

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

CENTRAL PARK (SOUTH BREARLY STREET-SOUTH BALDWIN STREET)

PHASE 1A
STATE PROJECT NO. 5992-01-97
(FEDERALLY FUNDED PROJECT)

INDEX OF SHEETS

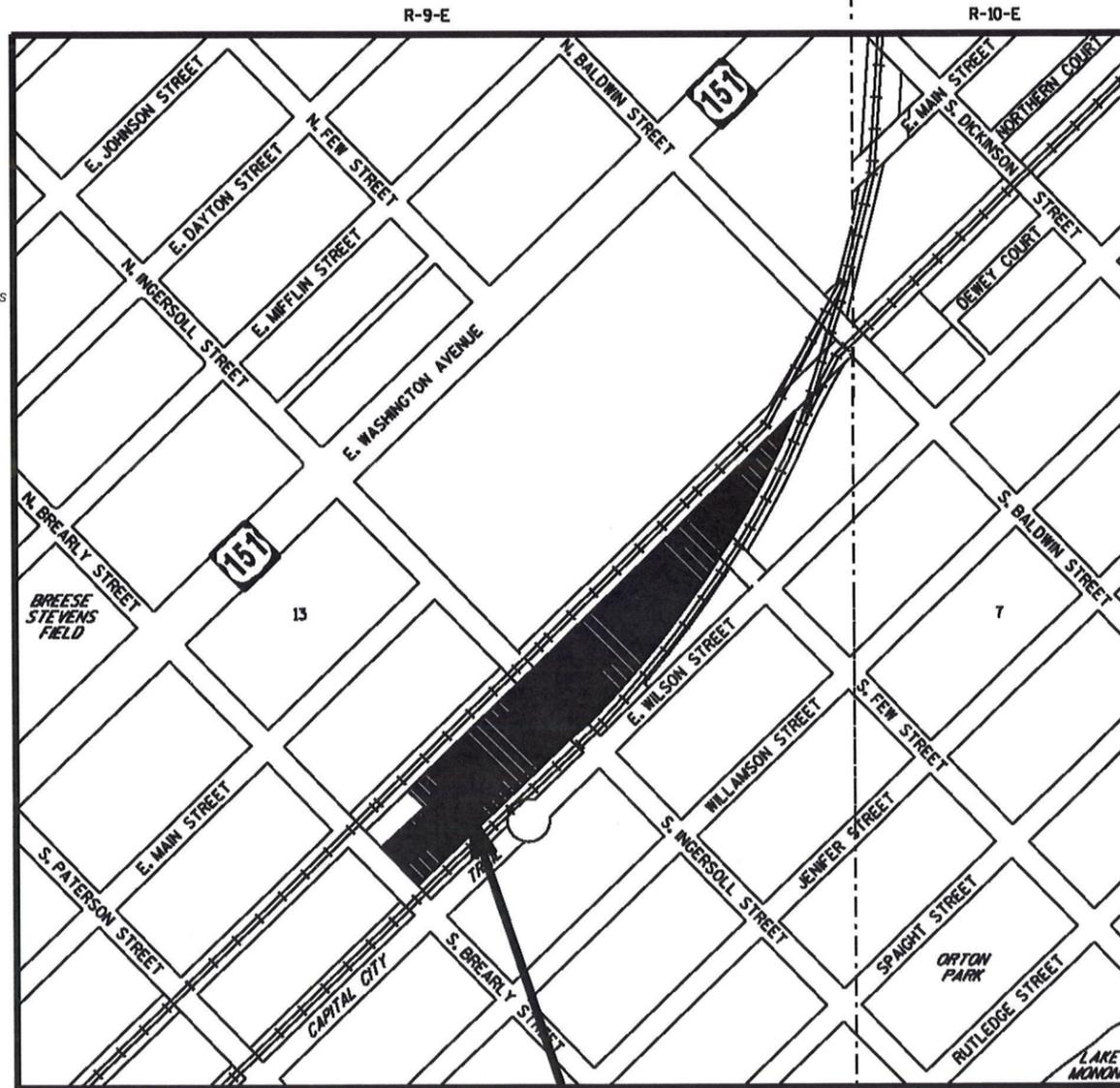
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| |
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CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

| | |
|---------------------------------------------------|---------|
| GAS | — G — |
| STORM SEWER | — ST — |
| SANITARY SEWER | — SAN — |
| WATER | — W — |
| OVERHEAD ELECTRIC | — OH — |
| POWER POLE | □ |
| ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD | ■ |
| COMBUSTIBLE FLUIDS | ☀ |



**CONSTRUCTION
PROJECT LOCATION**

STREET
DESIGNED BY:



PUBLIC IMPROVEMENT PROJECT APPROVED

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 1/22/13
City Engineer Date

STRUCTURE
DESIGNED BY:



PLUMBING/HVAC
DESIGNED BY:



ELECTRICAL
DESIGNED BY:



ARCHITECTURE
DESIGNED BY:



STORM SEWERS/SANITARY/WATERMAIN
DESIGNED BY:



LANDSCAPING
DESIGNED BY:



RAILROAD CONTACT

WISCONSIN SOUTHERN RAILROAD
BEN MEIGHAN
PHONE: 608-243-9129 EXT. 4201
EMAIL: bmeighan@wsorrrailroad.com

UTILITY CONTACTS

MG&E-ELECTRIC
CHRIS ERICKSON
P.O. BOX 1231
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EMAIL: cerickson@mge.com

AMERICAN TRANSMISSION COMPANY
LORIKOLBOW
2 FEN OAK COURT
MADISON, WI 53718
PHONE: 608-877-7158
EMAIL: lkolbow@atcllc.com

WINDSTREAM
JIM KOSTUCH
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
PHONE: 262-792-7938
EMAIL: james.kostuch@windstream.com

MADISON METROPOLITAN SEWERAGE DISTRICT
ERIC HJELLEN
1610 MOORLAND ROAD
MADISON, WI 53713
PHONE: 608-222-1201 EXT. 348
CELL: 608-347-3613
EMAIL: erich@madsewer.org

LEVEL 3 COMMUNICATIONS
MARK DECHANT
411 EAST WISCONSIN AVENUE
MILWAUKEE, WI 53202
PHONE: 414-426-1857
EMAIL: mark.dechant@level3.com

MG&E-GAS
DON MCCLAIN
P.O. BOX 1231
MADISON, WI 53701
PHONE: 608-252-5618
CELL: 608-444-9628
EMAIL: dcmlain@mge.com

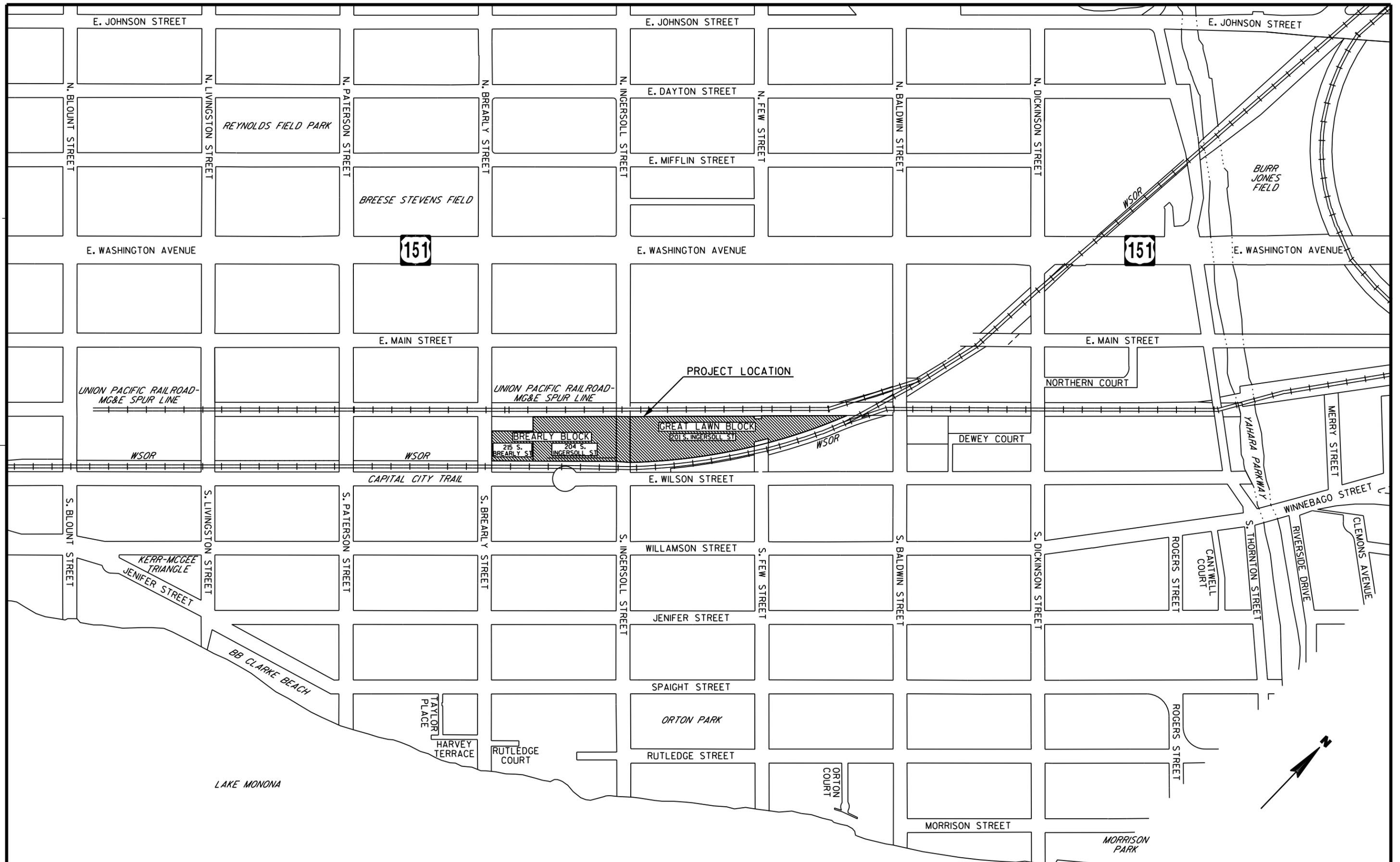
AT&T
RANDY UDELL
316 E. WASHINGTON AVE. RM 607
MADISON, WI 53703
PHONE: 608-252-4606
CELL: 608-332-6261
EMAIL: ru2372@att.com

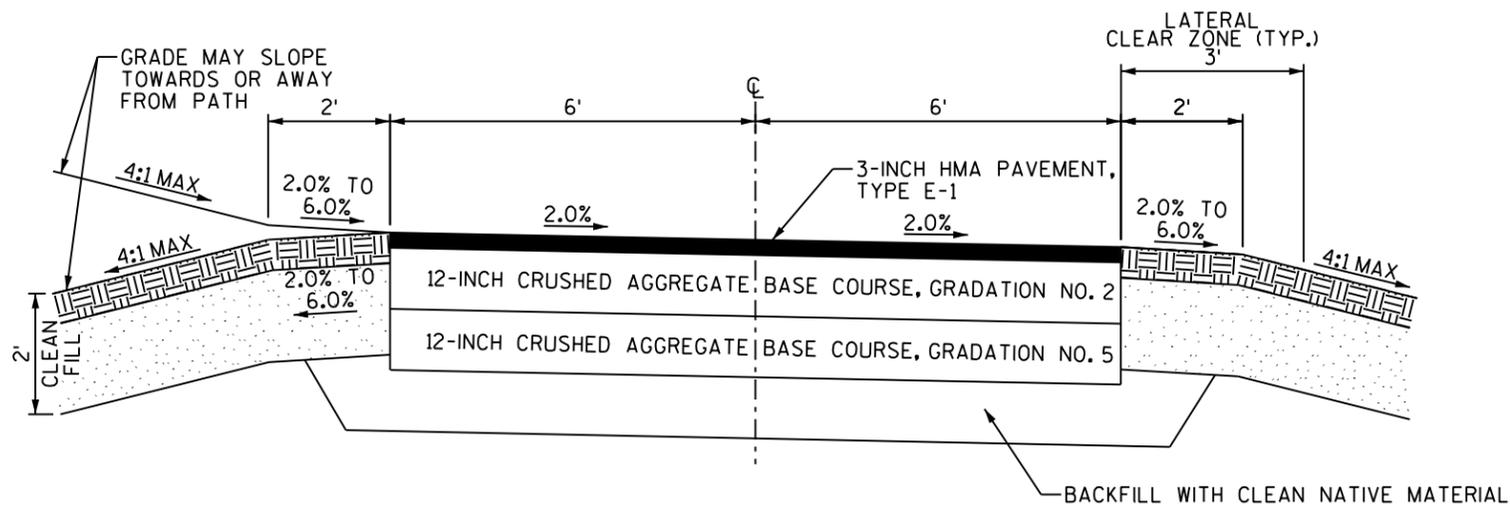
MCI COMMUNICATIONS
STEVE BONCZKOWSKI
PHONE: 630-327-6959
EMAIL: Stephen.bonczkowski@verizon.com

WISCONSIN DOA
LISA GILBERT
EMAIL: lisa.gilbert@wisconsin.gov

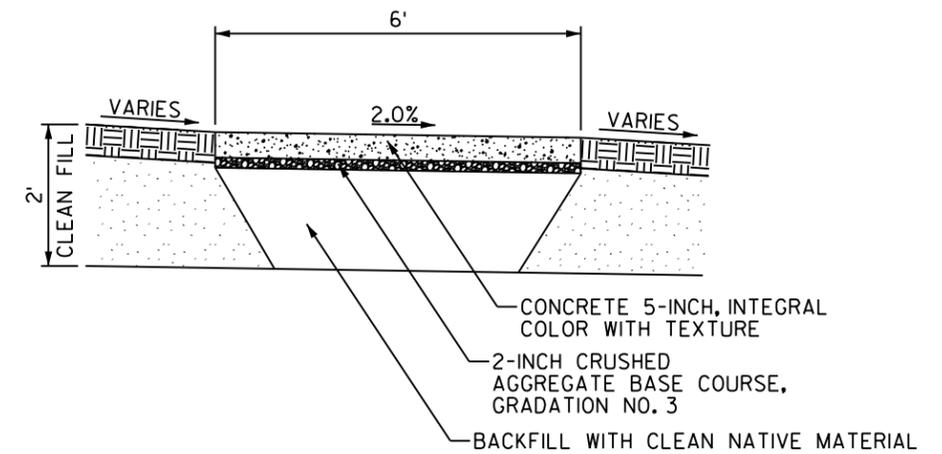


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www.DiggersHotline.com

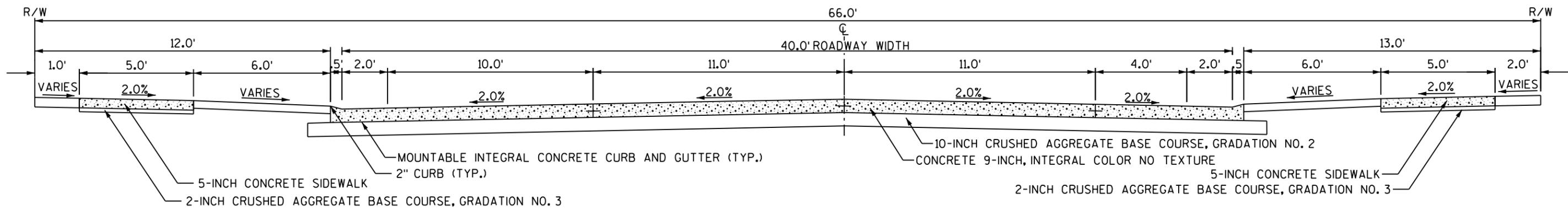




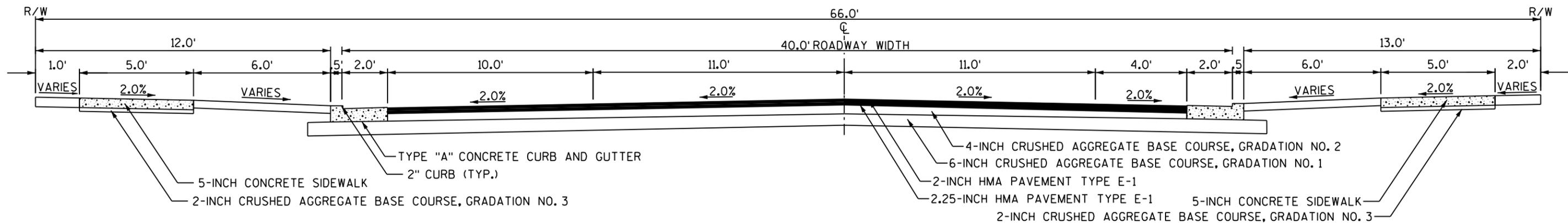
BIKE PATH TYPICAL SECTION
BREARLY BLOCK AND GREAT LAWN



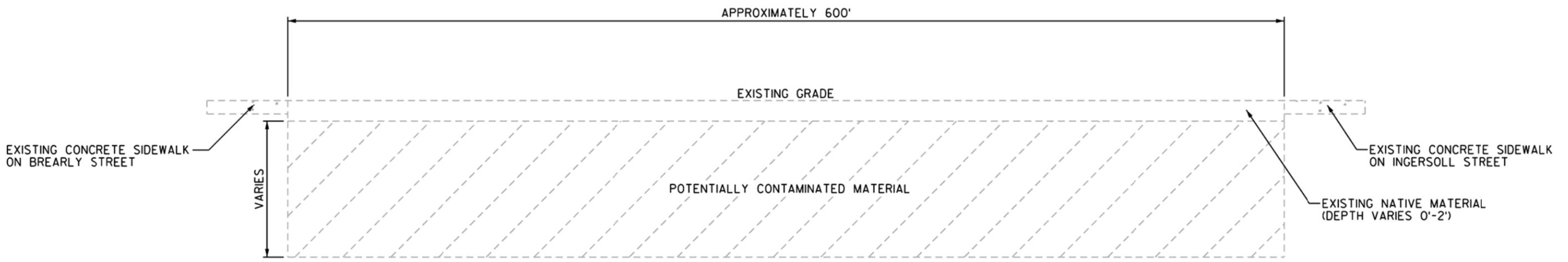
STROLLING PATH TYPICAL SECTION
BREARLY BLOCK



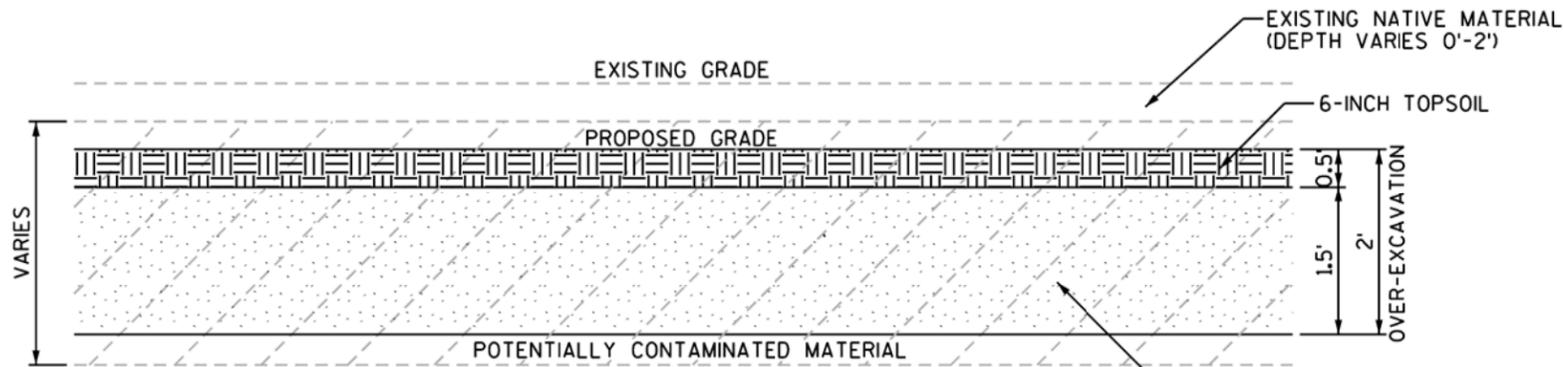
INGERSOLL STREET TABLETOP COLORED CONCRETE PAVEMENT TYPICAL SECTION
STA 202+37.52 TO STA 203+97.32



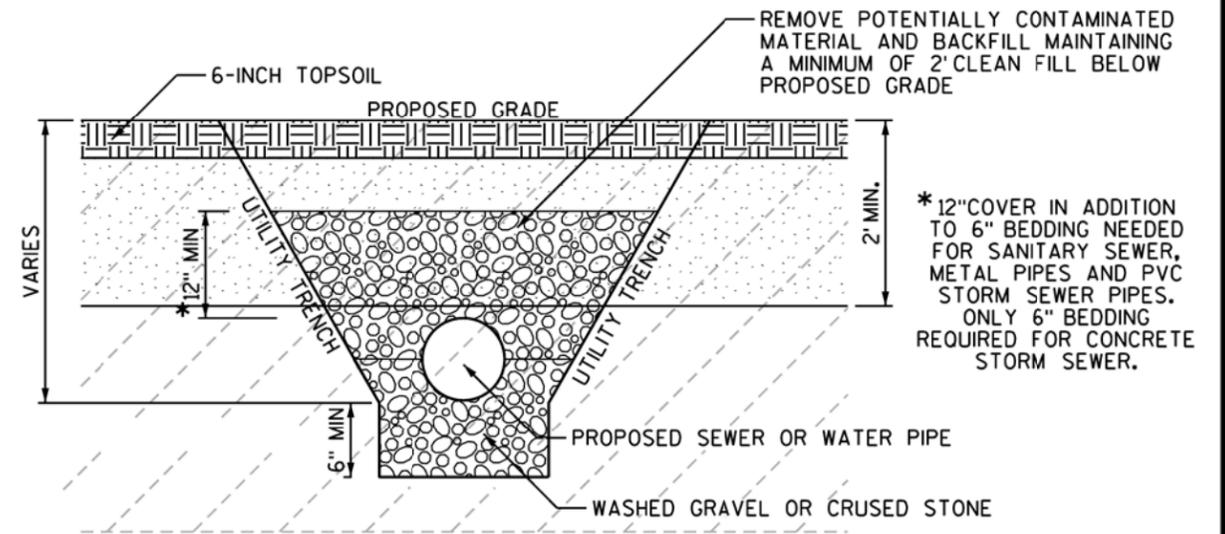
INGERSOLL STREET TABLETOP TYPICAL SECTION
(ADJACENT TO RAILROAD TRACKS)
STA 201+82.33 TO STA 202+07.27
STA 204+17.37 TO STA 204+39.27



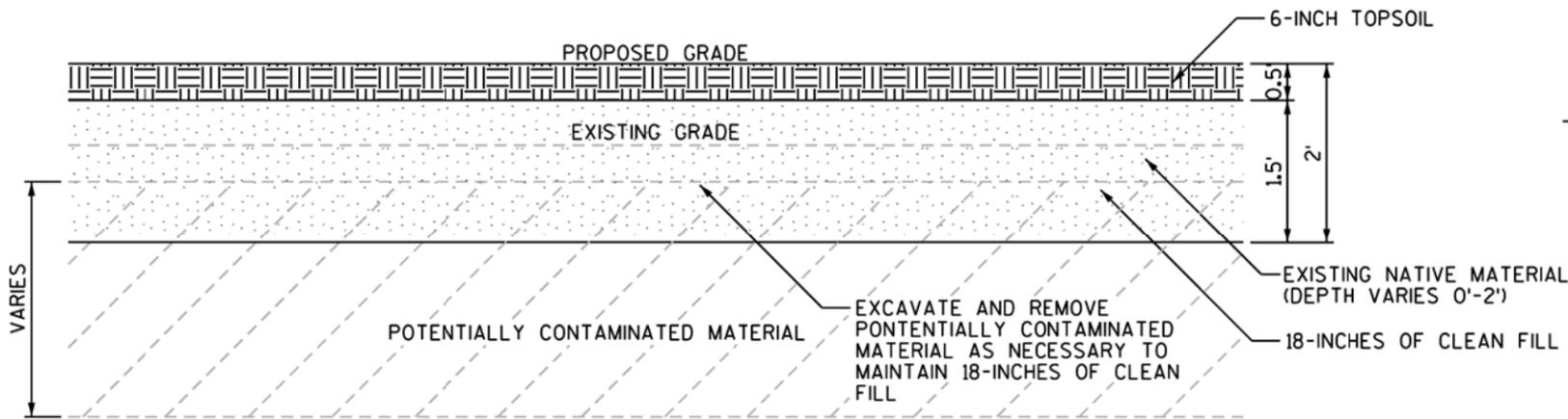
EXISTING BREARLY BLOCK TYPICAL SECTION
SEE SECTION A-A - PROJECT DETAIL OVERVIEW



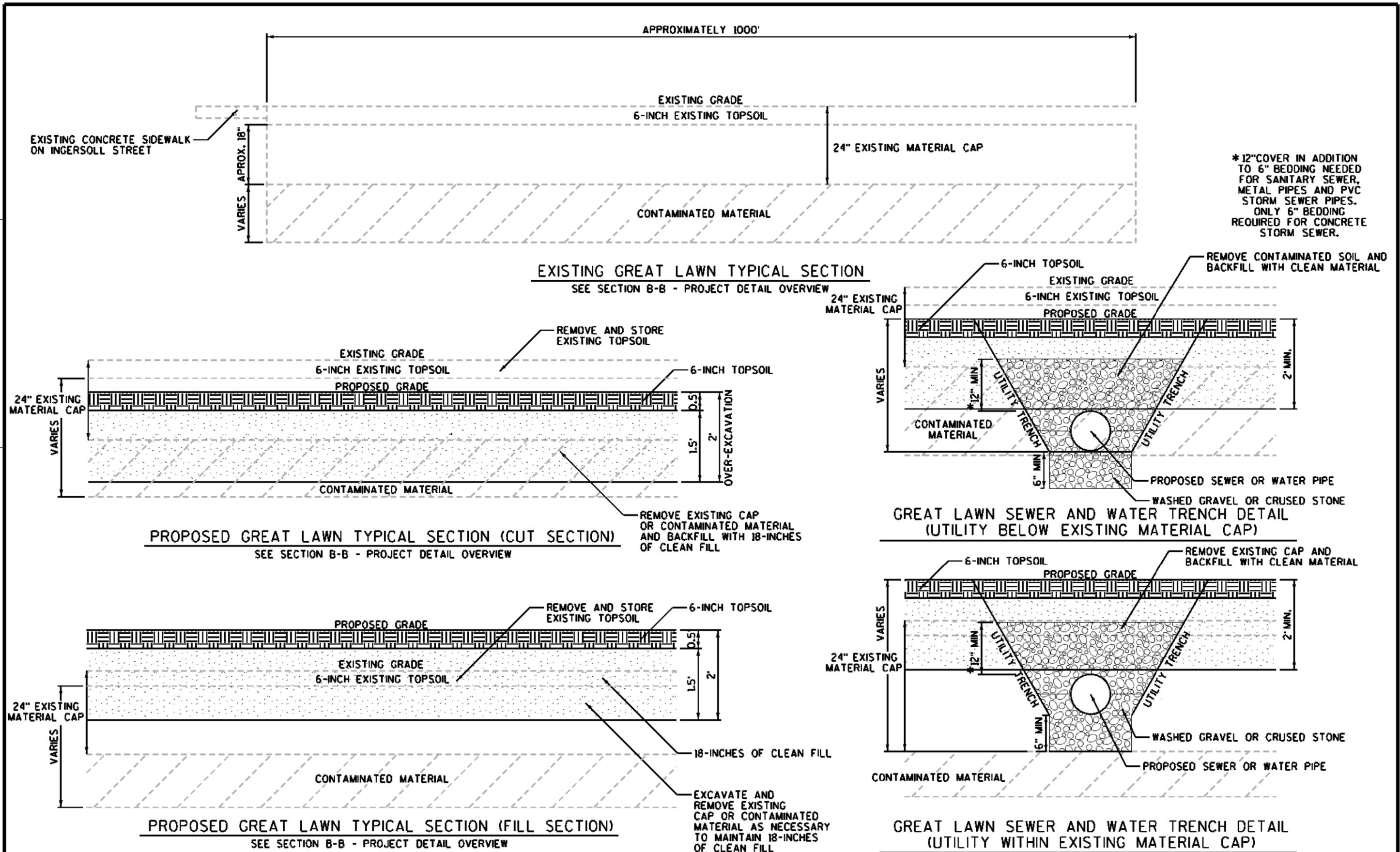
PROPOSED BREARLY BLOCK TYPICAL SECTION (CUT SECTION)
SEE SECTION A-A - PROJECT DETAIL OVERVIEW

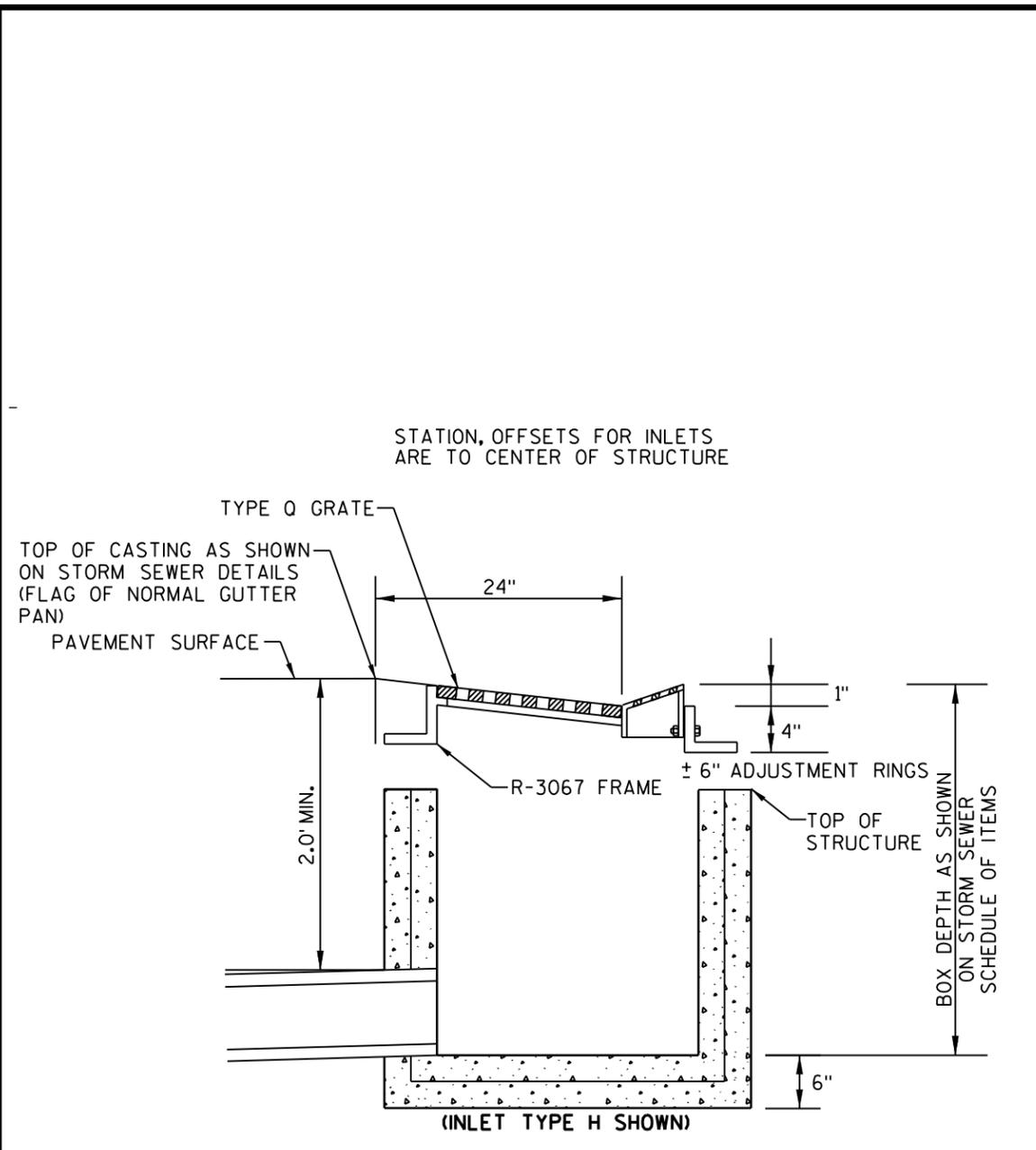


BREARLY BLOCK SEWER AND WATER TRENCH DETAIL

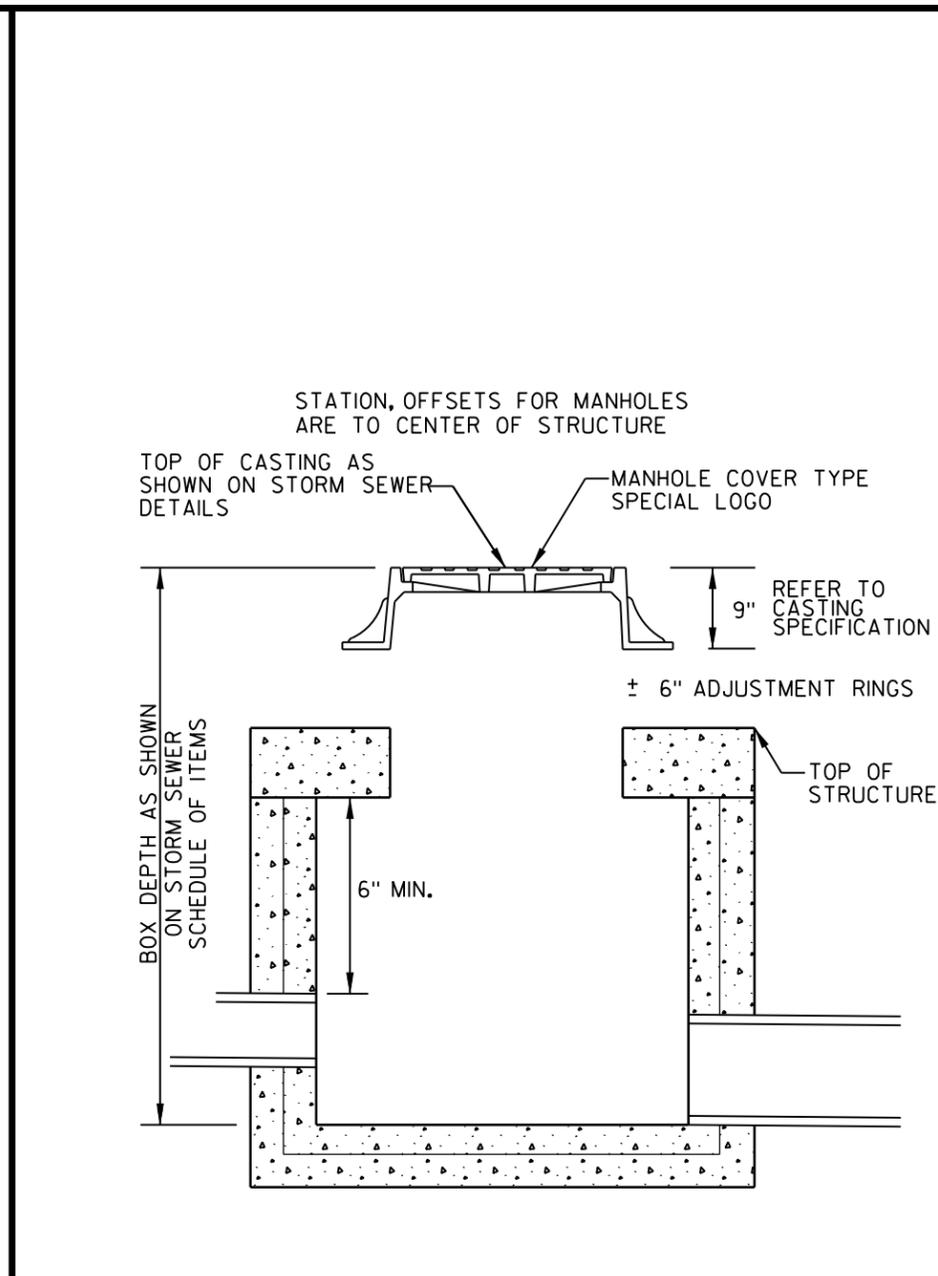


PROPOSED BREARLY BLOCK TYPICAL SECTION (FILL SECTION)
SEE SECTION A-A - PROJECT DETAIL OVERVIEW

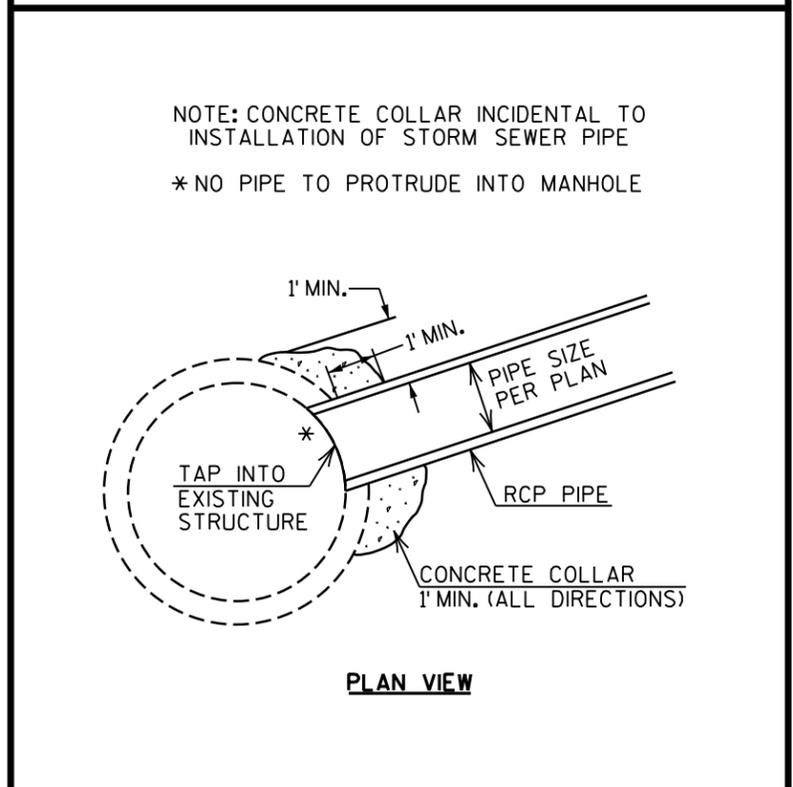
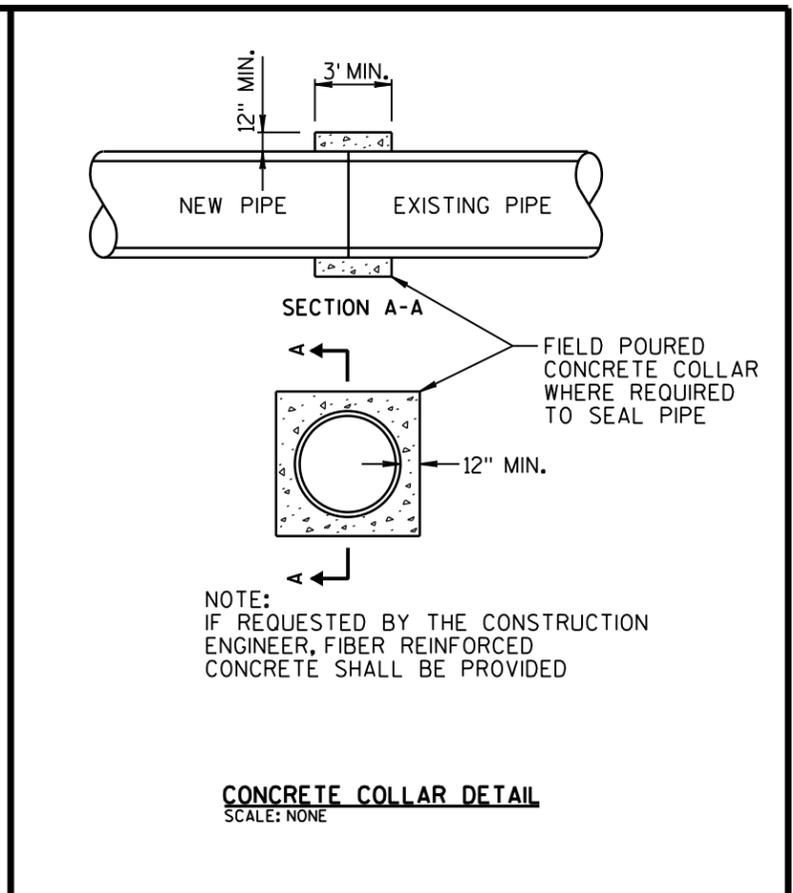




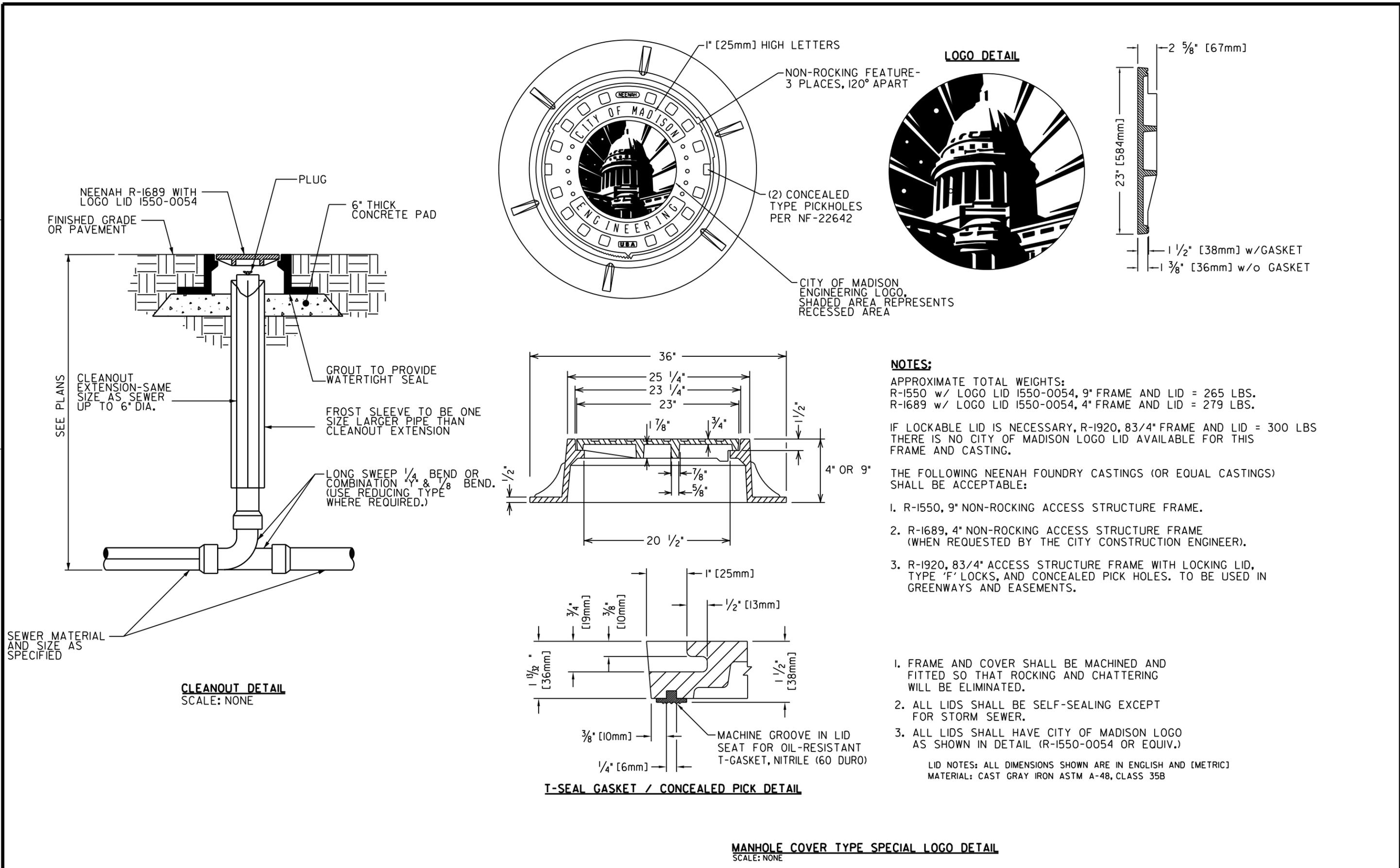
DETAIL FOR COMPUTING INLET ELEVATIONS ON INGERSOLL STREET
SCALE: NONE



DETAIL FOR COMPUTING MANHOLE ELEVATIONS
SCALE: NONE



STORM STRUCTURE CONNECTION CONCRETE COLLAR DETAIL
SCALE: NONE



NOTES:

APPROXIMATE TOTAL WEIGHTS:
 R-1550 w/ LOGO LID 1550-0054, 9" FRAME AND LID = 265 LBS.
 R-1689 w/ LOGO LID 1550-0054, 4" FRAME AND LID = 279 LBS.

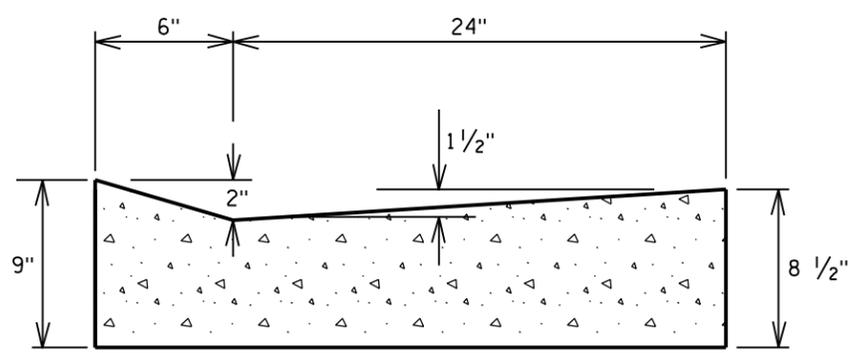
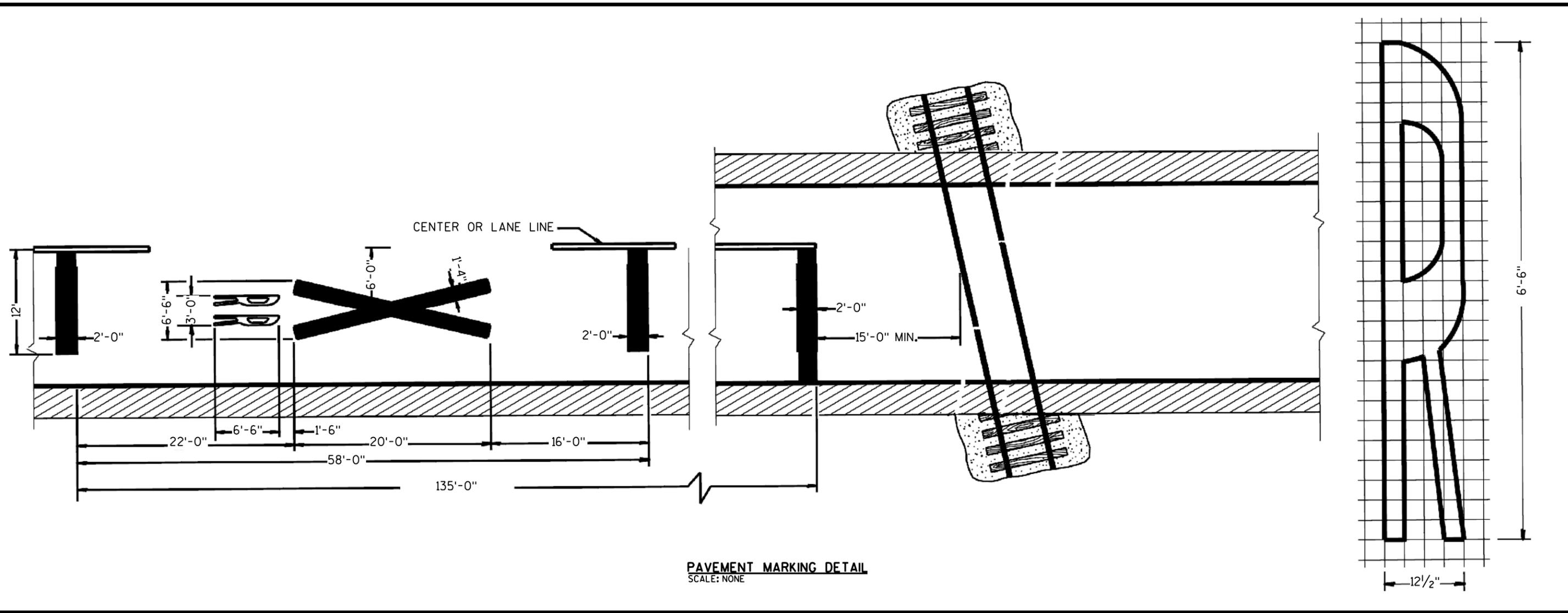
IF LOCKABLE LID IS NECESSARY, R-1920, 8 3/4" FRAME AND LID = 300 LBS
 THERE IS NO CITY OF MADISON LOGO LID AVAILABLE FOR THIS
 FRAME AND CASTING.

