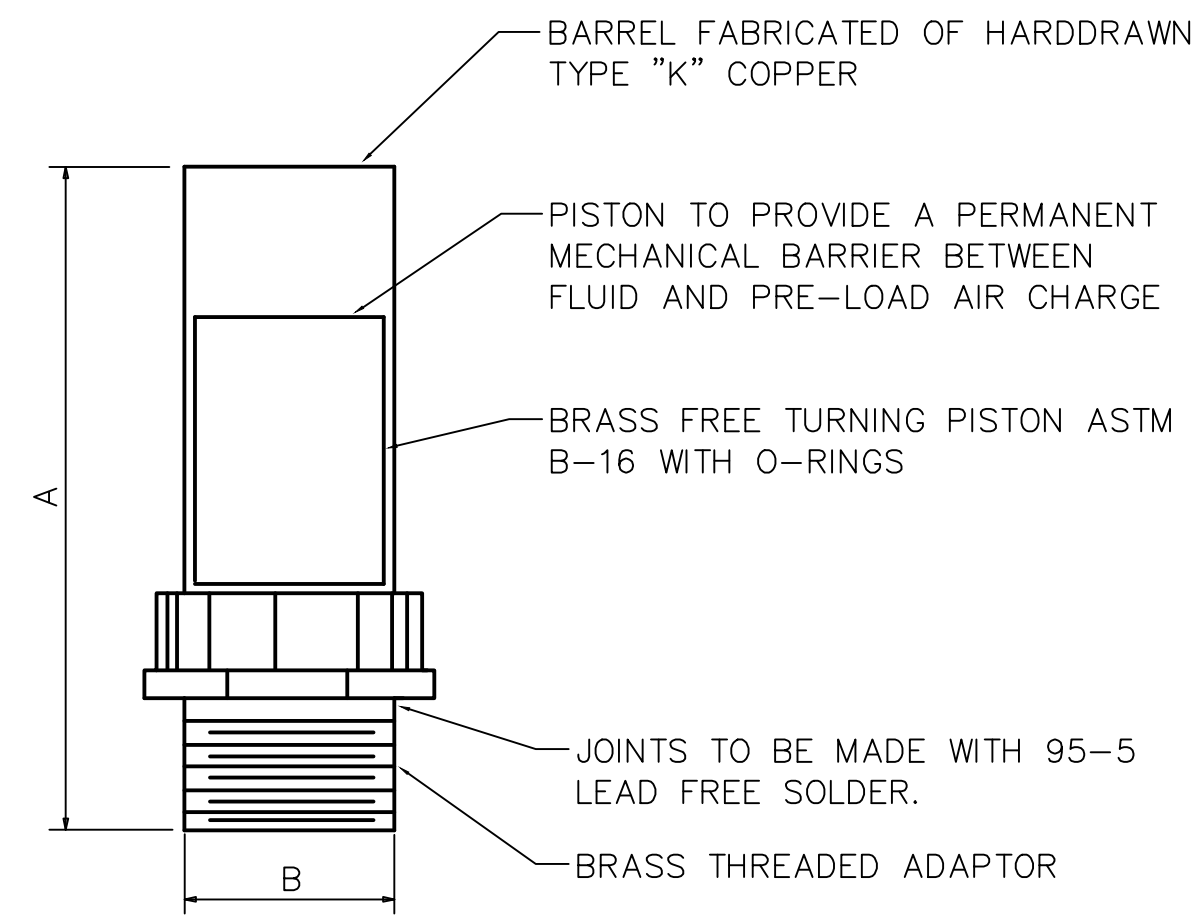
OWNER
CITY OF WAUKEE, IOWA
805 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER
FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1993