THE FOLLOWING NEENAH FOUNDRY CASTINGS (OR EQUAL CASTINGS)
 SHALL BE ACCEPTABLE:

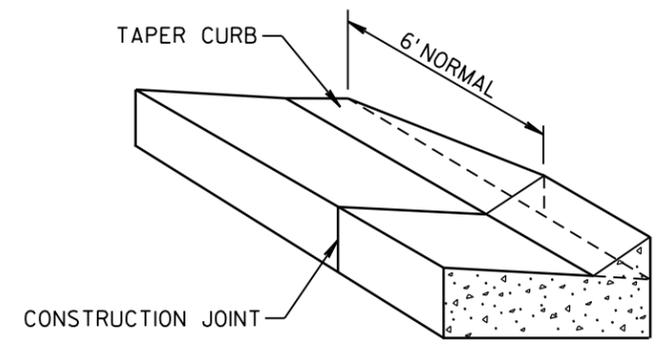
1. R-1550, 9" NON-ROCKING ACCESS STRUCTURE FRAME.
2. R-1689, 4" NON-ROCKING ACCESS STRUCTURE FRAME
 (WHEN REQUESTED BY THE CITY CONSTRUCTION ENGINEER).
3. R-1920, 8 3/4" ACCESS STRUCTURE FRAME WITH LOCKING LID,
 TYPE 'F' LOCKS, AND CONCEALED PICK HOLES. TO BE USED IN
 GREENWAYS AND EASEMENTS.

1. FRAME AND COVER SHALL BE MACHINED AND
 FITTED SO THAT ROCKING AND CHATTERING
 WILL BE ELIMINATED.
2. ALL LIDS SHALL BE SELF-SEALING EXCEPT
 FOR STORM SEWER.
3. ALL LIDS SHALL HAVE CITY OF MADISON LOGO
 AS SHOWN IN DETAIL (R-1550-0054 OR EQUIV.)

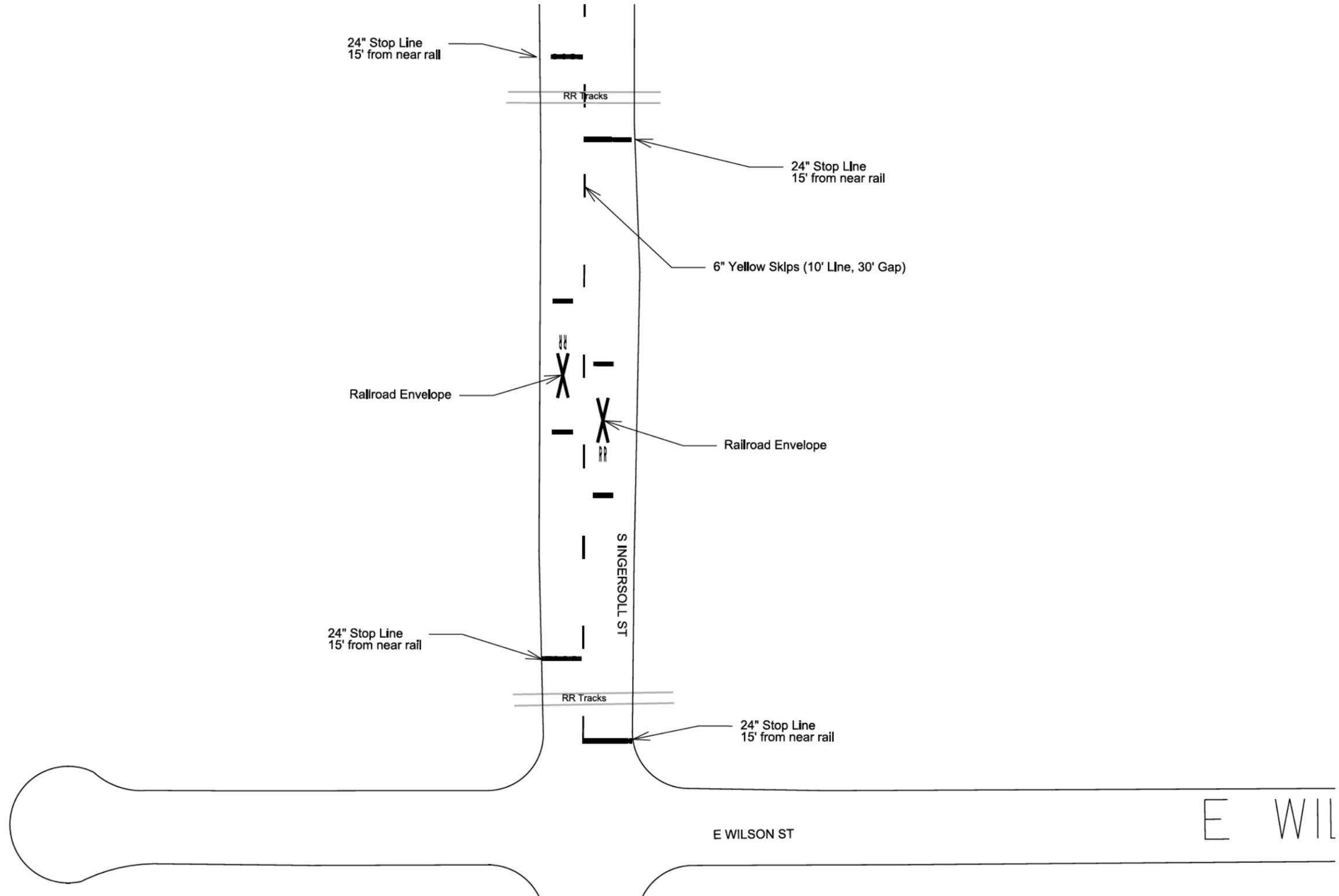
LID NOTES: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
 MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B



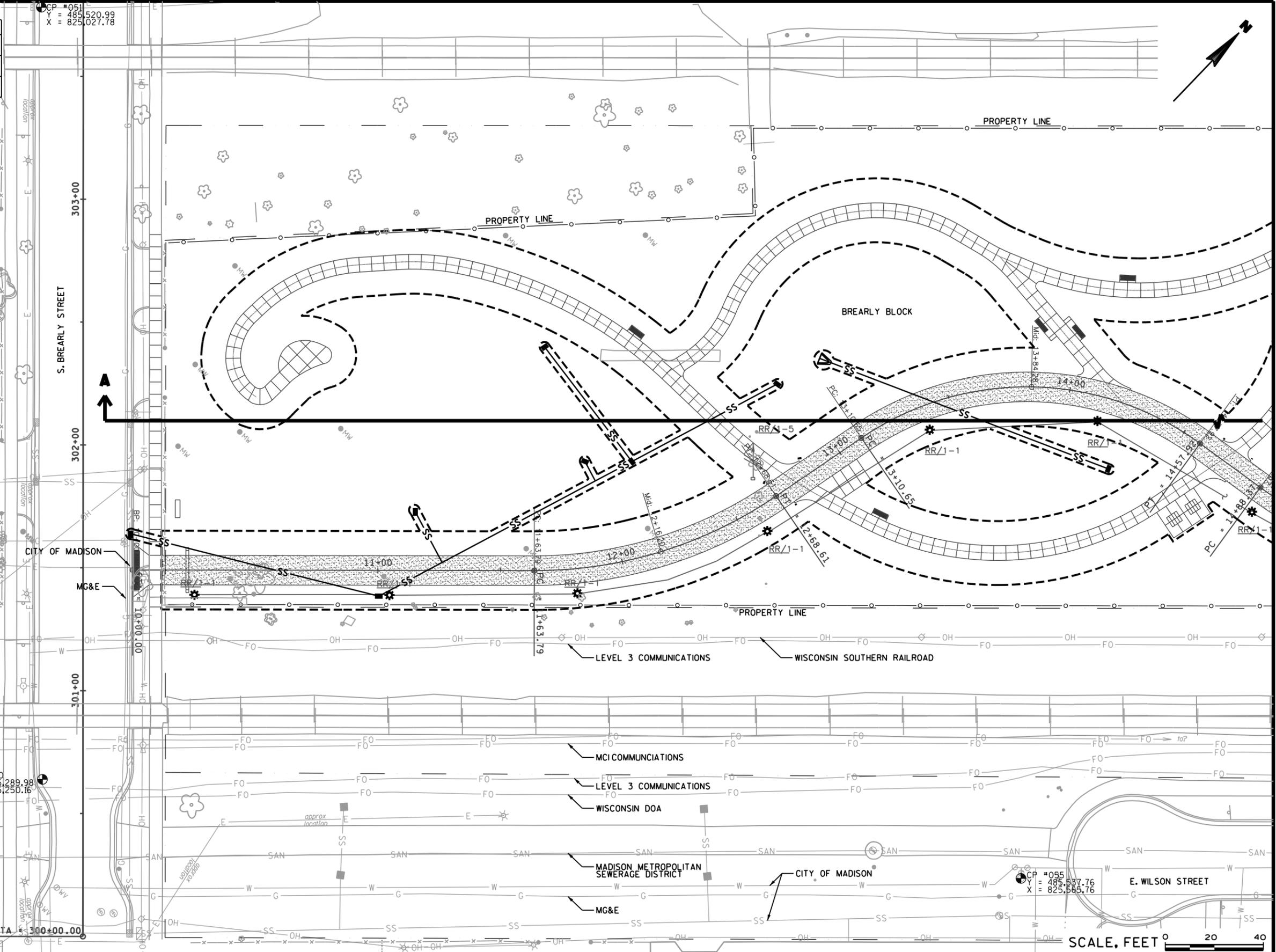
CONCRETE CURB AND GUTTER 30-INCH TYPES A AND D
SCALE: NONE



DETAIL OF CURB & GUTTER TERMINI
SCALE: NONE



| CONTROL POINTS | | | |
|----------------|----------------------------|------------------|--------|
| NO. | STATION | DESCRIPTION | ELEV. |
| 051 | NW CORNER OF BREARLY BLOCK | MAG NAIL ASPHALT | 851.36 |
| 050 | SW CORNER OF BREARLY BLOCK | MAG NAIL ASPHALT | 851.70 |
| 055 | SE CORNER OF BREARLY BLOCK | HYDRANT TOP NUT | 854.40 |



Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan

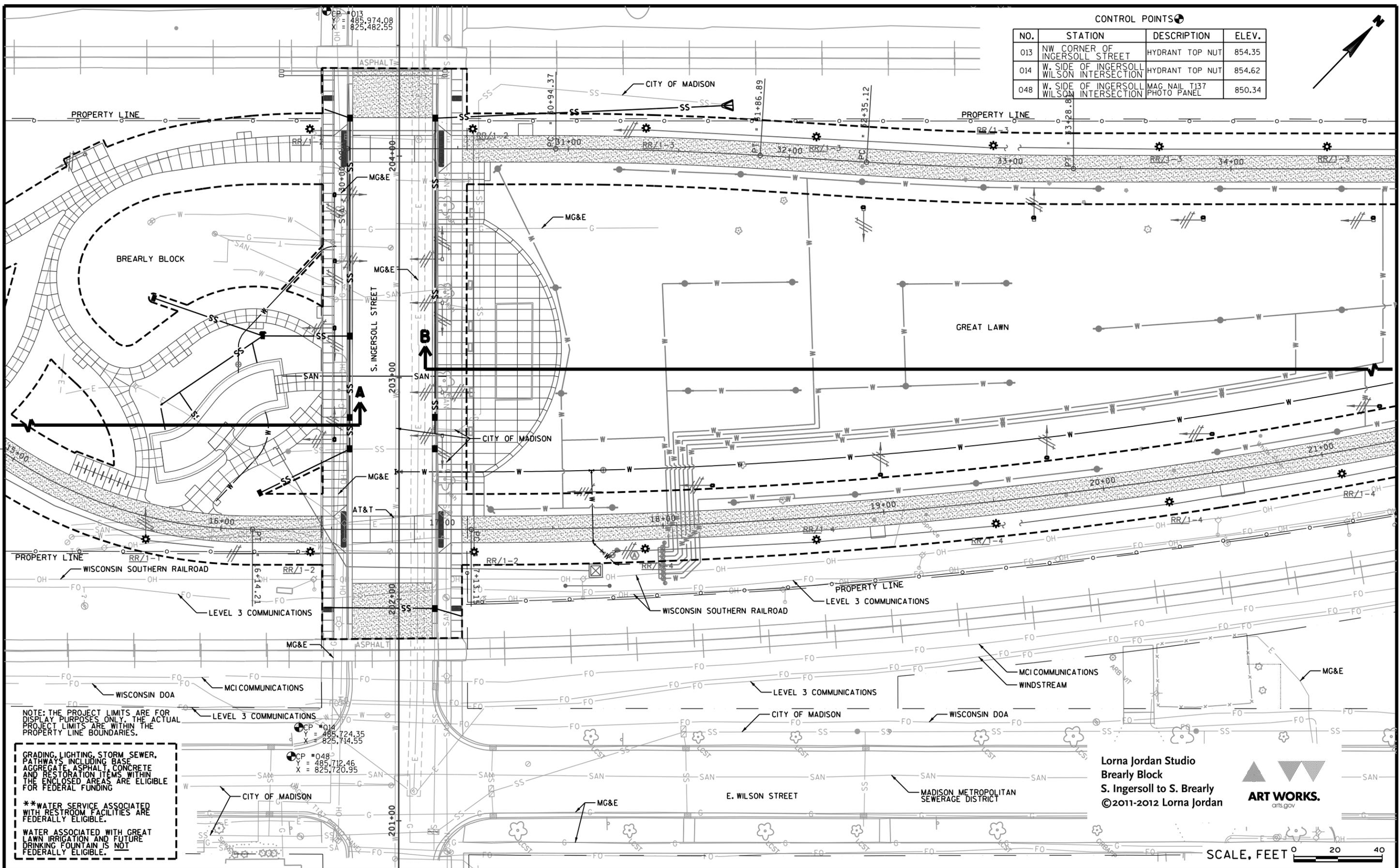
NOTE: THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.

GRADING, LIGHTING, STORM SEWER, PATHWAYS INCLUDING BASE AGGREGATE ASPHALT, CONCRETE AND RESTORATION ITEMS WITHIN THE ENCLOSED AREAS ARE ELIGIBLE FOR FEDERAL FUNDING

**WATER SERVICE ASSOCIATED WITH RESTROOM FACILITIES ARE FEDERALLY ELIGIBLE.

WATER ASSOCIATED WITH GREAT LAWN IRRIGATION AND FUTURE DRINKING FOUNTAIN IS NOT FEDERALLY ELIGIBLE.

| CONTROL POINTS | | | |
|----------------|------------------------------------------|----------------------------|--------|
| NO. | STATION | DESCRIPTION | ELEV. |
| 013 | NW CORNER OF INGERSOLL STREET | HYDRANT TOP NUT | 854.35 |
| 014 | W. SIDE OF INGERSOLL WILSON INTERSECTION | HYDRANT TOP NUT | 854.62 |
| 048 | W. SIDE OF INGERSOLL WILSON INTERSECTION | MAG. NAIL T137 PHOTO PANEL | 850.34 |



NOTE: THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.

GRADING, LIGHTING, STORM SEWER, PATHWAYS INCLUDING BASE AGGREGATE ASPHALT, CONCRETE AND RESTORATION ITEMS WITHIN THE RESTORED AREAS ARE ELIGIBLE FOR FEDERAL FUNDING

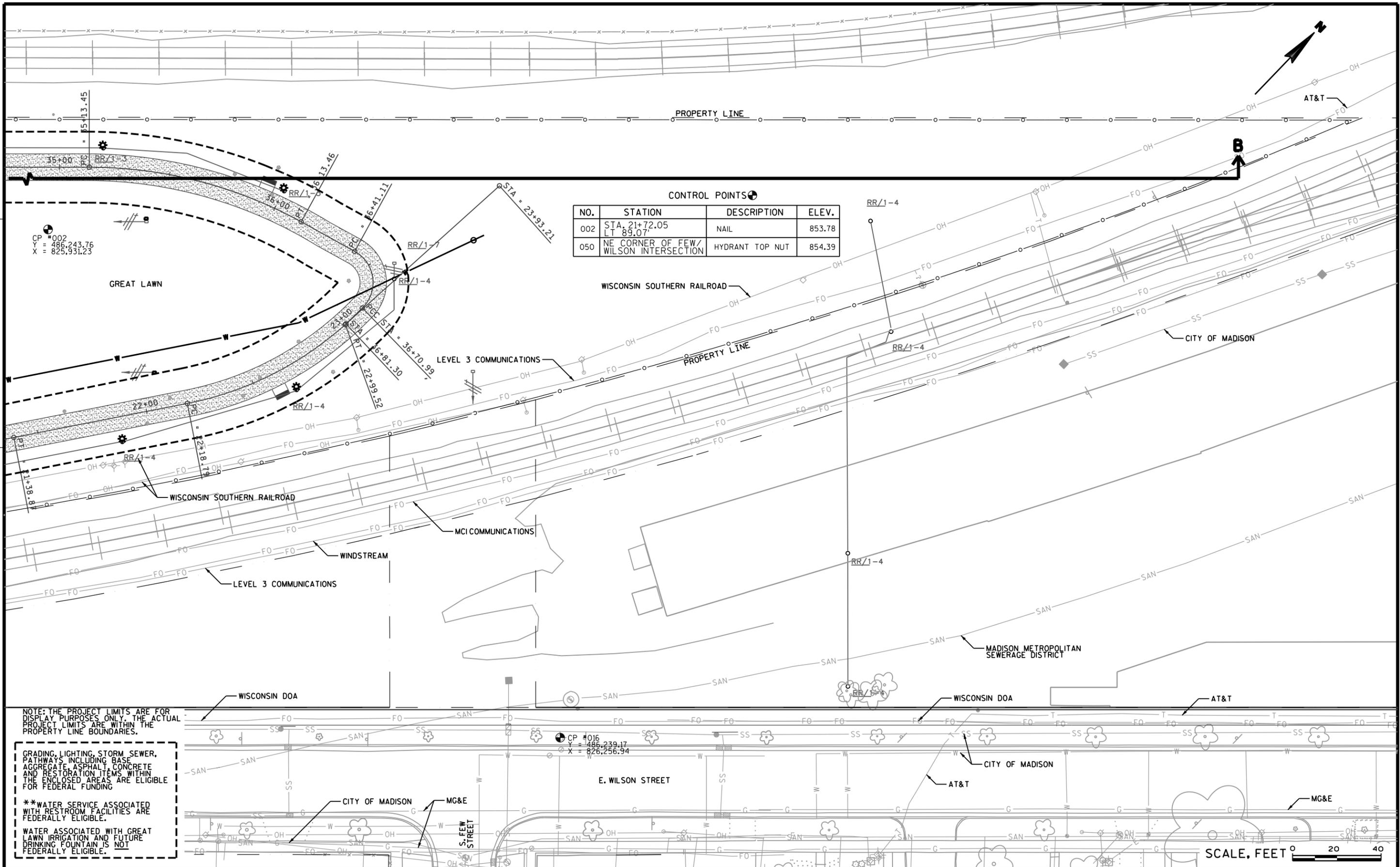
**WATER SERVICE ASSOCIATED WITH RESTROOM FACILITIES ARE FEDERALLY ELIGIBLE.

WATER ASSOCIATED WITH GREAT LAWN IRRIGATION AND FUTURE DRINKING FOUNTAIN IS NOT FEDERALLY ELIGIBLE.

Lorna Jordan Studio
Brearly Block
S. Ingersoll to S. Brearly
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SCALE, FEET 0 20 40



CONTROL POINTS

| NO. | STATION | DESCRIPTION | ELEV. |
|-----|------------------------------------------|-----------------|--------|
| 002 | STA. 21+72.05 LT 89.07' | NAIL | 853.78 |
| 050 | NE CORNER OF FEW/ WILSON INTERSECTION | HYDRANT TOP NUT | 854.39 |

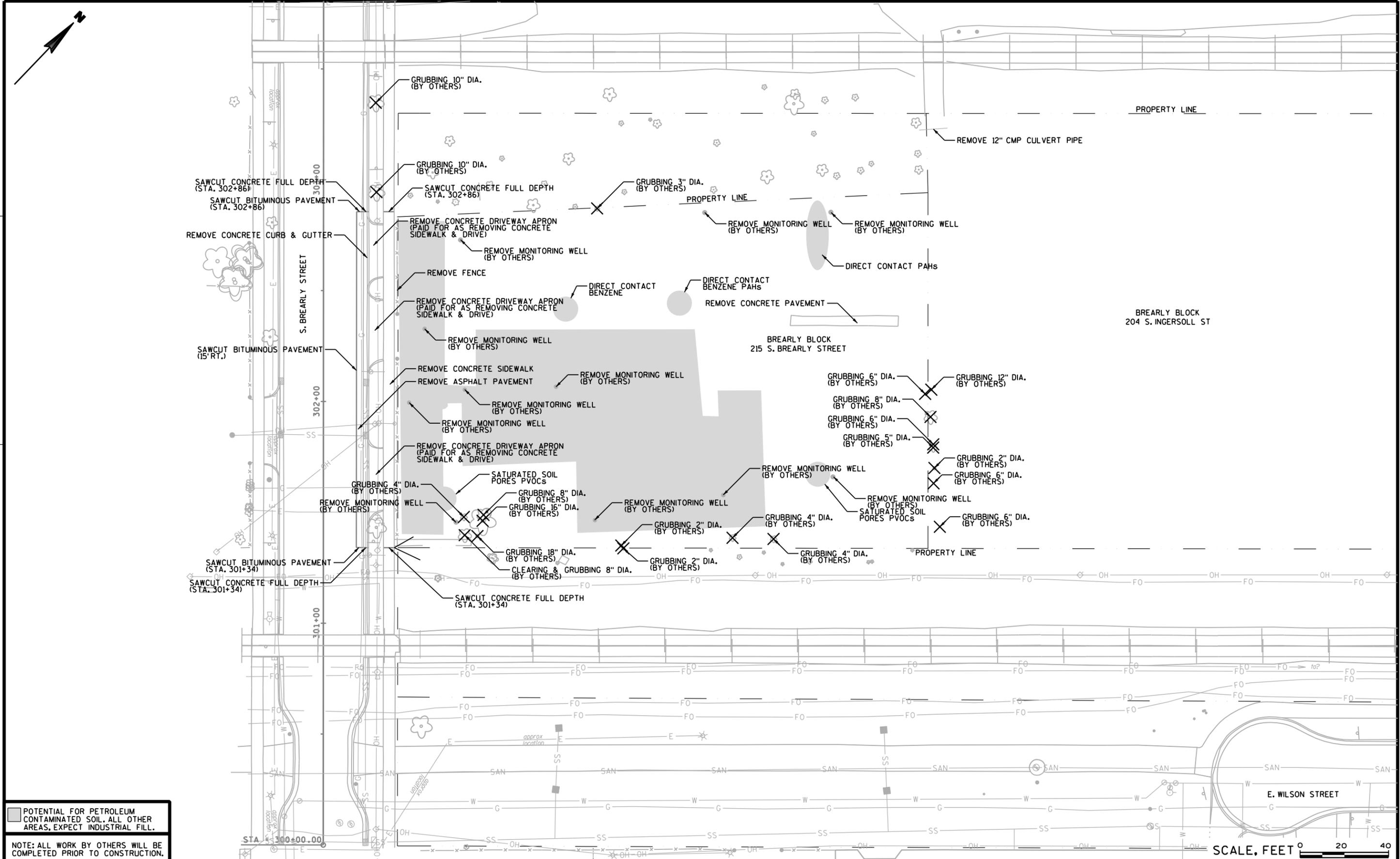
NOTE: THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.

GRADING, LIGHTING, STORM SEWER, PATHWAYS INCLUDING BASE AGGREGATE ASPHALT, CONCRETE AND RESTORATION ITEMS WITHIN THE ENCLOSED AREAS ARE ELIGIBLE FOR FEDERAL FUNDING

**WATER SERVICE ASSOCIATED WITH RESTROOM FACILITIES ARE FEDERALLY ELIGIBLE.

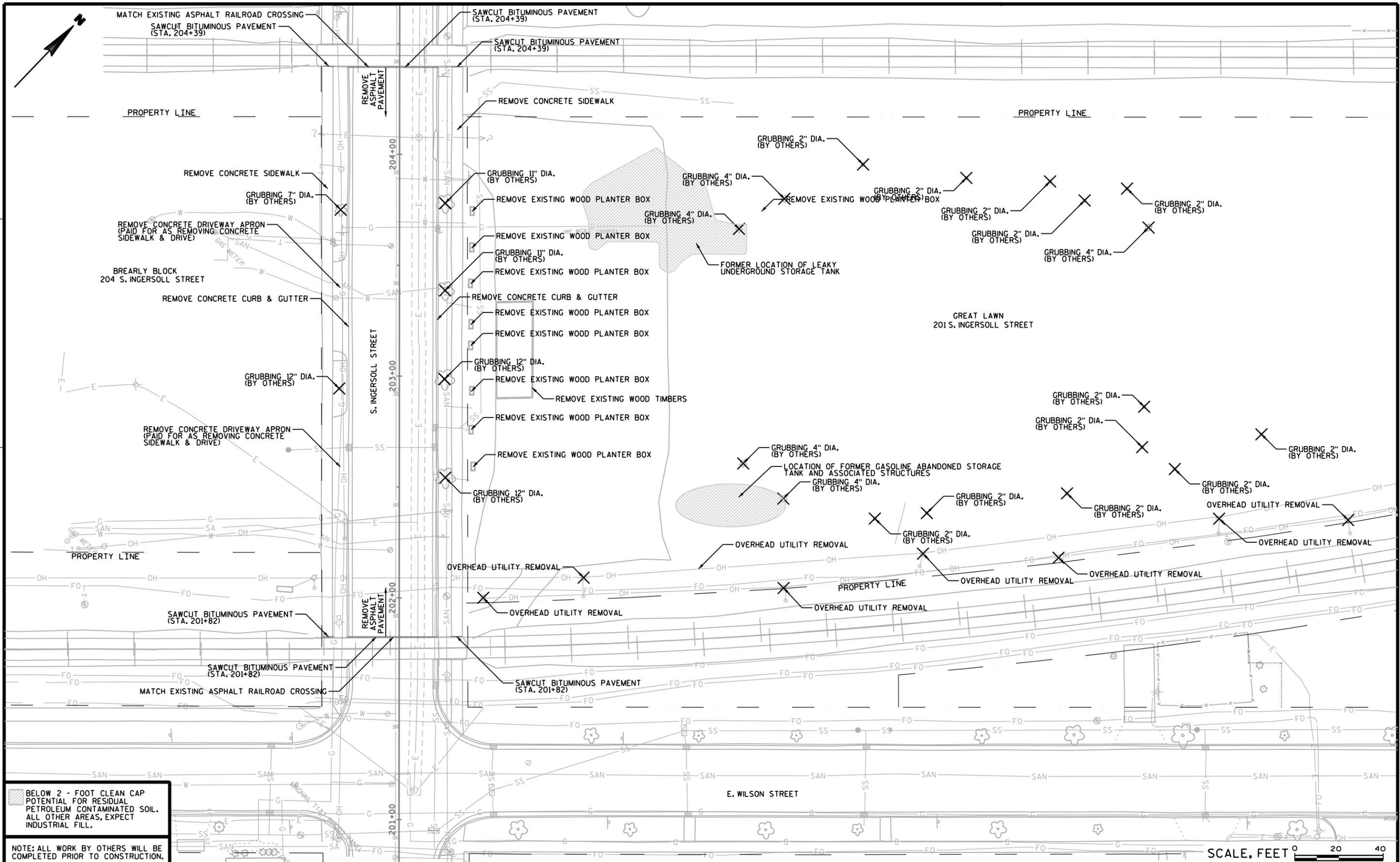
WATER ASSOCIATED WITH GREAT LAWN IRRIGATION AND FUTURE DRINKING FOUNTAIN IS NOT FEDERALLY ELIGIBLE.

SCALE, FEET 0 20 40



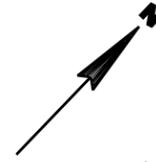
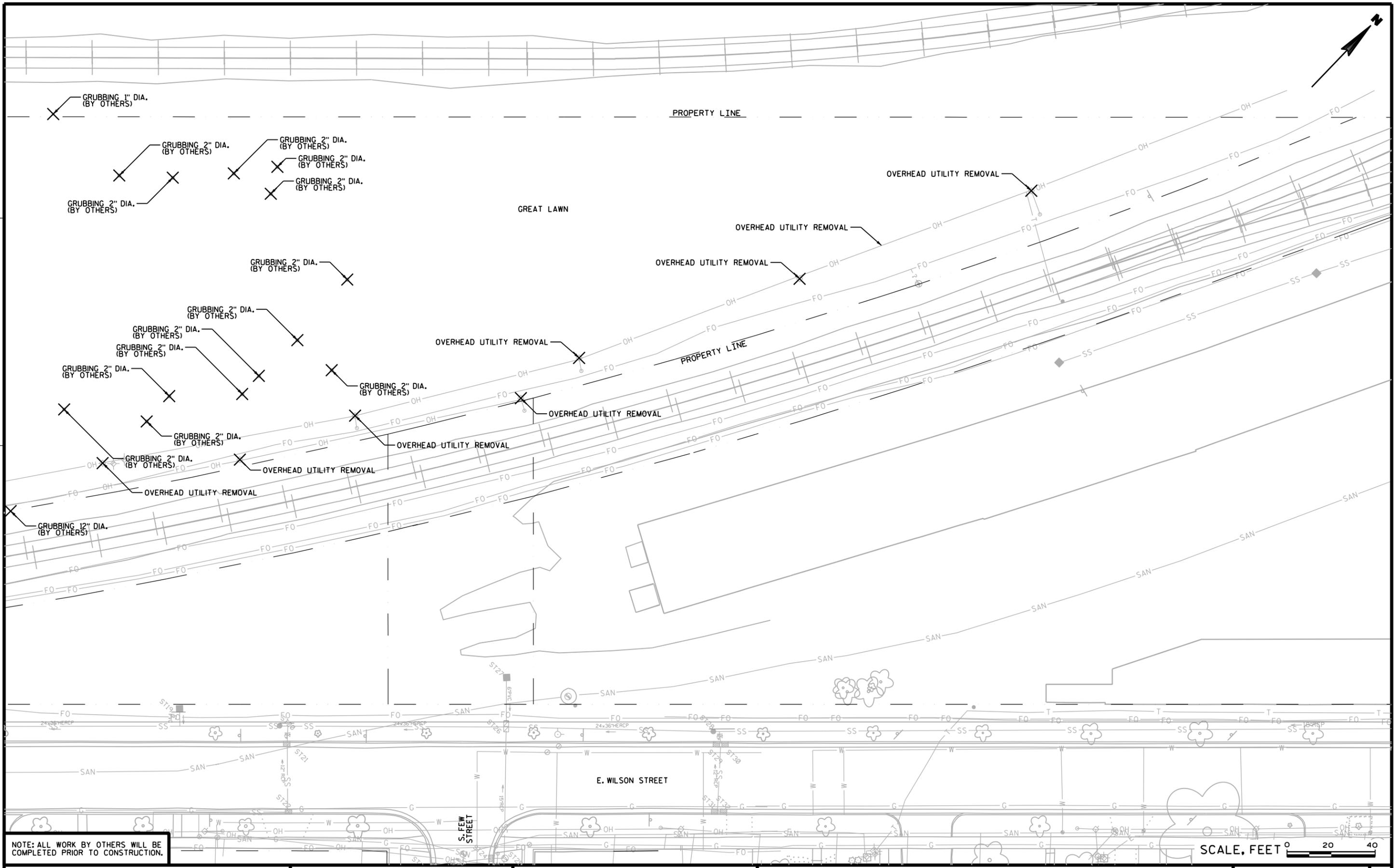
[Symbol] POTENTIAL FOR PETROLEUM
 CONTAMINATED SOIL. ALL OTHER
 AREAS, EXPECT INDUSTRIAL FILL.
 NOTE: ALL WORK BY OTHERS WILL BE
 COMPLETED PRIOR TO CONSTRUCTION.

SCALE, FEET 0 20 40



BELOW 2 - FOOT CLEAN CAP POTENTIAL FOR RESIDUAL PETROLEUM CONTAMINATED SOIL. ALL OTHER AREAS, EXPECT INDUSTRIAL FILL.

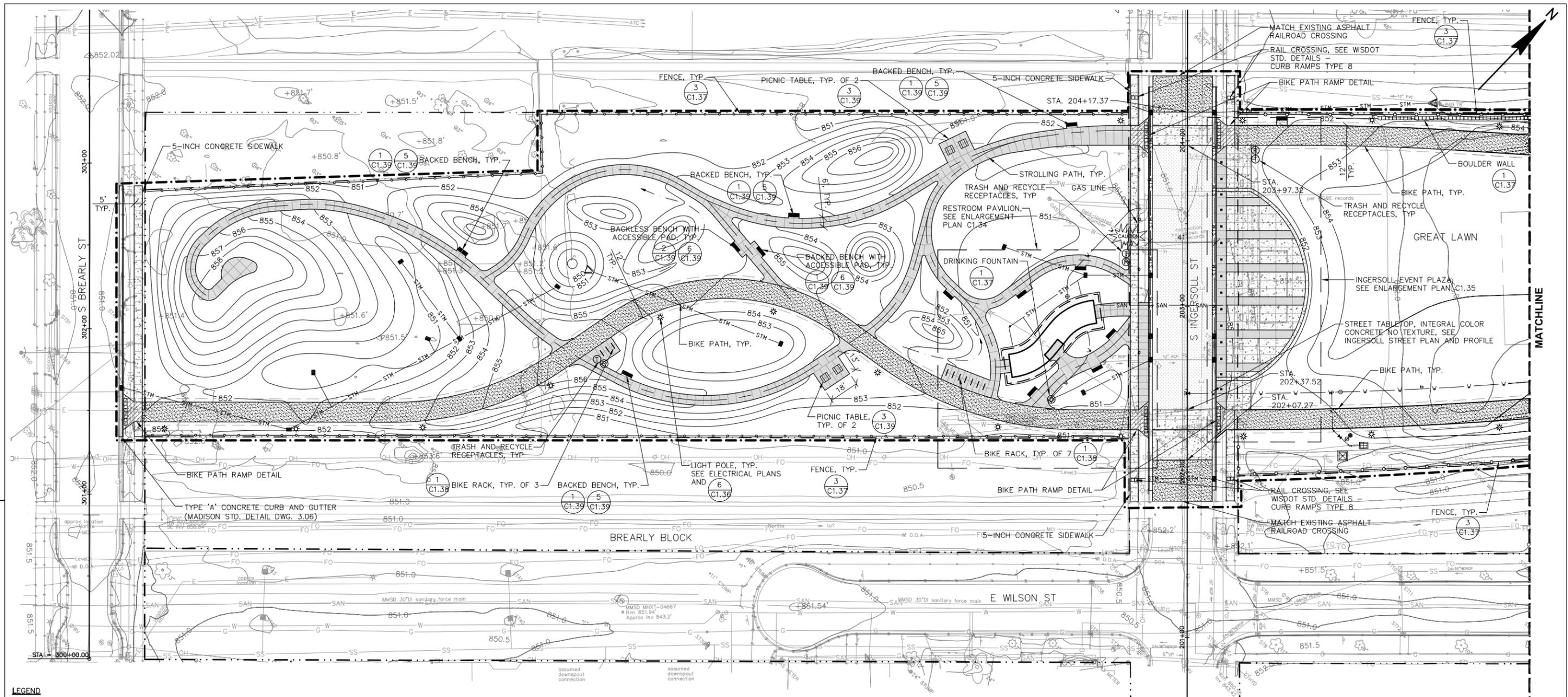
NOTE: ALL WORK BY OTHERS WILL BE COMPLETED PRIOR TO CONSTRUCTION.



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SCALE, FEET 0 20 40

| | | | | | |
|------------------------|------------------|--------------|---------------------------------------|-------------|---|
| PROJECT NO: 5992-01-97 | HWY: NON HIGHWAY | COUNTY: DANE | REMOVAL & CONTAMINATED MATERIALS PLAN | SHEET C1.15 | E |
|------------------------|------------------|--------------|---------------------------------------|-------------|---|



LEGEND

| | | | |
|-----------|------------------------------------------------|-------|-----------------------------|
| —●—●— | PROJECT LIMITS | —STM— | PROPOSED STORM SEWER |
| — | PROPERTY LINE | ■ | PROPOSED STORM STRUCTURE |
| [Pattern] | STANDARD CONCRETE PAVEMENT | —SAN— | PROPOSED SANITARY STRUCTURE |
| [Pattern] | ASPHALT PAVEMENT | —W— | PROPOSED WATER SERVICE |
| [Pattern] | CONCRETE PAVEMENT, INTEGRAL COLOR WITH TEXTURE | | |
| [Pattern] | CONCRETE PAVEMENT, INTEGRAL COLOR | | |
| * | LIGHT POLE | | |
| [Symbol] | PICNIC TABLE | | |
| — | CONCRETE CURB AND GUTTER | | |
| ■ | BENCH | | |
| ⊙ | DRINKING FOUNTAIN | ④ | C1.37 |
| ⊙ | TRASH RECEPTACLE | ② | C1.39 |
| ⊙ | RECYCLE RECEPTACLE | ② | C1.39 |
| • | BOLLARD | | |

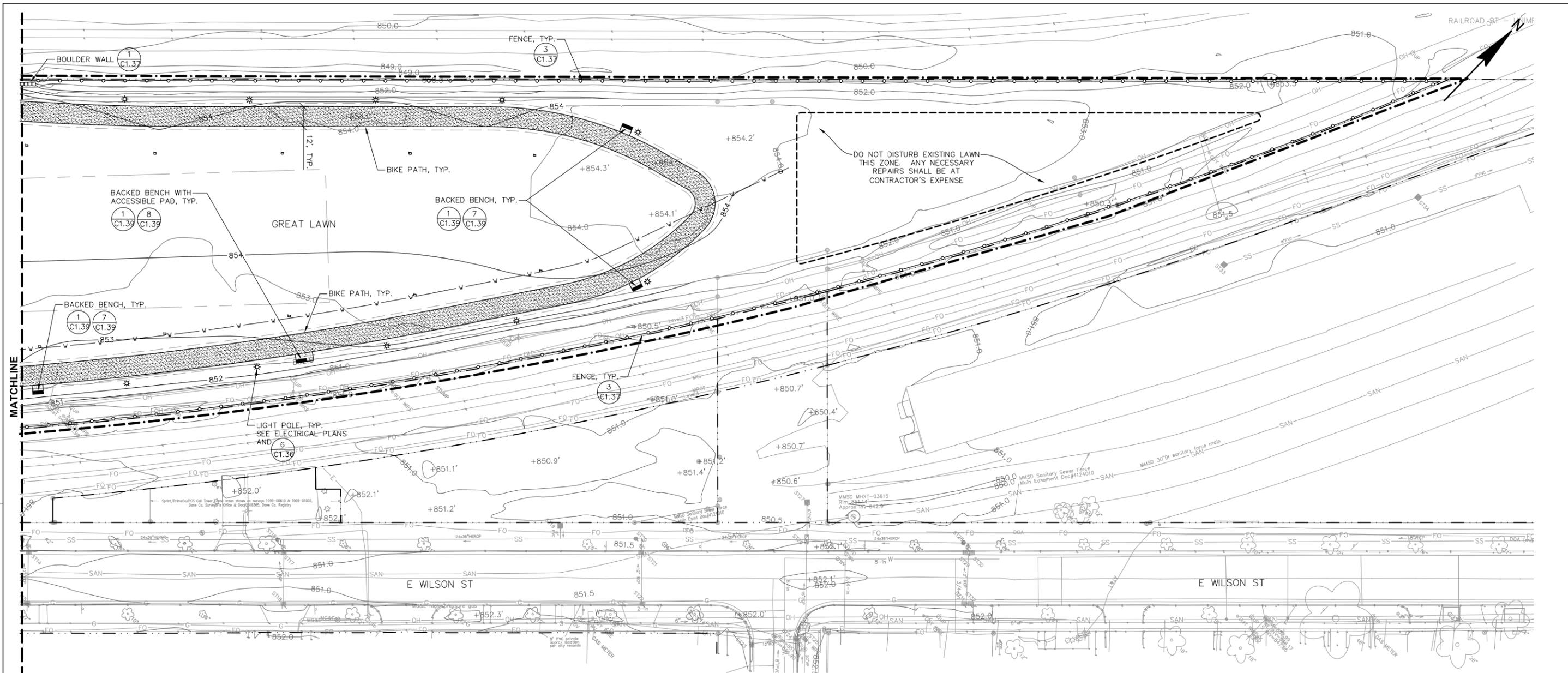
- NOTES**
1. THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.
 2. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AND APPROPRIATE UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO ANY CONSTRUCTION.
 3. CONSTRUCTION LAYOUT/STAKING SHALL BE PROVIDED BY THE CITY OF MADISON.
 4. HORIZONTAL DATUM IS DANE COUNTY COORDINATES, U.S. SURVEY FEET, NAD83(2007).
 5. VERTICAL DATUM IS NAVD88, PRE-2007 ADJUSTMENT.



Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
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Know what's below.
 Call before you dig.
 SCALE 0 15' 30'



LEGEND

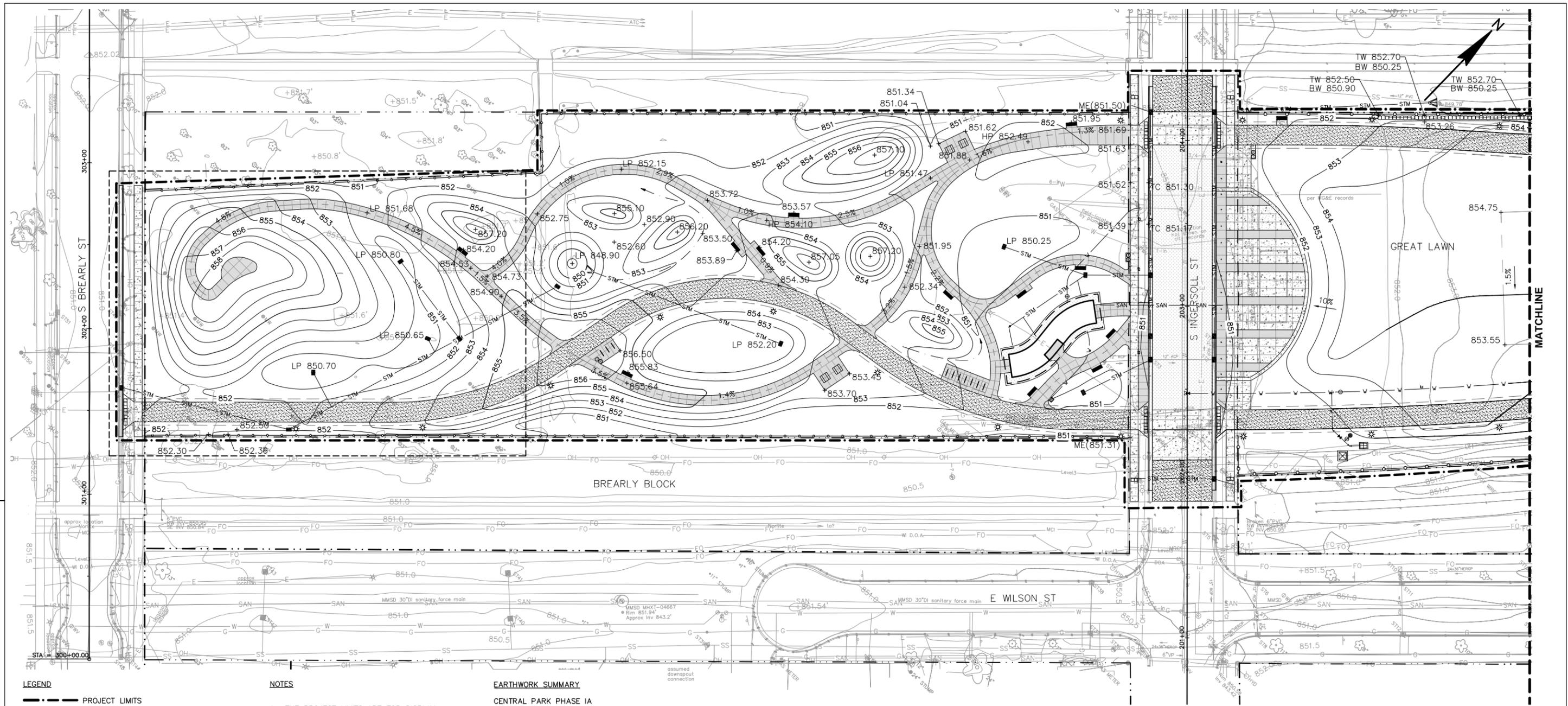
| | | | |
|--|------------------------------------------------|--|-----------------------------|
| | PROJECT LIMITS | | PROPOSED STORM SEWER |
| | PROPERTY LINE | | PROPOSED STORM STRUCTURE |
| | STANDARD CONCRETE PAVEMENT | | PROPOSED SANITARY STRUCTURE |
| | ASPHALT PAVEMENT | | PROPOSED WATER SERVICE |
| | CONCRETE PAVEMENT, INTEGRAL COLOR WITH TEXTURE | | |
| | CONCRETE PAVEMENT, INTEGRAL COLOR | | |
| | LIGHT POLE | | |
| | PICNIC TABLE | | |
| | CONCRETE CURB AND GUTTER | | |
| | BENCH | | |
| | DRINKING FOUNTAIN | | |
| | TRASH RECEPTACLE | | |
| | RECYCLE RECEPTACLE | | |
| | BOLLARD | | |

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Know what's below.
Call before you dig.





- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - 855 --- PROPOSED INDEX CONTOUR
 - 854 --- PROPOSED INTERMEDIATE CONTOUR
 - SWALE CENTERLINE
 - PATH SHOULDER
 - + 851.90 PROPOSED SPOT ELEVATION
 - + TW 851.90 TOP OF WALL ELEVATION
 - + BW 851.90 BOTTOM OF WALL ELEVATION
 - + LP 851.90 LOW POINT ELEVATION
 - + HP 851.90 HIGH POINT ELEVATION
 - + ME 851.90 MATCH EXISTING ELEVATION/FIELD VERIFY
 - + FFE 851.90 FINISH FLOOR ELEVATION
 - STM --- PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE
 - SAN --- PROPOSED SANITARY SEWER
 - W --- PROPOSED WATER SERVICE

- NOTES**
1. THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.
 2. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AND APPROPRIATE UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO ANY CONSTRUCTION.
 3. HORIZONTAL DATUM IS DANE COUNTY COORDINATES, U.S. SURVEY FEET, NAD83(2007).
 4. VERTICAL DATUM IS NAVD88, PRE-2007 ADJUSTMENT.
 5. SEE PLAN AND PROFILE SHEETS FOR BIKE PATH GRADING.
 6. PROPOSED GRADE MAY BE LOWER THAN THE EXISTING GRADE AND REQUIRE ADDITIONAL EXCAVATION TO ALLOW FOR 2" OF CLEAN FILL MATERIAL BELOW THE PROPOSED SURFACE IN ALL LOCATIONS.

EARTHWORK SUMMARY
CENTRAL PARK PHASE IA

| EARTHWORK SUMMARY | | | | |
|-------------------------|--------------|---------------|------------------|-------------------|
| | Cut (CY) | Fill (CY) | Fill Borrow (CY) | Fill Borrow (TON) |
| INGERSOLL STREET | | | | |
| | 449 | - | - | - |
| BREARLY BLOCK | | | | |
| 215 S. BREARLY STREET | 913 | 3,463 | 2,123 | 3,185 |
| 204 S. INGERSOLL STREET | 2,630 | 5,820 | 5,520 | 8,280 |
| GREAT LAWN | | | | |
| 201 S. INGERSOLL STREET | 1,784 | 3,032 | 3,032 | 4,548 |
| TOTAL | 5,776 | 12,315 | 10,675 | 16,013 |

Note: For estimating purposes a conversion factor of 1.5 TONS/CY was used.