STRUCTURAL ENGINEER
KPF
604 LOCUST ST #202
DES MOINES, IA 50309
P 515.279.3900

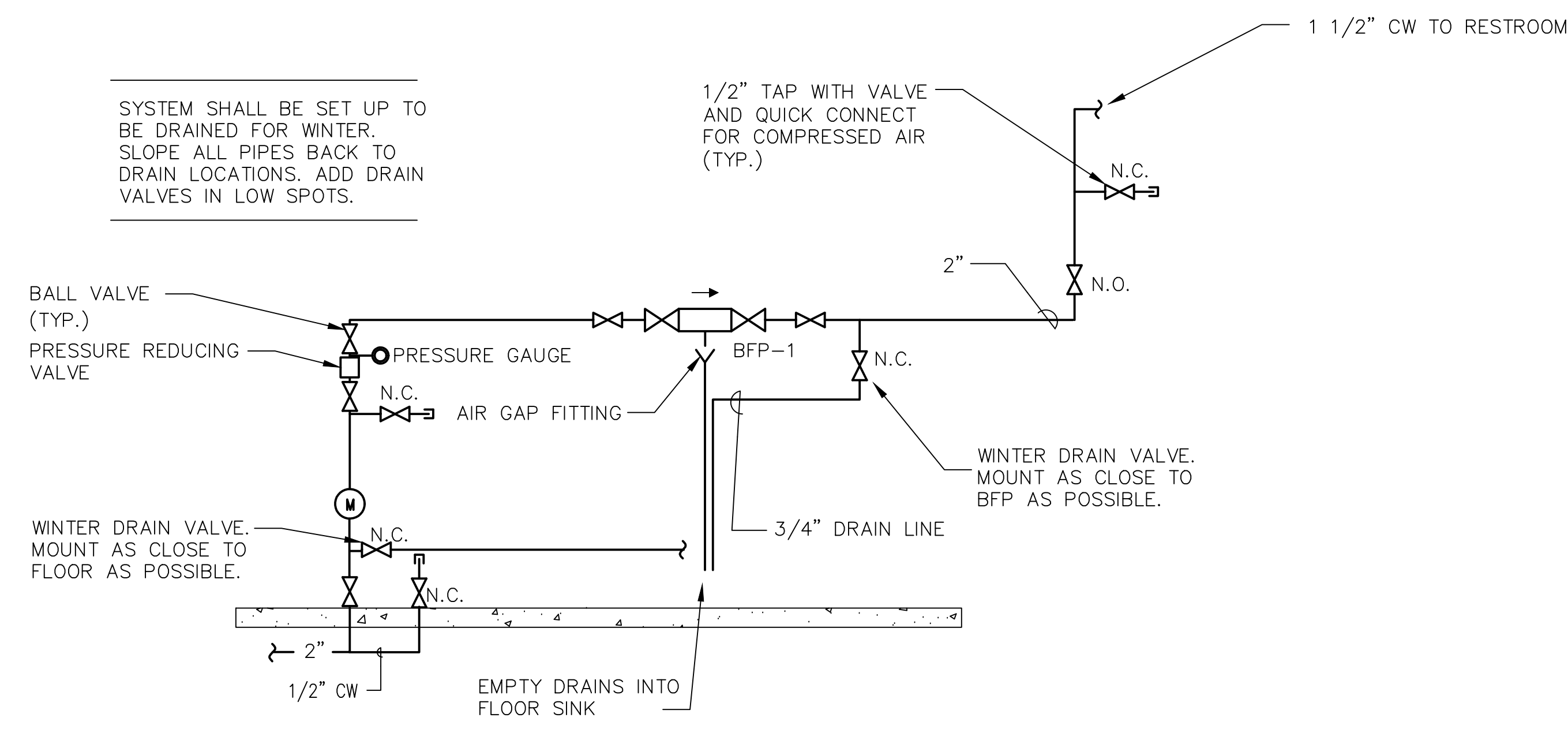
MEP CONSULTANT
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938
TITLE LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

REVISED

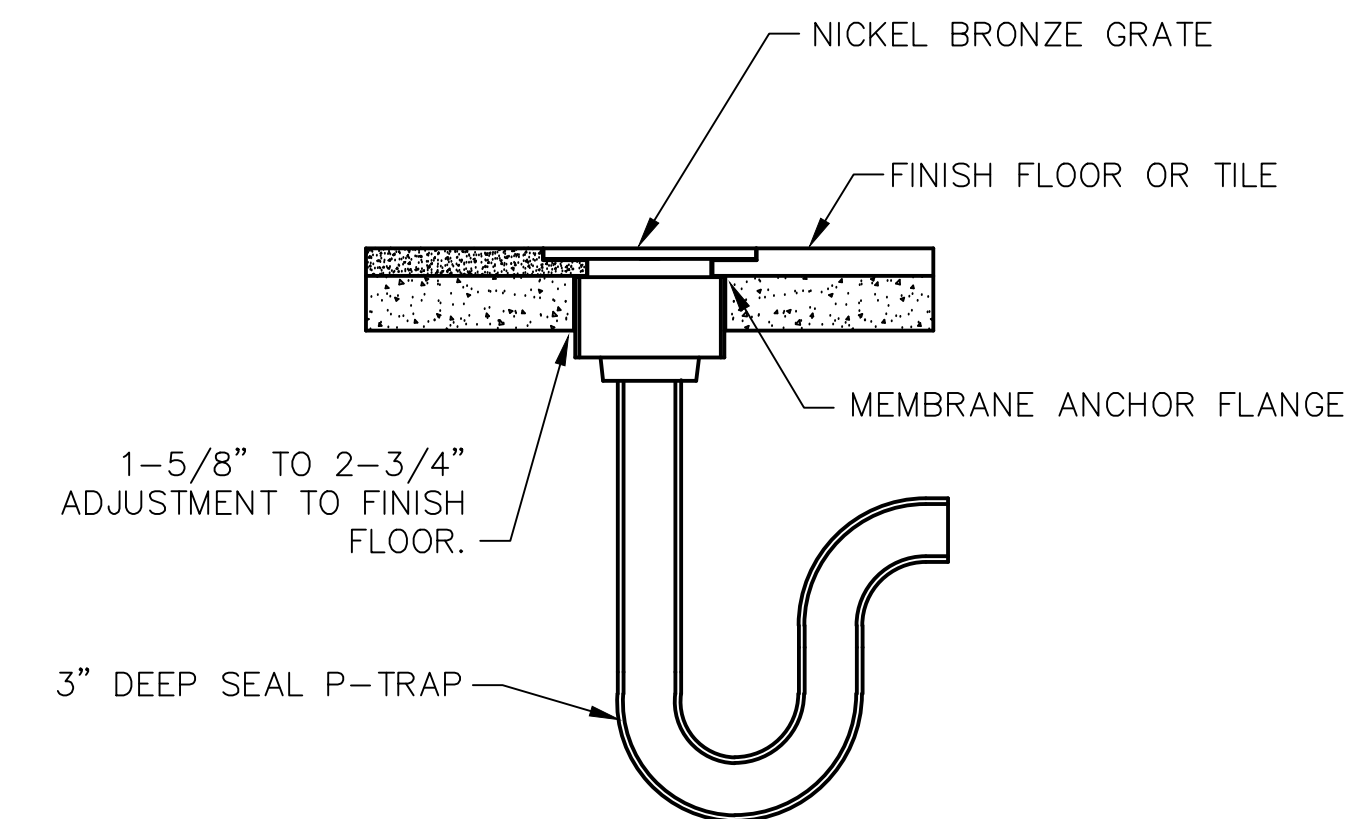


SIZE	SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

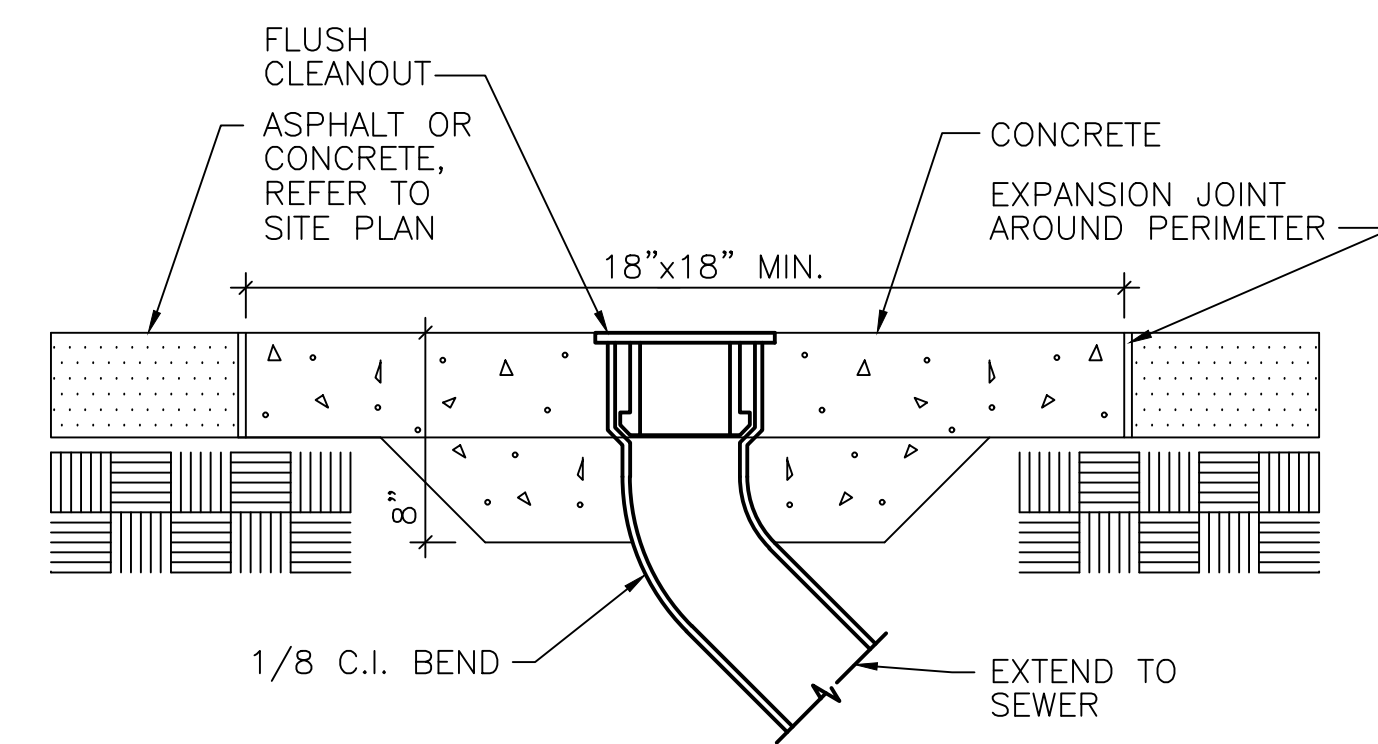