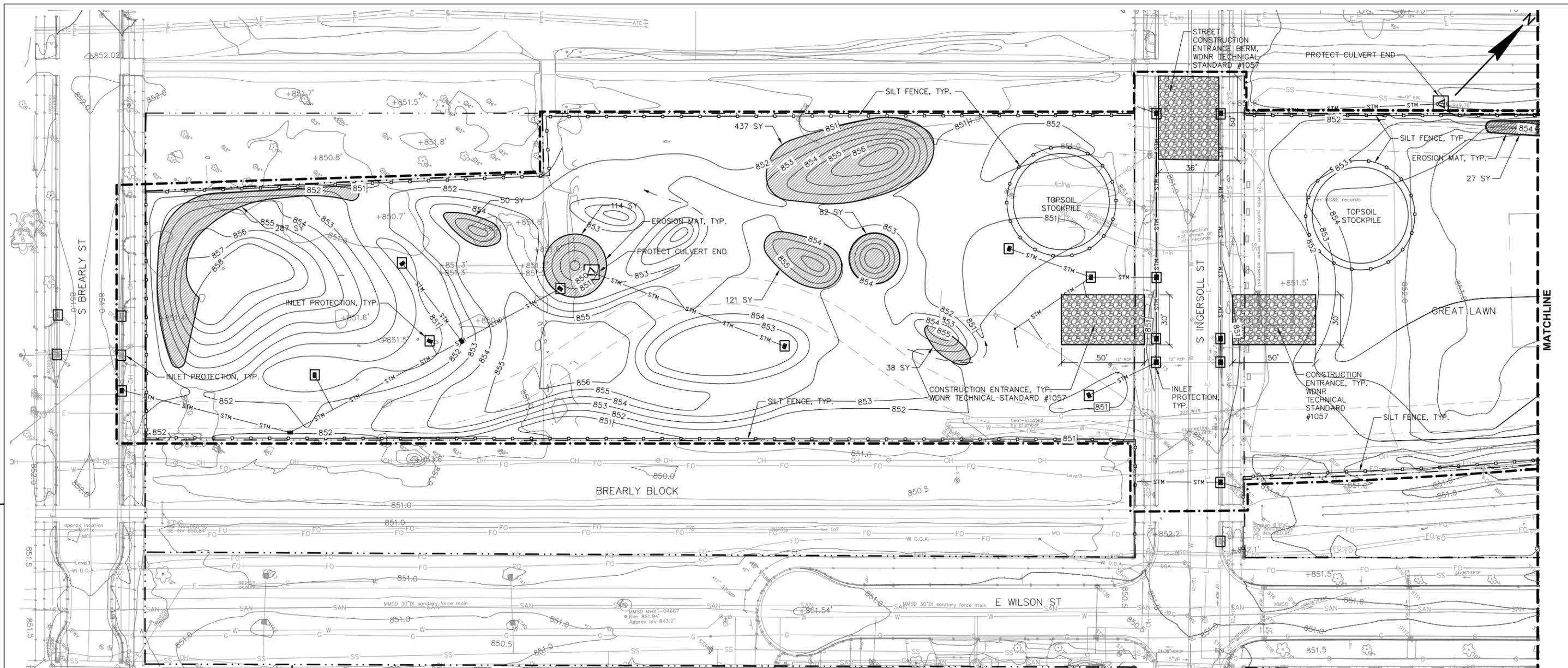


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Brearly Block
S. Ingersoll to S. Brearly
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Know what's below.
Call before you dig.





- LEGEND**
- PROJECT LIMITS
 - - - PROPERTY LINE
 - SILT FENCE
 - INLET PROTECTION
 - ▨ EROSION MAT
 - STM— PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE

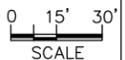
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 3. LOCATIONS OF CONSTRUCTION ENTRANCES AND TOPSOIL STOCKPILES SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LOCATIONS TO BE COORDINATED WITH SELECTED CONTRACTOR AT ALL SITE CONSTRUCTION ACCESS POINTS.
 4. ALL SITE EROSION CONTROL MEASURES SHALL BE MAINTAINED BY CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AS NEEDED TO SERVE INTENDED FUNCTION.
 5. INLET PROTECTION IS REQUIRED UNTIL SITE IS STABILIZED, INCLUDING EXISTING INLETS AS WELL AS NEW INLETS AS THEY ARE CONSTRUCTED.
 6. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL DEVICES AT PROJECT COMPLETION.
 7. CONTRACTOR SHALL CLEAN ROAD SURFACES THROUGHOUT THE DAY TO PREVENT TRACKING OF MATERIALS.
 8. AN ADDITIONAL 300 SY OF UNDISTRIBUTED EROSION MATTING HAS BEEN INCLUDED FOR USE AS NEEDED IF DIRECTED BY ENGINEER.
 9. AN ADDITIONAL 2,000 LF OF UNDISTRIBUTED SILT FENCE HAS BEEN INCLUDED FOR USE AS NEEDED IF DIRECTED BY ENGINEER.

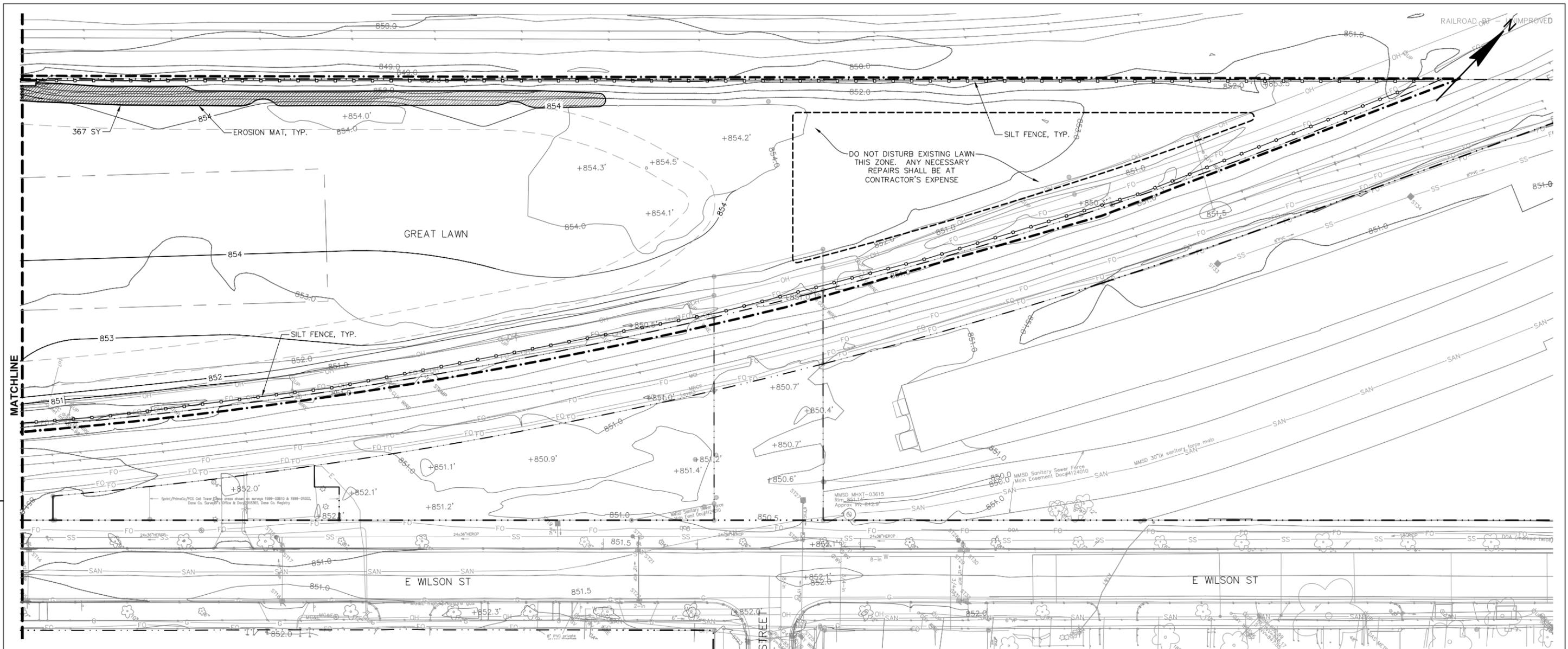


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Know what's below.
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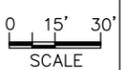


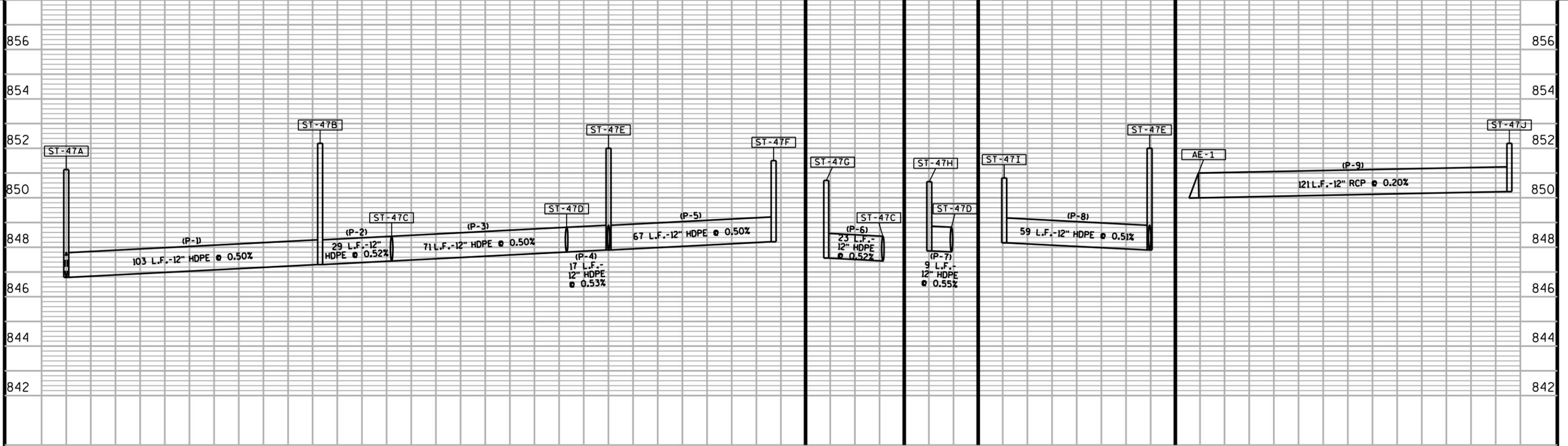
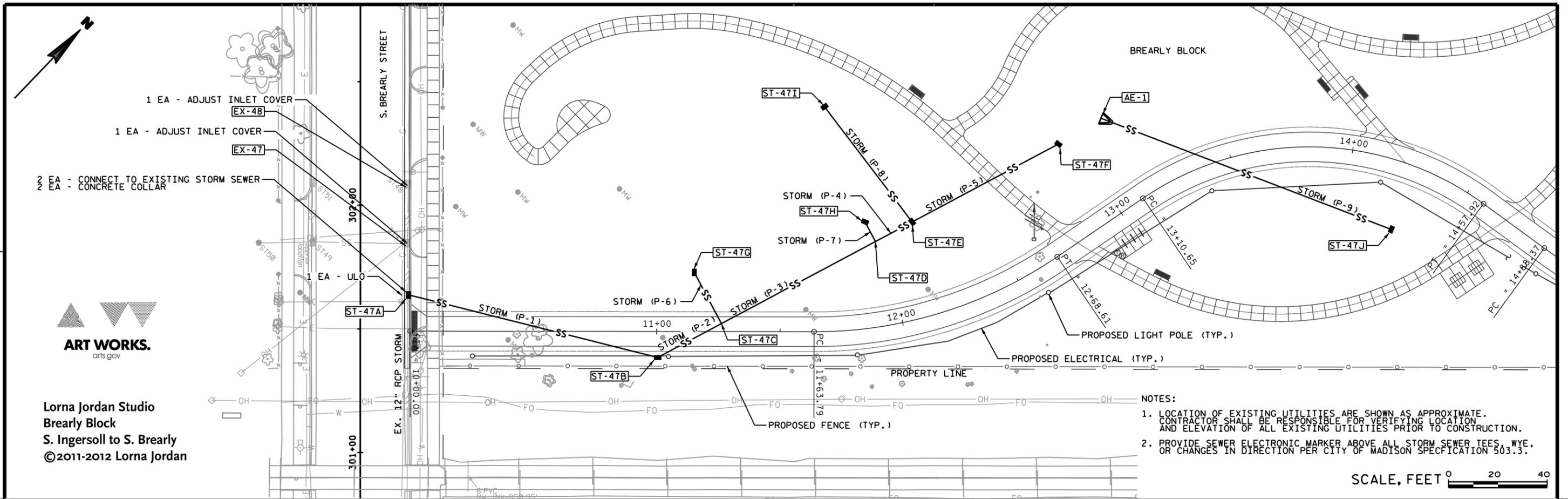
- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - SILT FENCE
 - INLET PROTECTION
 - ▨ EROSION MAT
 - STM PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE

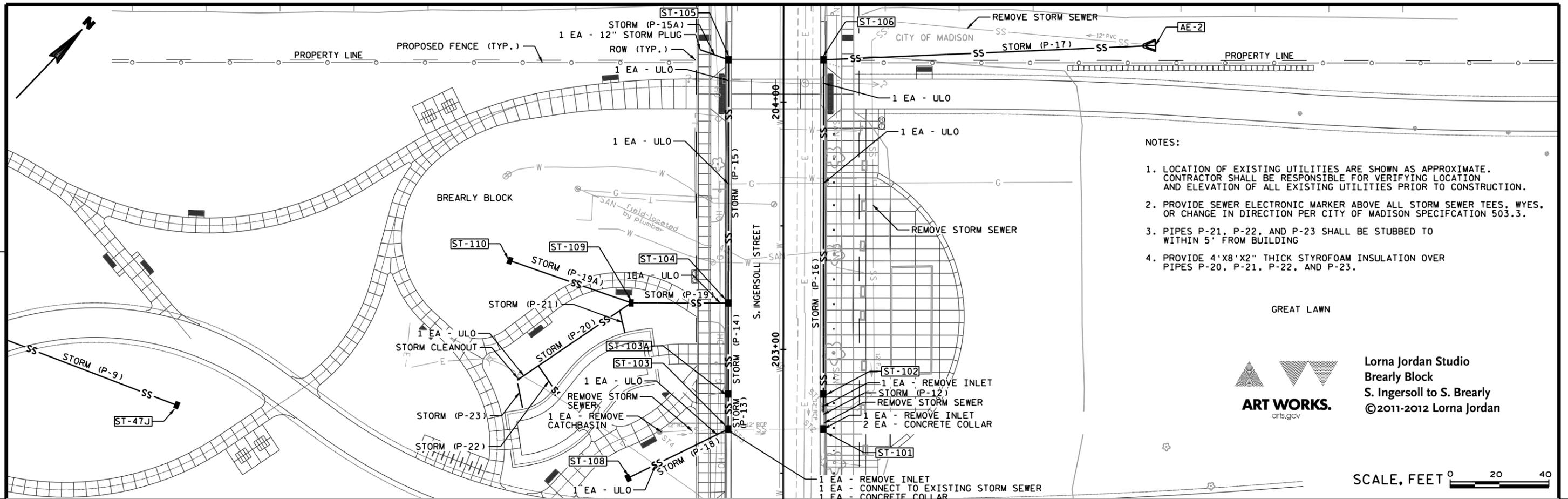
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Call before you dig.



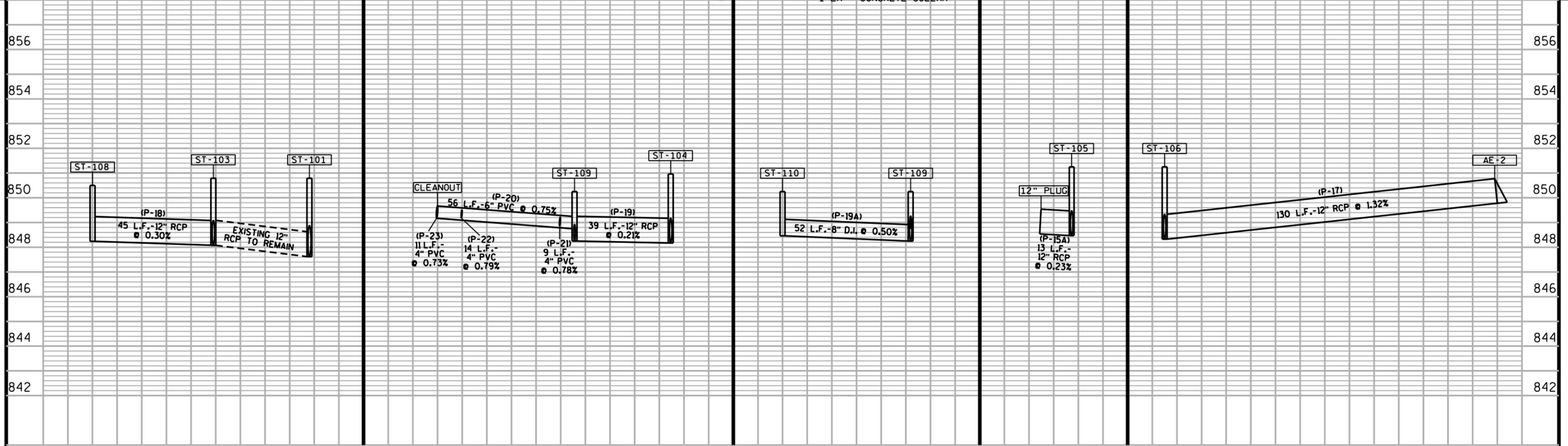


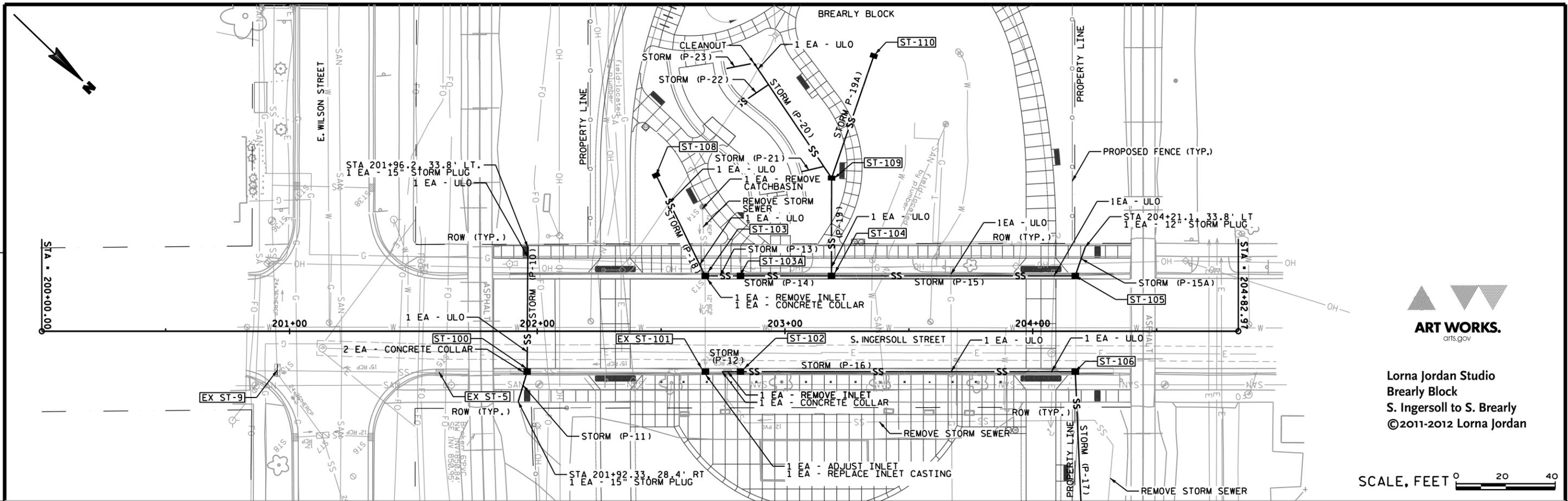


- NOTES:
1. LOCATION OF EXISTING UTILITIES ARE SHOWN AS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. PROVIDE SEWER ELECTRONIC MARKER ABOVE ALL STORM SEWER TEES, WYES, OR CHANGE IN DIRECTION PER CITY OF MADISON SPECIFICATION 503.3.
 3. PIPES P-21, P-22, AND P-23 SHALL BE STUBBED TO WITHIN 5" FROM BUILDING
 4. PROVIDE 4'X8'X2" THICK STYROFOAM INSULATION OVER PIPES P-20, P-21, P-22, AND P-23.

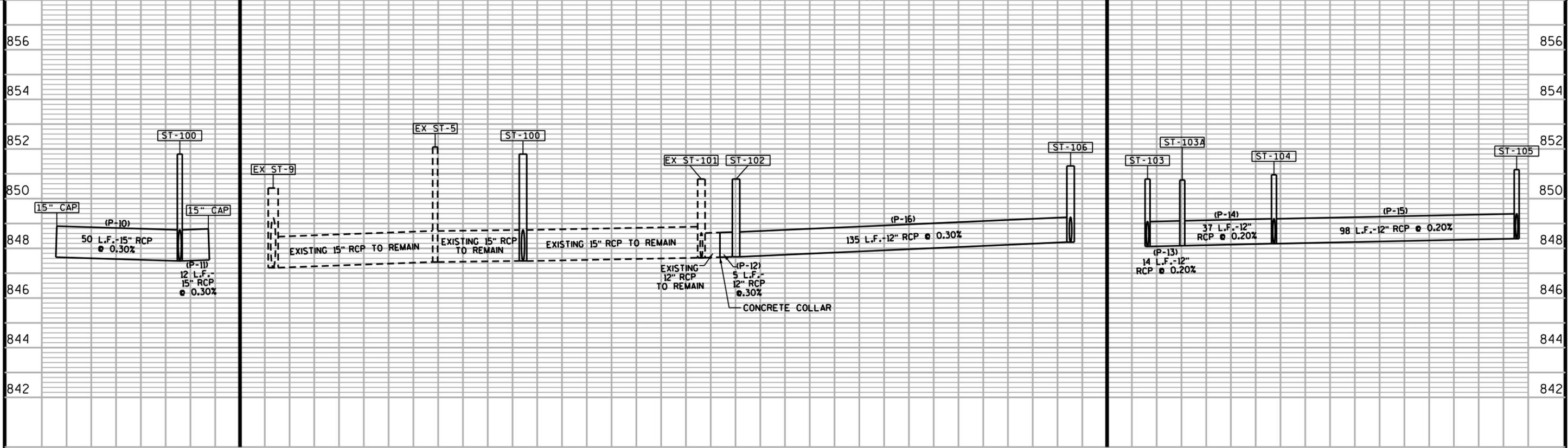


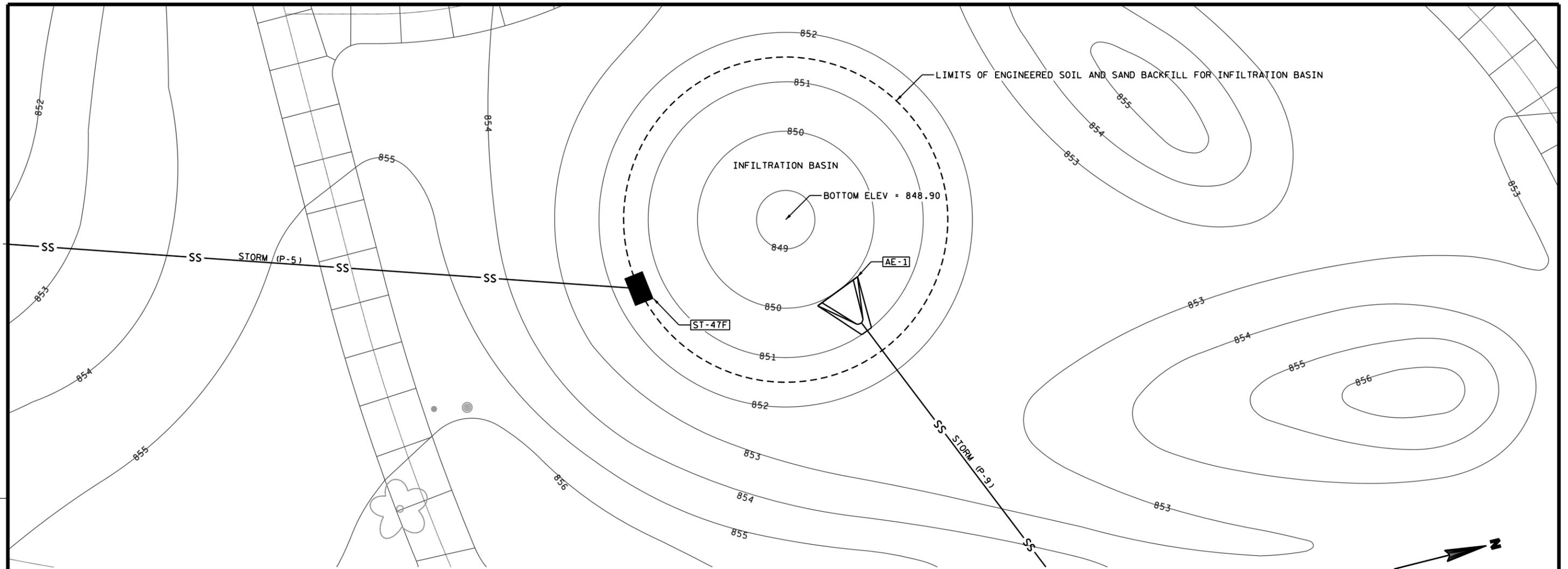
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 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan



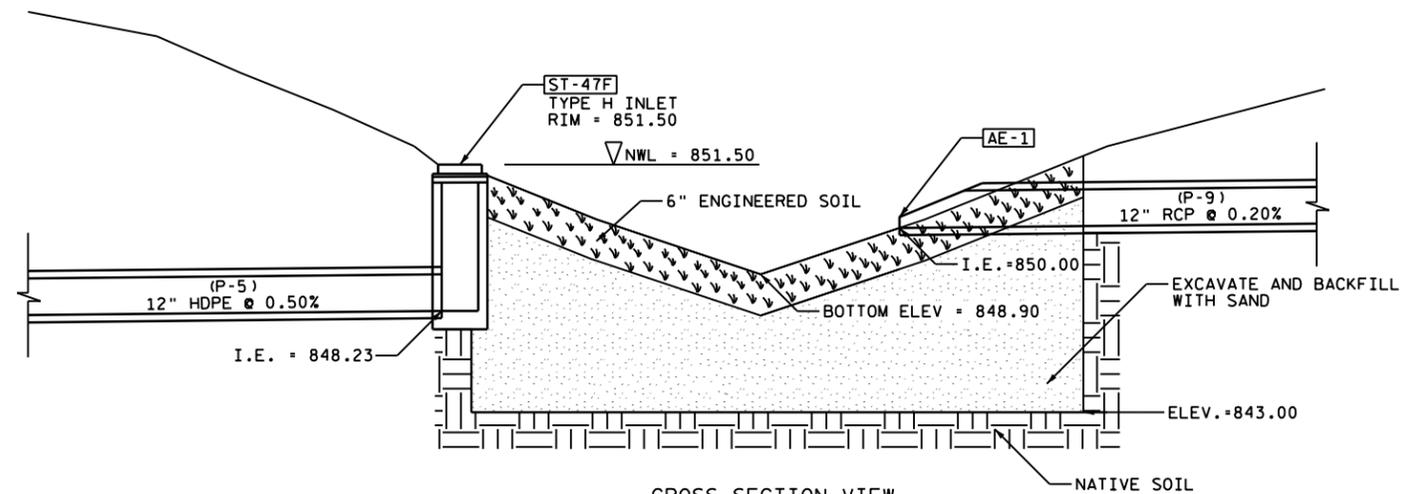
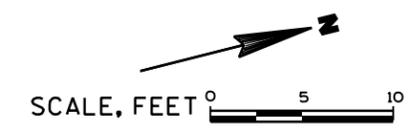


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PLAN VIEW



CROSS SECTION VIEW
SCALE: NONE



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Brearly Block
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STORM SEWER PIPES

Brearily Block Storm Sewer - South End

| PIPE NO. | DS STR | US STR | LENGTH (LF) | DS I.E. | US I.E. | SLOPE (%) | PIPE DIA. | TYPE | NOTES |
|----------|--------|--------|-------------|---------|---------|-----------|-----------|------|-------------------------|
| P-1 | ST-47A | ST-47B | 103 | 846.78 | 847.30 | 0.50% | 12" | HDPE | |
| P-2 | ST-47B | ST-47C | 29 | 847.30 | 847.45 | 0.52% | 12" | HDPE | |
| P-3 | ST-47C | ST-47D | 71 | 847.45 | 847.80 | 0.49% | 12" | HDPE | |
| P-4 | ST-47D | ST-47E | 17 | 847.80 | 847.89 | 0.53% | 12" | HDPE | |
| P-5 | ST-47E | ST-47F | 67 | 847.89 | 848.23 | 0.51% | 12" | HDPE | |
| P-6 | ST-47C | ST-47G | 23 | 847.45 | 847.57 | 0.52% | 12" | HDPE | |
| P-7 | ST-47D | ST-47H | 9 | 847.80 | 847.85 | 0.56% | 12" | HDPE | |
| P-8 | ST-47E | ST-47I | 59 | 847.89 | 848.19 | 0.51% | 12" | HDPE | |
| P-9 | ST-47J | AE-1 | 121 | 850.00 | 850.25 | 0.20% | 12" | RCP | LENGTH EXCLUDES ENDWALL |

Brearily Block Storm Sewer - North End

| PIPE NO. | DS STR | US STR | LENGTH (LF) | DS I.E. | US I.E. | SLOPE (%) | PIPE DIA. | TYPE | NOTES |
|----------|--------|----------|-------------|---------|---------|-----------|-----------|------|--------------------|
| P-18 | ST-103 | ST-108 | 45 | 848.09 | 848.23 | 0.30% | 12" | RCP | |
| P-19 | ST-104 | ST-109 | 39 | 848.19 | 848.27 | 0.21% | 12" | RCP | |
| P-19A | ST-109 | ST-110 | 52 | 848.27 | 848.53 | 0.50% | 8" | D.I. | |
| P-20 | ST-109 | CLEANOUT | 56 | 848.75 | 849.17 | 0.75% | 6" | PVC | PROVIDE INSULATION |
| P-21 | TEE | STUB | 9 | 848.80 | 848.87 | 0.78% | 4" | PVC | PROVIDE INSULATION |
| P-22 | TEE | STUB | 14 | 849.09 | 849.20 | 0.79% | 4" | PVC | PROVIDE INSULATION |
| P-23 | TEE | STUB | 11 | 849.17 | 849.25 | 0.73% | 4" | PVC | PROVIDE INSULATION |

Ingersoll Storm Sewer

| PIPE NO. | DS STR | US STR | LENGTH (LF) | DS I.E. | US I.E. | SLOPE (%) | PIPE DIA. | TYPE | NOTES |
|----------|-----------|---------|-------------|---------|---------|-----------|-----------|------|-------------------------|
| P-10 | ST-100 | PLUG | 50 | 847.55 | 847.70 | 0.30% | 15" | RCP | |
| P-11 | ST-100 | PLUG | 12 | 847.55 | 847.59 | 0.30% | 15" | RCP | |
| P-12 | EX ST-101 | ST-102 | 5 | 847.66 | 847.68 | 0.30% | 12" | RCP | |
| P-13 | ST-103 | ST-103A | 14 | 848.09 | 848.12 | 0.20% | 12" | RCP | |
| P-14 | ST-103A | ST-104 | 37 | 848.12 | 848.19 | 0.20% | 12" | RCP | |
| P-15 | ST-104 | ST-105 | 98 | 848.19 | 848.39 | 0.20% | 12" | RCP | |
| P-15A | ST-105 | PLUG | 13 | 848.39 | 848.42 | 0.23% | 12" | RCP | |
| P-16 | ST-102 | ST-106 | 135 | 847.68 | 848.08 | 0.30% | 12" | RCP | |
| P-17 | ST-106 | AE-2 | 130 | 848.08 | 849.78 | 1.31% | 12" | RCP | LENGTH EXCLUDES ENDWALL |

STORM SEWER STRUCTURES

Brearily Block Storm Sewer - South

| STRUCTURE NO. | STATION | OFFSET | STRUCTURE TYPE | TOP OF CASTING | INVERT ELEV | DEPTH | NOTES |
|---------------|-----------|-----------|----------------|----------------|-------------|-------|------------------------------|
| ST-47A | 301+63.60 | 19.40' RT | TYPE H | 851.14 | 846.78 | 4.36 | R-3067, 7004 CURB PLATE |
| ST-47B | 11+00.40 | 10.50' RT | TYPE H | 852.20 | 847.30 | 4.90 | FIELD POUR R-1878 B7L |
| ST-47C | 11+26.20 | 3.25' LT | TEE | N/A | 847.45 | N/A | |
| ST-47D | 11+94.90 | 34.30' LT | TEE | N/A | 847.89 | N/A | |
| ST-47E | 12+15.50 | 38.50' LT | TYPE H | 852.00 | 847.89 | 4.11 | R-1878 B7L |
| ST-47F | 12+94.60 | 37.40' LT | TYPE H | 851.50 | 848.23 | 3.27 | R-1878 B7G |
| ST-47G | 11+15.20 | 23.90' LT | 2'X2' | 850.70 | 847.59 | 3.11 | FIELD POUR W/ R-3210, TYPE Q |
| ST-47H | 11+91.20 | 42.80' LT | 2'X2' | 850.65 | 847.85 | 2.80 | FIELD POUR W/ R-3210, TYPE Q |
| ST-47I | 11+72.40 | 90.90' LT | 2'X2' | 850.80 | 848.19 | 2.61 | FIELD POUR W/ R-3210, TYPE Q |
| ST-47J | 14+26.30 | 27.20' RT | TYPE H | 852.20 | 850.25 | 1.95 | R-1878 B7G |
| AE-1 | 13+13.82 | 36.41' LT | ENDWALL | N/A | 850.00 | N/A | RCP ENDWALL WITH GATE |

Brearily Block Storm Sewer - North

| STRUCTURE NO. | NORTHING | EASTING | STRUCTURE TYPE | TOP OF CASTING | INVERT ELEV | DEPTH | NOTES |
|---------------|-----------|-----------|----------------|----------------|-------------|-------|------------------------------|
| ST-108 | 485788.31 | 825628.30 | TYPE H | 850.50 | 848.24 | 2.26 | R - 1878 B7G |
| ST-109 | 485840.20 | 825580.06 | TYPE H | 851.60 | 848.27 | 3.33 | FIELD POUR R - 1878 B7L |
| ST-110 | 485818.39 | 825532.77 | 2'X2' | 850.25 | 848.53 | 1.72 | FIELD POUR W/ R-3210, TYPE Q |

Ingersoll Street Storm Sewer

| STRUCTURE NO. | STATION | OFFSET | STRUCTURE TYPE | TOP OF CASTING | INVERT ELEV | DEPTH | NOTES |
|---------------|-----------|------------|----------------|----------------|-------------|-------|----------------------------------------------|
| ST-100 | 201+95.90 | 16.25' RT | TYPE H | 851.20 | 847.55 | 3.65 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| EX ST-101 | 202+67.84 | 16.25' RT | TYPE H | 850.76 | 847.68 | 3.09 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-102 | 202+82.0 | 16.25' RT | TYPE H | 850.69 | 847.65 | 3.04 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-103 | 202+67.84 | 22.32' LT | TYPE H | 850.74 | 848.09 | 2.65 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-103A | 202+82.0 | 22.32' LT | TYPE H | 850.69 | 848.12 | 2.57 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-104 | 203+18.76 | 22.32' LT | TYPE H | 850.87 | 848.19 | 2.68 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-105 | 204+17.14 | 22.32' LT | TYPE H | 851.17 | 848.39 | 2.78 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| ST-106 | 204+17.14 | 16.25' RT | TYPE H | 851.20 | 848.08 | 3.12 | R-3067 CASTING, TYPE Q, 3067-7000 CURB PLATE |
| AE-2 | 204+23.08 | 150.93' RT | ENDWALL | N/A | 849.78 | N/A | RCP ENDWALL WITH GATE |

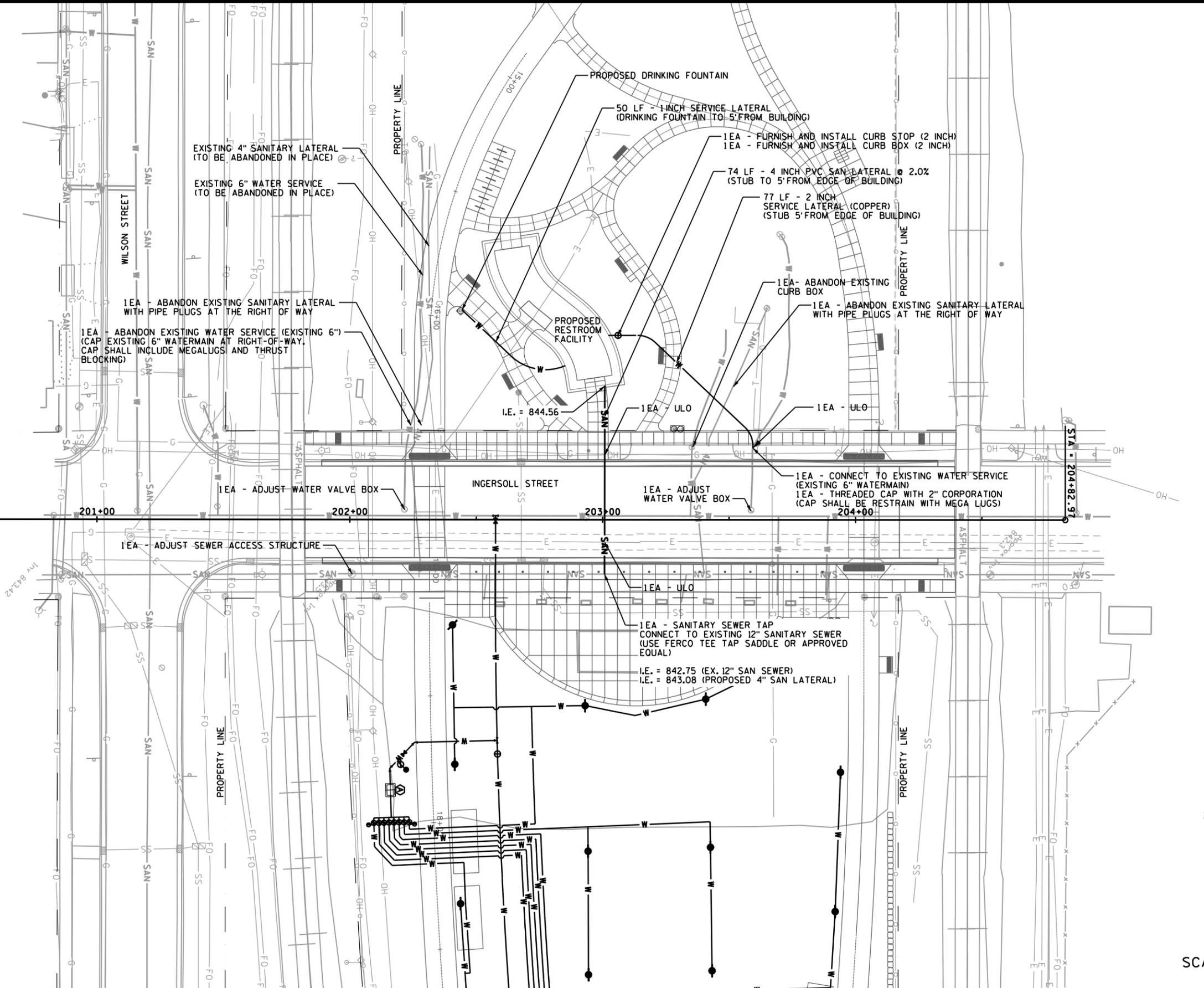
NOTES:

1. ALL STATION/OFFSETS AND NORTHING/EASTING ARE TO CENTER OF STRUCTURE.
2. PIPE LENGTHS ARE MEASURED CENTER-OF-STRUCTURE TO CENTER-OF-STRUCTURE UNLESS OTHERWISE NOTED. ENDWALLS ARE EXCLUDED FROM THE TOTAL PIPE LENGTHS.



SIT - 200+00.00

SIT - 204+82.91



EXISTING 4" SANITARY LATERAL
(TO BE ABANDONED IN PLACE)

EXISTING 6" WATER SERVICE
(TO BE ABANDONED IN PLACE)

1EA - ABANDON EXISTING SANITARY LATERAL
WITH PIPE PLUGS AT THE RIGHT OF WAY

1EA - ABANDON EXISTING WATER SERVICE (EXISTING 6")
(CAP EXISTING 6" WATERMAIN AT RIGHT-OF-WAY.
CAP SHALL INCLUDE MEGALUGS AND THRUST
BLOCKING)

1EA - ADJUST WATER VALVE BOX

1EA - ADJUST SEWER ACCESS STRUCTURE

PROPOSED DRINKING FOUNTAIN

50 LF - 1 INCH SERVICE LATERAL
(DRINKING FOUNTAIN TO 5' FROM BUILDING)

1EA - FURNISH AND INSTALL CURB STOP (2 INCH)
1EA - FURNISH AND INSTALL CURB BOX (2 INCH)

74 LF - 4 INCH PVC SAN LATERAL @ 2.0%
(STUB TO 5' FROM EDGE OF BUILDING)

77 LF - 2 INCH
SERVICE LATERAL (COPPER)
(STUB 5' FROM EDGE OF BUILDING)

PROPOSED RESTROOM FACILITY

I.E. = 844.56

1EA - ULO

1EA - ULO

1EA - CONNECT TO EXISTING WATER SERVICE
(EXISTING 6" WATERMAIN)
1EA - THREADED CAP WITH 2" CORPORATION
(CAP SHALL BE RESTRAIN WITH MEGA LUGS)

1EA - ADJUST
WATER VALVE BOX

1EA - ULO

1EA - SANITARY SEWER TAP
CONNECT TO EXISTING 12" SANITARY SEWER
(USE FERCO TEE TAP SADDLE OR APPROVED
EQUAL)

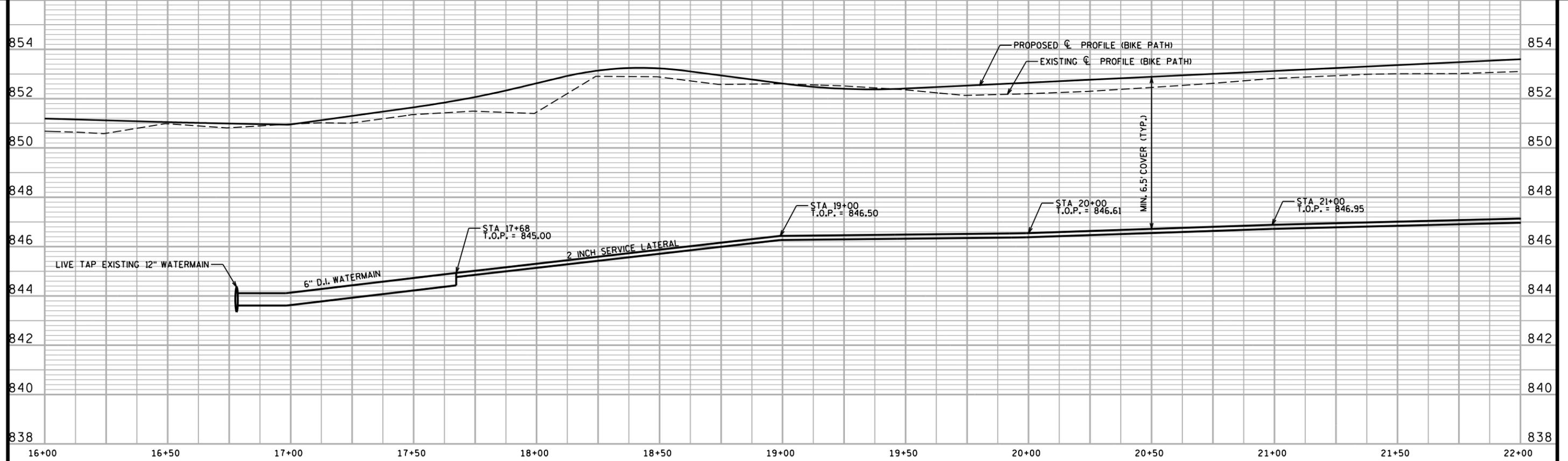
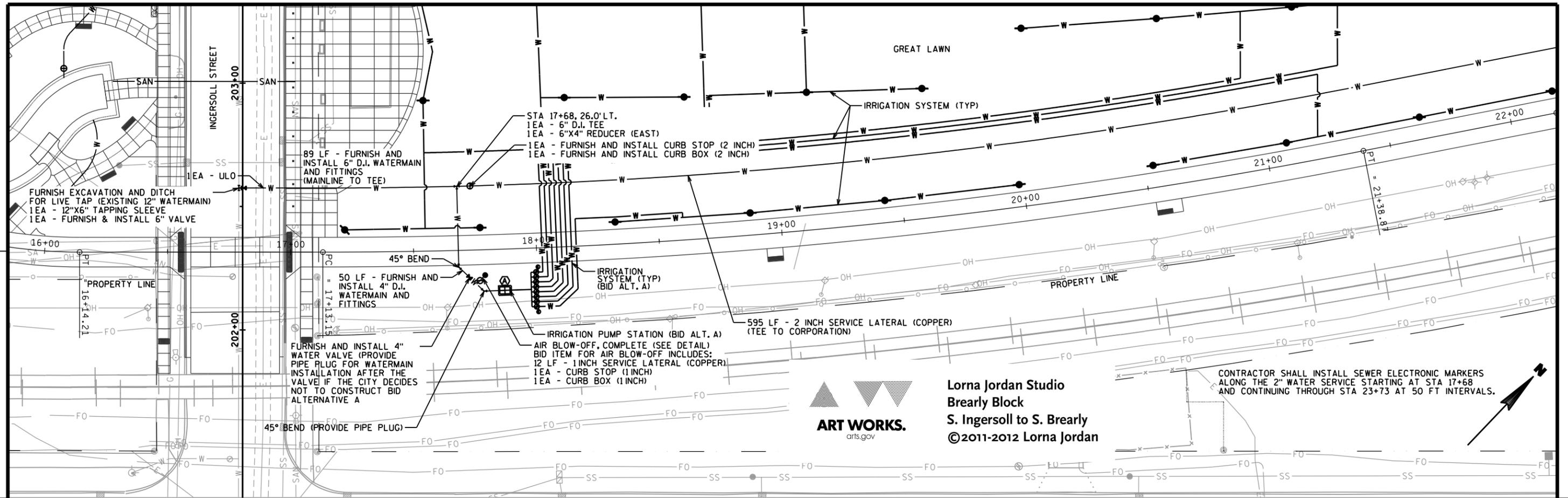
I.E. = 842.75 (EX. 12" SAN SEWER)