1 WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE



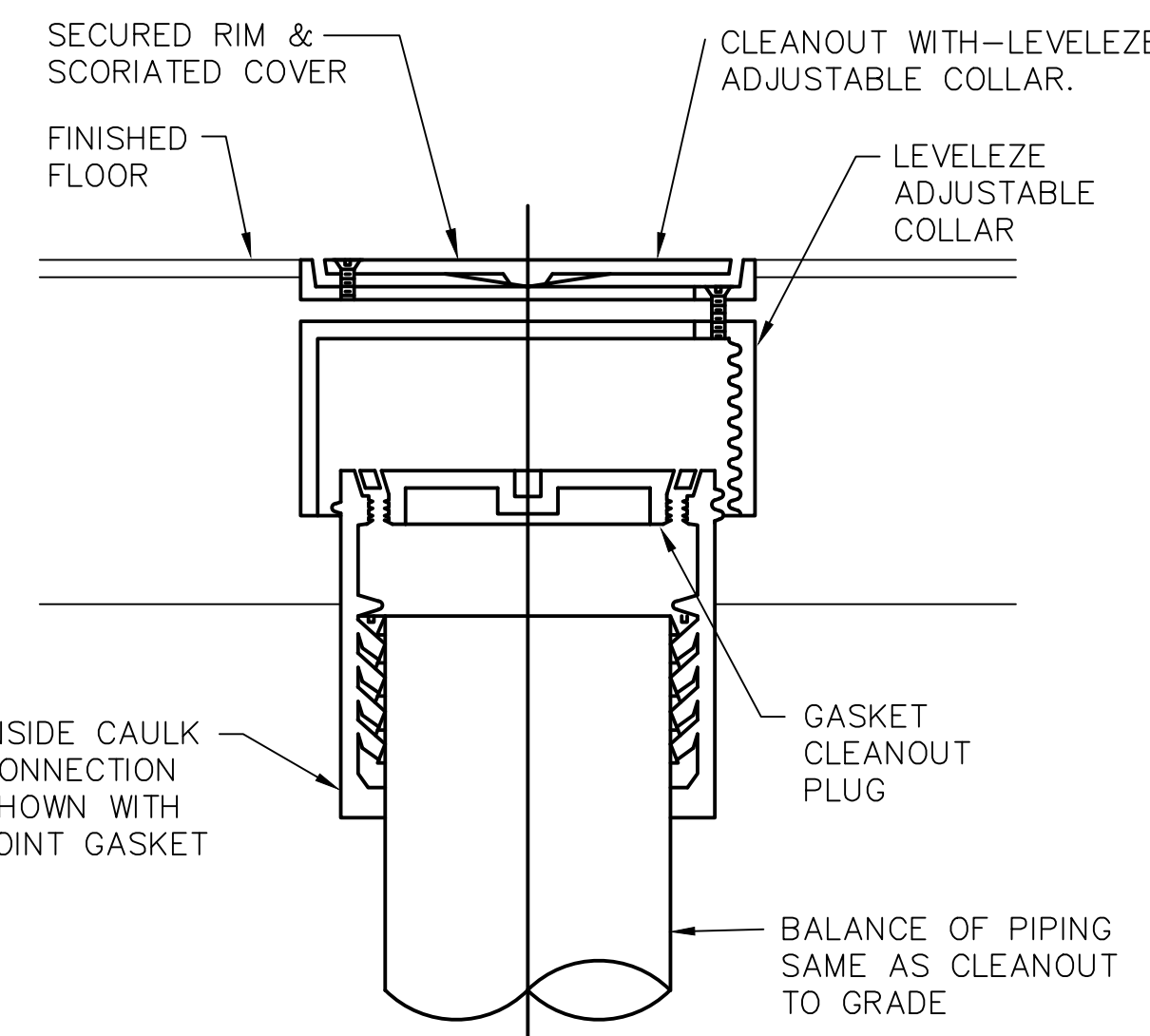
2 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