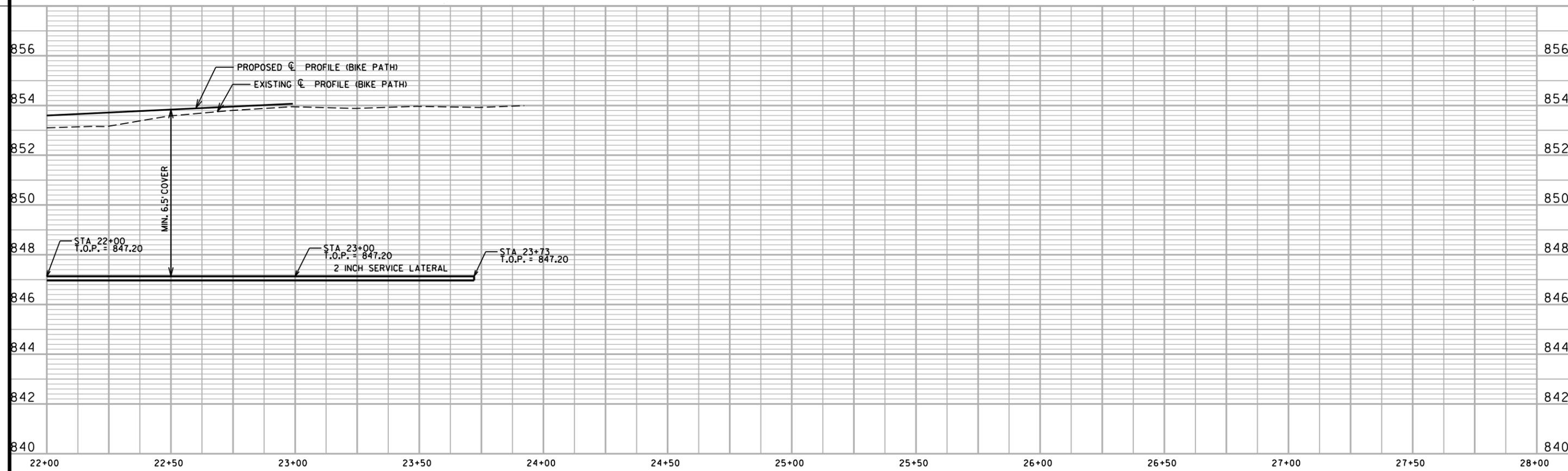
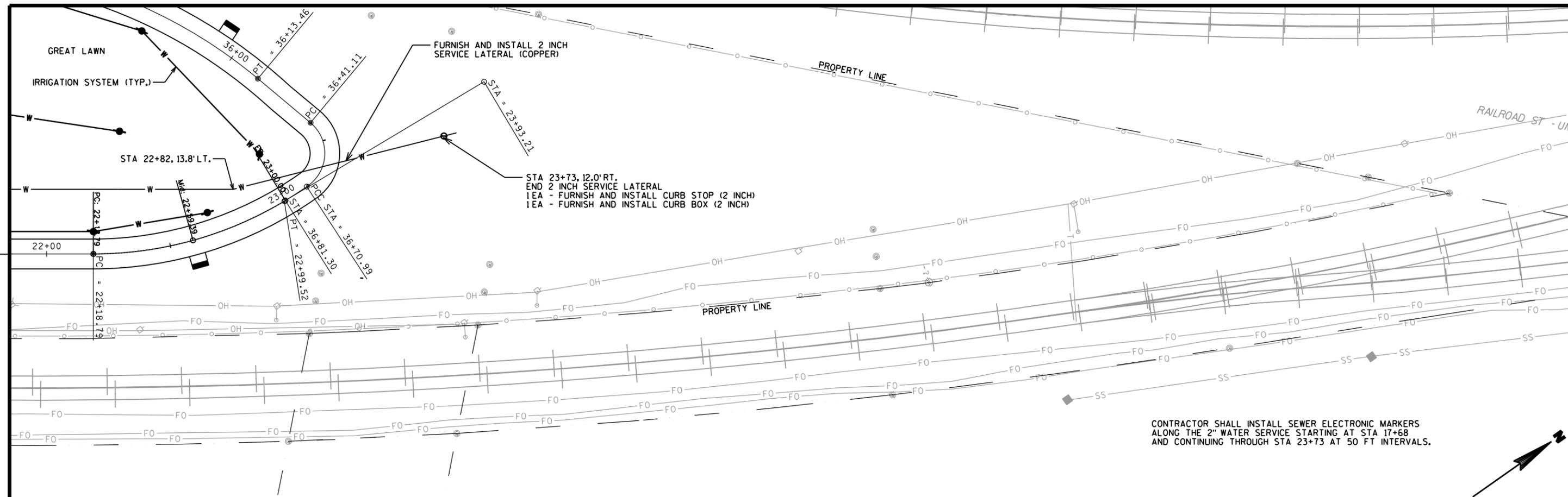
I.E. = 843.08 (PROPOSED 4" SAN LATERAL)

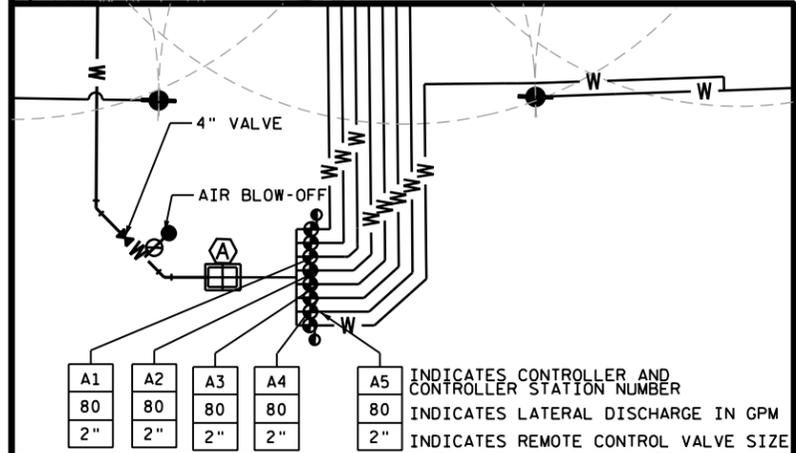
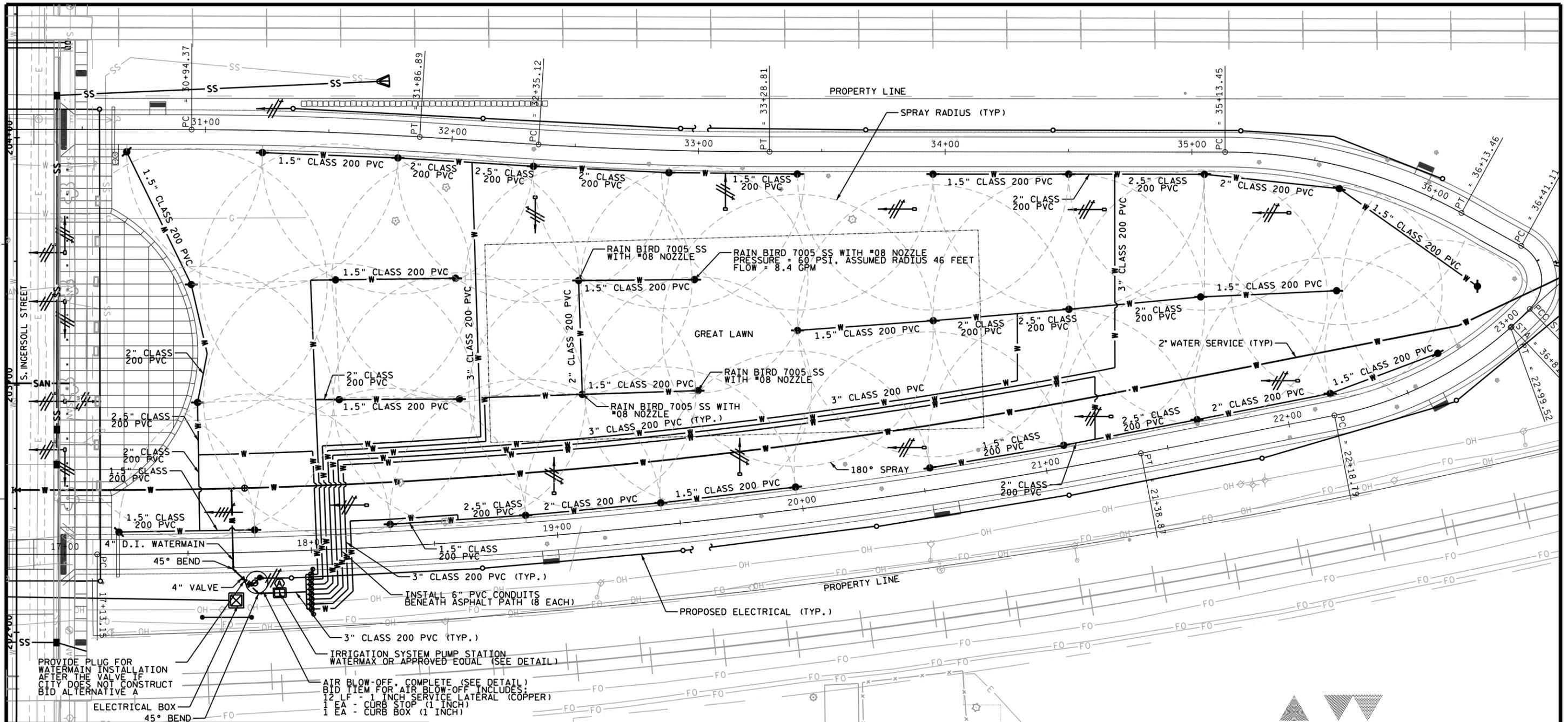


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Brearly Block
S. Ingersoll to S. Brearly
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SCALE, FEET 0 20 40







PROVIDE TWO IRRIGATION TURF BOXES:
 PENTER BOX: PART # 170101
 LOCKABLE LID: PART # 171117

IRRIGATION TURF BOX SHALL BE LOCATED TO AVOID LIGHTING ELECTRICAL AND ASPHALT PATH AND FLUSH WITH FINISH GRADE ELEVATION

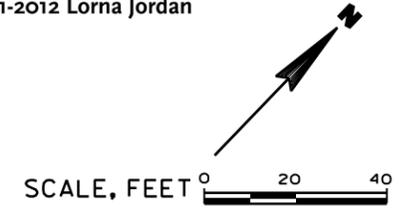
ALIGNMENT OF IRRIGATION PIPES ARE DIAGRAMATIC. CONTRACTOR SHALL TAKE CARE AS TO AVOID ALL UTILITY CONFLICTS

CONTRACTOR SHALL INSTALL SEWER ELECTRONIC MARKERS ALONG THE PVC IRRIGATION PIPES AT ALL BENDS, TEES, AND MAINLINE MARKED AT 50 FOOT INTERVALS.

- LEGEND**
- ✕ MAIN SHUT-OFF VALVE
 - RAIN BIRD PGA OR PEB REMOTE CONTROL VALVE (SIZED AS SHOWN)
 - RAIN BIRD 5LRC QUICK COUPLING VALVE
 - RAIN BIRD 8005 SS WITH #12 NOZZLE (UNLESS OTHERWISE NOTED) PRESSURE = 60 PSI, ASSUMED RADIUS = 55 FEET FLOW = 12 GPM
 - ⓐ HUNTER IC-600-PL IRRIGATION CONTROLLER WITH 6 STATIONS AND ICM-600 WITH 6 STATIONS MODULE (MOUNTED IN IRRIGATION PUMP STATION)
 - ☒ WATERMAX PUMP STATION (POWDER COAT BLACK) WITH RPZ BACKFLOW PREVENTER



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 Brearly Block
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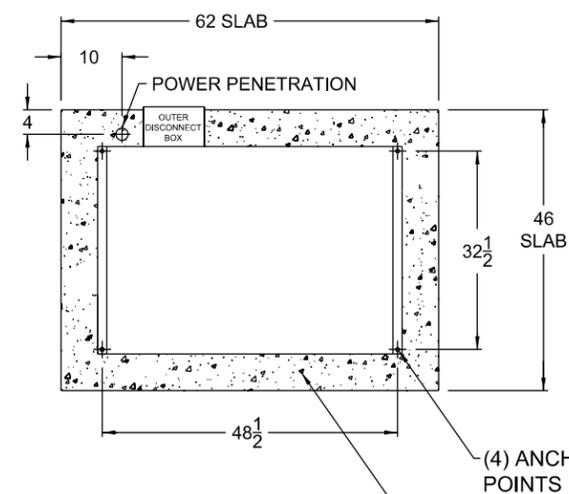
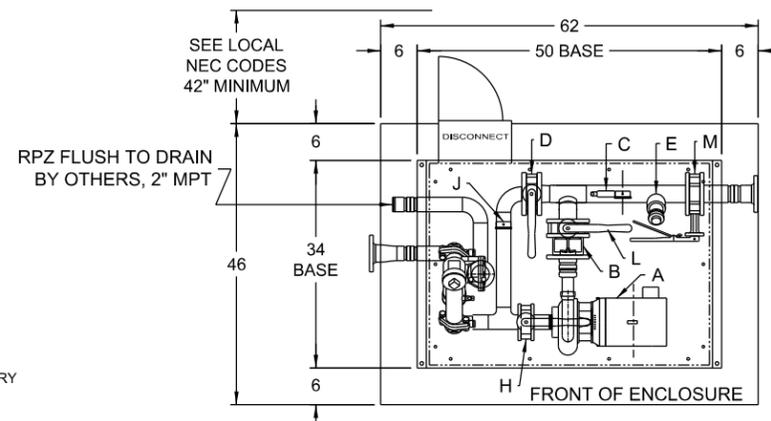
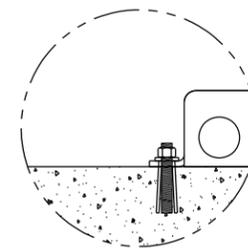
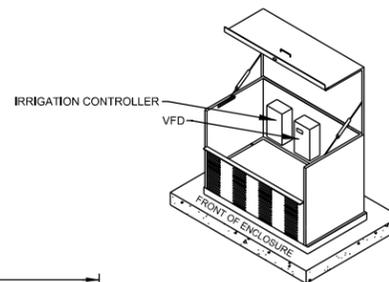
PUMP STATION SPECIFICATIONS:
 NAME: CENTRAL PARK
 STATION MODEL: WMBV-5000-2-5-208-3-80-35
 STATION TOTAL PERFORMANCE: 80 GPM @ 35 PSI BOOST
 REGULATE PRESSURE: 75 PSI
 DYNAMIC INLET PRESSURE: 40 PSI (AFTER RPZ)
 PRESSURE START
 PUMP HORSEPOWER:
 PUMP NO.1 5HP (3600RPM)
 CHECK VALVE SIZES:
 PUMP NO.1 3"
 ISOLATION VALVE SIZES:
 DISCHARGE ISOLATION VALVE SIZE: 3"
 DISCHARGE MANIFOLD SIZE: 3"
 EXHAUST FAN REQUIREMENTS: 240CFM

POWER REQUIREMENTS: 208 V, 60 HZ, 3 PHZ, 25 FLA
 PUMP STATION DISCONNECT: 30 AMP

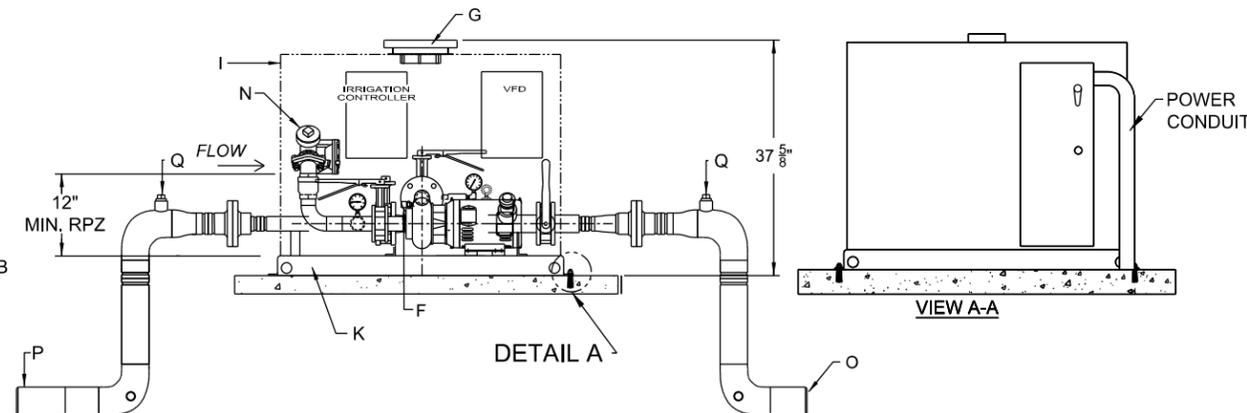
STATION COMPONENTS:
 A PUMP AND MOTOR
 B CHECK VALVE
 C PRESSURE TRANSDUCER WITH GAUGE
 D BYPASS VALVE
 E FLOW SENSOR
 F TEMP SENSOR
 G STATION FAN HOOD MOUNTED
 H PUMP INTAKE ISOLATION VALVE
 I PAINTED STEEL ENCLOSURE (BLACK)
 J PSI/VAC GAUGE LIQUID FILLED
 K PAINTED STEEL BASE (BLACK)
 L PUMP DISCHARGE ISOLATION VALVE
 M STATION DISCHARGE ISOLATION VALVE
 N RPZ FEBCO MODEL 825YA-2"
 O DISCHARGE DROP PIPE WITH 3" CONNECTION - 36" BURY
 P INTAKE DROP PIPE WITH 4" CONNECTION - 78" BURY
 Q 1" BLOWOUT FITTING

BOOSTER STATION BY WATERTRONICS
 OR APPROVED EQUAL

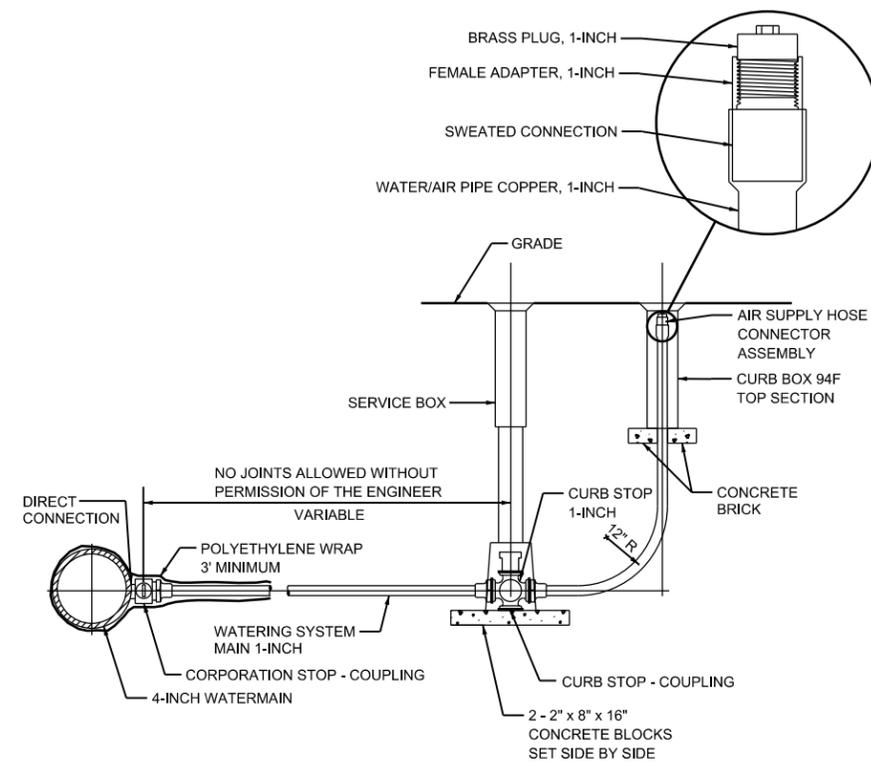
PROVIDE 14 / 1 POLYETHYLENE JACKETED WIRE FOR CONTROL
 AND 12 / 1 POYETHYLENE JACKETED WIRE FOR THE COMMON



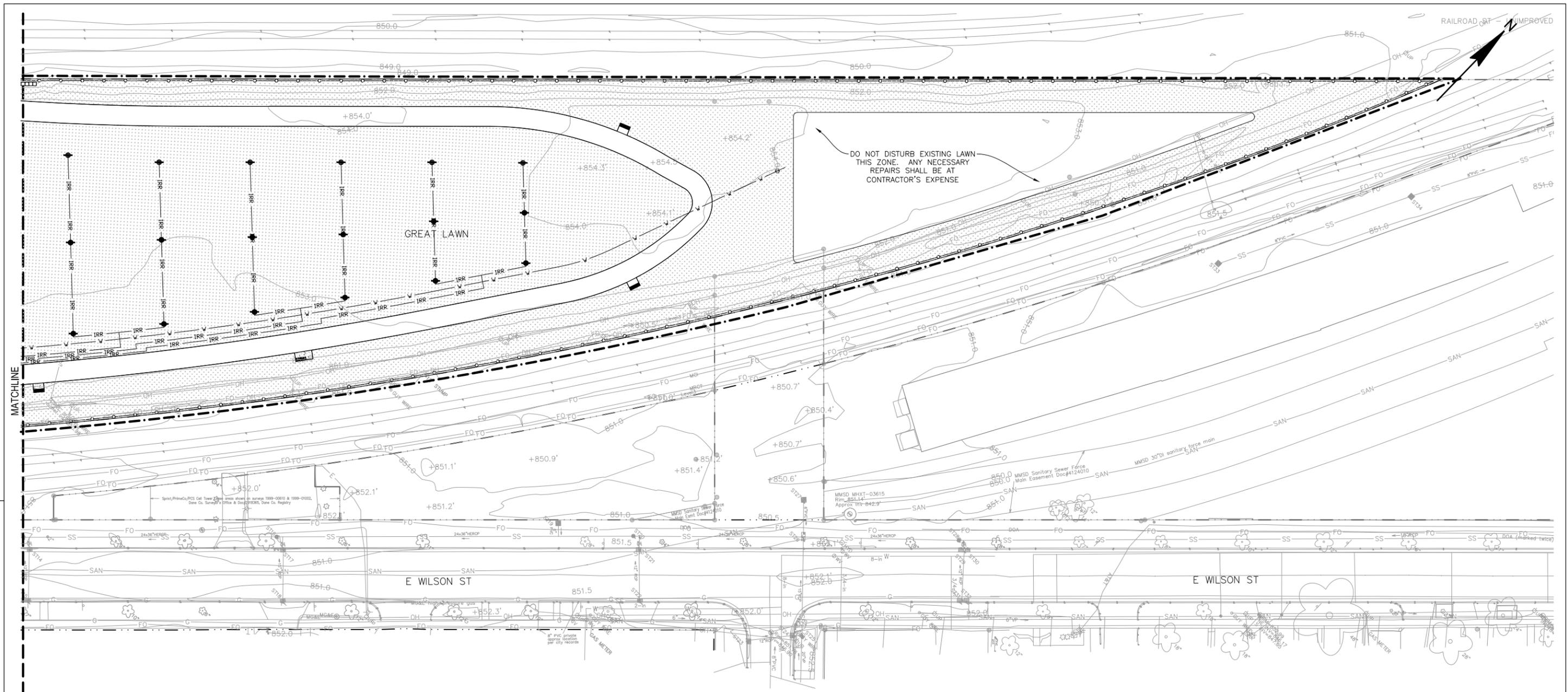
MIN. 4" CONCRETE OVER
 6" CRUSHED AGGREGATE
 BASE COURSE



IRRIGATION PUMP STATION - BID ALTERNATE A
 SCALE: NONE



AIR BLOW-OFF DETAIL - BID ALTERNATE A
 SCALE: NONE

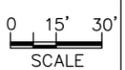


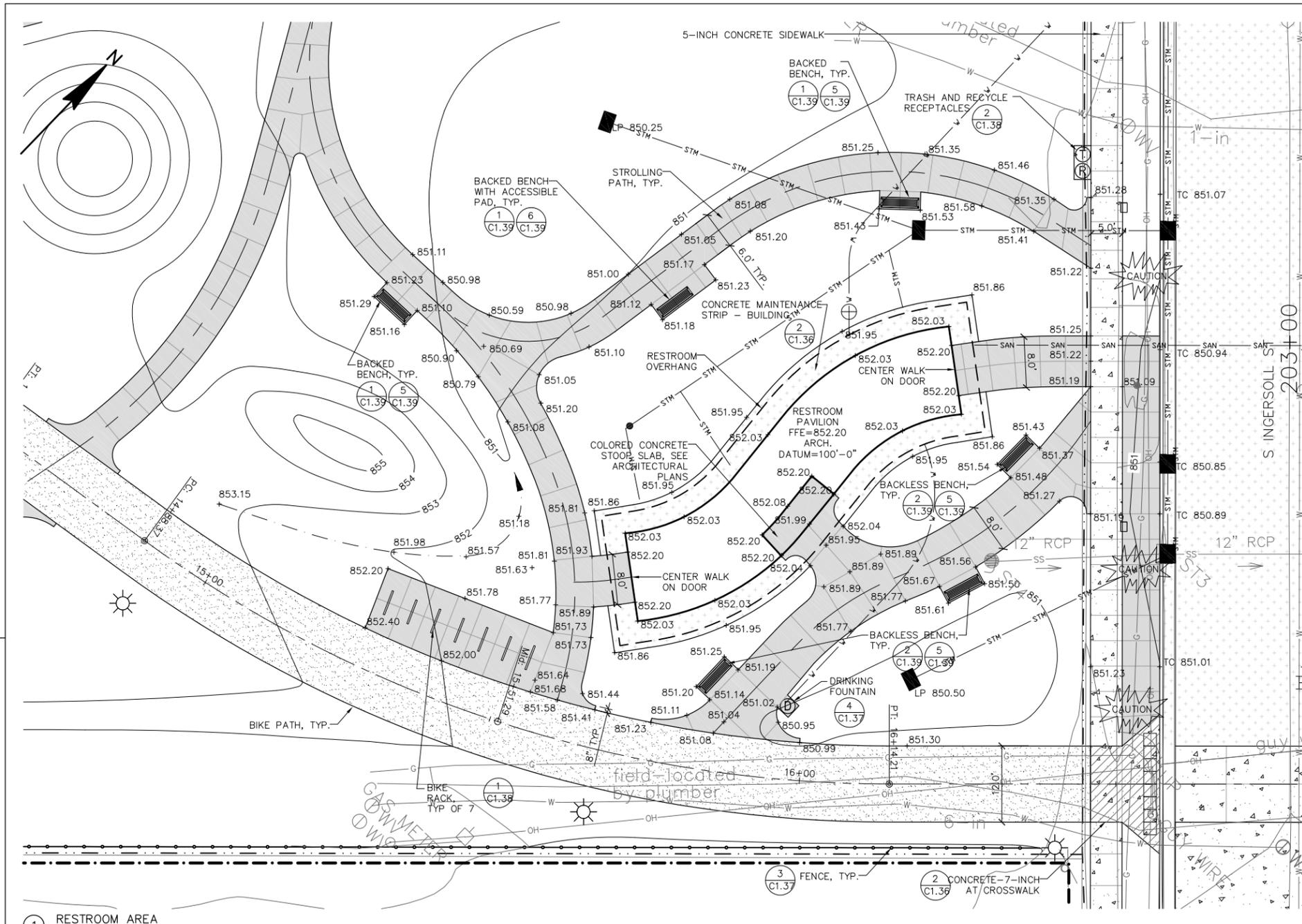
- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - ▨ CITY OF MADISON STANDARD SUN TERRACE LAWN SEED MIX
 - ▨ CITY OF MADISON STANDARD INFILTRATION SEED MIX
 - STM — PROPOSED STORM SEWER
 - PROPOSED STORM STRUCTURE
 - SAN — PROPOSED SANITARY SEWER
 - W — PROPOSED WATER SERVICE
 - IRR — PROPOSED IRRIGATION SYSTEM
 - * PEDESTRIAN LIGHT

- NOTES**
1. THE PROJECT LIMITS ARE FOR DISPLAY PURPOSES ONLY. THE ACTUAL PROJECT LIMITS ARE WITHIN THE PROPERTY LINE BOUNDARIES.
 2. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AND APPROPRIATE UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO ANY CONSTRUCTION.
 3. SEED PLACEMENT SHALL EXTEND TO LIMITS OF CONSTRUCTION DISTURBANCE, INCLUDING REPAIR AS NECESSARY DUE TO FENCE INSTALLATION.
 4. DO NOT DISTURB EXISTING VEGETATION OUTSIDE PROJECT LIMITS. ANY DISTURBANCE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.



Know what's below.
Call before you dig.





LEGEND

- PROJECT LIMITS
- PROPERTY LINE
- STANDARD CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT, INTEGRAL COLOR WITH TEXTURE
- CONCRETE PAVEMENT, INTEGRAL COLOR
- LIGHT POLE
- PICNIC TABLE
- CONCRETE CURB AND GUTTER
- BENCH
- DRINKING FOUNTAIN (4) C1.37
- TRASH RECEPTACLE (2) C1.38
- RECYCLE RECEPTACLE (2) C1.38
- BOLLARD
- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURE
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE

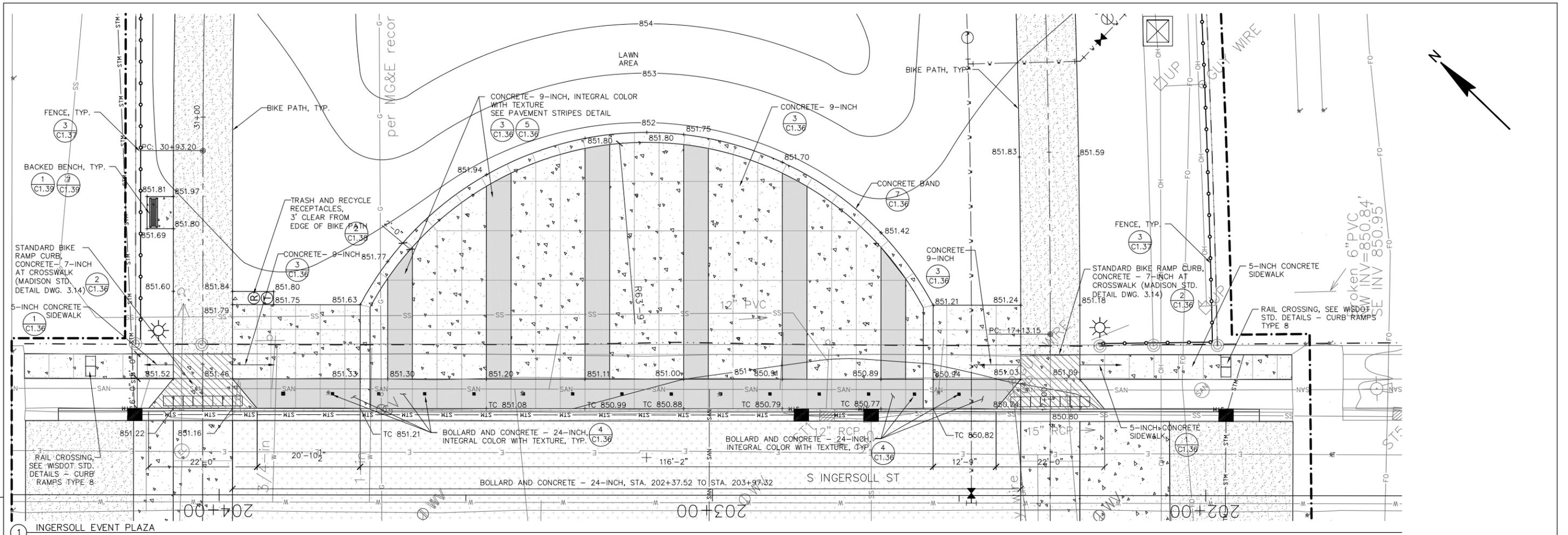
- NOTES**
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 3. CONSTRUCTION LAYOUT/STAKING SHALL BE PROVIDED BY THE CITY OF MADISON.
 4. HORIZONTAL DATUM IS DANE COUNTY COORDINATES, U.S. SURVEY FEET, NAD83(2007).
 5. VERTICAL DATUM IS NAVD88, PRE-2007 ADJUSTMENT.


ART WORKS.
 arts.gov

Lorna Jordan Studio
Brearily Block
S. Ingersoll to S. Brearily
 ©2011-2012 Lorna Jordan


811
 Know what's below.
 Call before you dig.


 SCALE
 0 5' 10'

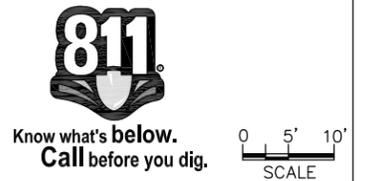


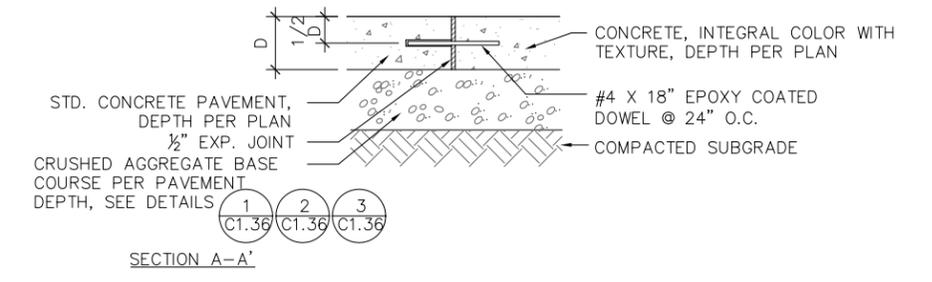
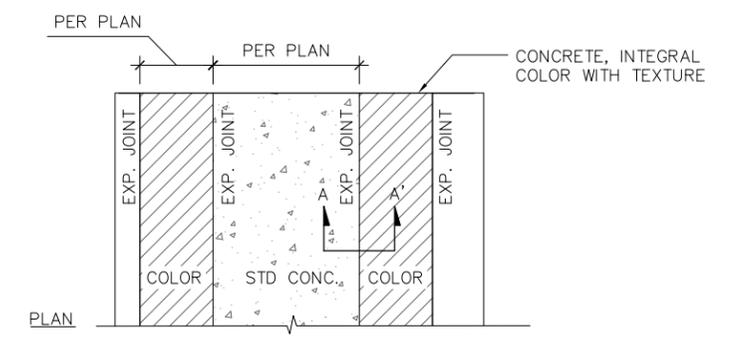
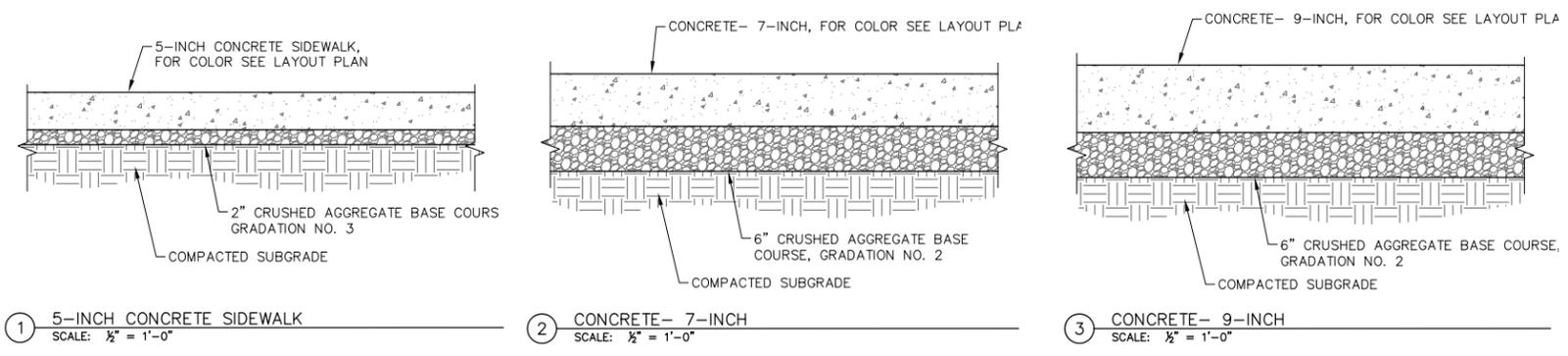
- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - STANDARD CONCRETE PAVEMENT
 - ASPHALT PAVEMENT
 - CONCRETE PAVEMENT, INTEGRAL COLOR WITH TEXTURE
 - CONCRETE PAVEMENT, INTEGRAL COLOR
 - LIGHT POLE
 - PICNIC TABLE
 - CONCRETE CURB AND GUTTER
 - BENCH
 - DRINKING FOUNTAIN (4) (C1.37)
 - TRASH RECEPTACLE (2) (C1.39)
 - RECYCLE RECEPTACLE (2) (C1.39)
 - BOLLARD

- PROPOSED STORM SEWER
- PROPOSED STORM STRUCTURE
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE

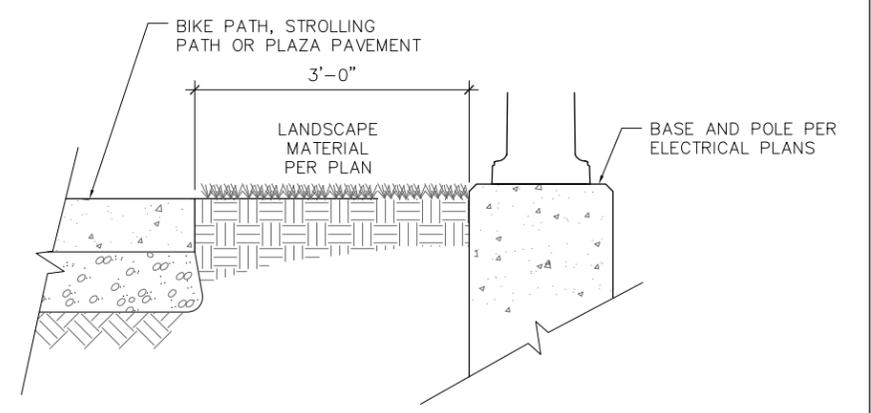


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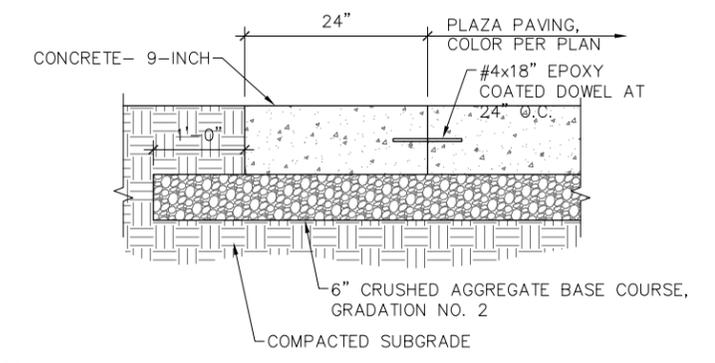




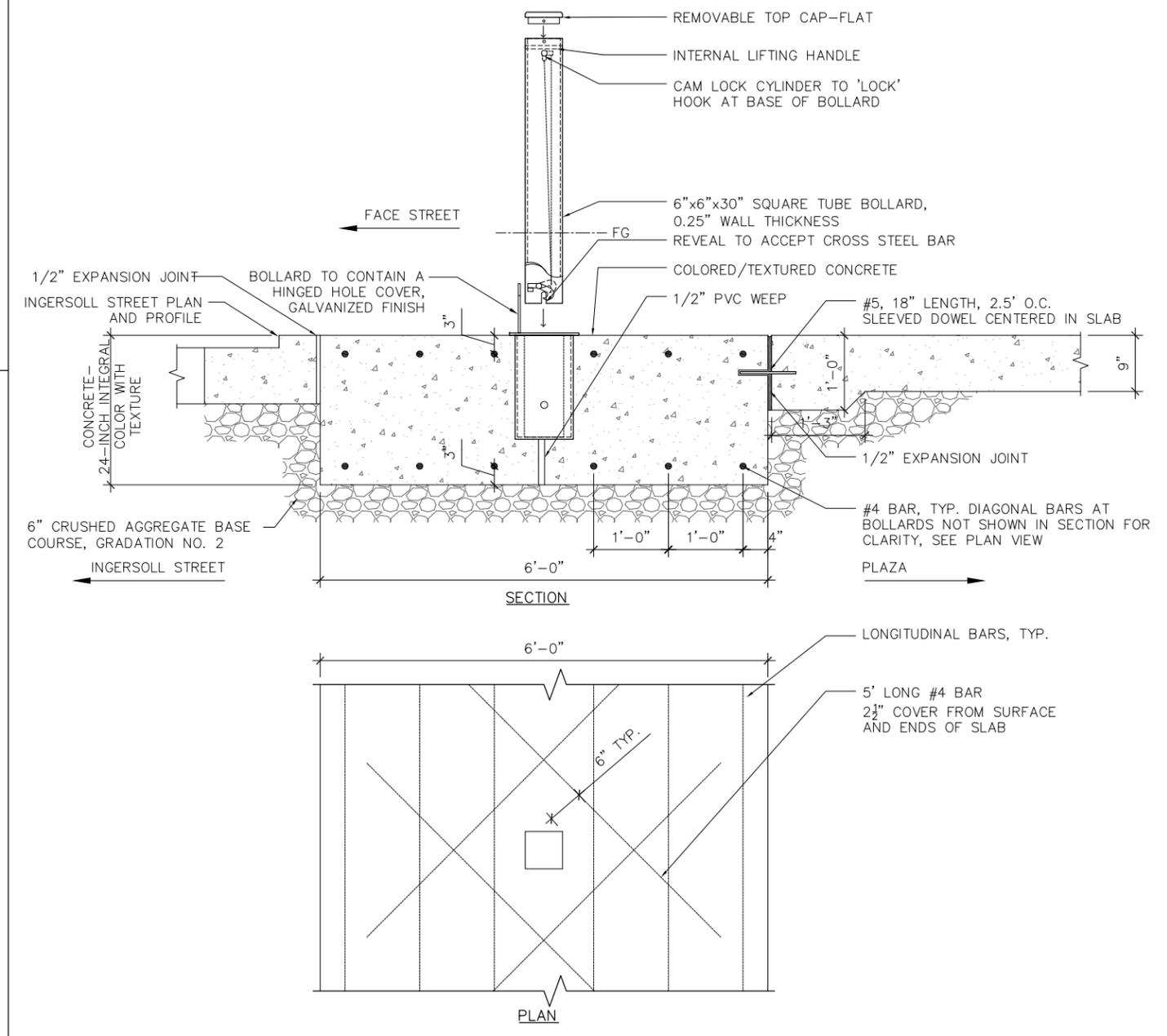
⑤ PAVEMENT STRIPES
SCALE: NTS



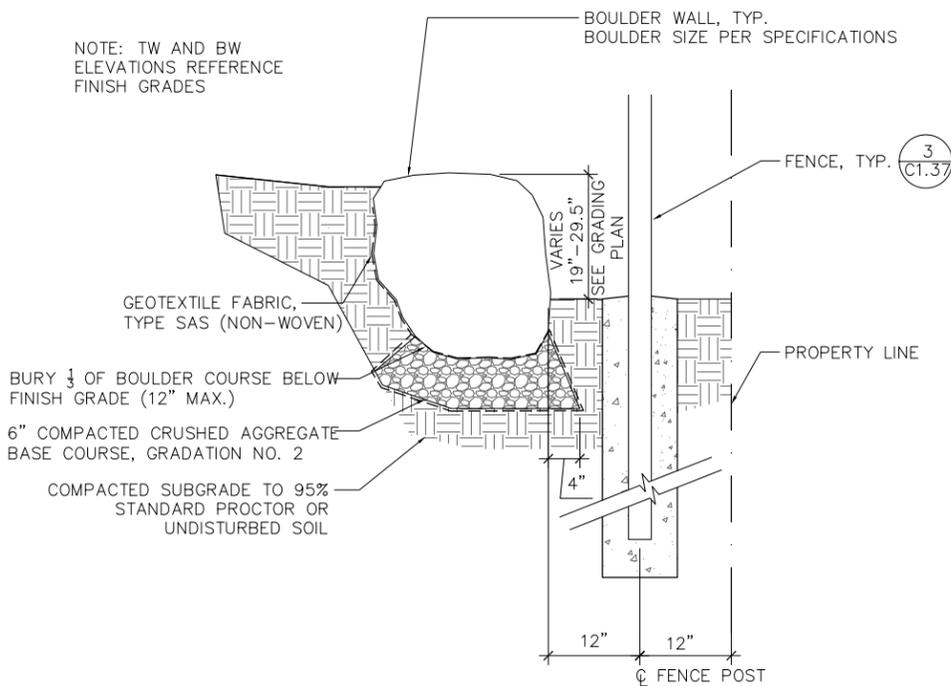
⑥ LIGHT POLE OFFSET
SCALE: 1/2" = 1'-0"



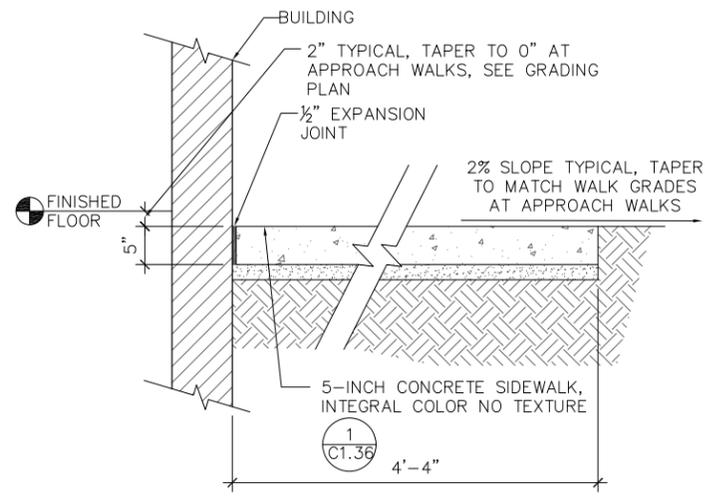
⑦ CONCRETE BAND
SCALE: 1/2" = 1'-0"



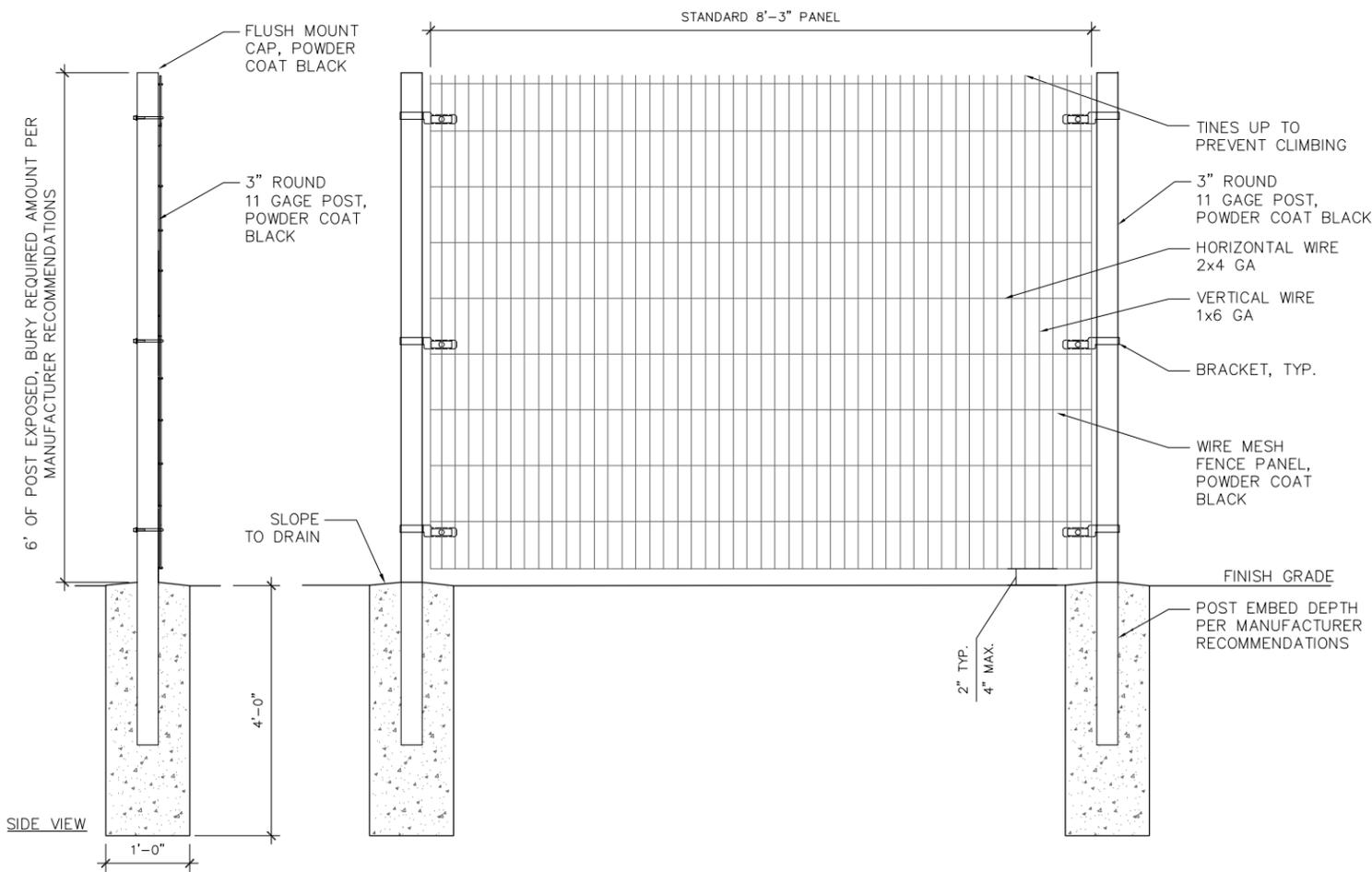
④ REMOVABLE BOLLARD AND CONCRETE- 24-INCH INTEGRAL COLOR WITH TEXTURE, STA. 202+37.52 TO STA. 203+97.32
SCALE: 1/2" = 1'-0"