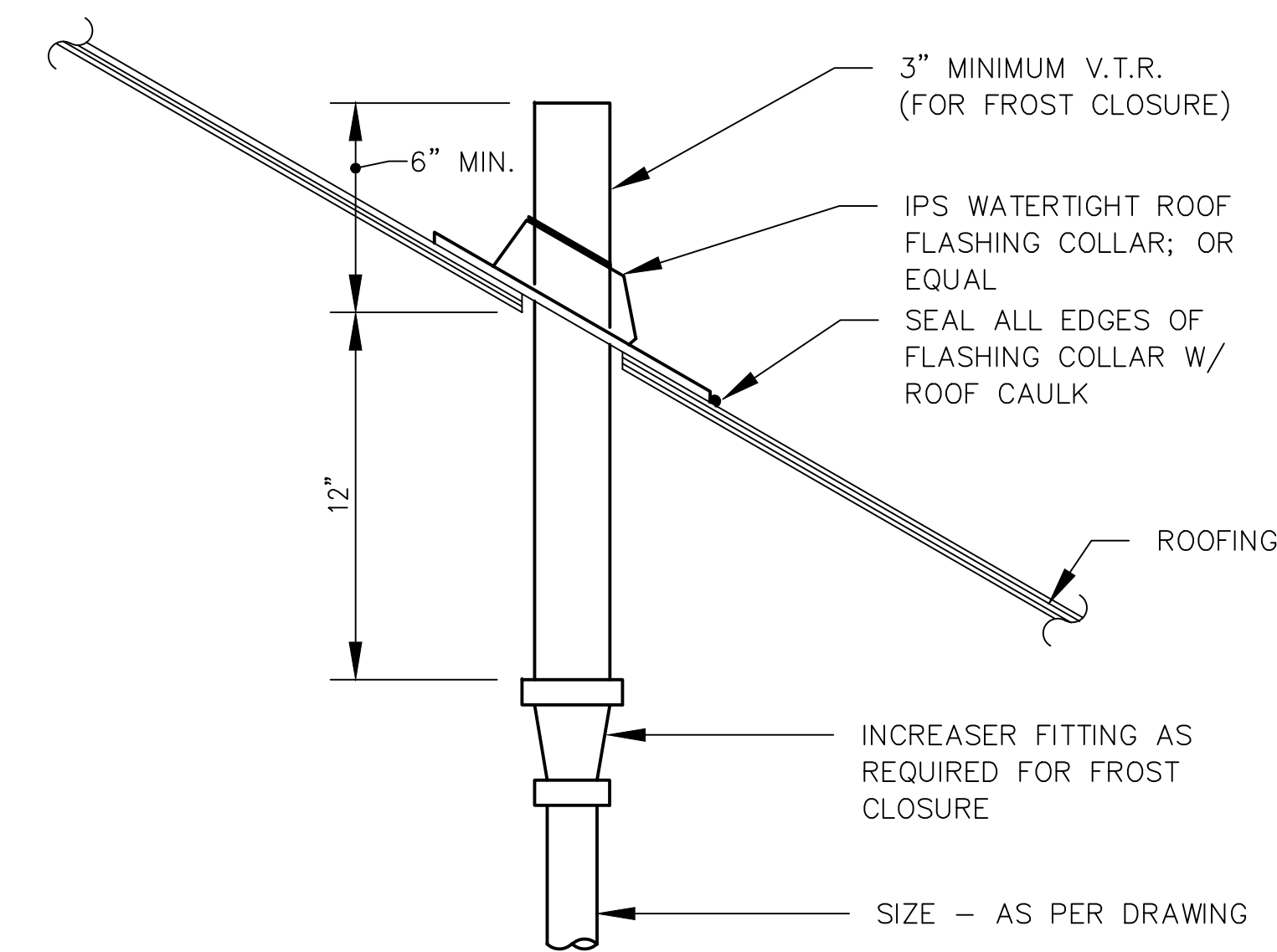
3 FLOOR DRAIN DETAIL
NOT TO SCALE



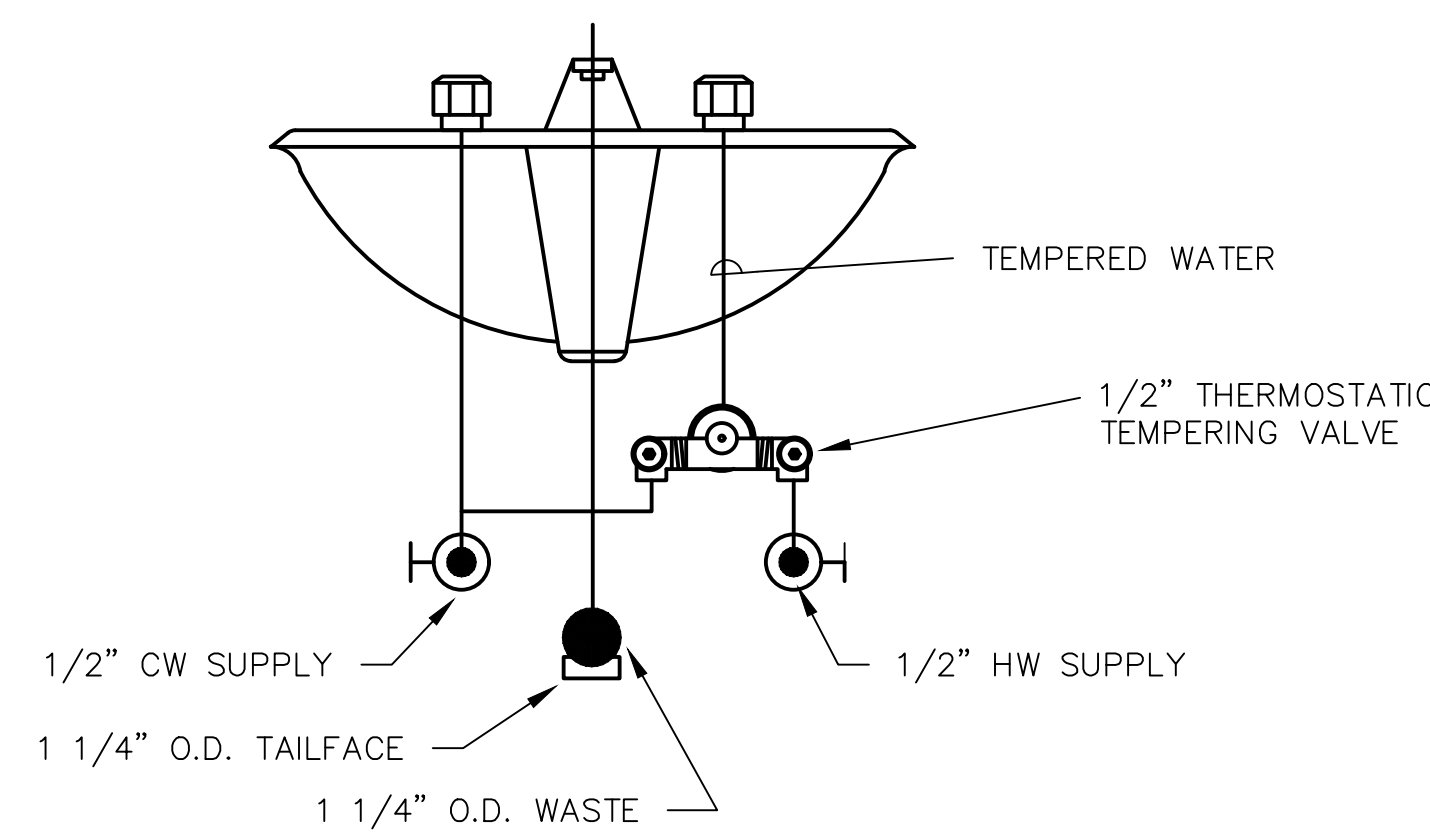
4 CLEANOUT AT GRADE
NOT TO SCALE



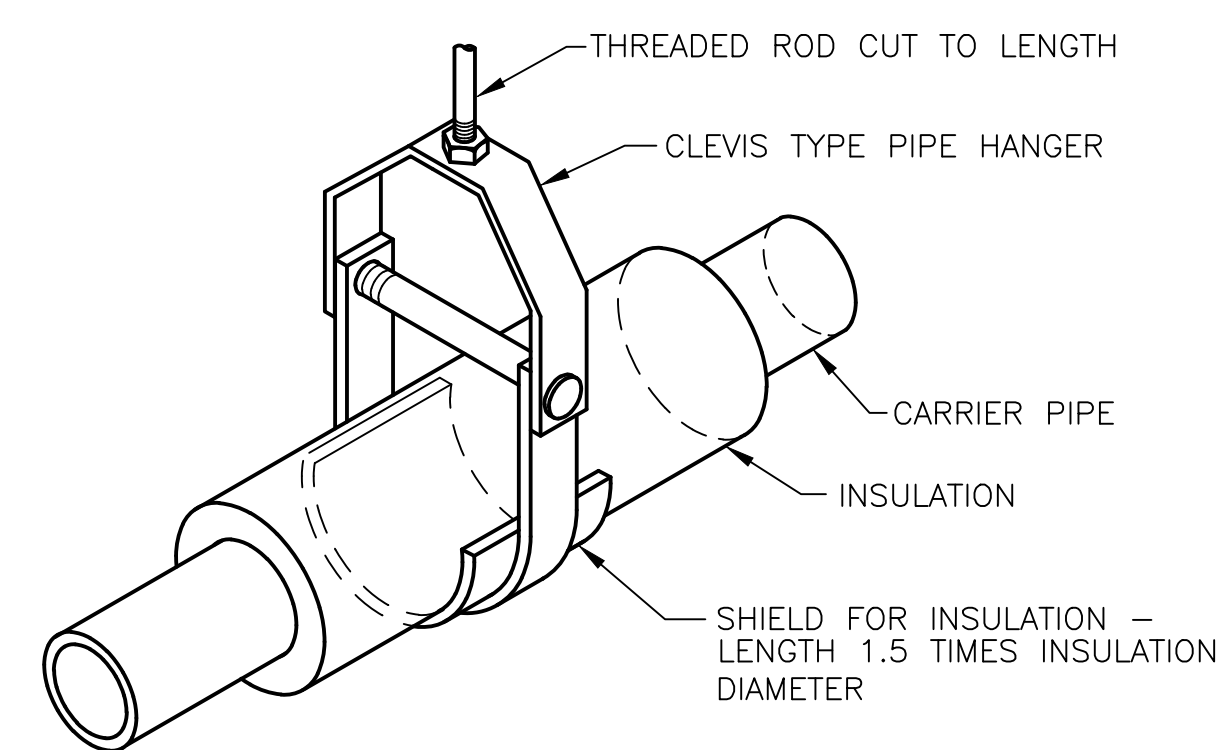
5 FLOOR CLEANOUT DETAIL
NOT TO SCALE



6 PLUMBING VENT THROUGH PITCHED ROOF DETAIL
NOT TO SCALE



7 LOCAL MIXING VALVE DETAIL
NOT TO SCALE



8 CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE
NOT TO SCALE

NO. DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

NS LW

PROJECT TEAM MEMBERS

LW

NS

SCALE/TAMP

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MEP DETAILS

PROJECT NO.

Z2002

DATE

SITE PLAN SUBMISSION #3

DATE

No. 29, 2022

SHEET NO.

CONSULTANTS

OWNER
CITY OF WAUKEE, IOWA
800 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

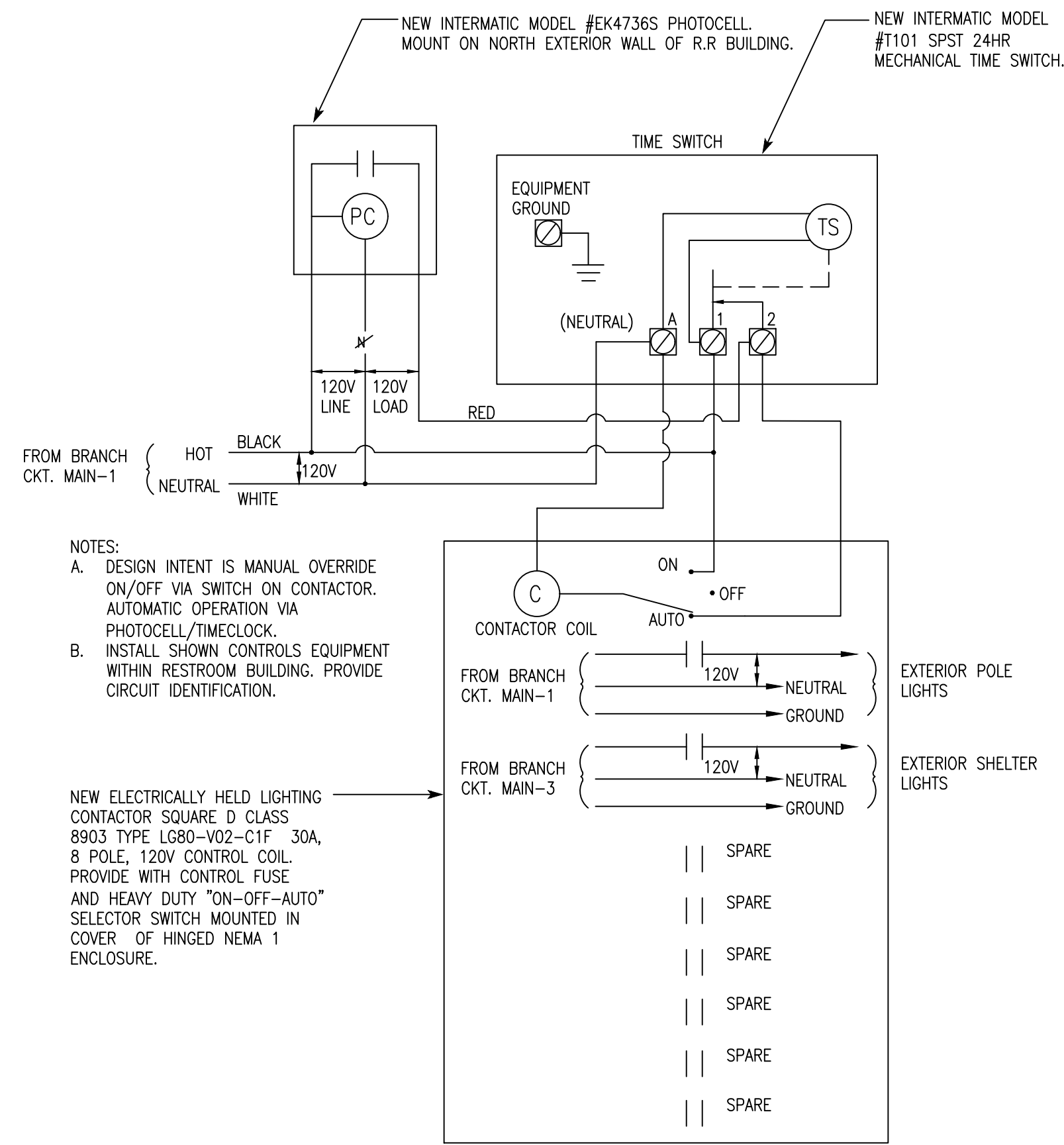
CIVIL ENGINEER
FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1393