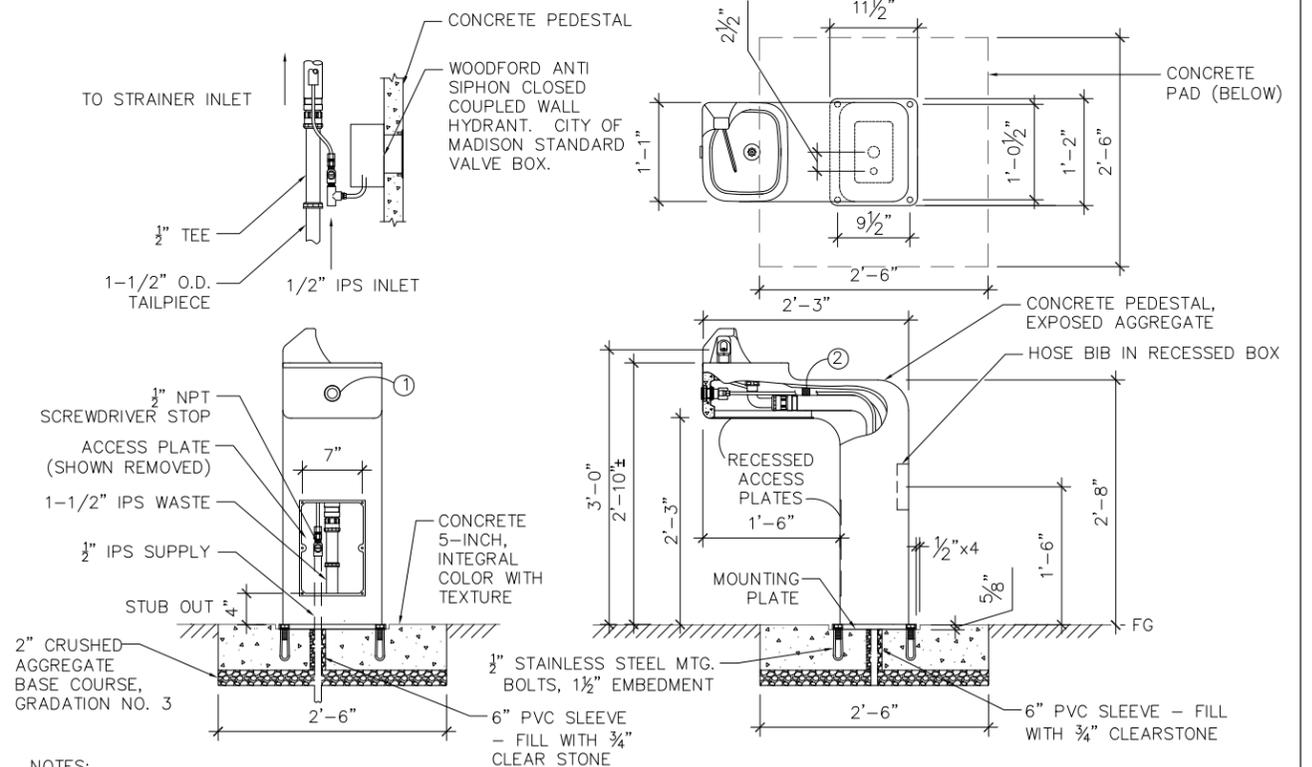
1 BOULDER WALL
SCALE: 1/2" = 1'-0"



2 CONCRETE MAINTENANCE STRIP - BUILDING
SCALE: 1/2" = 1'-0"



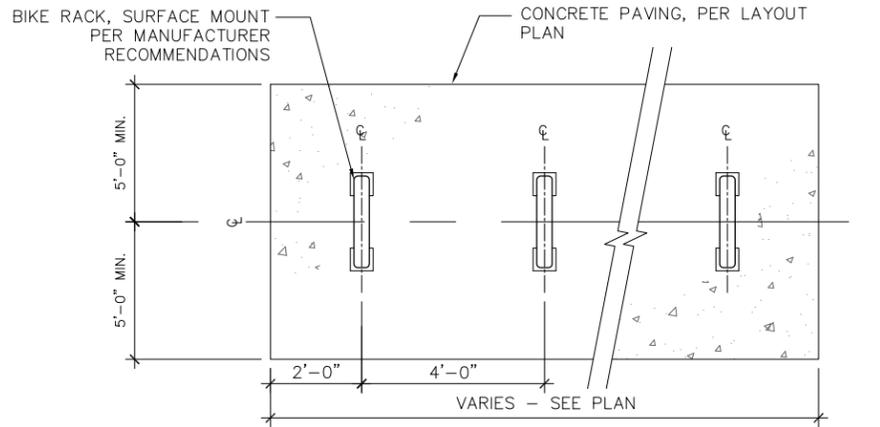
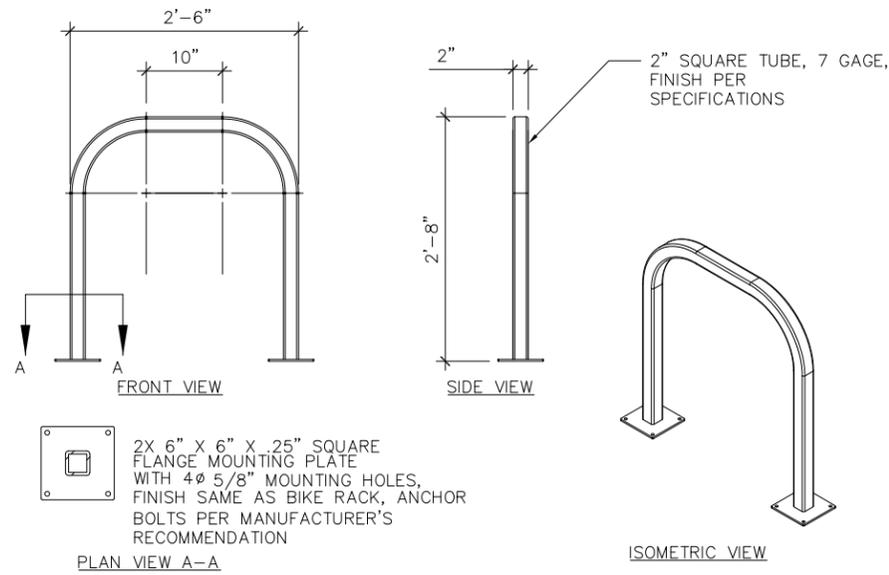
3 FENCE PANEL
SCALE: NTS



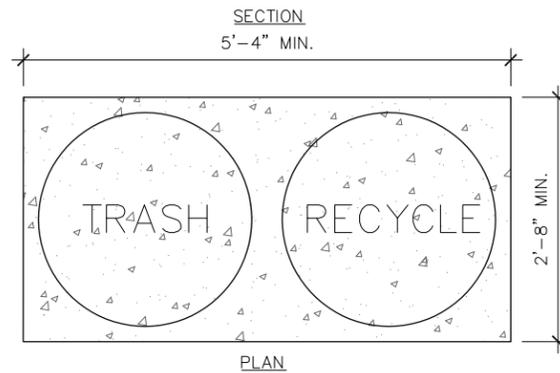
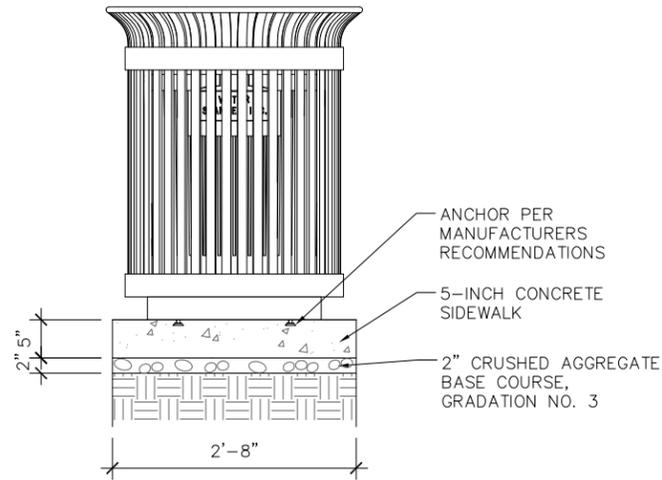
NOTES:

- REFER TO MAINTENANCE AND MANUAL FOR PUSH BUTTON AND VALVE INSTALLATION/MAINTENANCE INSTRUCTIONS
- SPACER IS GLUED TO WALL OF PEDESTAL, BUT MAY BE KNOCKED OFF DURING WASTE ARM ASSEMBLY REMOVAL/REPAIR, ENSURE THAT SPACER IS REPLACED TO KEEP HOSE AND WASTER ARM ALIGNED PROPERLY.
- WALL HYDRANT SHALL BE WOODFORD B74 WITH ANTI-SIPHON VACUUM BREAKER OR APPROVED EQUAL. 1/2" INLET AND OUTLET. STAINLESS STEEL STEM. PACKING NUT SECURED WITH LOCKING NUT. PERMANENT TYPE VALVE BODY WITH LARGE HEMISPHERICAL SEATING SURFACE. EXTERIOR FINISH TO BE CHROME PLATED. PROVIDE LOOSE TEE KEY TO OWNER.
- SEE UTILITY PLANS FOR WATER SUPPLY.

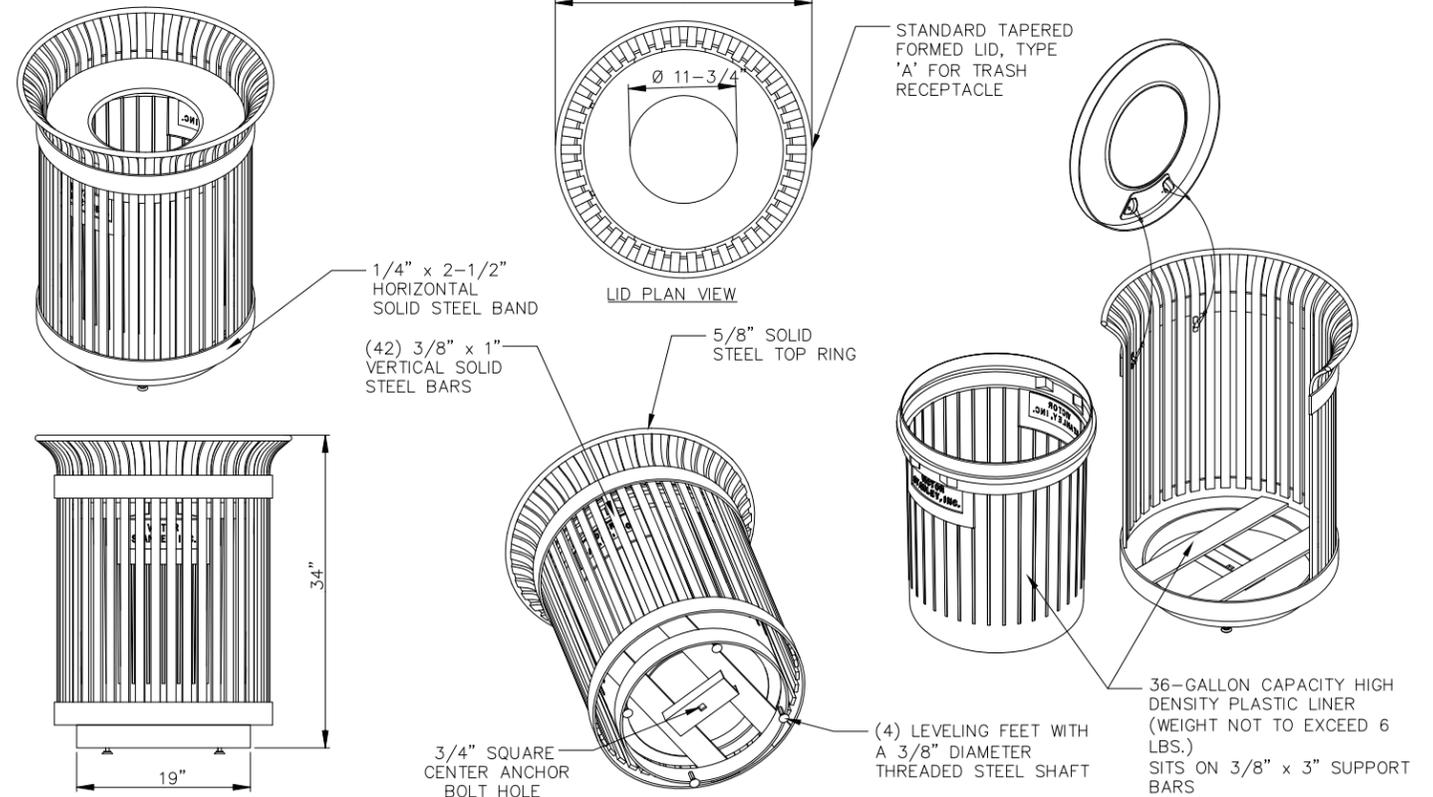
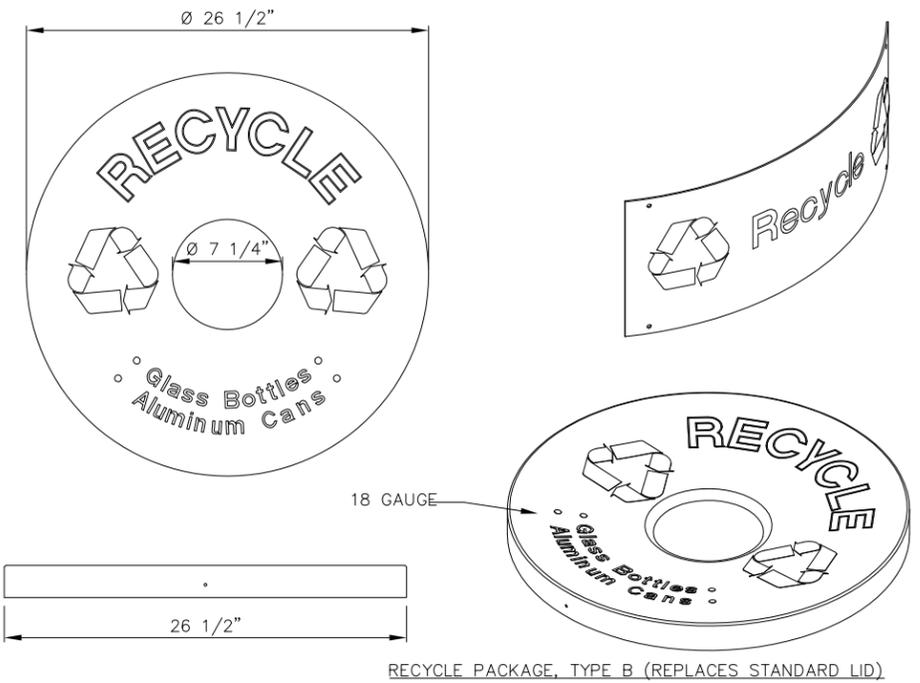
4 DRINKING FOUNTAIN
SCALE: NTS



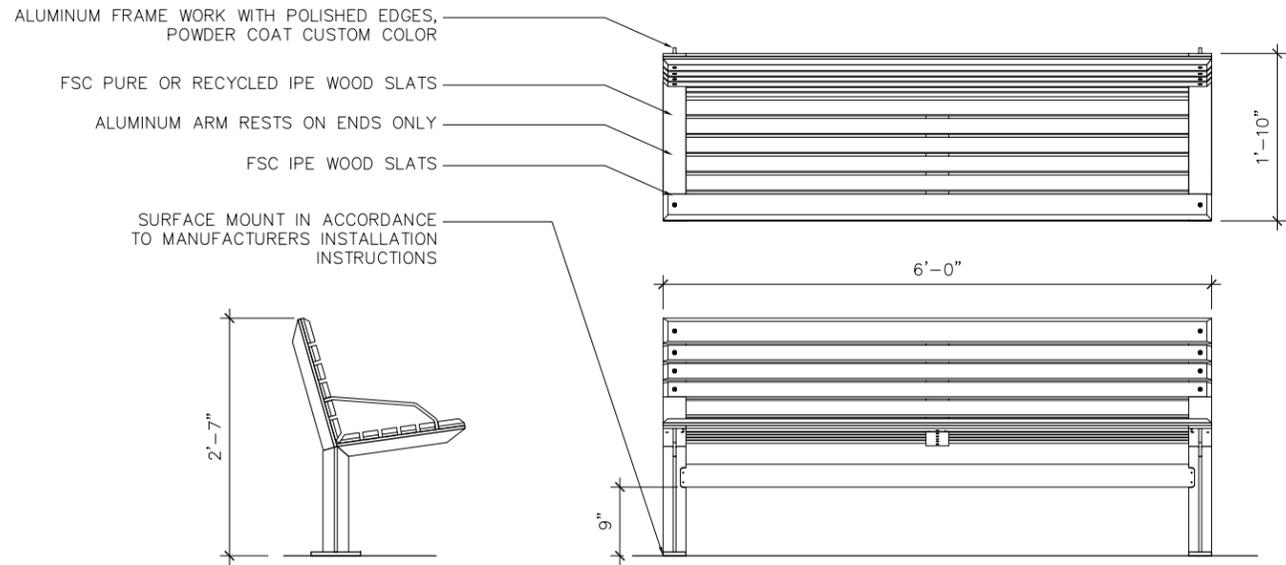
1 BIKE RACK
SCALE: NTS



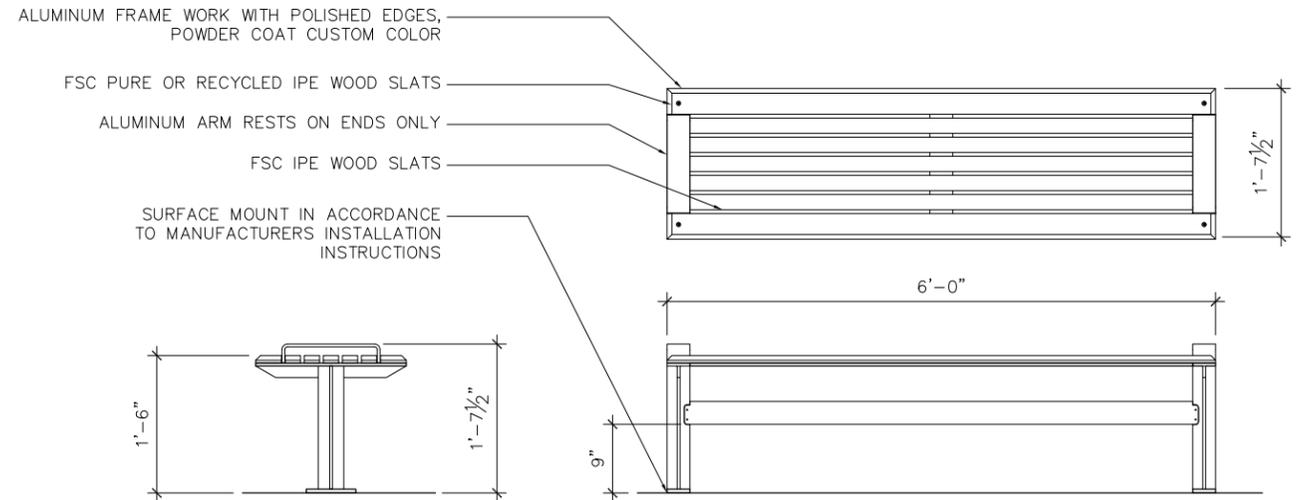
- NOTES:
- REFER TO PLANS FOR LOCATIONS OF TYPE 'A' & 'B' RECEPTACLES. TYPE 'A' IS TRASH RECEPTACLE AND TYPE 'B' IS RECYCLE RECEPTACLE.
 - POWDER COAT ENTIRE ASSEMBLY INSIDE AND OUT WITH COLOR PER SPECIFICATIONS.
 - LID IS SECURED WITH VINYL COATED GALVANIZED STEEL AIRCRAFT CABLE. CABLE IS LOOPED AROUND WELDED IN PLACE ATTACHMENT BRACKETS AND CRIMPED IN PLACE.



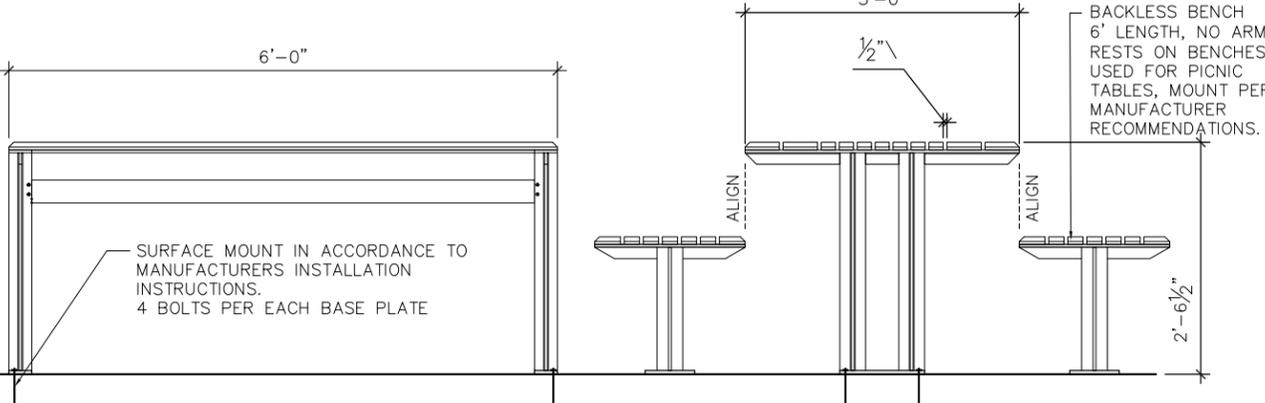
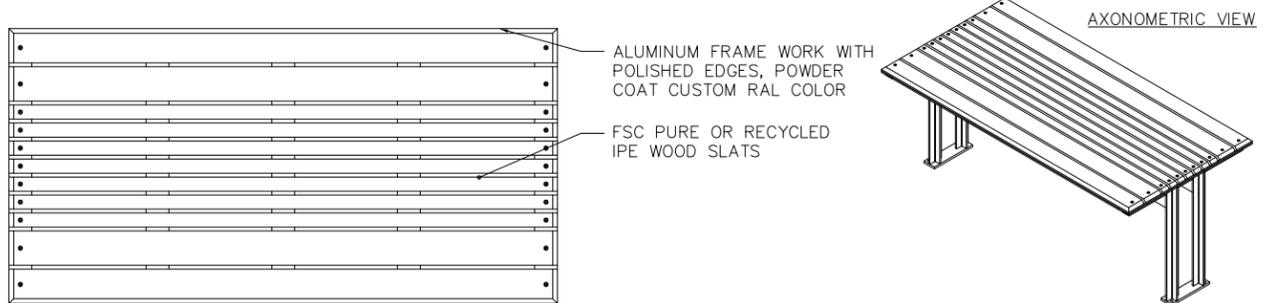
2 RECEPTACLE, TYPE A & B
SCALE: NTS



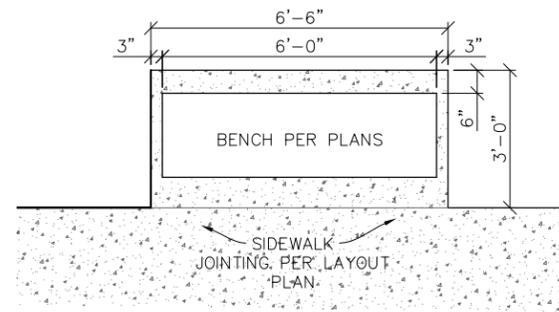
1 BACKED BENCH
SCALE: 1/2" = 1'-0"



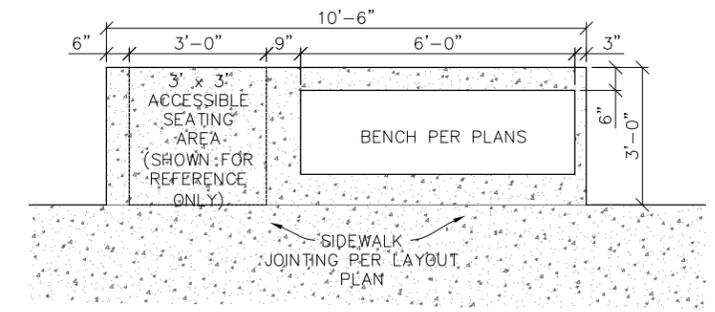
2 BACKLESS BENCH
SCALE: 1/2" = 1'-0"



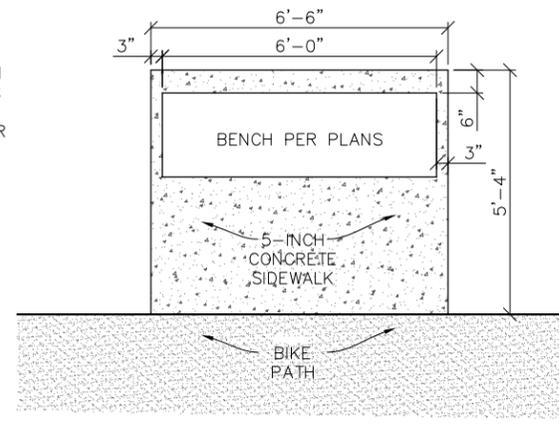
3 PICNIC TABLE
SCALE: NTS



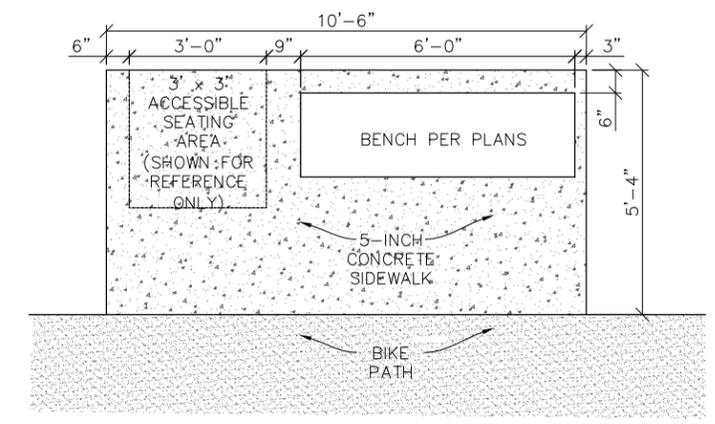
5 STANDARD BENCH PAD LAYOUT
SCALE: 1/4" = 1'-0"



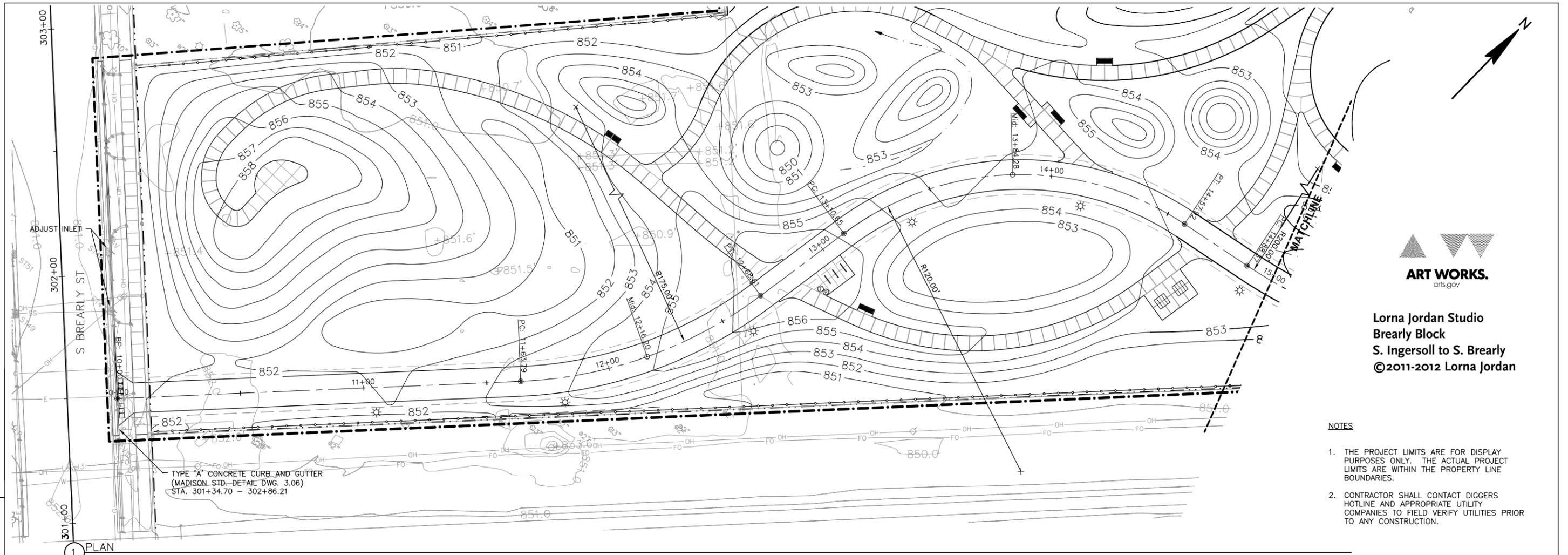
6 ACCESSIBLE BENCH PAD LAYOUT
SCALE: 1/4" = 1'-0"



7 GREAT LAWN BENCH PAD LAYOUT
SCALE: 1/4" = 1'-0"



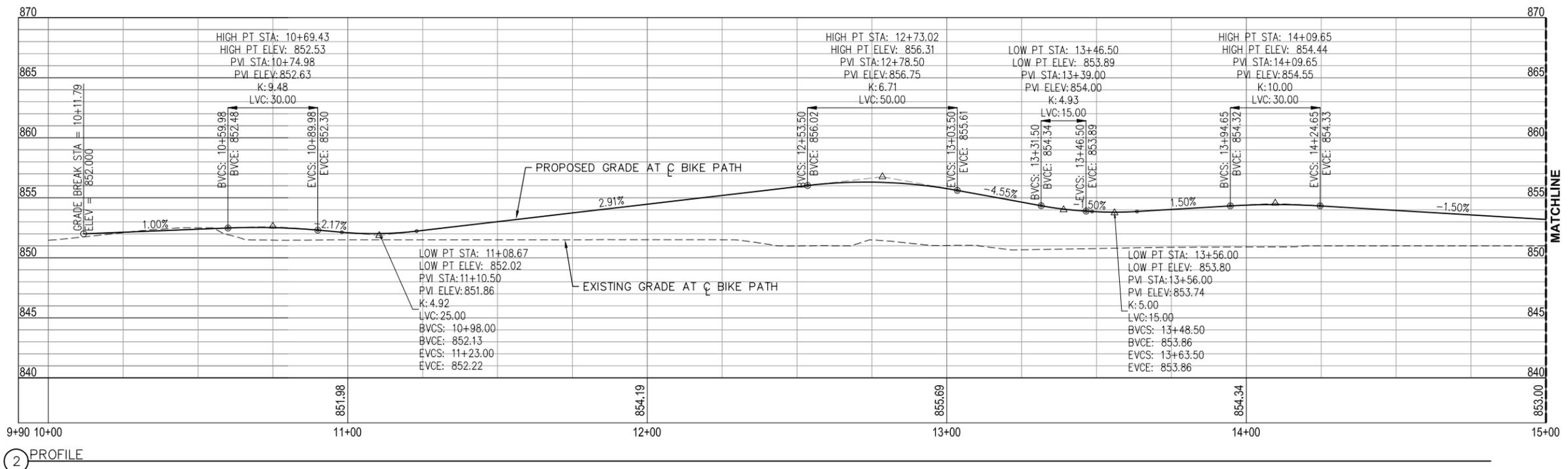
8 GREAT LAWN ACCESSIBLE BENCH PAD LAYOUT
SCALE: 1/4" = 1'-0"



Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan

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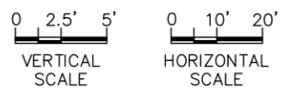
1 PLAN

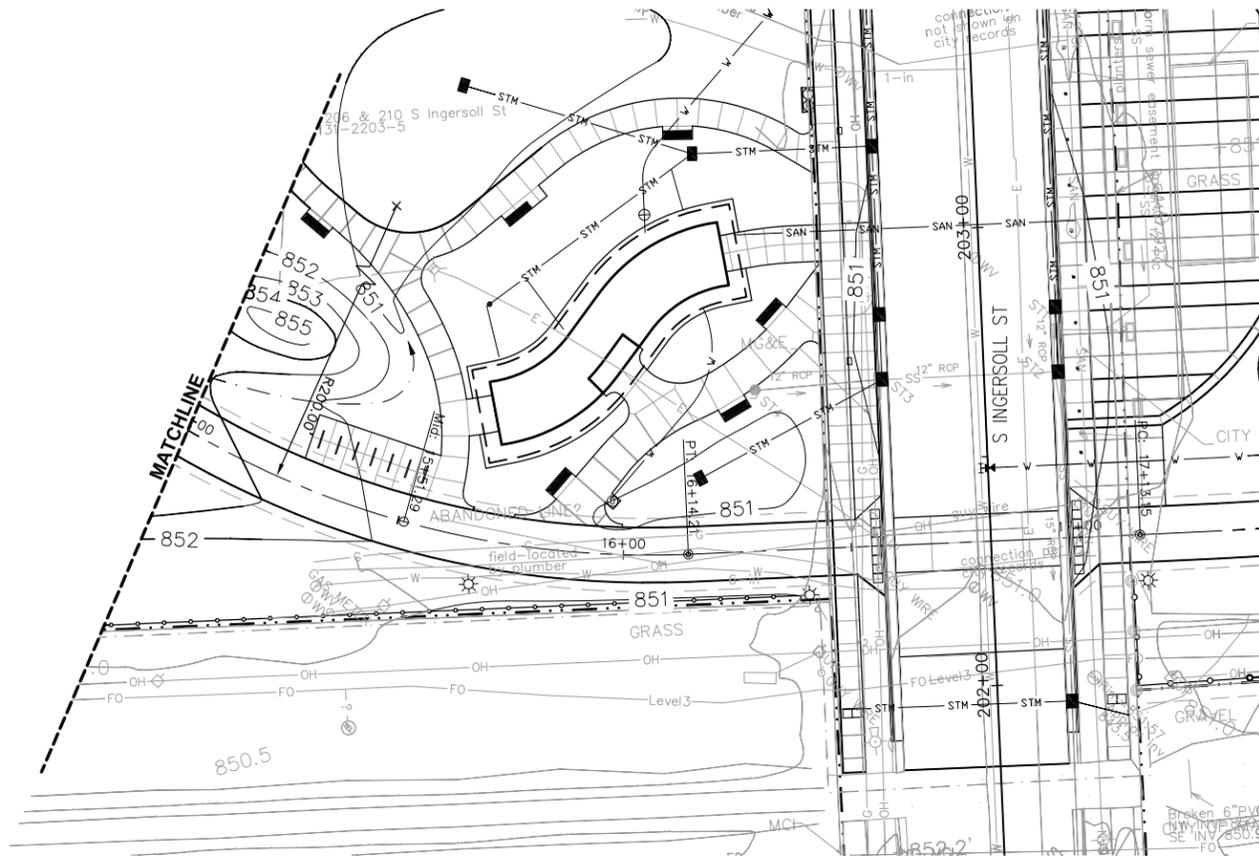


2 PROFILE



Know what's below.
 Call before you dig.

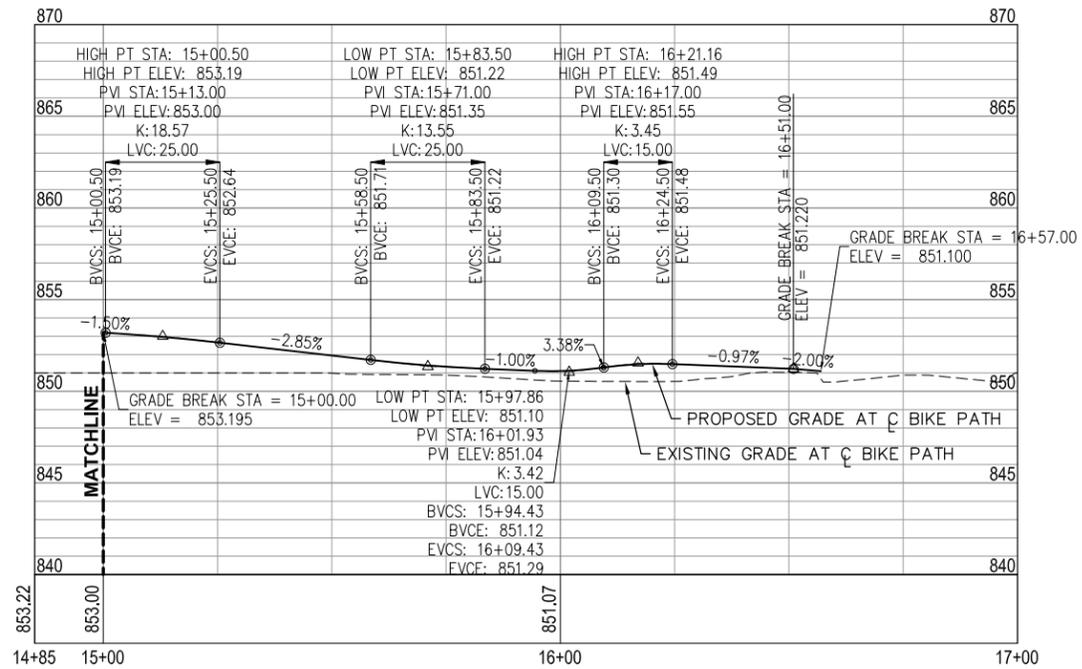




1 PLAN

NOTES

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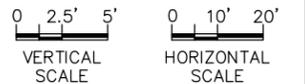
2 PROFILE

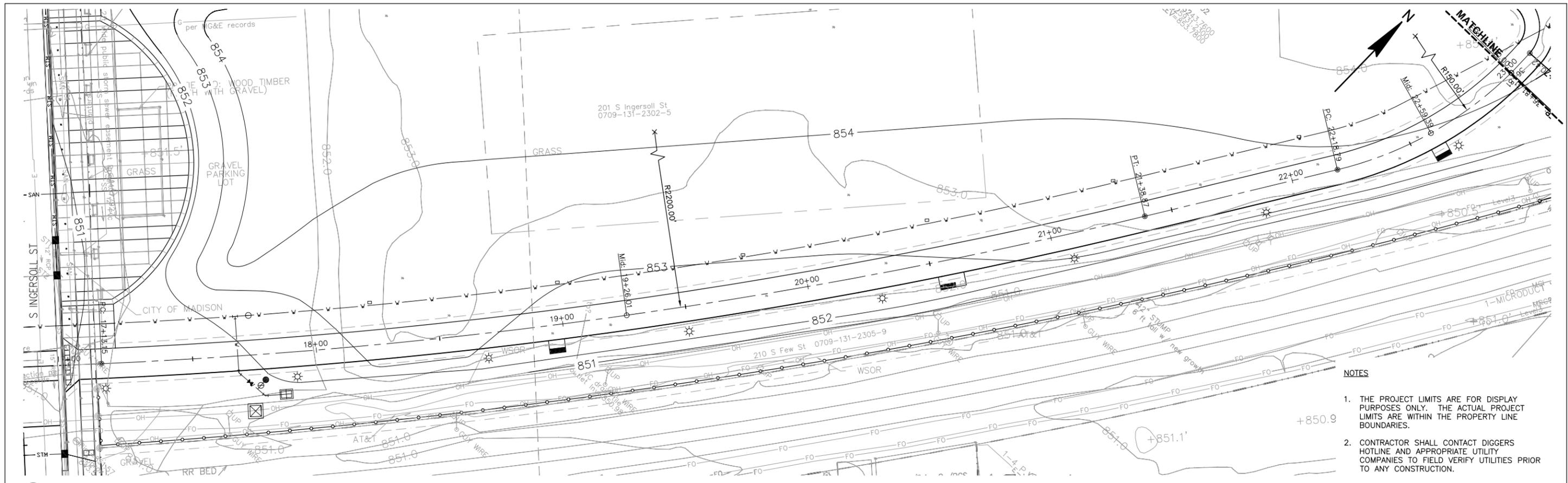


Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan

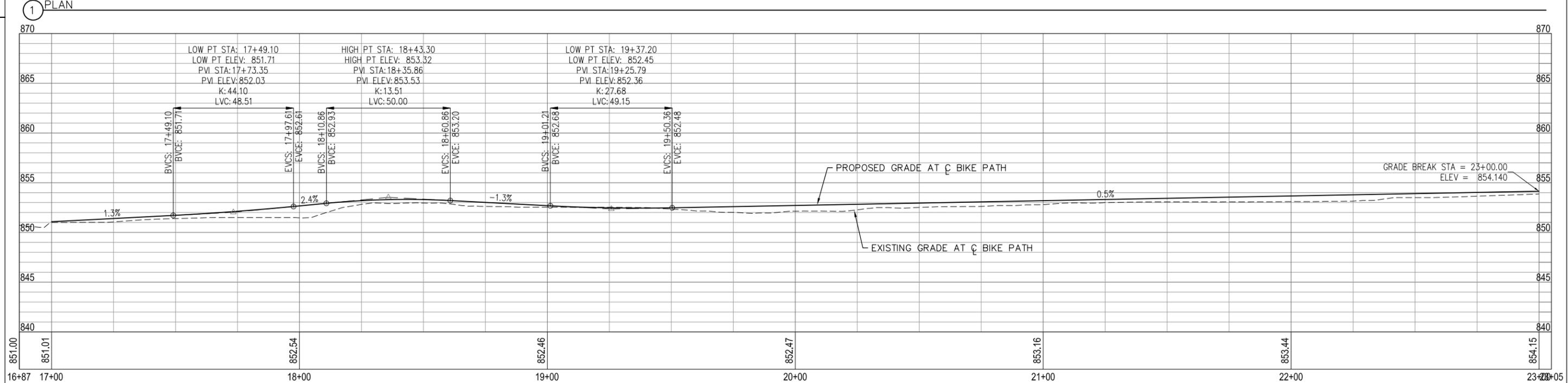


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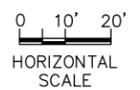
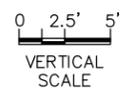




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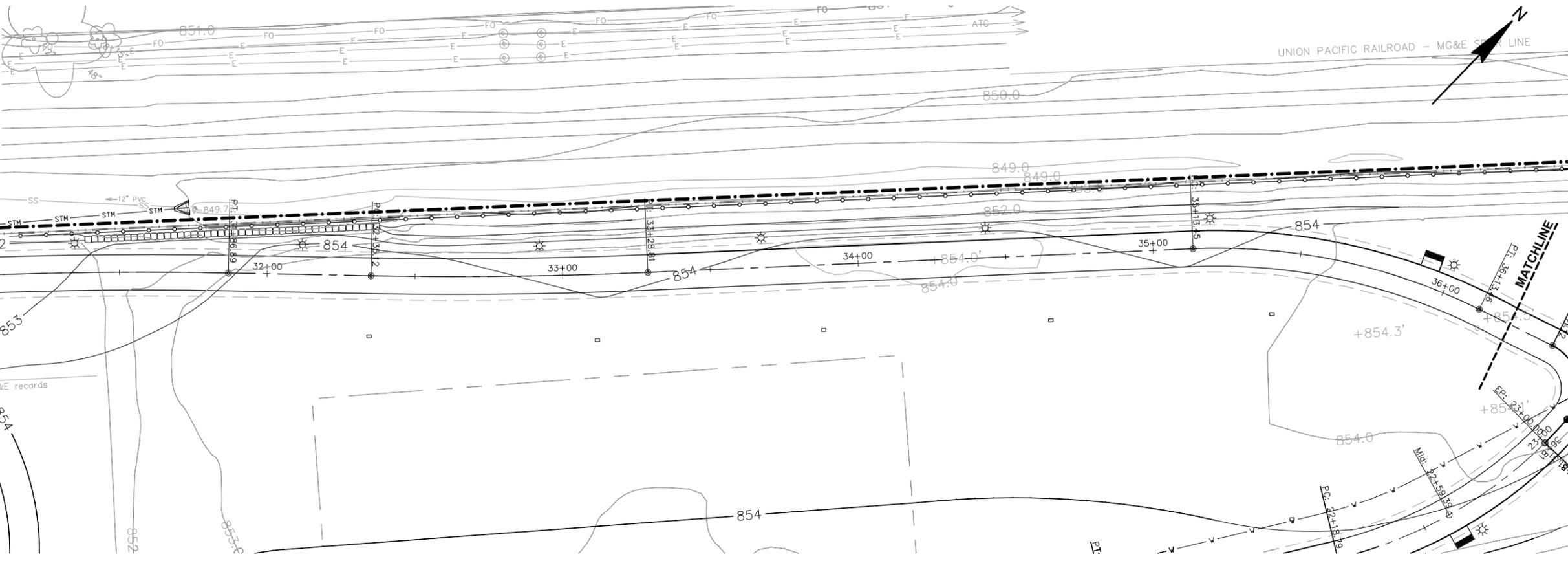


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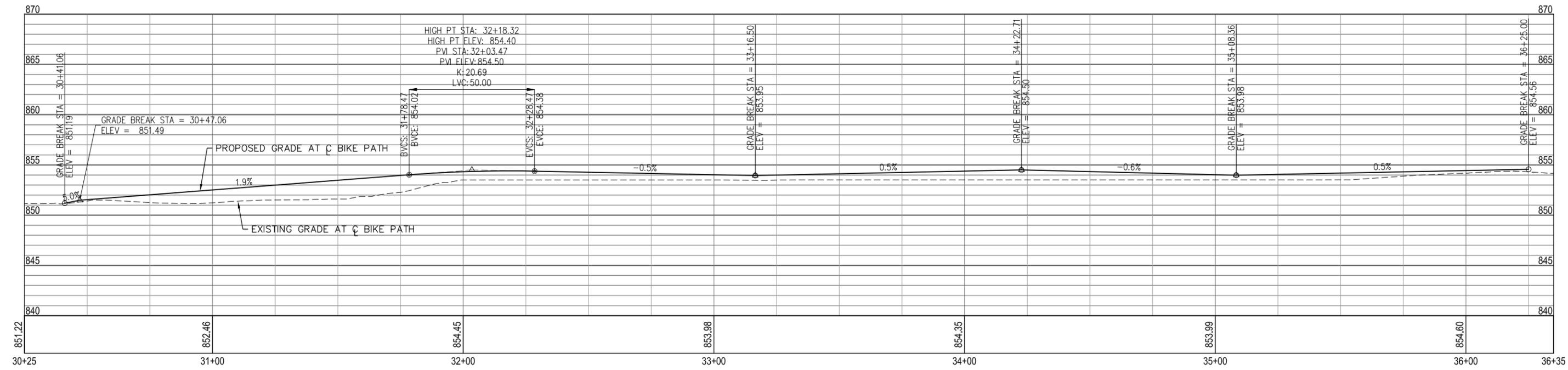


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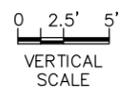
1 PLAN

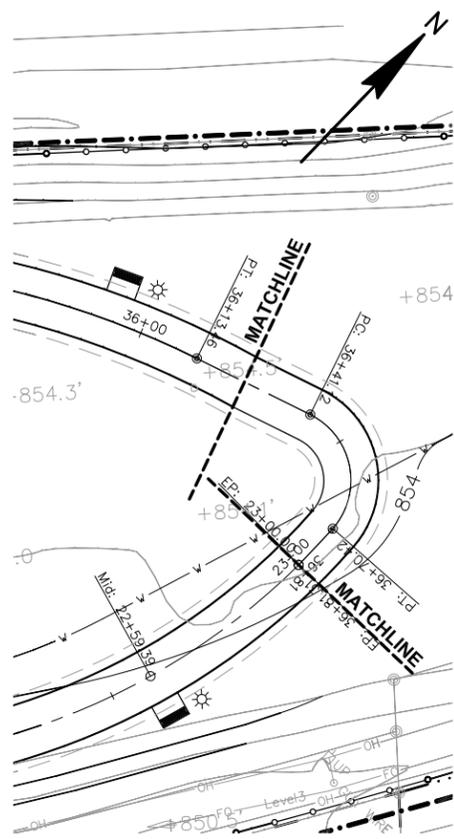


2 PROFILE



Know what's below.
Call before you dig.