STRUCTURAL ENGINEER
KOPFF
604 LOCUST ST #202
DES MOINES, IA 50309
P 515.279.3900

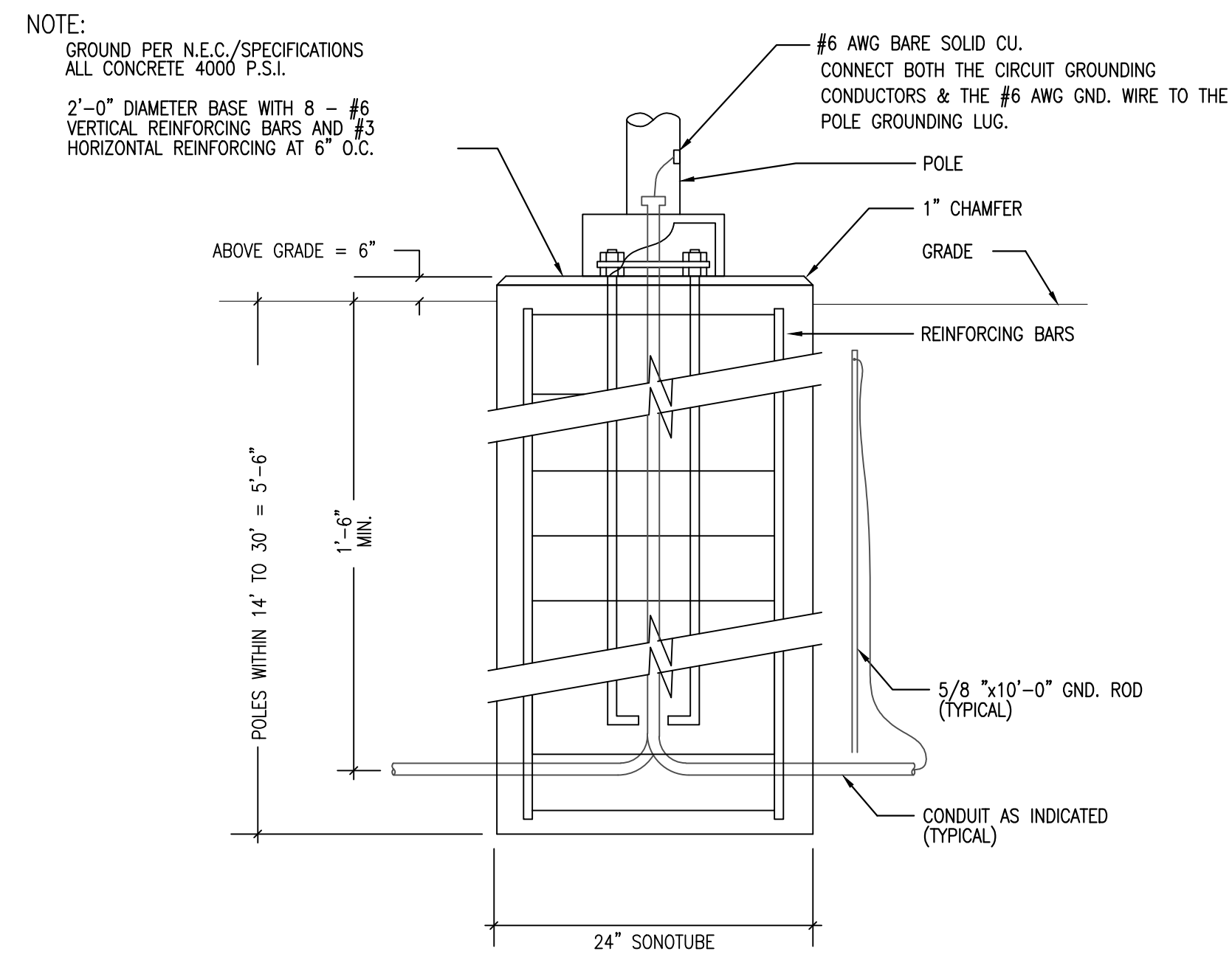
MEP CONSULTANT
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