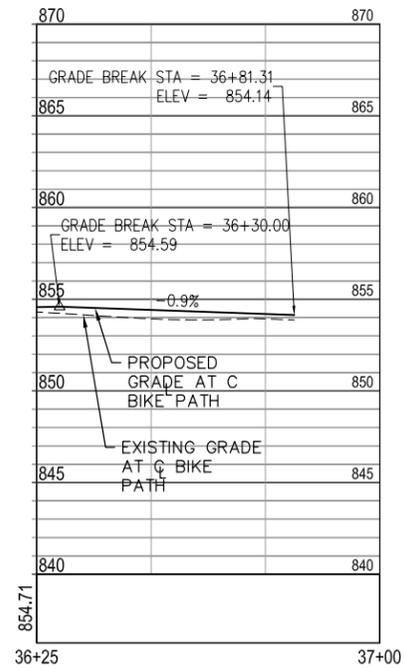




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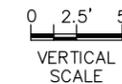
1 PLAN



2 PROFILE

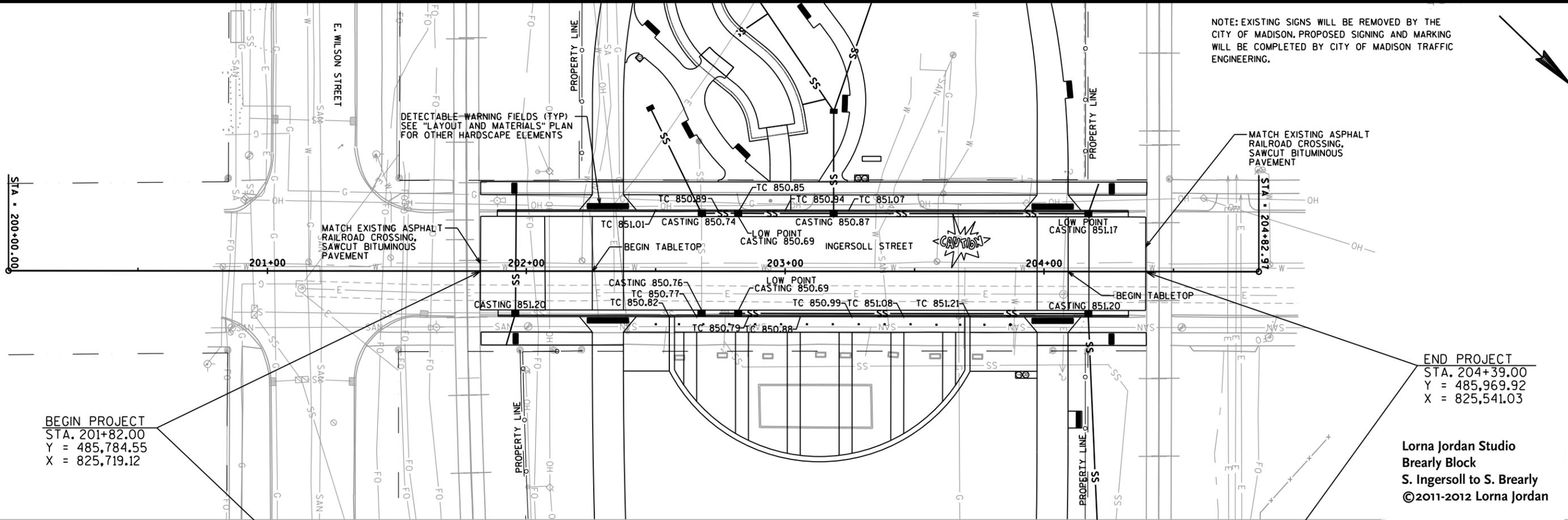
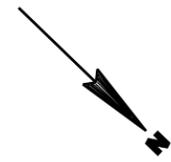


Know what's below.
Call before you dig.



5

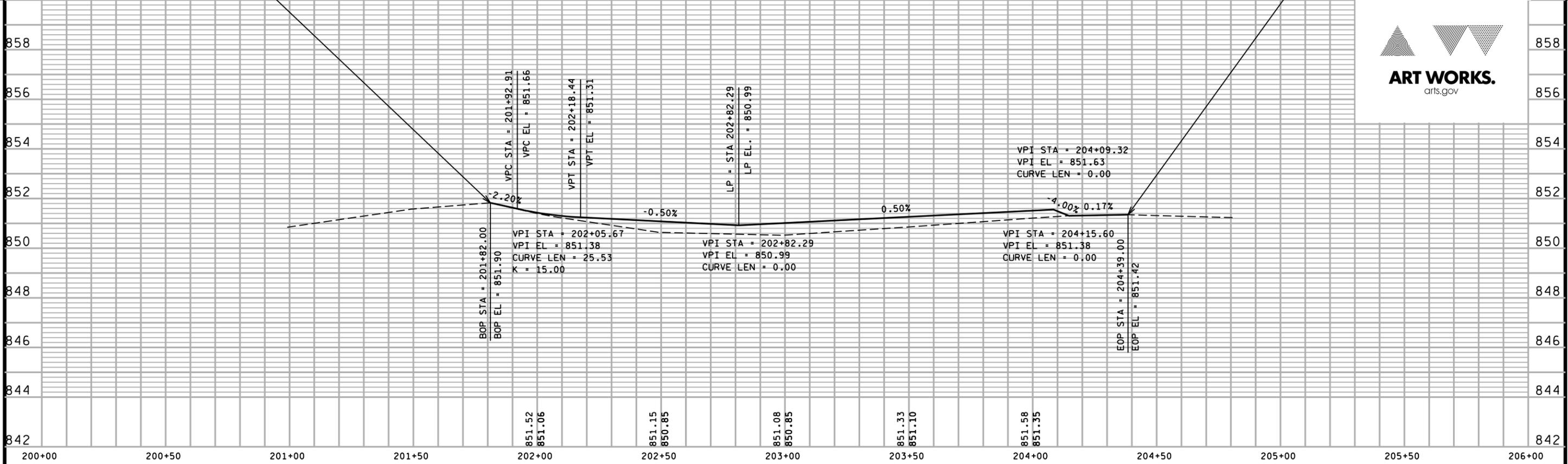
NOTE: EXISTING SIGNS WILL BE REMOVED BY THE CITY OF MADISON. PROPOSED SIGNING AND MARKING WILL BE COMPLETED BY CITY OF MADISON TRAFFIC ENGINEERING.

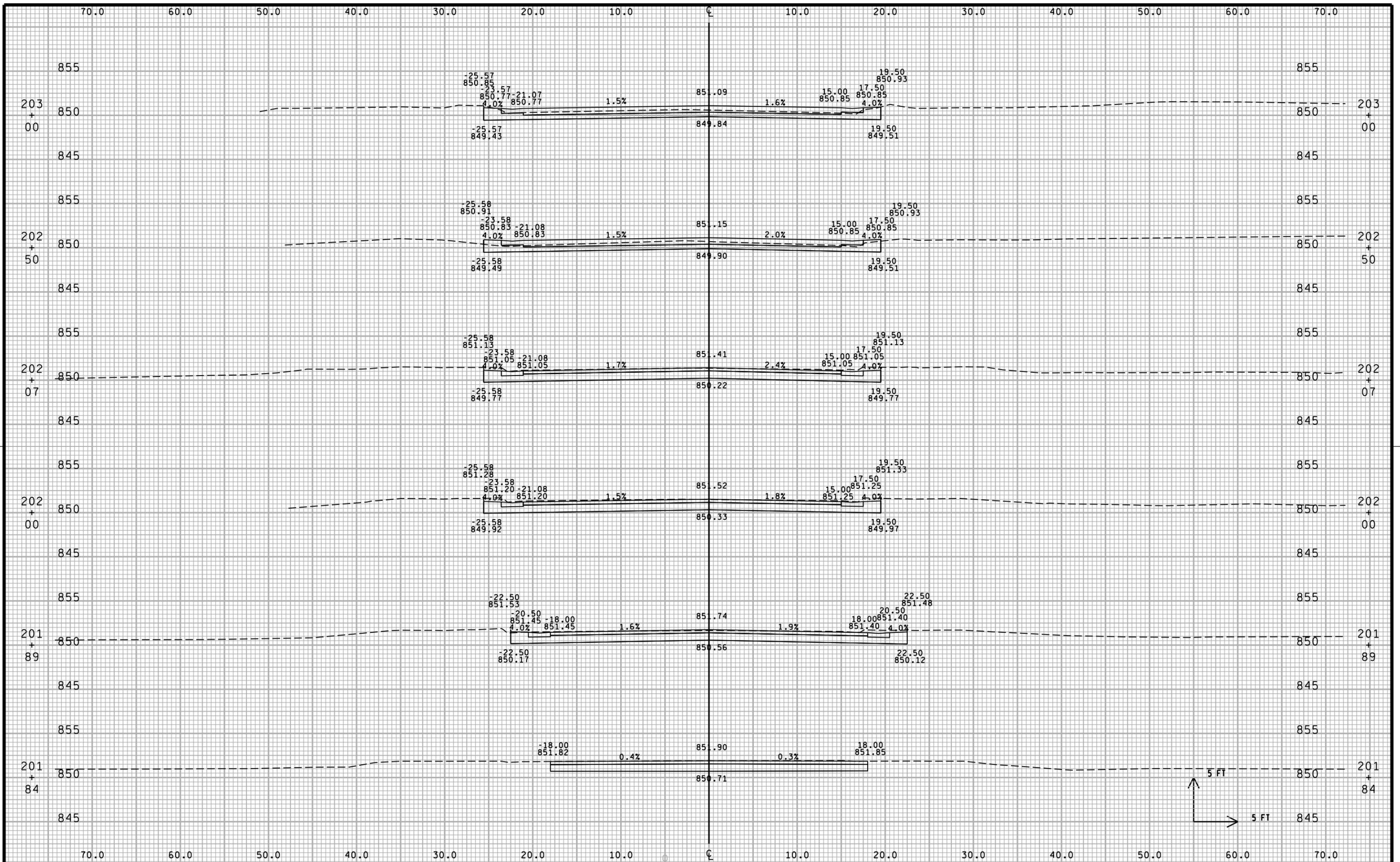


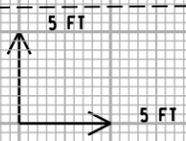
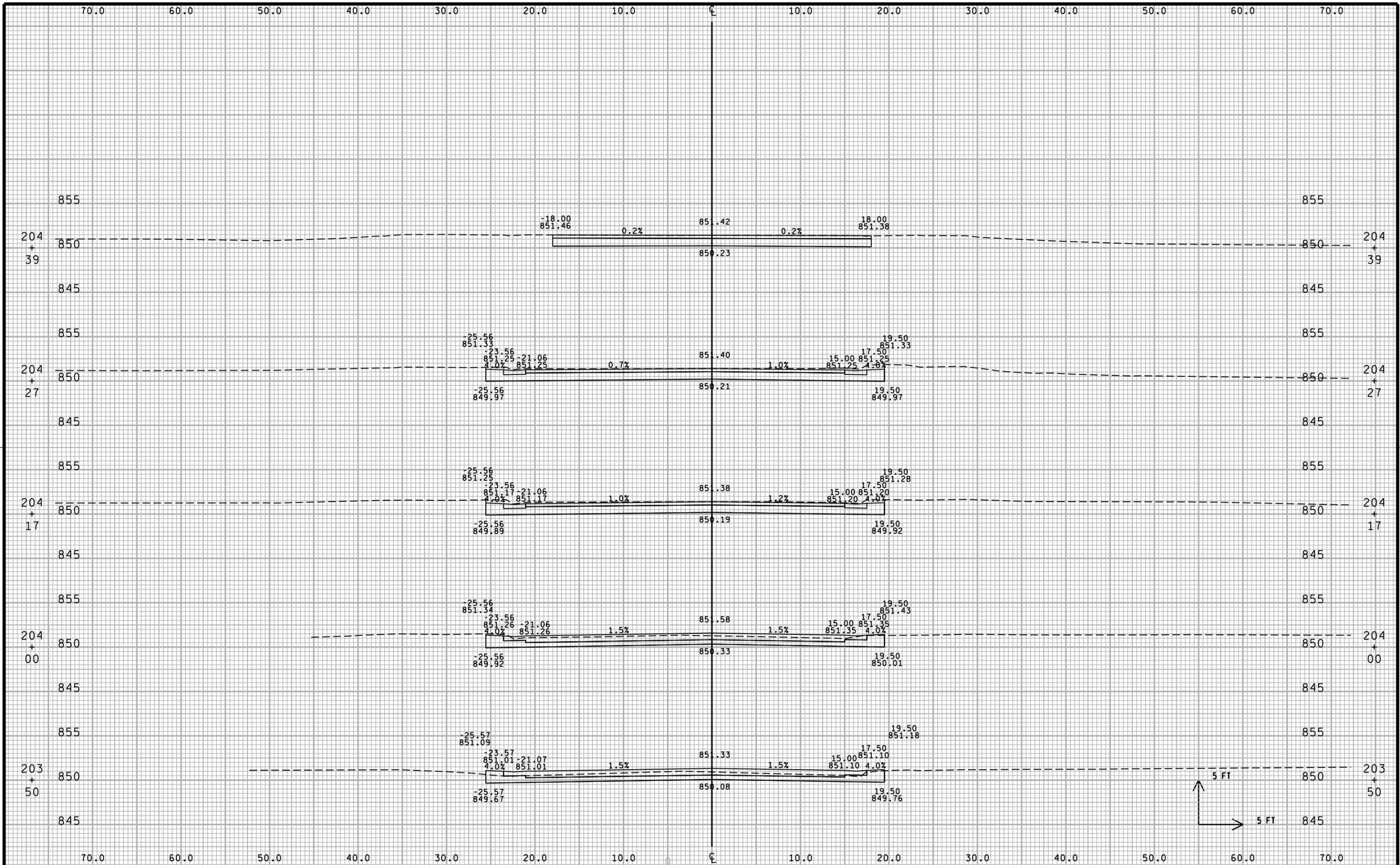
BEGIN PROJECT
STA. 201+82.00
Y = 485,784.55
X = 825,719.12

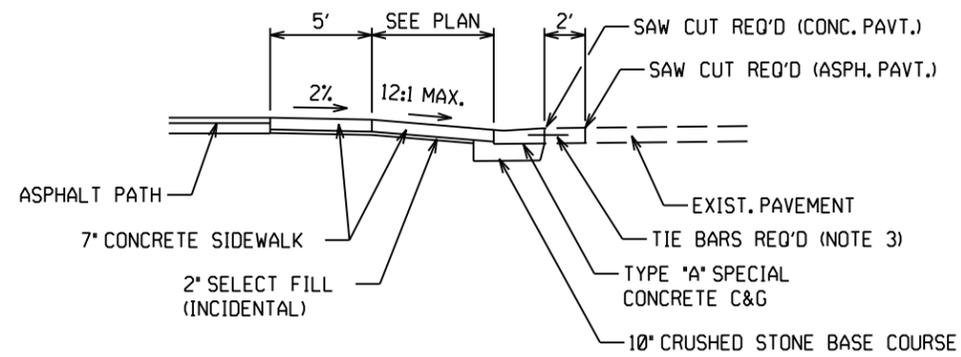
END PROJECT
STA. 204+39.00
Y = 485,969.92
X = 825,541.03

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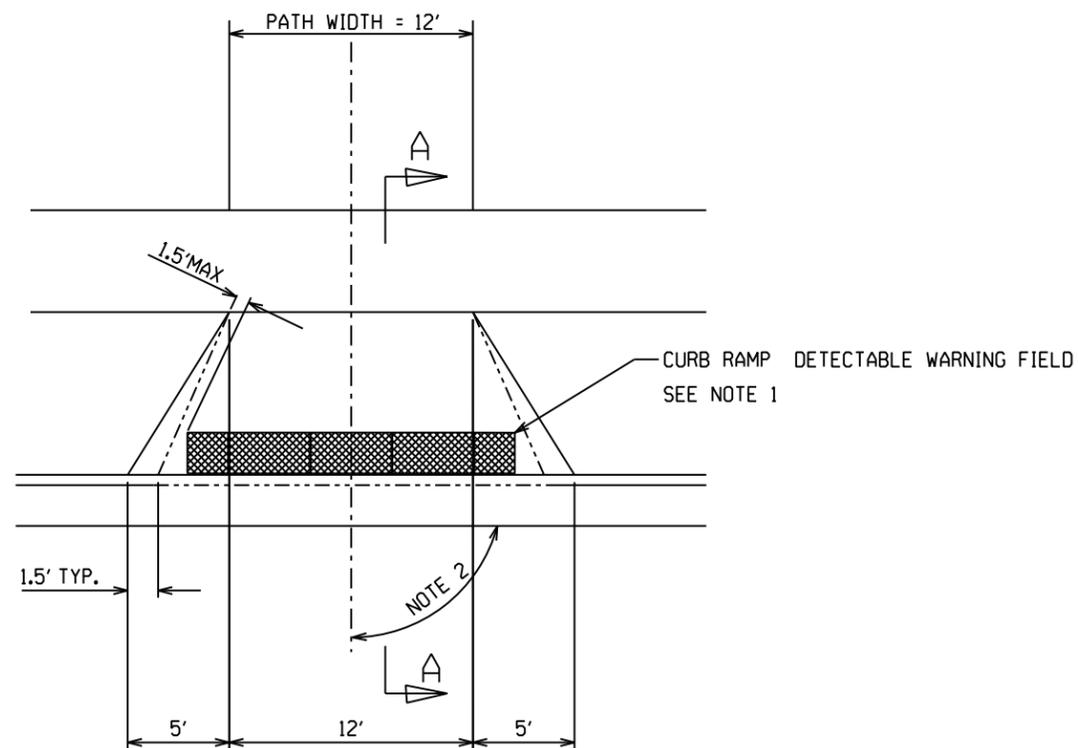




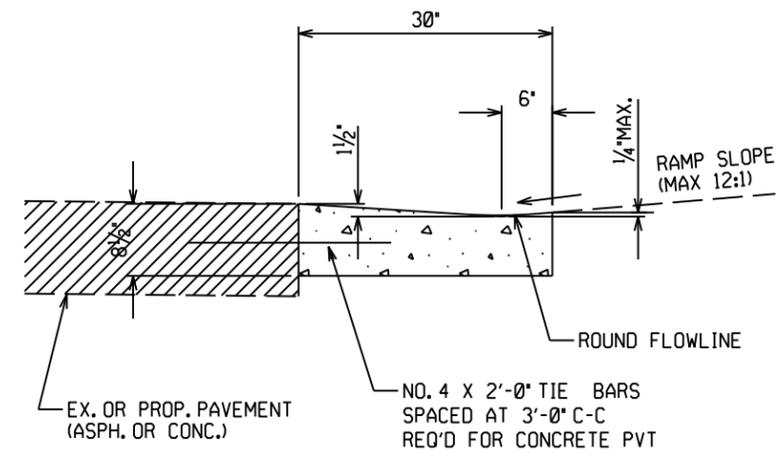




BIKE PATH RAMP SECTION A-A



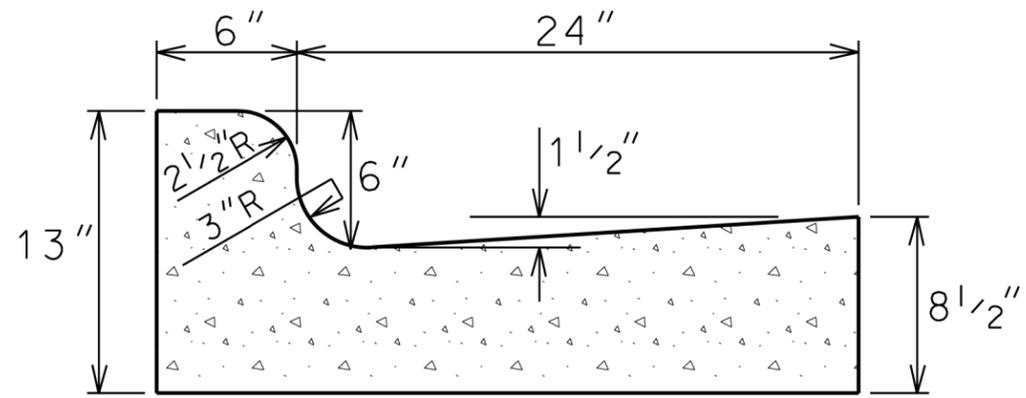
BIKE PATH RAMP PLAN



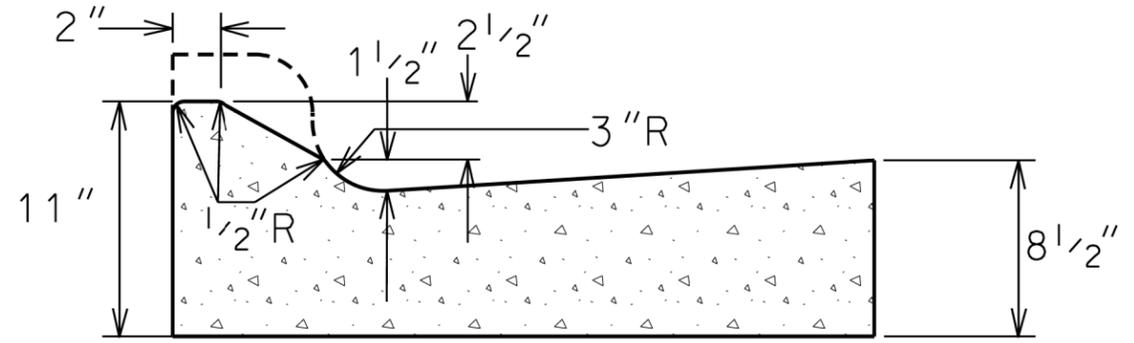
TYPE "A" SPECIAL CURB & GUTTER

NOTES:

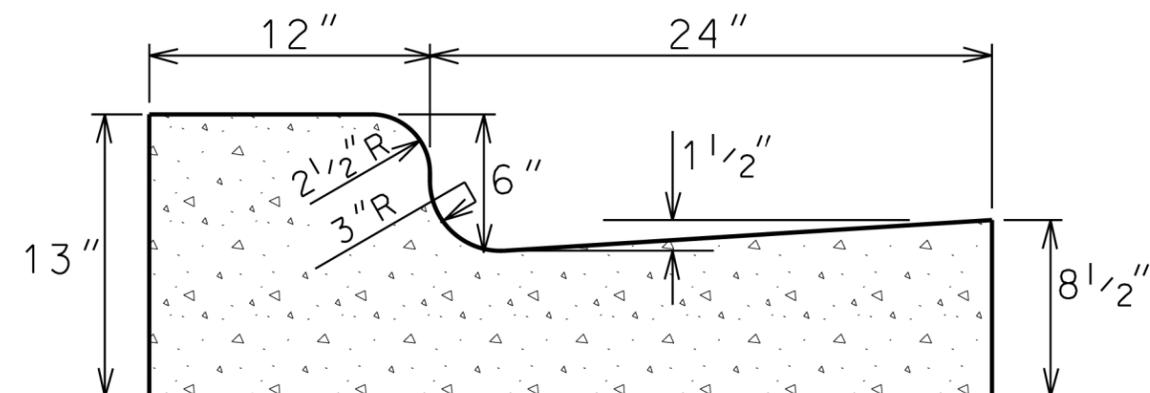
1. CURB RAMP DETECTABLE WARNING FIELDS REQUIRED WHERE PATH RAMP ENTERS A STREET.
2. FOR ANGLES LESS THAN 75° OR GREATER THAN 105° FLARE DIMENSIONS SHALL BE AS SHOWN ON THE PLANS OR SHALL BE REVIEWED BY THE CONSTRUCTION ENGINEER PRIOR TO CONSTRUCTION.
3. THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE



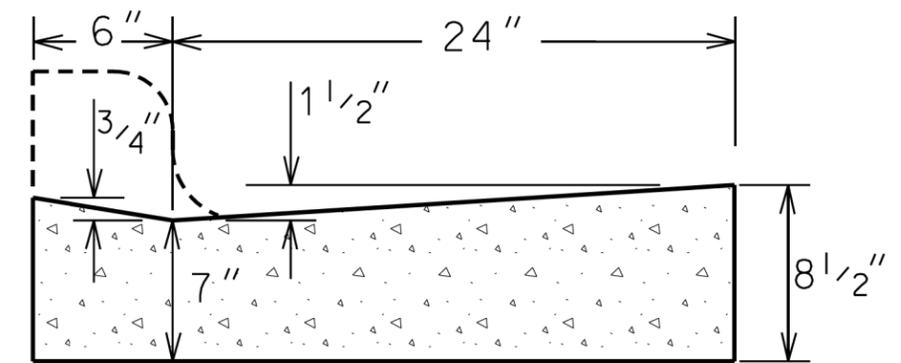
TYPE 'A' CONCRETE CURB & GUTTER



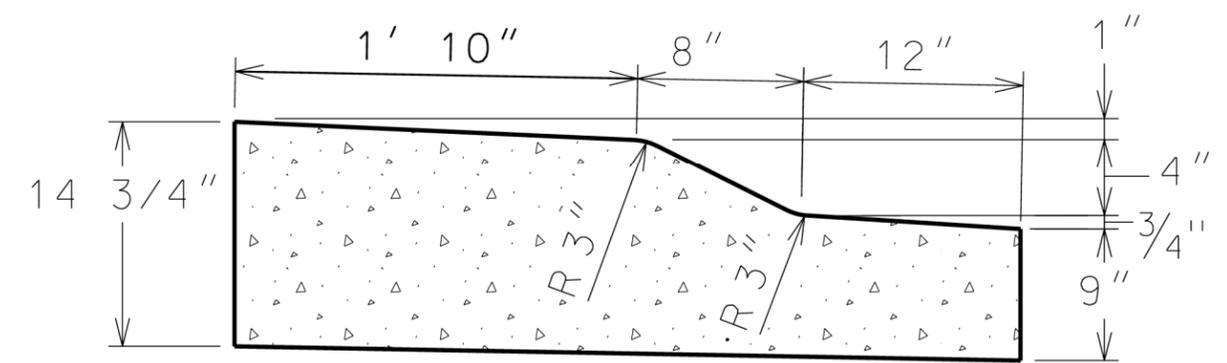
TYPE 'A' MOUNTABLE CONCRETE CURB & GUTTER (PAY AS TYPE 'A' CURB AND GUTTER)



TYPE 'B' CONCRETE CURB & GUTTER



DRIVEWAY SECTION TYPE 'A' CURB & GUTTER (PAY AS TYPE 'A' CURB AND GUTTER)



TRAFFIC CIRCLE MOUNTABLE CONCRETE CURB & GUTTER

GENERAL NOTES:

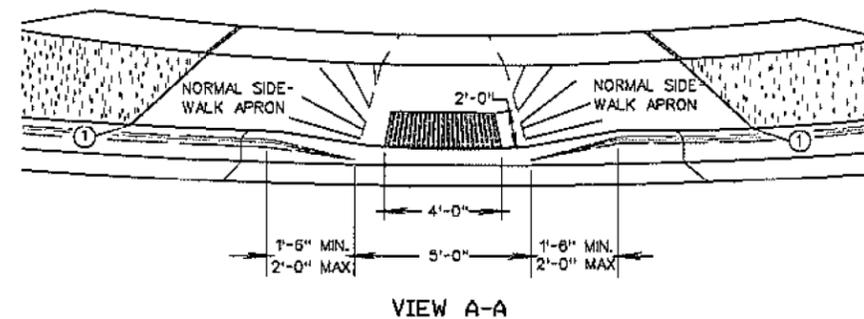
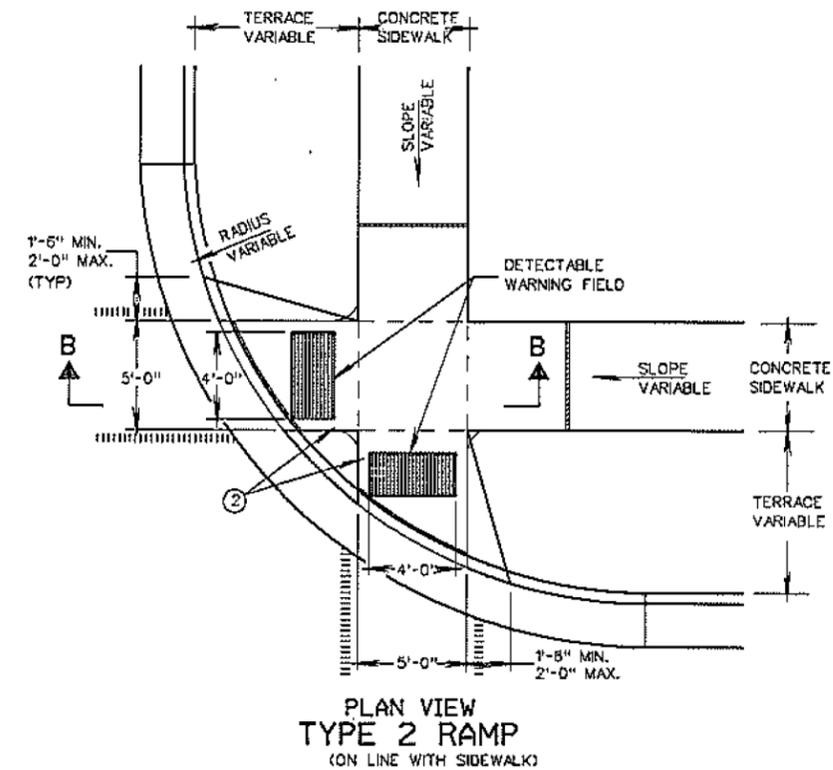
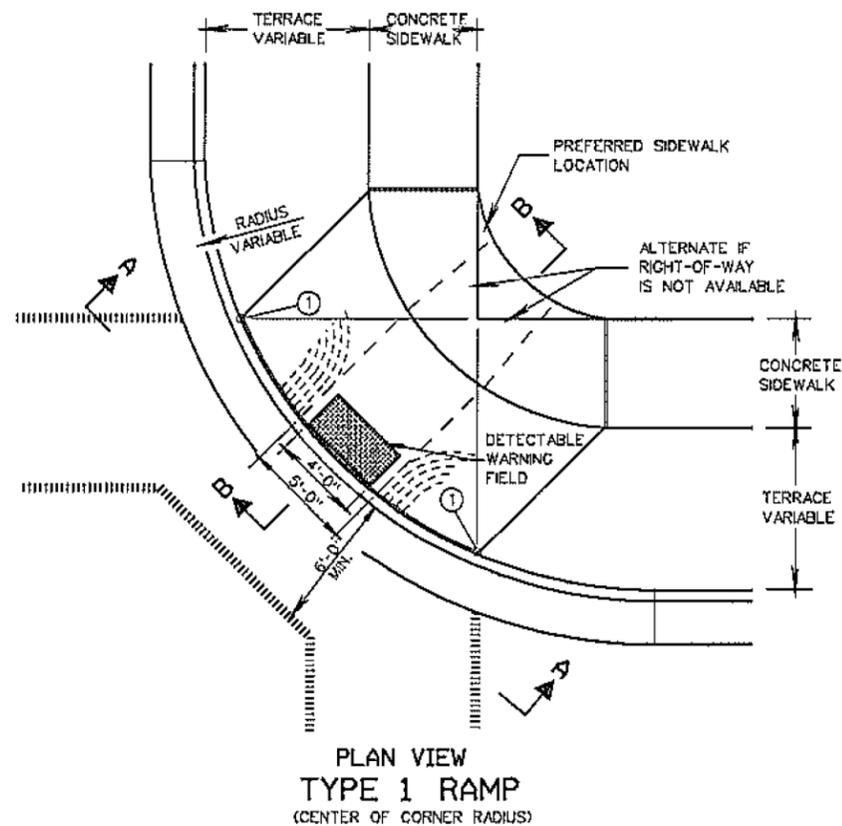
LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH

EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK.

IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE

2009

| |
|--------------------------------------------------------|
| CITY OF MADISON ENGINEERING DIVISION |
| MADISON STANDARD CONCRETE CURB & GUTTER |
| STANDARD DETAIL DRAWING 3.06 |



NOTE: MATERIALS AND METHOD OF CONSTRUCTION FOR TRUNCATED DOMES SHALL BE SPECIFIED IN SPECIAL PROVISIONS OR AS REQUIRED BY THE CITY ENGINEER

GENERAL NOTES

TYPE 2-A RAMPS SHALL BE USED IN NEW DEVELOPMENTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD".

CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES SHALL BE APPROVED BY THE CITY ENGINEER. THE COLOR OF THE DETECTABLE WARNING FIELD SHALL BE SAFETY YELLOW OR APPROVED EQUAL AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.

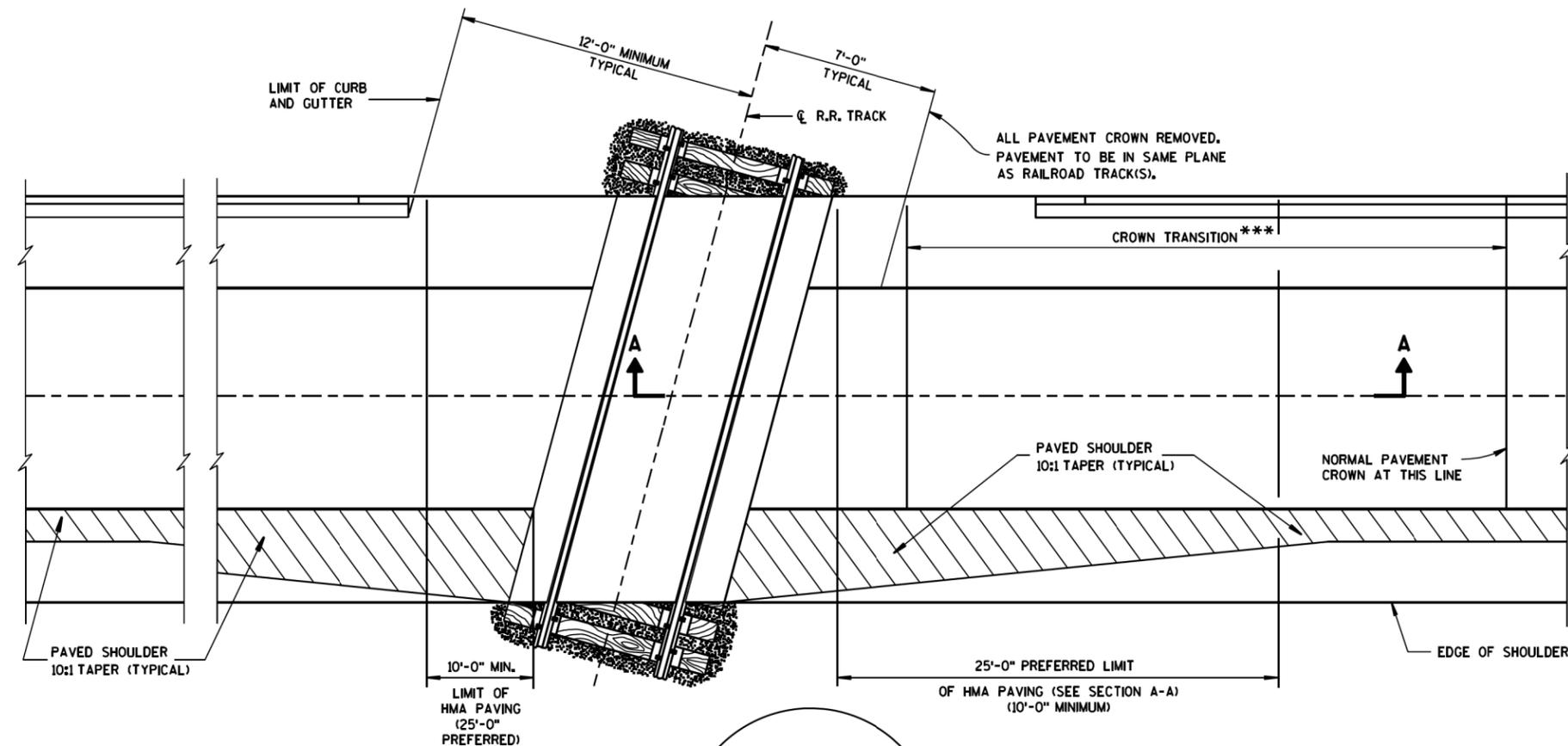
- ① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.
- ② WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

LEGEND

- 1" EXPANSION JOINT-SIDEWALK
- - - - - CONTRACTION JOINT FIELD LOCATED
- ||||||| PAVEMENT MARKING, WHITE, 6-INCH
- ALTERNATIVE LAYOUT

2009

| |
|----------------------------------------------|
| CITY OF MADISON ENGINEERING DIVISION |
| STANDARD CURB RAMPS TYPES 1 AND 2 |
| STANDARD DETAIL DRAWING 3.03 |



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

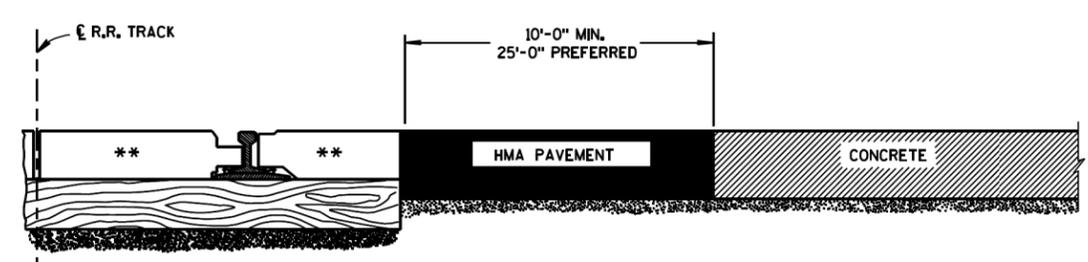
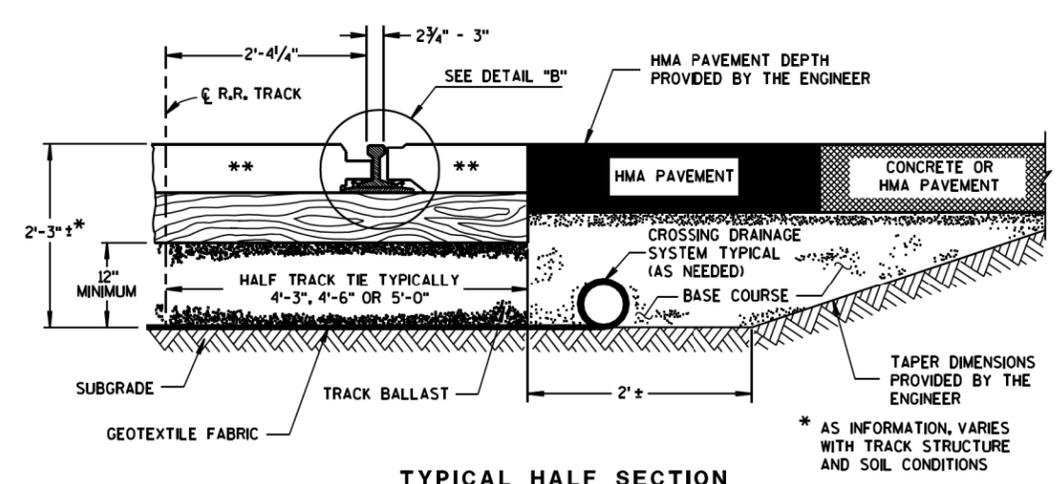
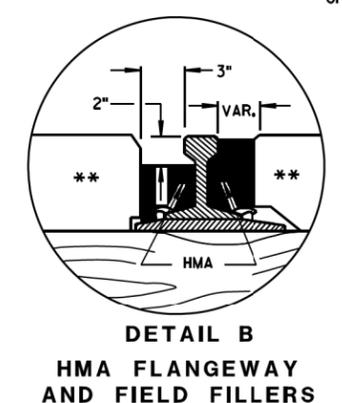
HMA PAVEMENT APPROACHES AND HMA PAVEMENT CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

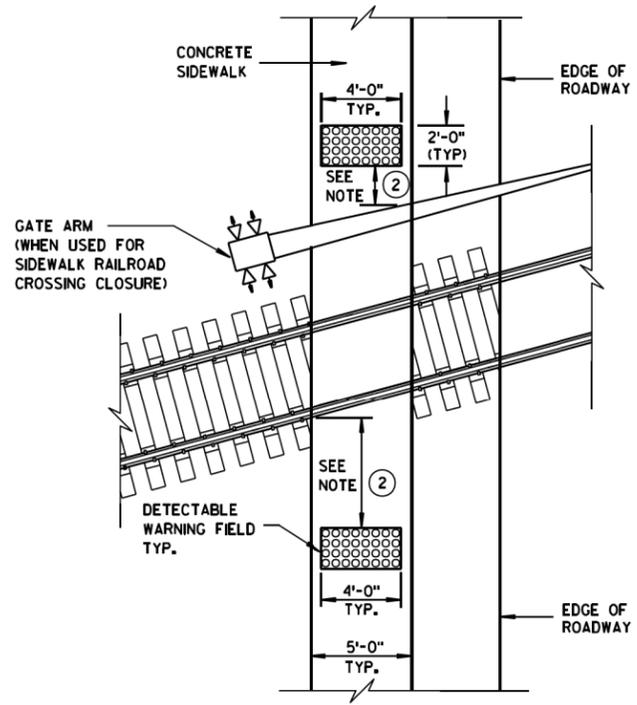
** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

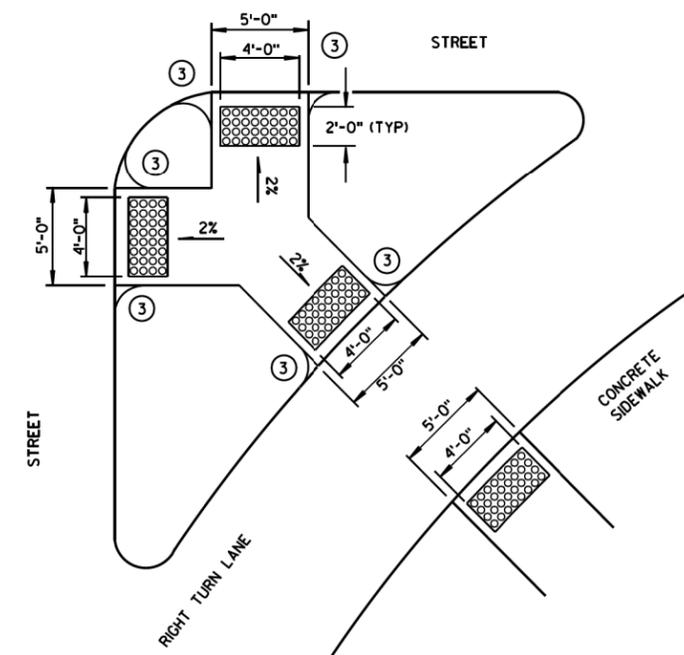


EXAMPLES OF PAVEMENT APPROACHES

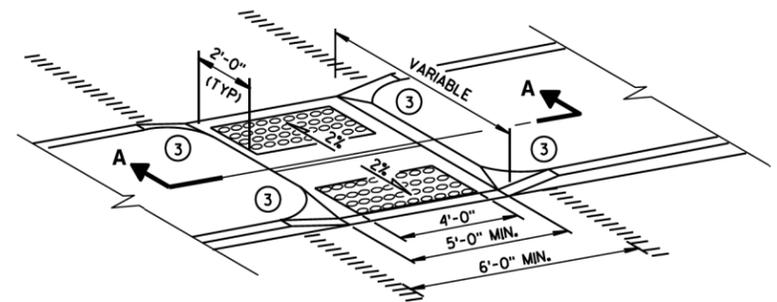
| | |
|----------------------------------------------------|-----------------------------------------------------------|
| PAVEMENT DETAILS FOR RAILROAD APPROACH | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 8-28-09 DATE | /S/ Ronald E. Adams CHIEF, RAILROADS & HARBORS SECTION |
| FHWA | |



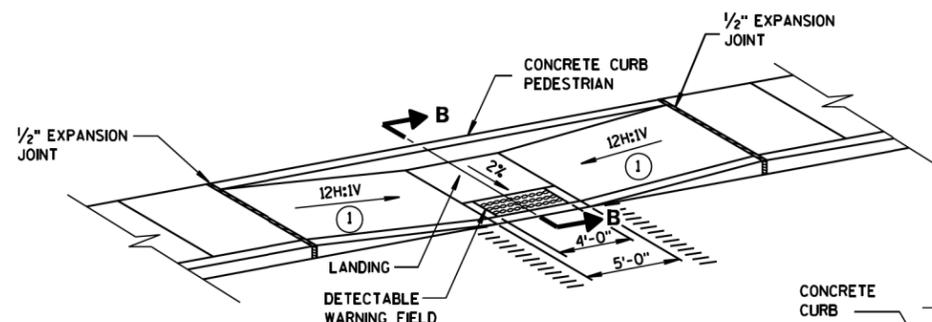
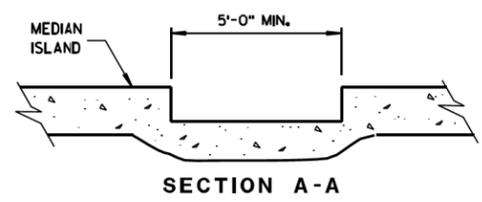
TYPE 8
DETECTABLE WARNINGS
AT RAILROAD CROSSING



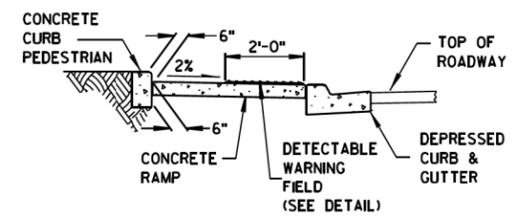
TYPE 6
DETECTABLE WARNING AT ISLANDS



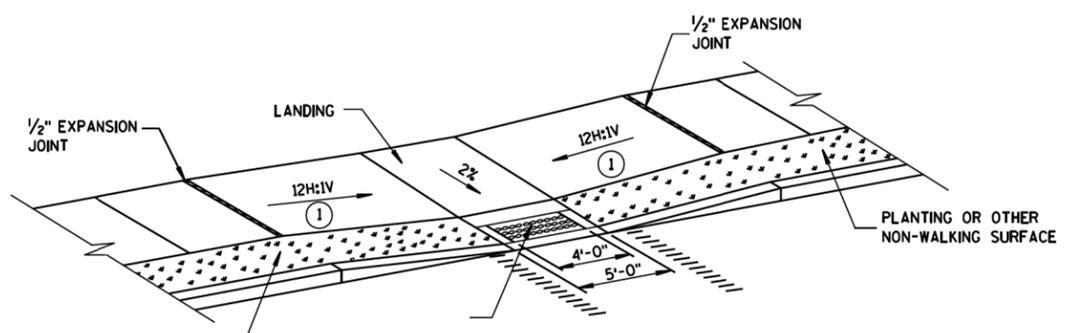
MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5



MID-BLOCK CROSSING
TYPE 7A



SECTION B-B



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS
MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

GENERAL NOTES

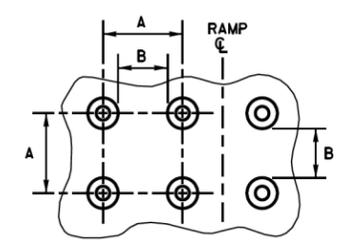
- ① SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- ① SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
- ② THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 15 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.
- ③ INSTALL TRANSITION NOSE, (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

LEGEND

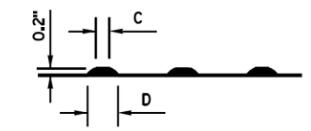
- 1/2" EXPANSION JOINT-SIDEWALK
- - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)

| | MIN. | MAX. |
|---|-------|------|
| A | 1.6" | 2.4" |
| B | 0.65" | 1.5" |
| C | * | * |
| D | 0.9" | 1.4" |

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

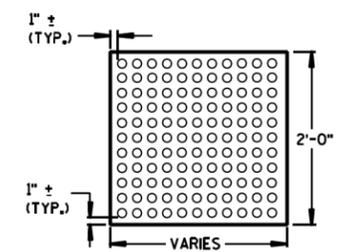


PLAN VIEW



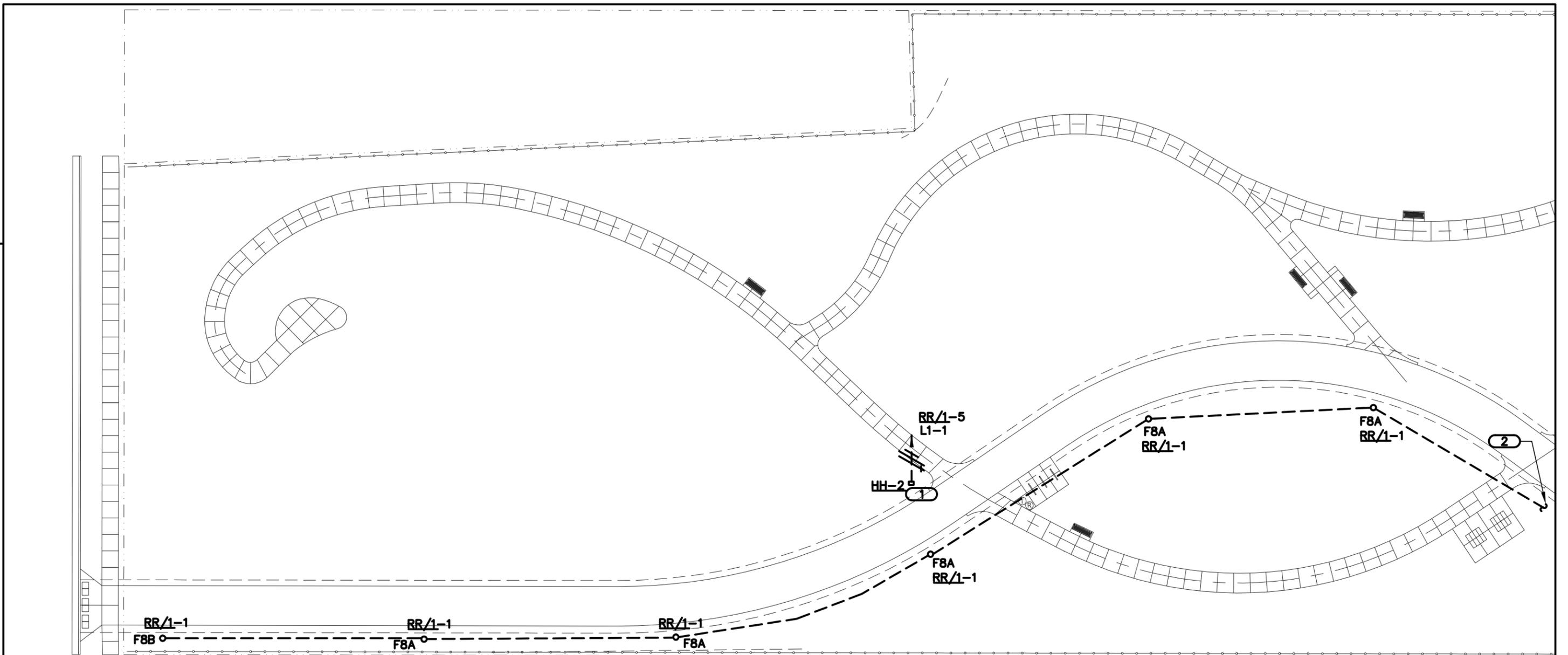
ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING
PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING
FIELD (TYPICAL)

| | |
|----------------------------------------------------|-------------------------------------------|
| CURB RAMPS TYPES 5, 6, 7A, 7B & 8 | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED | /s/ Jerry H. Zogg |
| 2-9-10 DATE | ROADWAY STANDARDS DEVELOPMENT ENGINEER |
| FHWA | |



- GENERAL NOTES**
1. REFER TO E6 FOR GENERAL ELECTRICAL AND INSTALLATION NOTES.
 2. REFER TO E4 FOR ELECTRICAL PANEL LOCATIONS.
 3. REFER TO 2/E7 FOR UNDERGROUND CONDUIT DETAIL.
 4. REFER TO E8-E9 FOR ELECTRICAL ONE-LINE DIAGRAM.
 5. REFER TO E10 FOR PANEL SCHEDULES.
 6. REFER TO E11-E16 FOR ELECTRICAL SCHEDULES.