TITLE LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

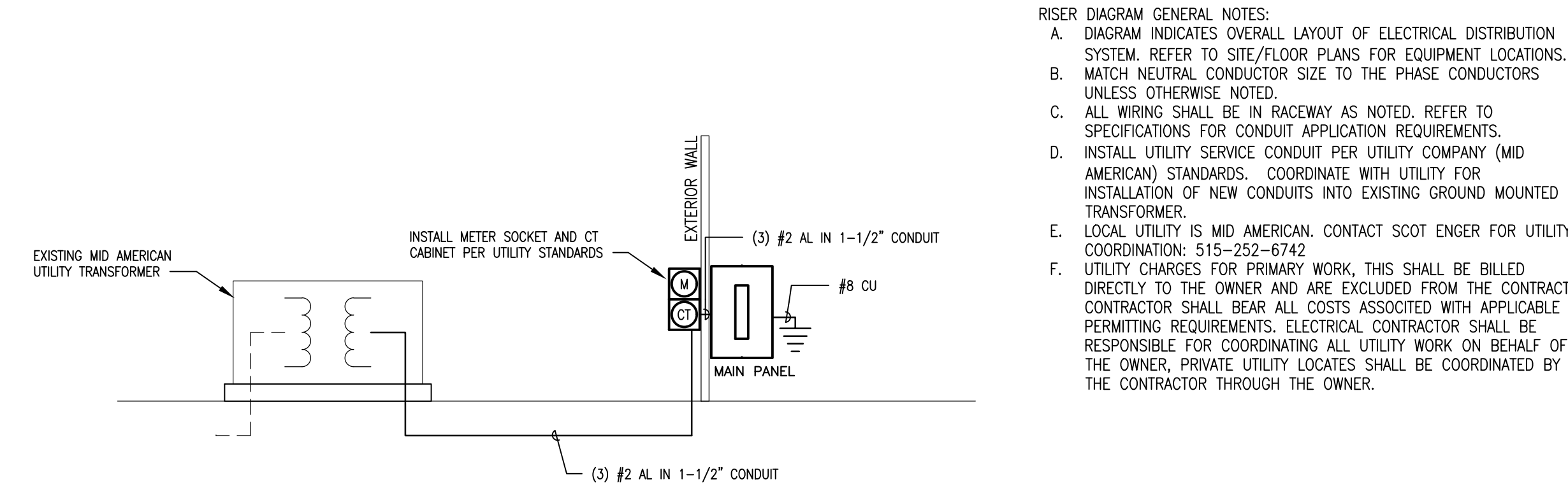
REVISED



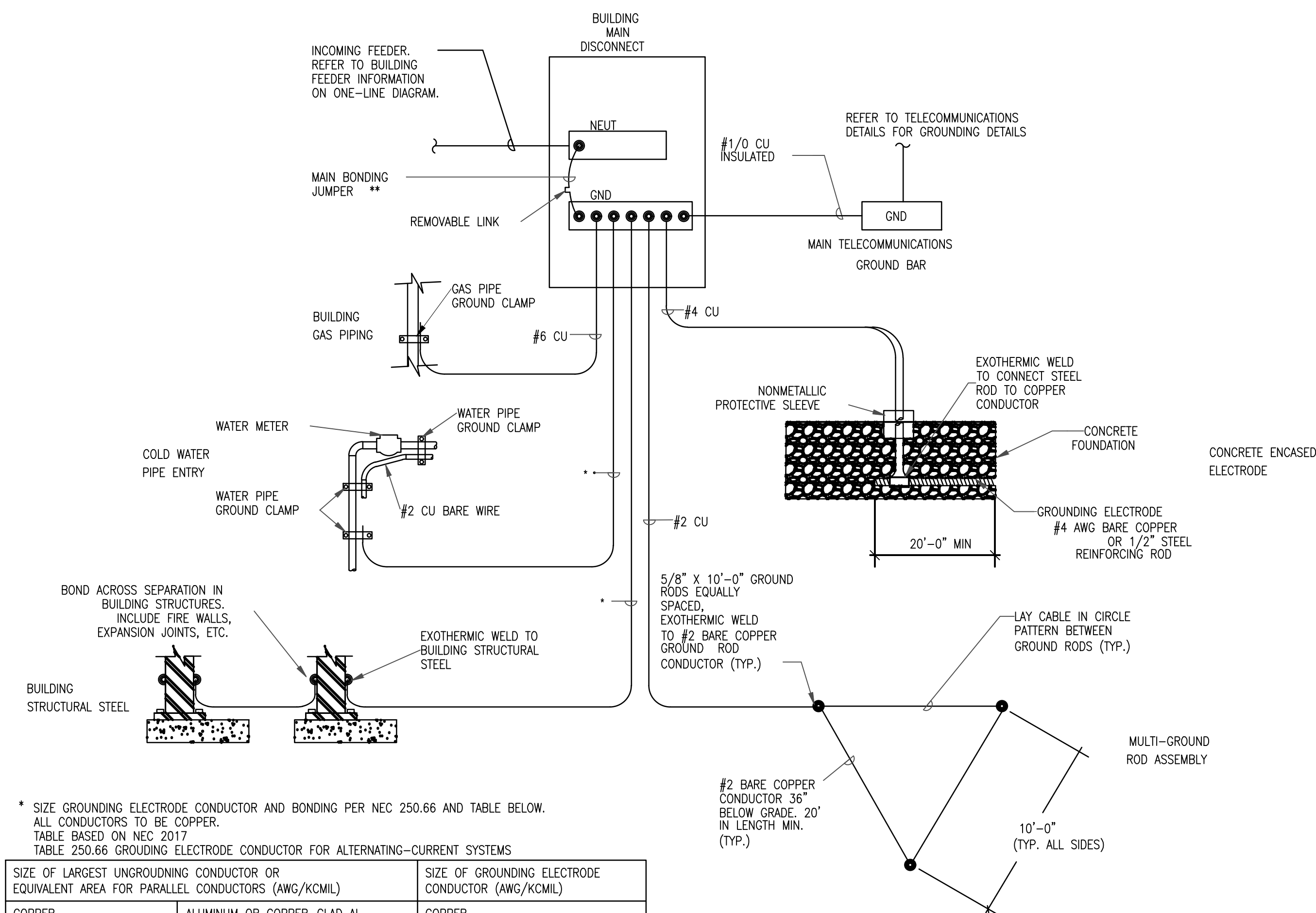
1 LIGHTING CONTROL STATION
SCALE: NTS



3 LIGHT POLE BASE DETAIL
SCALE: NTS



2 ONE-LINE DIAGRAM
SCALE: NTS



4 GROUNDING ELECTRODE SYSTEM
SCALE: NTS

NO DATE REVISION

PRINCIPAL IN CHARGE PROJECT MANAGER

NS LW

PROJECT TEAM MEMBERS

LW

NS

NS

NS

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DATE

MEP DETAILS

PROJECT NO.

22002

DATE

SITE PLAN SUBMISSION #3

DATE

NOV. 29, 2022

SHEET NO.

ME202