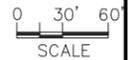
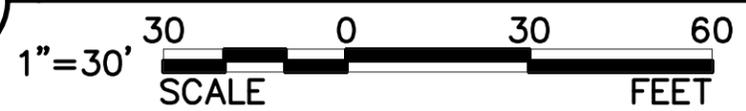
- KEYNOTES**
1. CAP CONDUIT AND WIRING IN HAND HOLE FOR CONNECTION OF FUTURE LANDSCAPE LIGHTING.
 2. REFER TO SHEET E2 FOR CONTINUATION.

Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan



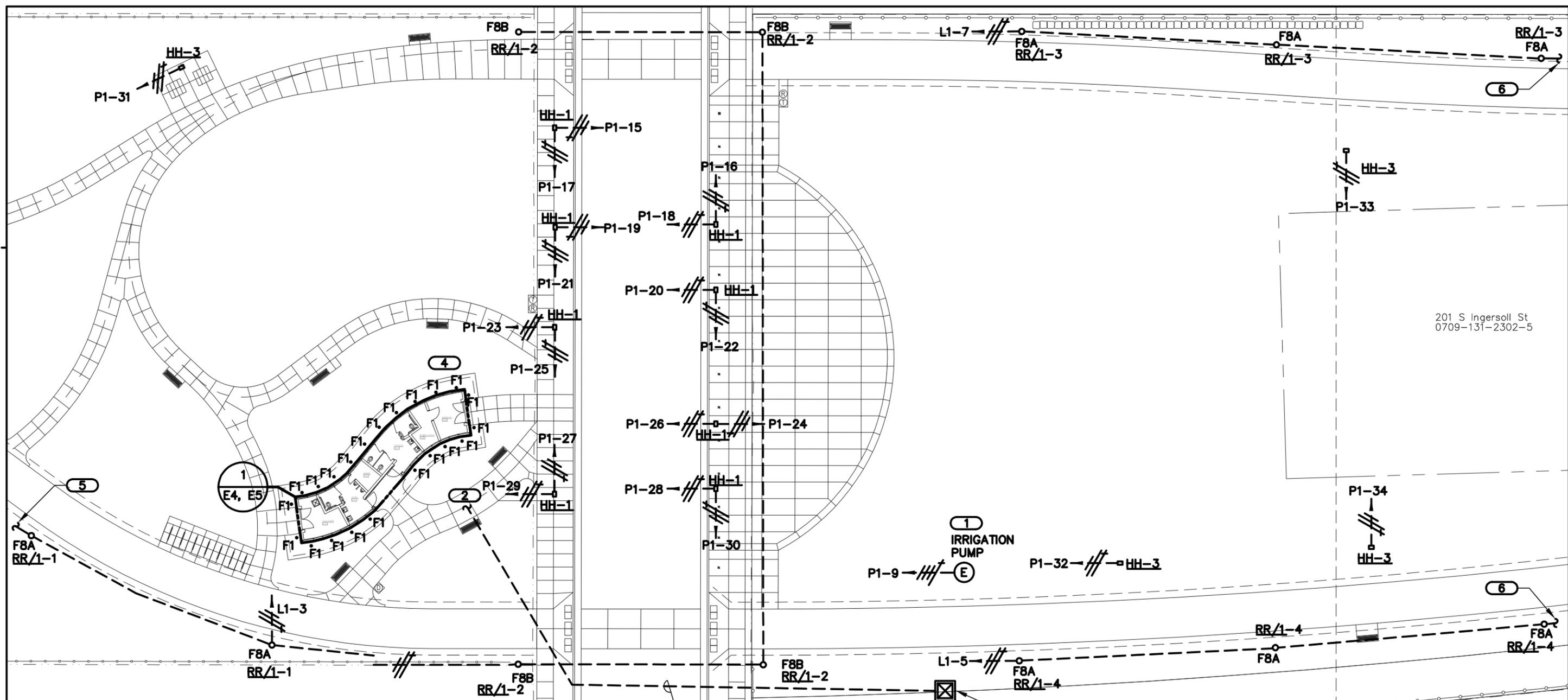
1

SITE PLAN - ELECTRICAL



KJW ENGINEERING CONSULTANTS
 802 WEST BROADWAY, SUITE 312
 MADISON, WISCONSIN 53713-1539
 608.223.9600 FAX: 608.223.9601
 www.kjw.com PROJECT #09.0619.00

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201 S Ingersoll St
0709-131-2302-5

- GENERAL NOTES**
- REFER TO E6 FOR GENERAL ELECTRICAL AND INSTALLATION NOTES.
 - REFER TO E4 FOR ELECTRICAL PANEL LOCATIONS.
 - REFER TO 2/E7 FOR UNDERGROUND CONDUIT DETAIL.
 - REFER TO E8-E9 FOR ELECTRICAL ONE-LINE DIAGRAM.
 - REFER TO E10 FOR PANEL SCHEDULES.
 - REFER TO E11-E16 FOR ELECTRICAL SCHEDULES.

- KEYNOTES**
- COORDINATE EXACT LOCATION WITH PUMP INSTALLER. E.C. TO WIRE TO DISCONNECT PANEL PROVIDED BY EQUIPMENT MANUFACTURER.
 - REFER TO E4 FOR CONTINUATION INTO RESTROOM PAVILION.
 - LOCATE TRANSFORMER TO PROVIDE 10' CLEARANCE FROM BIKE PATH FOR MAINTENANCE ACCESS.
 - CONNECT ALL F1 LUMINAIRES THROUGH RR/1-6 TO CIRCUIT L1-11.
 - REFER TO SHEET E1 FOR CONTINUATION.
 - REFER TO SHEET E3 FOR CONTINUATION.

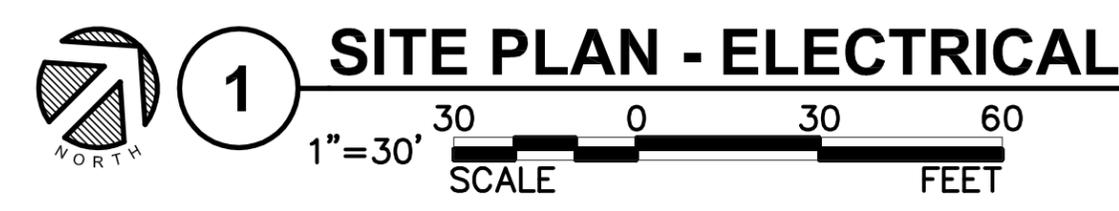
UTILITY TRANSFORMER, AND CONCRETE PAD BY UTILITY COMPANY.

GROUND GRID, REFER TO DETAIL 1/E6.

SECONDARY WIRE AND CONDUIT BY UTILITY COMPANY. COORDINATE EXACT ROUTING WITH RAILROAD RIGHT OF WAY LIMITS.

1110 E Wilson St
0709-131-2301-7

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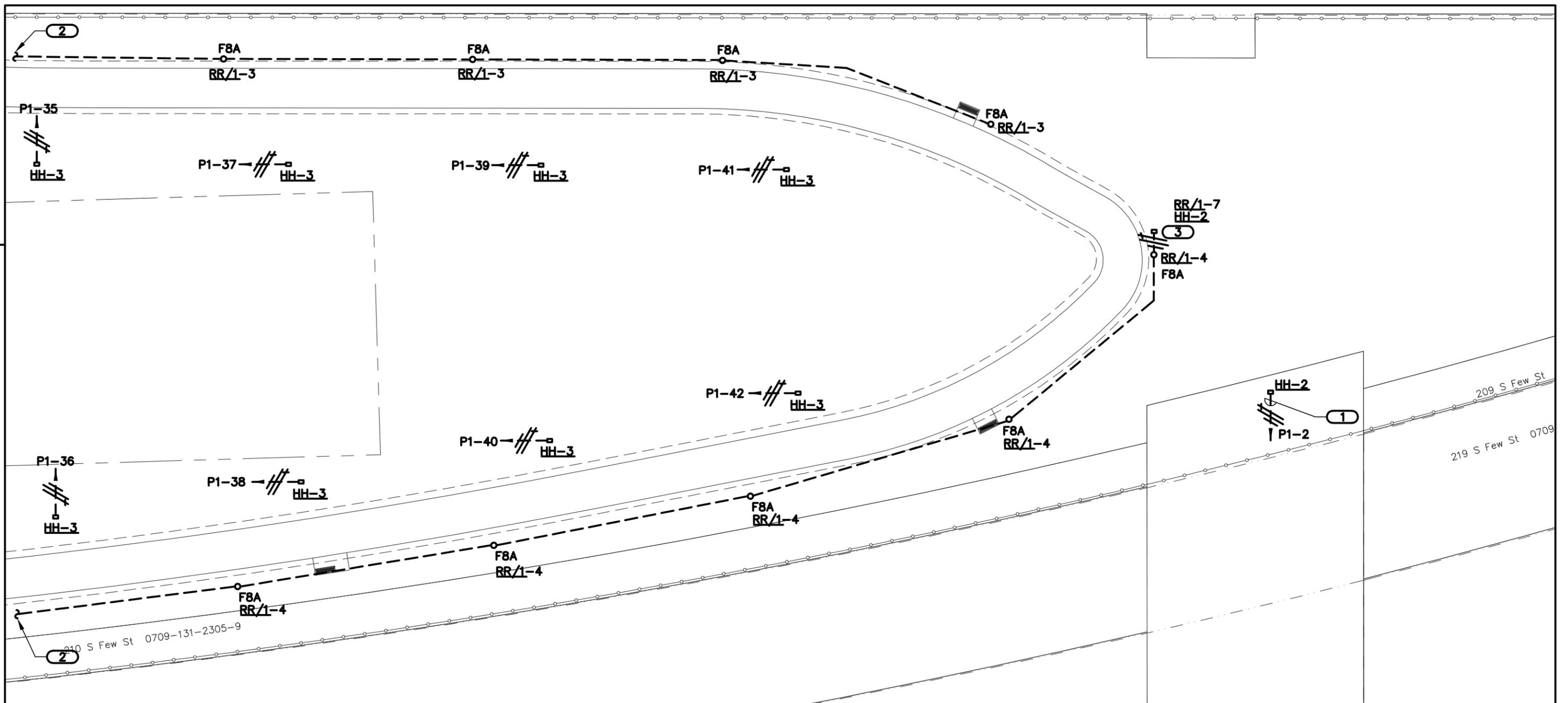
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REFERENCE SCALE IN INCHES

0 1 2 3



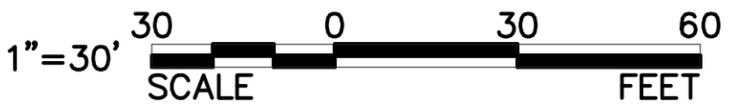
- GENERAL NOTES**
- REFER TO E6 FOR GENERAL ELECTRICAL AND INSTALLATION NOTES.
 - REFER TO E4 FOR ELECTRICAL PANEL LOCATIONS.
 - REFER TO 2/E7 FOR UNDERGROUND CONDUIT DETAIL.
 - REFER TO E8-E9 FOR ELECTRICAL ONE-LINE DIAGRAM.
 - REFER TO E10 FOR PANEL SCHEDULES.
 - REFER TO E11-E16 FOR ELECTRICAL SCHEDULES.

- KEYNOTES**
- CAP CONDUIT AND WIRING IN HAND HOLE FOR CONNECTION OF FUTURE SKATE PARK POWER.
 - REFER TO SHEET E2 FOR CONTINUATION.
 - CAP CONDUIT AND WIRING IN HAND HOLE FOR CONNECTION OF FUTURE PEDESTRIAN PLAZA LIGHTING.



1

SITE PLAN - ELECTRICAL

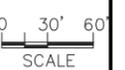


1150 E Wilson St
0709-131-2304-1

1130 E Wilson St
0709-131-2303-3

202 S Baldwin St
0709-131-2308-3

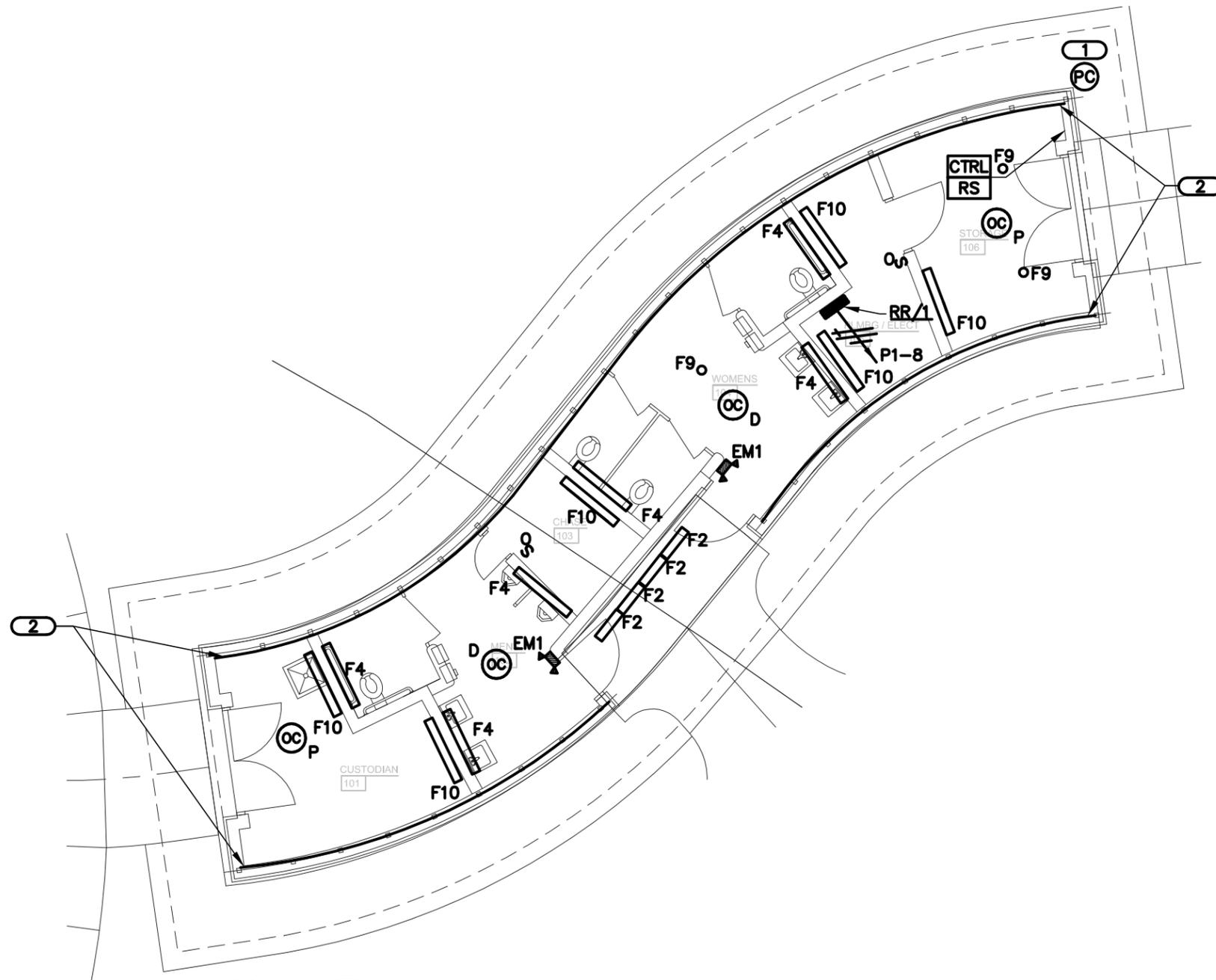
1210 E W
0709-131



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REFERENCE SCALE IN INCHES
 0 1 2 3



1

ENLARGED PLAN - LIGHTING

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

KEYNOTES:

1. MOUNT PHOTOCELL ON UNDERSIDE OF SOFFIT FACING NORTH.
2. PROVIDE ALL F6 AND ASSOCIATED CONTROLS (CTRL) AS ALTERNATE B. F6 RUNS CONTINUOUSLY ALONG BOTTOM WINDOW SILL EDGE INSIDE BUILDING. REFER TO ARCHITECTURAL MOUNTING DETAIL.

GENERAL NOTES:

1. CONNECT ALL INTERIOR RESTROOM PAVILION LIGHTING TO CIRCUIT P1-6.
2. REFER TO E10 FOR PANEL SCHEDULES.
3. REFER TO E11-E16 FOR ELECTRICAL SCHEDULES.

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 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan

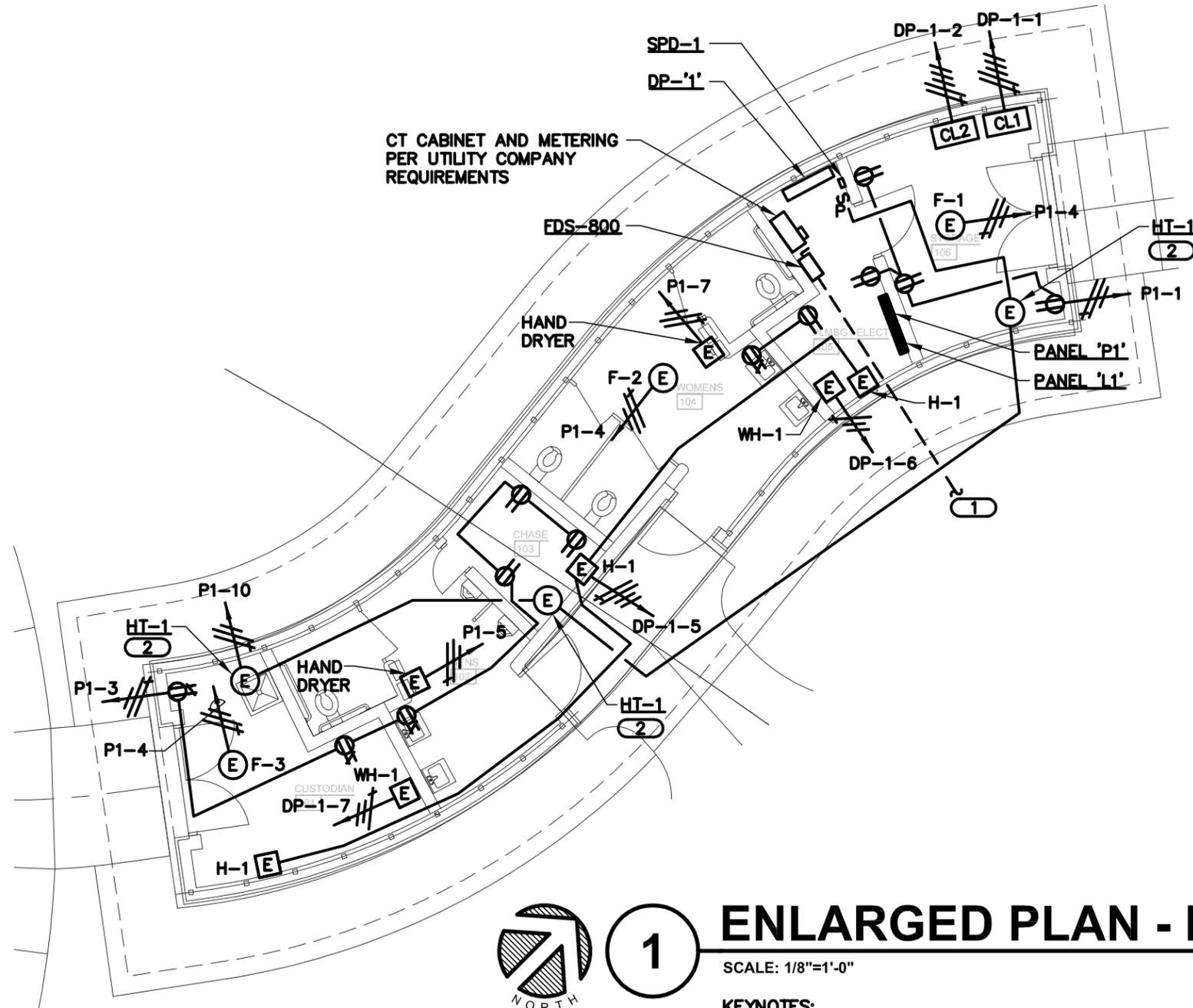


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REFERENCE SCALE IN INCHES
 0 1 2 3



ENLARGED PLAN - POWER

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

KEYNOTES:

1. SECONDARY CONDUCTOR SERVICE ENTRANCE. REFER TO E2 FOR CONTINUATION.
2. PROVIDE HEAT TRACE HT-1 FOR ROOF DRAIN AT THIS LOCATION. LOCATE HEAT TRACE CONNECTION ON ROOF ADJACENT TO ROOF DRAIN AND ROUTE HEAT TRACE DOWN DRAIN TO BELOW GRADE. COORDINATE LENGTH AND INSTALLATION WITH P.C.

GENERAL NOTES:

1. DISCONNECTS AND STARTERS ARE PROVIDED BY M.C. FOR ALL EQUIPMENT, WIRED BY E.C.
2. REFER TO E8-E9 FOR ELECTRICAL ONE-LINE DIAGRAM.
3. REFER TO E10 FOR PANEL SCHEDULES.
4. REFER TO E11-E16 FOR ELECTRICAL SCHEDULES.

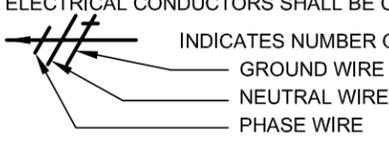


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 Brearly Block
 S. Ingersoll to S. Brearly
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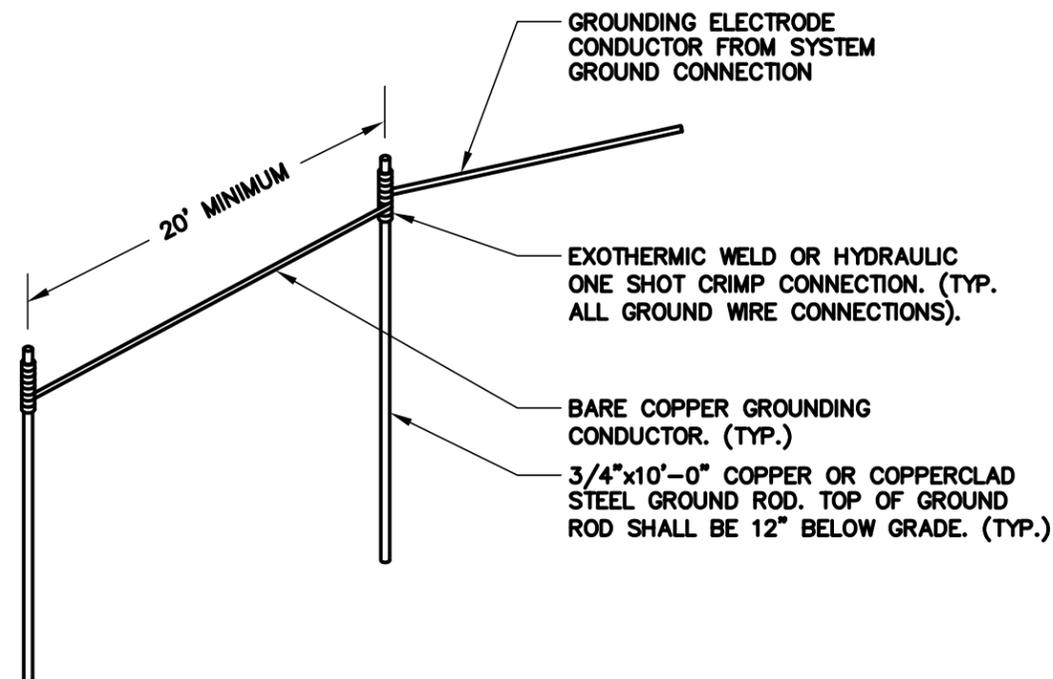
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 REFERENCE SCALE IN INCHES
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GENERAL ELECTRICAL NOTES:

- "1/E4" INDICATES DETAIL NUMBER/SHEET NUMBER.
- ###-### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES. REFER TO SCHEDULES IN ELECTRICAL DRAWINGS.
- " # " INDICATES KEYED NOTE USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.
- ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
- 

INDICATES NUMBER OF WIRES IN CONDUIT.
- 

SHOWN BETWEEN LUMINAIRES DESIGNATES LUMINAIRE OR GROUP OF LUMINAIRES SWITCHED SEPARATELY YET CONNECTED TO THE SAME BRANCH CIRCUIT. LUMINAIRES THAT DO NOT HAVE A REMOTE MEANS OF SWITCHING (e.g., EXIT SIGNS, EMERGENCY UNITS, NIGHT LIGHTS) SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE BRANCH CIRCUIT.
- ABBREVIATION KEY:
 - E.C. ELECTRICAL CONTRACTOR
 - G.C. GENERAL CONTRACTOR
 - AFF ABOVE FINISH FLOOR
 - C CONDUIT
 - TYP TYPICAL
 - +##" MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
- LINE TYPE KEY:
 -  NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
 -  NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
 -  NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)



1

GROUND GRID DETAIL

NO SCALE

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY **NOT** BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN THE FOLLOWING ROOMS MAY BE EXPOSED ON BUILDING STRUCTURE: STORAGE 101, CHASE 102, CHASE 104, AND CUSTODIAN 106. ALL OTHER CONDUIT SHALL BE CONCEALED.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- FLUSH MOUNT ALL TOGGLE SWITCHES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. TOGGLE SWITCHES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTINGS WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230, PART 1 OF THE NATIONAL ELECTRIC CODE.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.

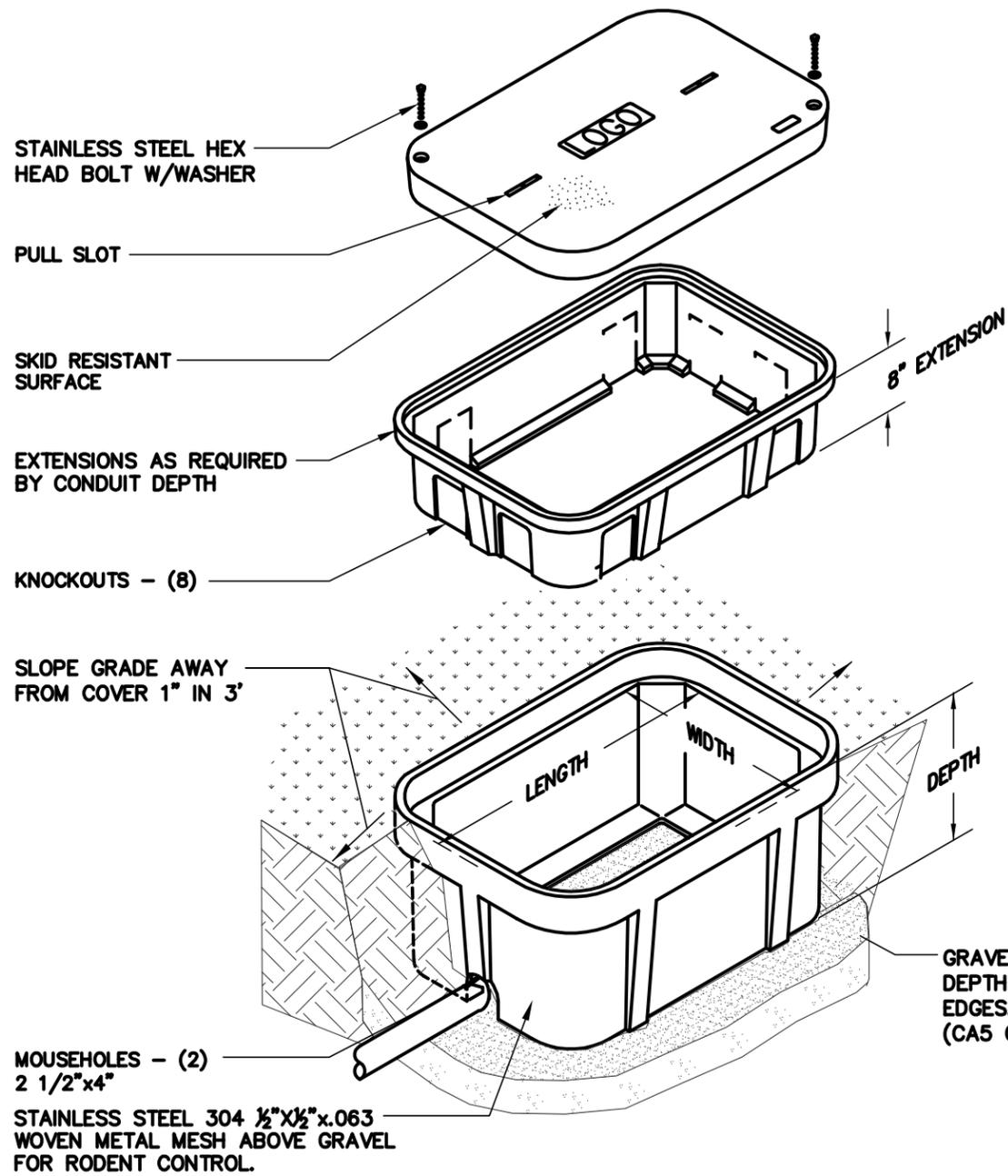

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REFERENCE SCALE IN INCHES



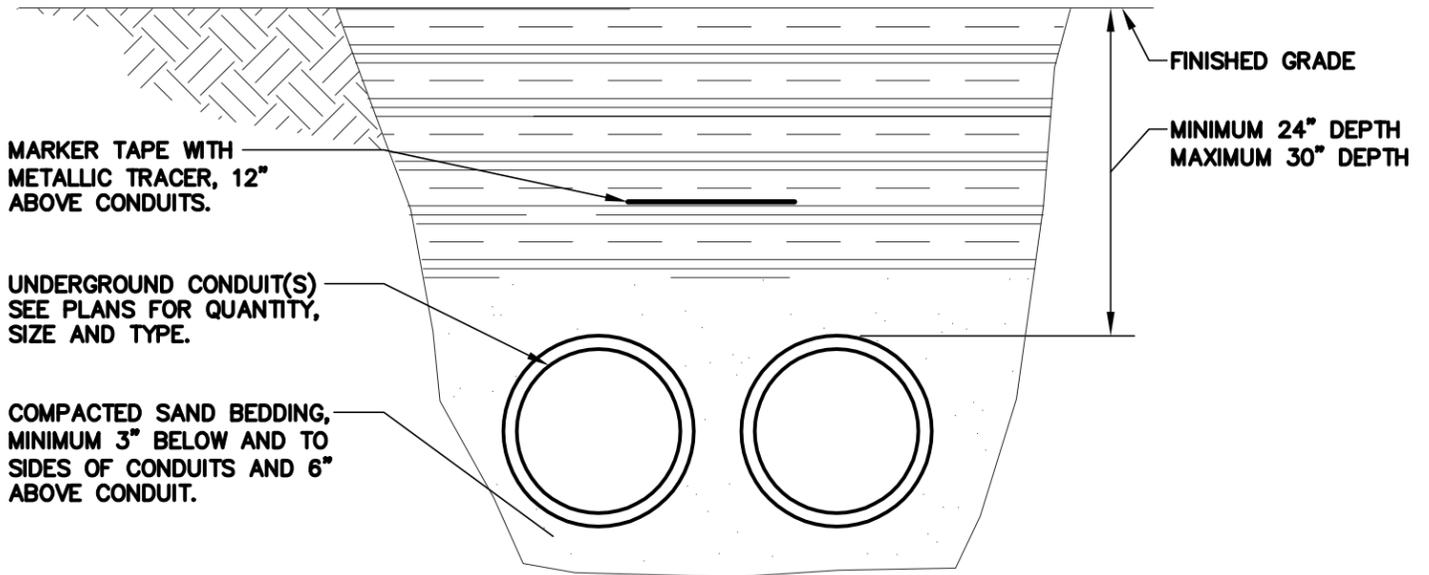


1 EXTERIOR HANDHOLE DETAIL

NO SCALE

NOTES:

1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.
2. ALL SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERSIBLE.



2 UNDERGROUND CONDUIT DETAIL

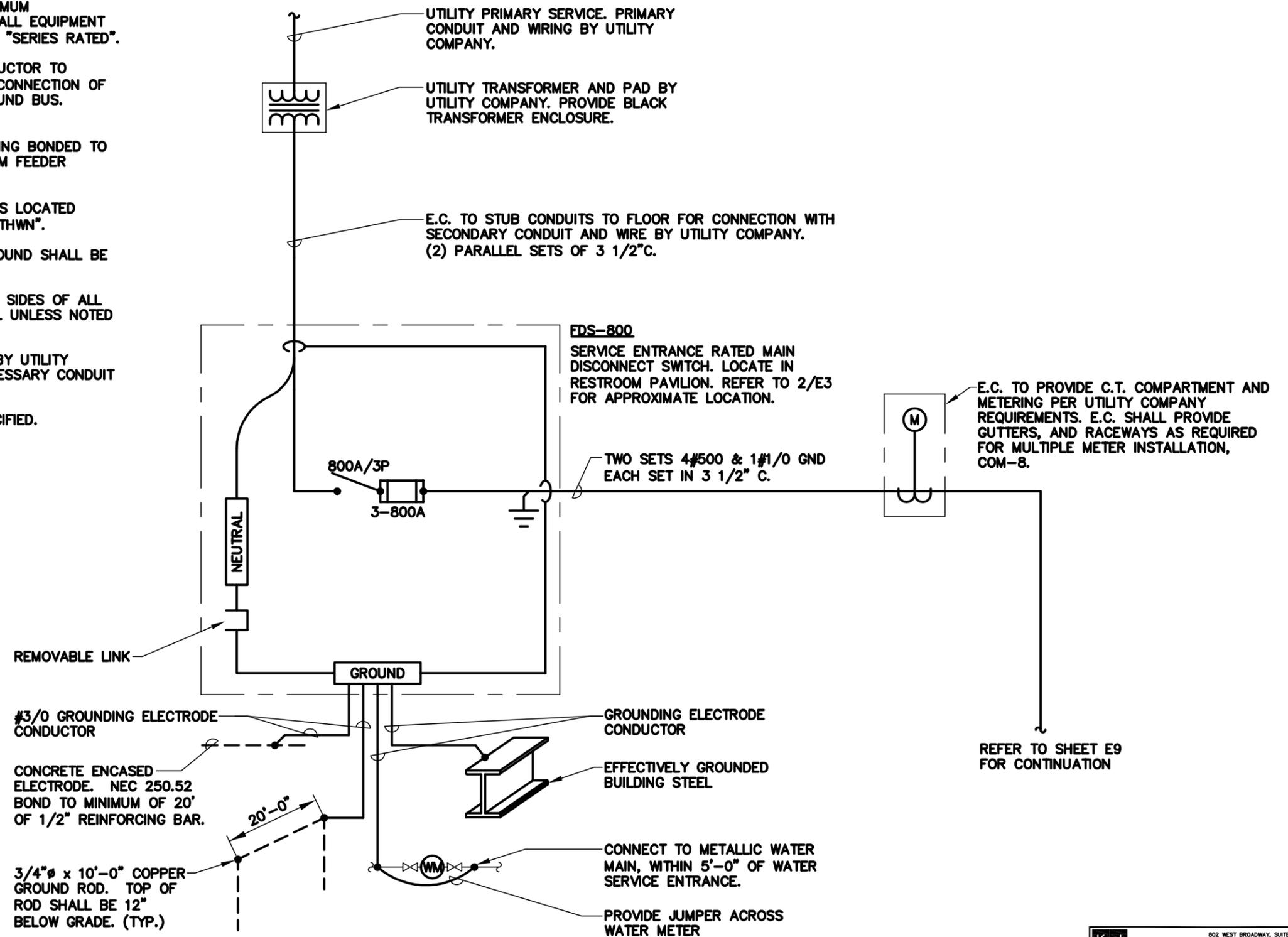
NO SCALE

NOTES:

1. INSTALL 200 lb TENSILE STRENGTH PULL ROPE IN ALL EMPTY CONDUITS.
2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATIONS.

ONE LINE DIAGRAM NOTES:

- 1 SCCR AND AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS "SERIES RATED".
- 2  INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT "1" INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS. SUBSCRIPT "E" INDICATES EARTHING CONNECTION.
- 3  INDICATES O.Z. GEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
- 4 ALL WIRE SHALL BE TYPE "THHN" ABOVE GRADE. FEEDERS LOCATED BELOW FLOOR SLAB OR UNDERGROUND SHALL BE TYPE "THWN".
- 5 ALL CONDUIT LOCATED BELOW FLOOR SLAB OR UNDERGROUND SHALL BE PVC SCHEDULE 40 UNLESS NOTED OTHERWISE.
- 6 CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
- 7  INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY. PROVIDE METER SOCKET AND ALL NECESSARY CONDUIT AS REQUIRED BY UTILITY.
- 8  INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.

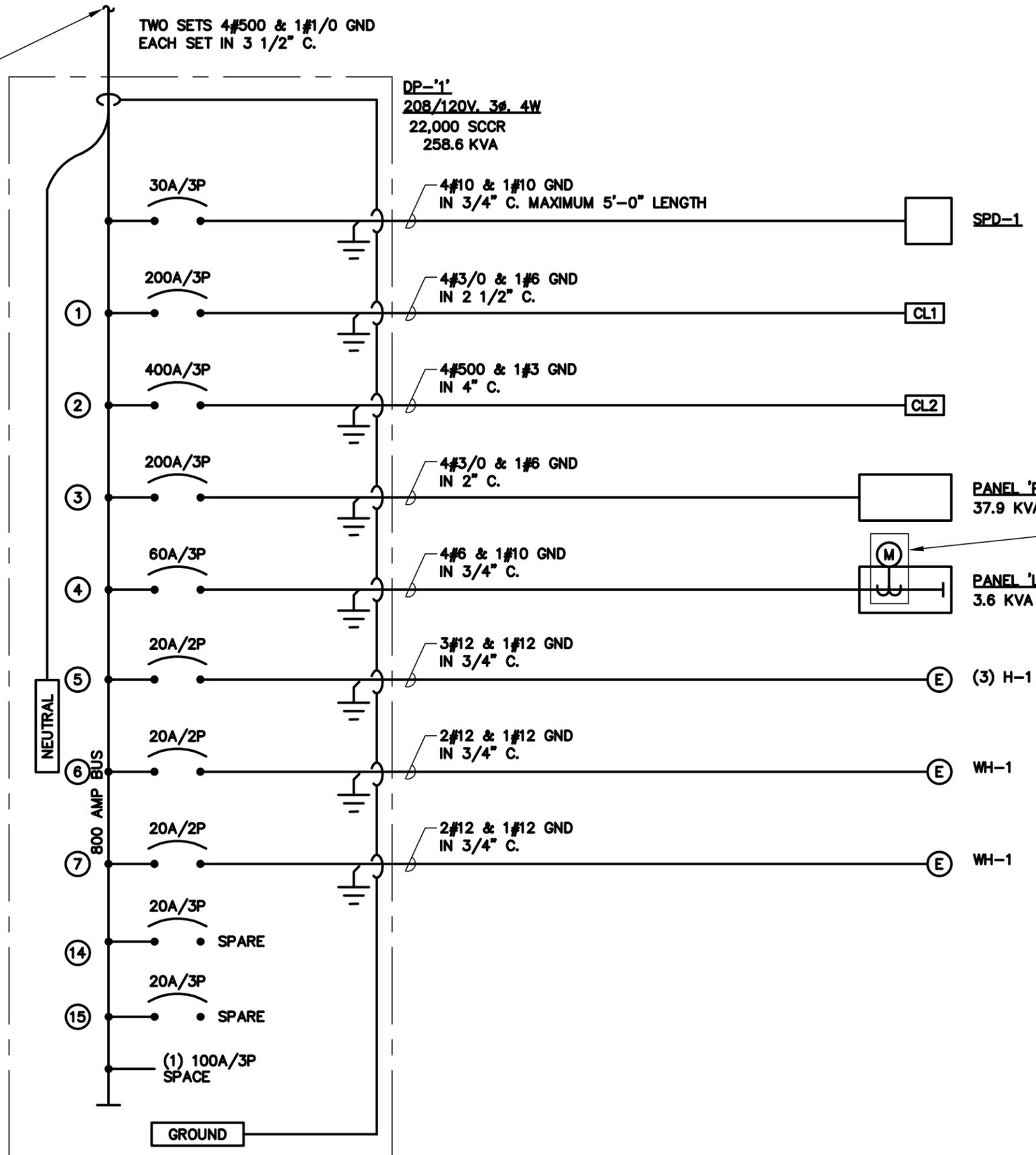


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REFERENCE SCALE IN INCHES
 0 1 2 3

REFER TO SHEET E8
FOR CONTINUATION



METER FOR SITE LIGHTING LOADS. E.C. TO PROVIDE C.T.S AND METERING CABINET PER UTILITY COMPANY REQUIREMENTS. MOUNT ADJACENT TO PANEL. E.C. SHALL PROVIDE GUTTERS, AND RACEWAYS AS REQUIRED FOR MULTIPLE METER INSTALLATION, COM-8.

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REFERENCE SCALE IN INCHES
 0 1 2 3

| PANEL NAME: P1 | | | | | | | | | | | |
|-----------------------|------------------|-----------|----------|-----------------------------|-----------|-------------|-----------|--------------------|-----------|-------------------------------|---------|
| TYPE: BOLT-ON | | | | SOLID NEUTRAL GROUND BUS | | | | CONNECTED 41.2 KVA | | | |
| MOUNTING: SURFACE | | | | | | | | MAIN: 200A MLO | | | |
| FED FROM: DP-1 | | | | | | | | VOLTS: 208Y / 120 | | | |
| AIC RATING: 22,000 | | | | | | | | PHASE: 3 | | | |
| | | | | | | | | WIRE: 4 | | | |
| CKT NO. | LOAD DESCRIPTION | WIRE SIZE | LOAD KVA | BREAKER AMP | BREAKER P | BREAKER AMP | BREAKER P | LOAD KVA | WIRE SIZE | LOAD DESCRIPTION | CKT NO. |
| 1 | 6 RECEPT | 12 | 1.2 | 20 | 1 | 20 | 1 | 1.8 | 4 | HH-2 | 2 |
| 3 | 6 RECEPT | 12 | 1.2 | 20 | 1 | 20 | 1 | 0.8 | 12 | F-1, F-2, F-3 | 4 |
| 5 | HAND DRYER | 12 | 1.8 | 20 | 1 | 20 | 1 | 1.3 | 12 | 4-F2, 6-F4, 2-F6, 3-F9, 6-F10 | 6 |
| 7 | HAND DRYER | 12 | 1.8 | 20 | 1 | 20 | 1 | 1.0 | 12 | RR-1 | 8 |
| 9 | IRRIGATION PUMP | 8 | 6.1 | 35 | 3 | 20 | 1 | 1.0 | 12 | HT-1 | 10 |
| 11 | ----- | -- | -- | -- | -- | 20 | 1 | | | SPARE | 12 |
| 13 | ----- | -- | -- | -- | -- | 20 | 1 | | | SPARE | 14 |
| 15 | HH-1 | 8 | 0.8 | 20 | 1 | 20 | 1 | 0.8 | 8 | HH-1 | 16 |
| 17 | HH-1 | 8 | 0.6 | 20 | 1 | 20 | 1 | 0.6 | 8 | HH-1 | 18 |
| 19 | HH-1 | 8 | 0.8 | 20 | 1 | 20 | 1 | 0.8 | 8 | HH-1 | 20 |
| 21 | HH-1 | 8 | 0.6 | 20 | 1 | 20 | 1 | 0.6 | 8 | HH-1 | 22 |
| 23 | HH-1 | 8 | 0.8 | 20 | 1 | 20 | 1 | 0.8 | 8 | HH-1 | 24 |
| 25 | HH-1 | 8 | 0.6 | 20 | 1 | 20 | 1 | 0.6 | 8 | HH-1 | 26 |
| 27 | HH-1 | 8 | 0.8 | 20 | 1 | 20 | 1 | 0.8 | 8 | HH-1 | 28 |
| 29 | HH-1 | 8 | 0.6 | 20 | 1 | 20 | 1 | 0.6 | 8 | HH-1 | 30 |
| 31 | HH-3 | 8 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 8 | HH-3 | 32 |
| 33 | HH-3 | 6 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 8 | HH-3 | 34 |
| 35 | HH-3 | 6 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 6 | HH-3 | 36 |
| 37 | HH-3 | 4 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 4 | HH-3 | 38 |
| 39 | HH-3 | 4 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 4 | HH-3 | 40 |
| 41 | HH-3 | 4 | 1.0 | 20 | 1 | 20 | 1 | 1.0 | 4 | HH-3 | 42 |

KEY: *G = GFCI BREAKER

| PANEL NAME: L1 | | | | | | | | | | | |
|-----------------------|------------------|-----------|----------|--------------------------------------------------|-----------|-------------|-----------|-------------------|-----------|------------------|---------|
| TYPE: BOLT-ON | | | | SOLID NEUTRAL GROUND BUS MAIN BUS METERING | | | | CONNECTED 2.1 KVA | | | |
| MOUNTING: SURFACE | | | | | | | | MAIN: 60A MLO | | | |
| FED FROM: DP-1 | | | | | | | | VOLTS: 208Y / 120 | | | |
| AIC RATING: 22,000 | | | | | | | | PHASE: 3 | | | |
| | | | | | | | | WIRE: 4 | | | |
| CKT NO. | LOAD DESCRIPTION | WIRE SIZE | LOAD KVA | BREAKER AMP | BREAKER P | BREAKER AMP | BREAKER P | LOAD KVA | WIRE SIZE | LOAD DESCRIPTION | CKT NO. |
| 1 | FUTURE | 8 | 0.4 | 20 | 1 | 20 | 1 | | | SPARE | 2 |
| 3 | 7-F8A, 5-F8B | 8 | 0.5 | 20 | 1 | 20 | 1 | | | SPARE | 4 |
| 5 | 8-F8A | 6 | 0.3 | 20 | 1 | | | | | SPACE | 6 |
| 7 | 7-F8A | 6 | 0.3 | 20 | 1 | | | | | SPACE | 8 |
| 9 | SPARE | | | 20 | 1 | | | | | SPACE | 10 |
| 11 | 22-F1 | 12 | 0.6 | 20 | 1 | | | | | SPACE | 12 |

KEY:*R=THRU RELAY PANEL

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REFERENCE SCALE IN INCHES

DISCONNECT AND STARTER SCHEDULE

STARTER TYPE:

FV - FULL VOLTAGE
 YD - WYE - DELTA
 RE - REVERSING
 TW - 2 SPEED, 2 WINDING
 SW - 2 SPEED, 1 WINDING
 RV - REDUCED VOLTAGE AUTOXFMR
 SS - SOLID STATE
 MS - MANUAL STARTER
 MX - MANUAL SWITCH
 FS - FUSED SWITCH

REMARKS:

SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)
 *CT - CONTROL TRANSFORMER, FUSED 120V
 *EO - ELECTRONIC OVERLOAD
 *HA - HAND-OFF-AUTO IN DOOR
 *RP - RED (RUN) PILOT LIGHT IN DOOR
 *TA - TWO CONVERTIBLE AUXILIARY CONTACTS
 S/N - INSULATED NEUTRAL ASSEMBLY
 PF - PHASE FAILURE RELAY (5 HP OR GREATER)
 TO - MELTING THERMAL OVERLOADS
 TS - 2 SPEED SELECTOR SWITCH IN DOOR
 GP - GREEN (OFF) PILOT LIGHT IN DOOR
 FA - 4-CONVERTIBLE AUXILIARY CONTACTS
 EI - ELECTRICAL INTERLOCK (2)-N.O.& (2)-N.C
 SS - START-STOP PUSHBUTTON IN DOOR
 HL - HANDLE PADLOCK HASP

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

| ITEM | DISCONNECT TYPE & RATING | | | CIRCUIT BREAKER | VOLTAGE | POLES | STARTER | | NEMA ENCLOSURE | REMARKS | APPROVED MANUFACTURERS |
|----------------|--------------------------|-----------|-----------|-----------------|---------|-------|---------|--|----------------|-----------------------|---------------------------------------------------------------------------------------------|
| | HEAVY DUTY SWITCH | | NEMA SIZE | | | | TYPE | | | | |
| | FUSED | NON-FUSED | | | | | | | | | |
| <u>FDS-800</u> | 800A | | | | 600 | 3 | | | 1 | FUSED AT 800 AMPS S/N | SQUARE D 3110 H367N CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HF |

Low Voltage Relay Panel - RR/1

| Relay | Room Name/ Load Description | Program |
|-------|--------------------------------|---------------------------------|
| 01 | BREARLY BLOCK PEDESTRIAN POLES | Photocell On/Timeclock Off |
| 02 | PEDESTRIAN / ROADWAY CROSSING | Photocell On/Off |
| 03 | GREAT LAWN PEDESTRIAN POLES | Photocell On/Off, Timeclock Off |
| 04 | GREAT LAWN PEDESTRIAN POLES | Photocell On/Timeclock Off |
| 05 | FUTURE | |
| 06 | RESTROOM PERIMETER UPLIGHTS | Photocell On/Timeclock Off |
| 07 | FUTURE | |
| 08 | SPARE | |
| 09 | SPARE | |
| 10 | SPARE | |
| 11 | SPARE | |
| 12 | SPARE | |

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REFERENCE SCALE IN INCHES

LUMINAIRE SCHEDULE

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MOUNTING: (MTG) RE - RECESSED SP - SUSPENDED CL - CEILING SURFACE WL - WALL UC - UNDER CABINET CV - COVE PL - POLE O - OTHER (SEE DESCRIPTION) | LAMP TYPE: FL - FLUORESCENT CF - COMPACT FLUORESCENT HL - HALOGEN IN - INCANDESCENT LED - LIGHT EMITTING DIODE HS - HIGH PRESSURE SODIUM MH - METAL HALIDE SMH - SUPER METAL HALIDE PSMH - PULSE START METAL HALIDE CMH - CERAMIC METAL HALIDE O - OTHER (SEE DESCRIPTION) XL - EXTENDED LIFE XLP - EXTENDED LIFE & OUTPUT | LENS/LOUVER: (L/L) A - .125" ACRYLIC B - BLACK BAFFLE C - CLEAR ALZAK D - PARABOLIC F - FRESNEL G - TEMPERED GLASS H - WALL WASHER P - POLYCARBONATE K - KSH12 .125" ACRYLIC K19 - KSH19 .156" ACRYLIC L - LOW IRIDESCENT SPECULAR ALUM. N - NONE R - HIGH IMPACT DR ACRYLIC O - OTHER (SEE DESCRIPTION) |
| DOOR: FA - FLAT ALUMINUM FS - FLAT STEEL RA - REGRESSED ALUMINUM RS - REGRESSED STEEL | BALLAST: (BLS) DIM - DIMMING BALLAST EB - ELECTRONIC BALLAST EM - EMERGENCY BATTERY/BALLAST DALI - DIGITAL DIMMING BALLAST | ##BF - BALLAST FACTOR HL - HIGH / LOW LEVEL BALLAST HP - HIGH PERFORMANCE-LOW BALL. FACTOR ML - MULTI-LEVEL SWITCHING MV - MULTI-VOLTAGE ELECTRONIC |
| FINISH: PAF - PAINT AFTER FABRICATION CSA - FINISH SELECTION BY ARCHITECT | | |

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN. REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 3000°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

| ITEM | DESCRIPTION | NOMINAL | | LAMPS | | VOLTS / BLS | L/L | APPROVED MANUFACTURER |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|-------|-------------------------------------------------------------------|-------------|-----|---------------------------------------------------------------|
| | | SIZE | MTG | TYPE | QUANTITY & SIZE | | | |
| F1 | STAINLESS STEEL RECESSED IN-GRADE EXTERIOR LUMINAIRE WITH 10 DEGREE BEAM. AIMABLE TO 30 DEGREES WITH 180 DEGREE ROTATION. | 8" DIA 7.5" DEEP | O | PSMH | 1 20 WATT CERAMIC METAL HALIDE | 120V | O | BEGA 8700MH TARGETTI PHENIX HYDREL |
| F2 | LINEAR GRAZER STATIC WHITE LIGHT. WET LOCATION LISTED. REFER TO MOUNTING DETAIL. PROVIDE WITH TAMPER RESISTANT MOUNTING SCREWS. | 2'L 2.75"W 1.9"H | O | LED | 15 WATTS PER FOOT 437 LUMENS PER FOOT 2700K 83 CRI | 120V | N | COLOR KINETICS EW GRAZE POWERCORE LUMEN PULSE TRAXON |
| F3 | NOT USED. | | | | | | | |
| F4 | 4' LONG MAXIMUM SECURITY CORNER/WALL MOUNT LUMINAIRE. LENS: 0.125 PRISMATIC ACRYLIC FIXTURE SIDE, 0.187 CLEAR POLYCARBONITE ENVIRONMENTAL SIDE. | 50"L 8.5"H 8.5" EXT | WL | FL | 2 32 WATT T8/XLP | 120V HP | O | FAILSAFE FCC KENALL COLE |
| F5 | NOT USED. | | | | | | | |

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REFERENCE SCALE IN INCHES

LUMINAIRE SCHEDULE CONTINUED

| | | | | | | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----|-----|---------------------------------------------------------------------------|------------|---|---------------------------------------------------------------------------------------------------------|
| F6 | ADDRESSABLE RED, GREEN, BLUE LINEAR NARROW BEAM COVE. APPROXIMATELY 115' REQUIRED. | 1.5" DIA 6" OR 12" LONG | O | LED | 3 WATTS PER FOOT | 120V | O | COLOR KINETICS ECOLOR COVE EC POWERCORE LUMEN PULSE TRAXON |
| F7 | NOT USED. | | | | | | | |
| F8A | FULL-CUTOFF PEDESTRIAN SCALE PATHWAY POLE MOUNTED LIGHT, TYPE II DISTRIBUTION. MATTE BLACK POWDER COAT FINISH. POLE PROVIDED BY CITY OF MADISON. CONTRACTOR TO COORDINATE ANCHOR BOLTS AND PICKUP OF POLE WITH THE CITY OF MADISON. CONTRACTOR TO DRILL HOLES IN POLE FOR MOUNTING OF NEW LUMINAIRE. | 23.3"L 16.3"W 8"H | PL | LED | 1 7 LED LIGHTBARS TOTAL 27 WATTS 1755 LUMENS 3000K CCT 80 CRI | 120V | O | MCGRAW-EDISON TALON TLM-C01-T2-BK-8030 (CITY STANDARD MODEL) EMCO LED AREA LITHONIA AS1 |
| F8B | FULL-CUTOFF PEDESTRIAN SCALE PATHWAY POLE MOUNTED LIGHT, TYPE II DISTRIBUTION. MATTE BLACK POWDER COAT FINISH. POLE PROVIDED BY CITY OF MADISON. CONTRACTOR TO COORDINATE ANCHOR BOLTS AND PICKUP OF POLE WITH THE CITY OF MADISON. CONTRACTOR TO DRILL HOLES IN POLE FOR MOUNTING OF NEW LUMINAIRE. | 23.3"L 16.3"W 8"H | PL | LED | 2 7 LED LIGHTBARS TOTAL 54 WATTS 3509 LUMENS 3000K CCT 80 CRI | 120V | O | MCGRAW-EDISON TALON TLM-C02-T2-BK-8030 (CITY STANDARD MODEL) EMCO LED AREA LITHONIA AS1 |
| F9 | SURFACE CEILING MOUNTED UTILITY DOWNLIGHT WITH FLAT LENS. | 9.2"H 3.5" DIA | CL | LED | 1 19 WATT 1073 LUMEN 5000K | 120V | O | HUBBELL LED V SERIES RAB VP LED CANLET |
| F10 | 4' STANDARD CHANNEL STRIP WITH WIREGUARD | 4.5"W 3"D 4'L | CV | FL | 2 32 WATT T8/XLP | 120V HP | N | LITHONIA C232 DAY-BRITE T232 H.E.WILLIAMS 76-4-232 COLUMBIA CS4-232 METALUX SS-232 |
| EM1 | WET LOCATION LISTED WALL MOUNTED TWO-LAMP EGRESS LUMINAIRE WITH NI-CAD BATTERY AND SELF-DIAGNOSTICS. | 9.5"H 6.5"W 2.8"EXT | WL | HL | 2 6W WATT 6V WEDGE BASE XENON | 120V | O | LITHONIA AFN-BN-EXT-PREM DUAL-LITE PGN SURE-LITES AEL |

| | | |
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| REFERENCE SCALE IN INCHES | | |
| 0 1 2 3 | | |

GENERAL ELECTRICAL EQUIPMENT SCHEDULE

THE SYMBOLS AND THE EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

| ITEM NO. | SYMBOL | DESCRIPTION | APPROVED MANUFACTURERS |
|----------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 | DEVICE COLOR | ALL SWITCH, RECEPTACLE, OUTLET, AND COVERPLATE COLORS SHALL BE IVORY, UNLESS INDICATED OTHERWISE. | HUBBELL LEVITON PASS & SEYMOUR COOPER |
| 2 | COVER PLATES | ALL SWITCHES, RECEPTACLES, AND OUTLETS SHALL BE COMPLETE WITH #302 STAINLESS STEEL COVERPLATES IN FINISHED SPACES WHERE WALLS ARE FINISHED; #302 STAINLESS STEEL COVERPLATES IN UNFINISHED SPACES FOR FLUSH BOXES; AND GALVANIZED STEEL COVERPLATES IN UNFINISHED SPACES FOR SURFACE MOUNTED BOXES. WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVER PLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED. | HUBBELL LEVITON PASS & SEYMOUR COOPER |
| 3 |  | OUTDOOR LISTED REMOTE TRANSFORMER FOR LUMINAIRE TYPE F7. | MANUFACTURER OF LUMINAIRE TYPE F7 |
| 4 |  | PROGRAMMING CONTROLLER FOR LUMINAIRE TYPES F2 AND F6. | MANUFACTURER OF LUMINAIRE TYPES F2 AND F6. COLOR KINETICS IPLAYER 3 |
| 5 |  | PRESET RECALL STATION FOR LUMINAIRE TYPES F2 AND F6. TO FUNCTION WITH PROGRAMMING CONTROLLER. | MANUFACTURER OF LUMINAIRE TYPES F2 AND F6. COLOR KINETICS ICOLOR KEYPAD |
| 6 |  | RECEPTACLE, DUPLEX, 125 VOLT, 20 AMP, 3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R, IMPACT RESISTANT THERMOPLASTIC FACE, STEEL BACK STRAP. | HUBBELL 5352A LEVITON 5362-S PASS & SEYMOUR 5362 COOPER 5352 |
| 7 |  | RECEPTACLE, GROUND FAULT DUPLEX, 125 VOLT, 20 AMP, 3 WIRE GROUNDING TYPE, N.E.M.A. 5-20R. TEST AND RESET BUTTONS IN IMPACT RESISTANT THERMOPLASTIC FACE. | HUBBELL GF20L LEVITON 7899 PASS & SEYMOUR 2095 COOPER VGF20 |
| 8 |  | ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZE PER N.E.C. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING EQUIPMENT OR MOTOR. REFER TO SPECIFICATIONS AND GENERAL INSTALLATION NOTES FOR TERMINATIONS TO MOTORS. | REFER TO SPECIFICATIONS |
| 9 |  | DISTRIBUTION PANEL, CIRCUIT BREAKER TYPE, 208/120 VOLT, 3 PHASE, 800 AMP, S/N, GROUND BUS, 22,000 A.I.C., SURFACE MOUNTED NEMA 1 ENCLOSURE, SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS. | SQUARE D I-LINE GENERAL ELECTRIC SIEMENS P4 CUTLER-HAMMER PRL5 |


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REFERENCE SCALE IN INCHES
 0 1 2 3

GENERAL ELECTRICAL EQUIPMENT SCHEDULE (CONTINUED)

| | | | |
|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | — | PANELBOARD, SURFACE MOUNT, 208/120 VOLT, 3 PHASE, 4 WIRE, S/N, GROUND BUS, COPPER BUS, BOLT-ON BREAKERS, NEMA 1 ENCLOSURE, REFER TO SCHEDULES FOR SIZE AND CONFIGURATION, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. | SQUARE D NQ GENERAL ELECTRIC AQ SIEMENS P1 CUTLER-HAMMER PRL1 |
| 11 | HH-1 | HANDHOLE, COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE. BOLTED NON-SKID COVER RATED FOR 8,000 LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. EXTENSIONS AS REQUIRED BY CONDUIT DEPTH. UNITS IN PLAZA AREAS SHALL BE PECAN IN COLOR. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. OPEN BOTTOM AND GASKETED LID, 11"W, 18"L, 18"D. REFER TO DETAIL 1/E7. PROVIDE ONE (1) 125V, 20A INDUSTRIAL SPECIFICATION GRADE DUPLEX NEMA 5-20R GFCI RECEPTACLES WITH WEATHERPROOF SINGLE-GANG BOX AND WEATHERPROOF WHILE-IN-USE COVER MOUNTED INSIDE BOX. PROVIDE SIX (6) 120V, 20A STRAIGHT BLADE WATERTIGHT DEVICE WITH THERMOPLASTIC ELASTOMER YELLOW CONNECTOR ON 36" SOW CORD COILED IN BOX. THREE DEVICES FOR EACH CIRCUIT. | HUBBELL/QUAZITE PG1118BB18 PG1118HG00 CARSON INDUSTRIES H SERIES ARMORCAST HUBBELL GF20L/RW57300 LEVITON 7899/5977-CL COOPER VGF20/WIU-1 HUBBELL 15W33H LEVITON 15W33 |
| 12 | HH-2 | HANDHOLE, COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE. BOLTED NON-SKID COVER RATED FOR 5,000 LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. EXTENSIONS AS REQUIRED BY CONDUIT DEPTH. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. OPEN BOTTOM AND GASKETED LID, 8"W, 18"L, 18"D. REFER TO DETAIL 1/E7. | HUBBELL/QUAZITE PC0818BB07 PC0818CG00 CARSON INDUSTRIES H SERIES ARMORCAST |
| 13 | HH-3 | HANDHOLE, COMPOSITE POLYMER CONCRETE BODY AND COVER. STAINLESS STEEL HARDWARE. BOLTED NON-SKID COVER RATED FOR 5,000 LB. DESIGN LOAD OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC. EXTENSIONS AS REQUIRED BY CONDUIT DEPTH. UNITS IN LANDSCAPED AREAS SHALL BE GREEN IN COLOR. OPEN BOTTOM AND GASKETED LID, 11"W, 18"L, 18"D. REFER TO DETAIL 1/E7. PROVIDE ONE (1) 125V, 20A INDUSTRIAL SPECIFICATION GRADE DUPLEX NEMA 5-20R GFCI RECEPTACLE WITH WEATHERPROOF SINGLE-GANG BOX AND WEATHERPROOF WHILE-IN-USE COVER MOUNTED INSIDE BOX. PROVIDE FOUR (4) 120V, 20A STRAIGHT BLADE WATERTIGHT DEVICE WITH THERMOPLASTIC ELASTOMER YELLOW CONNECTOR ON 36" SOW CORD COILED IN BOX. | HUBBELL/QUAZITE PC1118BB18 PC1118CG00 CARSON INDUSTRIES H SERIES ARMORCAST HUBBELL GF20L/RW57300 LEVITON 7899/5977-CL COOPER VGF20/WIU-1 HUBBELL 15W33H LEVITON 15W33 |
| 14 | CL1 | COMPANY SWITCH, 200 AMP MAIN BREAKER, CAM-LOCK OUTPUT, SINGLE NEUTRAL. WALL MOUNTED STEEL ENCLOSURE, INTERIOR COMPARTMENTS SHUNT-TRIP PROTECTED. | ETC CS200-1S OR APPROVED EQUAL |
| 15 | CL2 | COMPANY SWITCH, 400 AMP MAIN BREAKER, CAM-LOCK OUTPUT, SINGLE NEUTRAL. WALL MOUNTED STEEL ENCLOSURE, INTERIOR COMPARTMENTS SHUNT-TRIP PROTECTED. | ETC CS400-1S OR APPROVED EQUAL |
| 16 | RR/1 | LOW VOLTAGE RELAY PANEL WITH INTERFACE FOR EXTERIOR PHOTOCCELL AND INTEGRAL ASTRONOMIC TIMECLOCK. 120V INPUT CONTROLLER VOLTAGE. PROGRAMMABLE ENTIRELY FROM THE FRONT OF THE PANEL WITH INTEGRAL USER INTERFACE. | LC&D GREENGATE HUBBELL BUILDING AUTOMATION |

| | | |
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GENERAL ELECTRICAL EQUIPMENT SCHEDULE (CONTINUED)

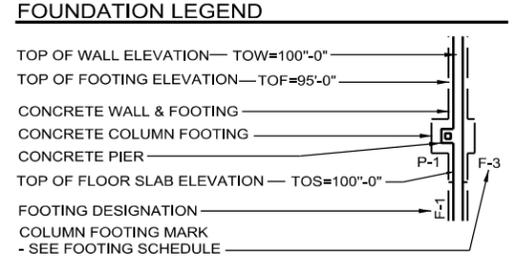
| | | | |
|----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17 | Ⓟ | PHOTOCELL, 120/277 VOLT, 1800 V.A. RATED, SINGLE POLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. MOUNT FACING NORTH. U.L. LISTED. | PARAGON CW-201-70 TORK 2107 INTERMATIC K4236 |
| 18 | SPD-1 | SURGE PROTECTION DEVICE, NON-MODULAR SERVICE ENTRANCE TYPE, CATEGORY C3 RATING, EXTERNAL MOUNTED CABINET AND 208/120 VOLT, 3 PHASE, 4 WIRE, REFER TO SPECIFICATION SECTION 26 43 00 FOR ADDITIONAL INFORMATION. | SQUARE D CLASS 1310 EMB SERIES SIEMENS TPS3 SERIES CUTLER HAMMER SPD SERIES GENERAL ELECTRIC TR7 SERIES LIEBERT ACVII SERIES LEA INTERNATIONAL LSS SERIES |
| 19 | S _O | OCCUPANCY SENSOR WALL SWITCH, PASSIVE INFRARED, ZERO CROSSING CIRCUITRY, ADJUSTABLE SENSITIVITY AND TIME DELAY, NO MINIMUM LOAD REQUIREMENTS, MANUAL OR AUTO ON OPERATION, 5 YEAR WARRANTY. INITIAL SETTINGS: 10 MINUTES, AMBIENT SENSOR 40 FC. | WATT STOPPER PW-100 SERIES SENSOR SWITCH WSD HUBBELL INC. LHIRS1 OR AP1277 LEVITON ODS15 GREENGATE OSW-P-0451 |
| 20 | Ⓞ _D | OCCUPANCY SENSOR, CEILING MOUNTED 360 DEGREE, DUAL TECHNOLOGY PASSIVE INFRARED/ULTRASONIC FREQUENCY GREATER THAN 40 KHz, DUAL SENSING VERIFICATIONS (REQUIRES BOTH TECHNOLOGIES TO ACTIVATE), EITHER TECHNOLOGY MAINTAINS ON STATUS, ADJUSTABLE SENSITIVITY AND TIME DELAY, 5 YEAR WARRANTY. SENSOR SHALL CONTROL ALL CIRCUITS IN AREA, UNLESS NOTED OTHERWISE. INITIAL SETTINGS: TIME DELAY 10 MINUTES, AMBIENT SENSOR 40FC. CONTRACTOR SHALL SUBMIT MANUFACTURER SUPPLIED SENSOR COVERAGE DRAWING FOR SHOP DRAWING REVIEW. | WATT STOPPER DT 300 SERIES HUBBELL INC. OMNI-DT2000 OR ATD2000C LEVITON OSC##-MOW |
| 21 | Ⓞ _P | OCCUPANCY SENSOR, PASSIVE INFRARED, CEILING MOUNTED, 360 DEGREE COVERAGE PATTERN, ZERO CROSSING CIRCUITRY, INTEGRATED AMBIENT LIGHT SENSOR (4-190 FC RANGE), ADJUSTABLE SENSITIVITY AND TIME DELAY, 5 YEAR WARRANTY. SENSOR SHALL CONTROL ALL CIRCUITS IN AREA, UNLESS NOTED OTHERWISE. INITIAL SETTINGS: TIME DELAY 10 MINUTES, AMBIENT SENSOR 40FC. CONTRACTOR SHALL SUBMIT MANUFACTURER SUPPLIED SENSOR COVERAGE DRAWING FOR SHOP DRAWING REVIEW. | WATT STOPPER CI SERIES SENSOR SWITCH CM-9 HUBBELL INC. OMNI-IR OR ATP600C LEVITON OSC SERIES GREENGATE OMR-P SERIES |
| 22 | S _p | SWITCH, RED PILOT LIGHT, SINGLE POLE 120 VOLT MAINTAINED CONTACT, TOGGLE HANDLE, PILOT LIGHT ON WHEN CONTACT CLOSED (SWITCH ON). SIDE AND BACK WIRED. PROVIDE LABEL FOR SWITCH INDICATING HEAT TRACE CONTROL. | HUBBELL HBL1221PL LEVITON 1221-PLR PASS & SEYMOUR PS20AC1-RPL COOPER 2221PL |
| 23 | HI-1 | HEAT TAPE, SELF-LIMITING, 12 WATTS PER FOOT, 120 VOLT. HEAT TAPE SUITABLE FOR FREEZE PROTECTION OF PIPING. HEAT TAPE SHALL BE MEGGERED PRIOR TO INSULATING PIPING. POWER CONNECTION, END SEAL AND SPLICES AS REQUIRED. | RAY-CHEM GM-1X CHROMALOX |

| | | |
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| DESIGN LOADINGS | |
|-------------------------------------------------------|-----------|
| BUILDING CATEGORY | II |
| WIND LOAD | |
| BASIC WIND SPEED | 90 mph |
| WIND IMPORTANCE FACTOR, I_w | 1.00 |
| WIND EXPOSURE | B |
| INTERNAL PRESSURE COEFFICIENT COMPONENTS AND CLADDING | +/- 0.18 |
| EXTERIOR: DOOR, WINDOWS AND LOUVERS | 30 psf |
| ROOF UPLIFT | 15.4 psf |
| ROOF OVERHANG UPLIFT | 21.6 psf |
| ADDITIONAL ROOF LOADS | |
| DEAD LOAD, TOTAL | 60 psf |
| SEISMIC DESIGN DATA | |
| SEISMIC IMPORTANCE FACTOR, I_e | 1.00 |
| MAPPED SPECTRAL RESPONSE ACCELERATIONS | |
| S_s | 0.107 |
| S_1 | 0.044 |
| SPECTRAL RESPONSE COEFFICIENTS | |
| S_{ds} | 0.11 |
| S_{d1} | 0.07 |
| SEISMIC DESIGN CATEGORY | B |
| BASIC SEISMIC-FORCE-RESISTING SYSTEM | |
| ORDINARY PLAIN CONCRETE SHEAR WALLS | |
| DESIGN BASE SHEAR | 26508 lbs |
| SEISMIC RESPONSE COEFFICIENT, C_s | 0.08 |
| RESPONSE MODIFICATION FACTOR | 1.5 |
| ANALYSIS PROCEDURE USED | |
| EQUIVALENT LATERAL FORCE | |
| LIVE LOADS | |
| ROOF LIVE LOAD | 20 psf |
| SNOW LOAD | |
| GROUND SNOW LOAD, P_g | 30 psf |
| FLAT-ROOF SNOW LOAD, P_f | 25.2 psf |
| SLOPED-ROOF SNOW LOAD, P_s | 25.2 psf |
| SNOW EXPOSURE FACTOR, C_e | 1.00 |
| SNOW LOAD FACTOR, I | 1.00 |
| THERMAL FACTOR, C_t | 1.20 |

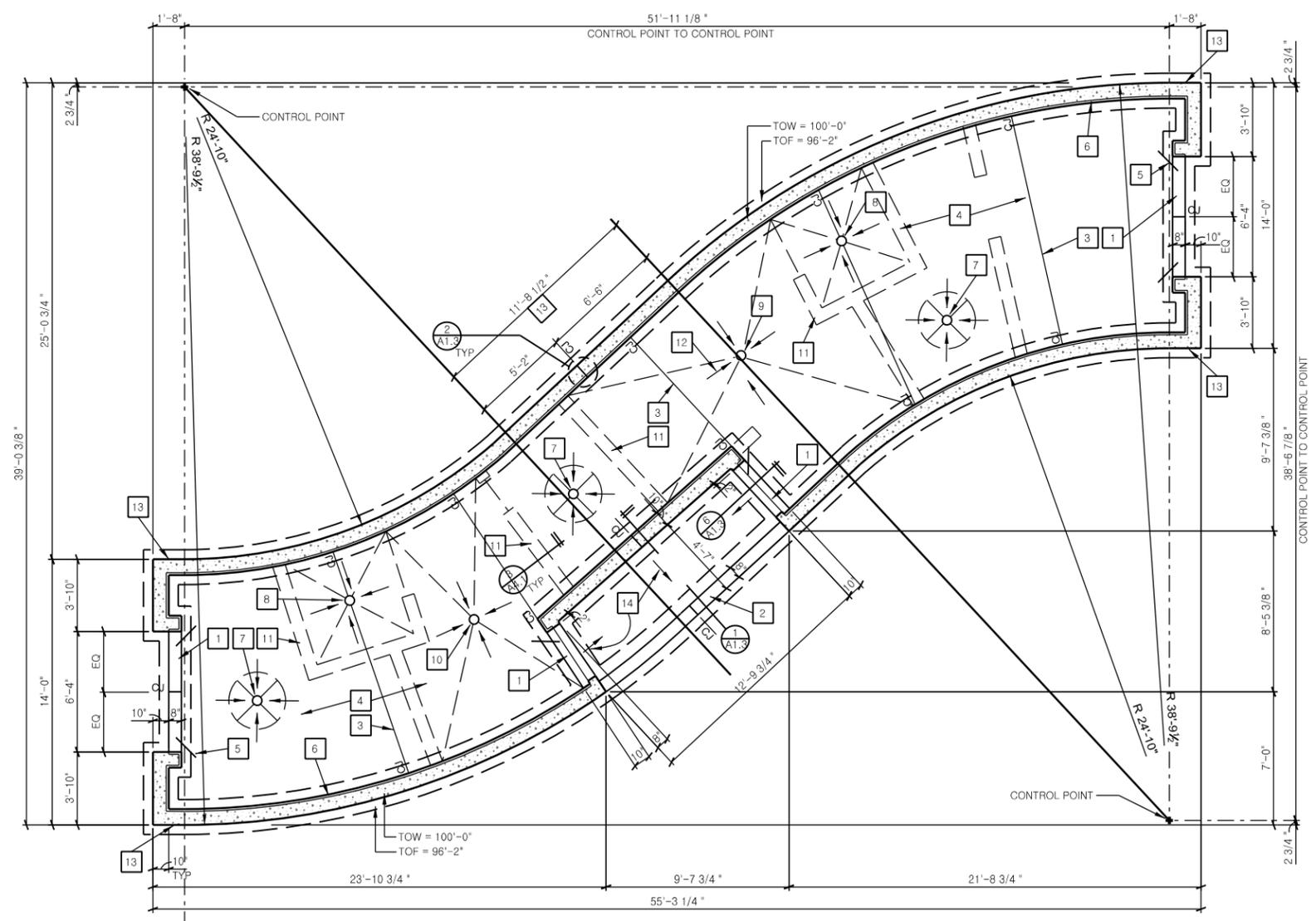
| DESIGN STRESSES | |
|------------------------------------------------------|-------------------|
| CAST-IN-PLACE CONCRETE | |
| FOOTINGS | $f'_c = 4000$ psi |
| WALLS | $f'_c = 4000$ psi |
| SLAB ON GRADE | $f'_c = 4000$ psi |
| OTHER | $f'_c = 4000$ psi |
| STEEL REINFORCING | |
| REINFORCING | $f_y = 60$ ksi |
| BOLTS | |
| ANCHOR | F1554, GRADE 36 |
| SOIL BEARING PRESSURE CAPACITY | |
| PER SOILS REPORT | 1,500 PSF |
| ACTUAL MAXIMUM REQUIRED BEARING PRESSURE AT FOOTINGS | 1,500 PSF |
| LUMBER | |
| 2x4's- SPF STANDARD GRADE | $F_b = 550$ psi |
| 2x6's- SPF STUD GRADE | $F_b = 675$ psi |
| 2x8's & 2x10's - HF NO. 2 AND BETTER | $F_b = 850$ psi |
| 2x12's- DF NO.2 AND BETTER | $F_b = 875$ psi |
| P.T.- SYP NO. 2 AND BETTER | $F_b = 1050$ psi |
| MICROLAM LVL | $F_b = 2600$ psi |
| GLUE-LAMINATED BEAMS | |
| TENSION | $F_b = 2400$ psi |
| COMPRESSION | $F_b = 1850$ psi |
| MASONRY | |
| CMU | $f_m = 1,500$ psi |

| STEEL REINFORCING | |
|----------------------------------------------|--------|
| MIN. CLEAR COVER, UNO | |
| FOUNDATION WALLS | |
| #5 BARS & SMALLER | 1 1/2" |
| #6 BARS & LARGER | 2" |
| NON-STRUCT. SLABS ON GRADE | |
| BOTTOM & SIDES | 1 1/2" |
| TOP | 3/4" |
| FOOTINGS & STRUCT. SLABS ON GRADE | |
| BOTTOM & SIDES | 3" |
| TOP | 2" |
| NOTES | |
| 1. LAP BARS 36" AT SPLICES. | |



- ### GENERAL FOUNDATION NOTES
- CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, VENTILATION, AND PLUMBING PLANS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, ETC. NOTIFY ARCHITECT OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.
 - IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER.
 - SIMILAR PORTIONS OF THE BUILDING SHALL HAVE SIMILAR DETAILING, UNLESS NOTED OTHERWISE.
 - PROVIDE 3'-0"x3'-0" CORNER BARS IN FOUNDATION WALL AT CORNERS. BARS SHALL BE SAME SIZE AND LOCATION OF THE HORIZONTAL REINFORCING.
 - FOOTINGS SHALL BE CENTERED ABOUT THE WALLS, UNLESS NOTED OTHERWISE.
 - ALL WALL FORM TIES SHALL BE KNOCKED OFF FLUSH W/ THE FACE OF THE WALL AT INTERIOR AND EXTERIOR FACE OF WALLS. AT TIES BELOW THE FINISHED FLOOR AND/OR FINISHED GRADE PROVIDE A LAYER OF DAMPROOFING PRODUCT OVER THE REMOVED TIE AREA, TYP.
 - SEE THE WALL SECTIONS AND DETAILS FOR FOUNDATION DOWEL LOCATIONS, SIZES AND SPACINGS REQUIRED, TYP.
 - SEE WALL SECTIONS FOR TYPICAL FOUNDATION WALL REINFORCING SIZING AND LOCATIONS AND DOWELS.
 - REFERENCE THE EXCAVATION SPEC SECTION AND SUBSURFACE SOILS INVESTIGATION REPORT FOR REQUIREMENTS ON THE EXTENT OF EXCAVATION AT THE FOOTINGS.

- ### FOUNDATION PLAN NOTES:
- HOLD TOP OF FOUNDATION WALL DOWN 8" AT DOORS, TYP
 - HOLD TOP OF CONCRETE WALL 8" BELOW TOP OF FINISHED FLOOR
 - SLAB CONTROL/ CONSTRUCTION JOINT (CJ) LOCATION, TYP - SEE DETAIL 5/A1.3
 - 5/8" THICK CONCRETE SLAB W/ 6x6-W2.9xw2.9 WMM OVER 2" RIGID INSULATION, VAPOR BARRIER AND COMPACTED GRANULAR FILL - SEE DETAIL 5/A1.3 FOR VAPOR BARRIER LOCATION
 - (1) #5 x 18" LONG CORNER BAR IN CENTER OF FLOOR SLAB AT DOOR OPENING AND AS SHOWN ON THE PLAN, TYP
 - 1/2" X 5/8" FOUNDATION LEDGE - SEE DETAIL 9/A5.1
 - SLOPE SLAB THIS AREA, TOWARD DRAIN, TOP OF FLOOR DRAIN AT EL 99'-11 1/2" (1/2" BELOW TOP OF FIN FLOOR)
 - SLOPE SLAB THIS AREA, TOWARD DRAIN, TOP OF FLOOR DRAIN AT EL 99'-11 3/8" (3/8" BELOW TOP OF FIN FLOOR)
 - SLOPE SLAB THIS AREA, TOWARD DRAIN, TOP OF FLOOR DRAIN AT EL 99'-11" (1" BELOW TOP OF FIN FLOOR)
 - SLOPE SLAB THIS AREA, TOWARD DRAIN, TOP OF FLOOR DRAIN AT EL 99'-11 1/4" (3/4" BELOW TOP OF FIN FLOOR)
 - CMU WALL LOCATION ABOVE, TYP - SEE FLOOR PLAN
 - SLOPE FLOOR, TYP
 - FOUNDATION WALL TO CONTINUE IN STRAIGHT SEGMENT BEYOND CURVE THIS LOCATION
 - SLOPE CONCRETE STOOP SLAB, TYP - SEE BOX NOTE 1



FOUNDATION PLAN

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

PROJECT NORTH

ART WORKS.

Lorna Jordan Studio
Brearly Block
S. Ingersoll to S. Brearly
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COLUMN/ WALL CURVE DATUM SCHEDULE

| MARK | TOP OF CONCRETE WALL | ELEVATION DIFF | TOP OF COLUMN ELEVATION | REMARKS | |
|------|----------------------|----------------|-------------------------|-------------|-------|
| 1A | 2A | 7'-9 1/2" | 2'-5 1/2" | 10'-3 1/2" | 1. 2. |
| 1B | 2B | 8'-7 1/2" | 2'-5 1/2" | 11'-1" | 1. |
| 1C | 2C | 9'-2 1/2" | 2'-5" | 11'-7 1/2" | 1. |
| 1D | 2D | 9'-6 1/2" | 2'-5 1/2" | 11'-11 1/2" | 1. |
| 1E | SE | 9'-7 1/2" | 2'-5" | 12'- 1/2" | 1. |
| 1F | SF | 9'-3 1/2" | 2'-6 1/2" | 11'-10 1/2" | 1. |
| 1G | SG | 8'-9 1/2" | 2'-6 1/2" | 11'-4" | 1. |
| 1H | 2H | 8'-2 1/2" | 2'-7 1/2" | 10'-10 1/2" | 1. |
| 1I | 2I | 7'-9 1/2" | 2'-8 1/2" | 10'-6 1/2" | 1. |
| 1J | | 7'-7 1/2" | 2'-7 1/2" | 10'-2 1/2" | 1. |
| 1K | | 7'-6 1/2" | 2'-7 1/2" | 10'-2" | 1. |
| 1L | | 7'-8 1/2" | 2'-7 1/2" | 10'-4" | 1. |
| 1M | | 8'-0" | 2'-7 1/2" | 10'-7 1/2" | 1. |
| 1N | 2N | 8'-4" | 2'-7 1/2" | 10'-11 1/2" | 1. |
| 1O | 2O | 8'-7 1/2" | 2'-7 1/2" | 11'-3 1/2" | 1. |
| 1P | 2P | 8'-9 1/2" | 2'-7 1/2" | 11'-5" | 1. |
| 1Q | 2Q | 8'-10 1/2" | 2'-7 1/2" | 11'-6" | 1. |
| 1R | 2R | 8'-9 1/2" | 2'-7 1/2" | 11'-5" | 1. |
| 1S | 2S | 8'-7 1/2" | 2'-8" | 11'-3 1/2" | 1. |
| 1T | 2T | 8'-4 1/2" | 2'-7 1/2" | 11'-0" | 1. |
| 1U | 2U | 8'-1" | 2'-7 1/2" | 10'-8 1/2" | 1. |
| 1V | 2V | 7'-9 1/2" | 2'-5 1/2" | 10'-3 1/2" | 1. 2. |
| 3A | | 9'-11 1/2" | | | |
| 3B | | 10'- 1/2" | | | |
| 3C | | 10'-2 1/2" | | | |
| 3D | | 10'-5 1/2" | | | |
| 3E | | 10'-10" | | | |

REMARKS
 1. COLUMN TO BE HSS 3"x3".
 2. TOP OF CONCRETE WALL AT FACE OF END WALL IS 7'-7 1/2".

GENERAL COMMENTS:
 1. TOP OF CONCRETE WALL ELEVATION IS TAKEN AT CENTER LINE OF COLUMN.

HEADER SCHEDULE

| MARK | SYMBOL | DESCRIPTION |
|------|--------|----------------------------------------------------------|
| H-1 | | (3) 2x6'S NAILED TOGETHER w/ PLYWOOD FILLER (5/8" WIDTH) |

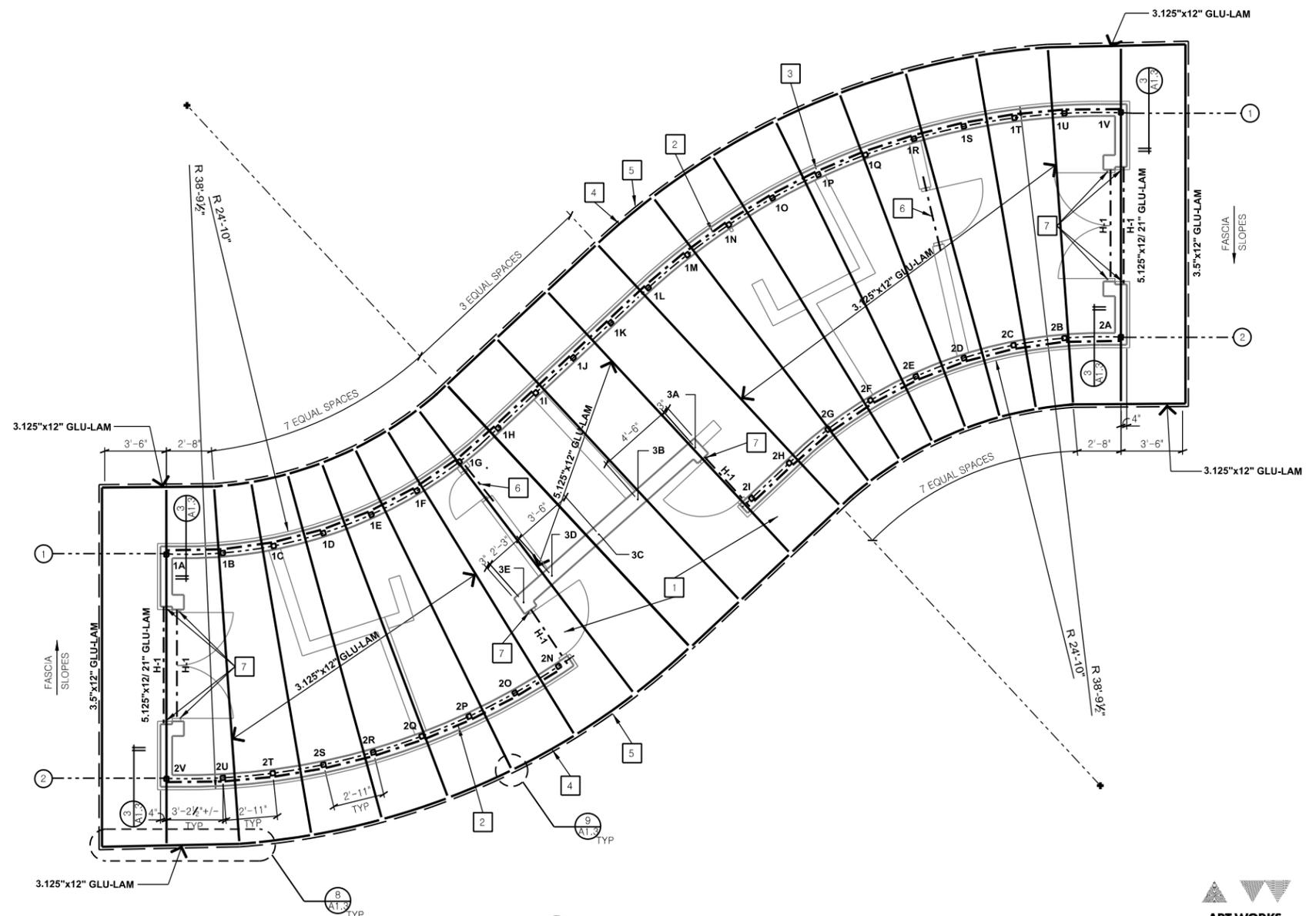
NOTE:
 1. ALL HEADERS AT OPENINGS SHALL HAVE A MINIMUM OF 1 1/2" BEARING AT EACH END UNLESS NOTED OTHERWISE.
 2. HEADER MATERIAL: SEE DESIGN STRESSES ON SHEET A1.1
 3. ALL HEADERS SHALL INCLUDE (1) TOP AND (1) BOTTOM 2x (STUD WIDTH) PLATE AS PART OF THE HEADER AND TO RUN FULL LENGTH OF HEADER

GENERAL FRAMING NOTES

- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- ALL DIMENSIONING IS TO FACE OF CMU OR CONCRETE.
- OPENINGS FOR VENTILATION, PLUMBING AND ELECTRICAL WORK IN WALLS, FLOORS, ROOF, CEILINGS, ETC. SHALL BE PROVIDED BY GC. LOCATION AND SIZE OF THESE OPENINGS SHALL BE THE RESPONSIBILITY OF THE ASSOCIATED CONTRACTOR.
- EXTERIOR WALL AND RELATED EXTERIOR OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE GC. ALL ROOFING PENETRATIONS SHALL FLASHED BY THE ROOFING CONTRACTOR.
- PERFORM ALL MASONRY WORK REQUIRED IN CONJUNCTION WITH INSTALLATION OF WORK BY ALL TRADES.
- ALL EXPOSED LINTELS, ANCHORS, PIPING, CONDUIT, AND DUCTWORK SHALL BE PAINTED, INTERIOR AND EXTERIOR, UNO.
- GLUED-LAMINATED (GLU-LAM) WOOD BEAMS SHALL BE DOUGLAS-FIR (DF-DF) SPECIES AND 24F-V4 GRADE.
- CONTRACTOR SHALL INSTALL ONE EDGE PLANK OF THE ROOF DECKING ALONG THE ENTIRE BUILDING LENGTH AND ARCHITECT SHALL REVIEW PRIOR TO PROCEEDING WITH DECKING INSTALLATION.

FRAMING PLAN NOTES:

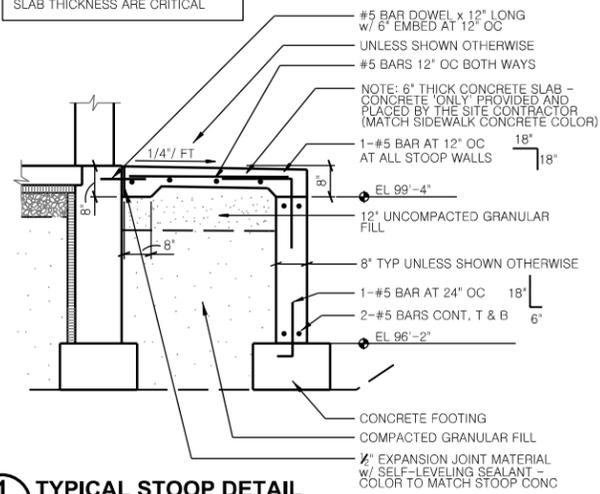
- 2" (NOMINAL THICKNESS) TONGUE AND GROOVE DECKING TOE NAILED AND FACE NAILED TO EACH SUPPORT w/ 16d NAILS, AND 1/2" SHEATHING ATTACHED TO DECKING, TYP. DECKING WILL BE CUT INTO SEGMENTS TO SPAN FROM THE CENTERLINE OF EACH SUPPORT BEAM IN ORDER TO ACCOUNT FOR CURVED ROOF SLOPE
- (2) 1 1/2" x 5 1/2" LAMINATED VENEER LUMBER (LVL) GIRDER, TYP - SEE DETAIL 10/A1.3
- HSS 3x3x 1/4" COLUMN, TYP - SEE DETAILS 3/A1.3, 4/A1.3 AND 10/A1.3 AND COLUMN CURVE DATUM SCHEDULE
- 2 1/2" x 12" GLU-LAM STRAIGHT SEGMENTED SUB-FASCIA BETWEEN ROOF BEAMS, TYP - SEE DETAIL 1/A2.3
- DASHED LINE INDICATES FACE OF 1/2" CURVED PLYWOOD FASCIA SHEATHING, TYP
- 8" CMU BOND BEAM LINTEL
- PROVIDE SIMPSON HUC66 HANGER AT END OF HEADER/ CONCRETE WALL CONNECTION



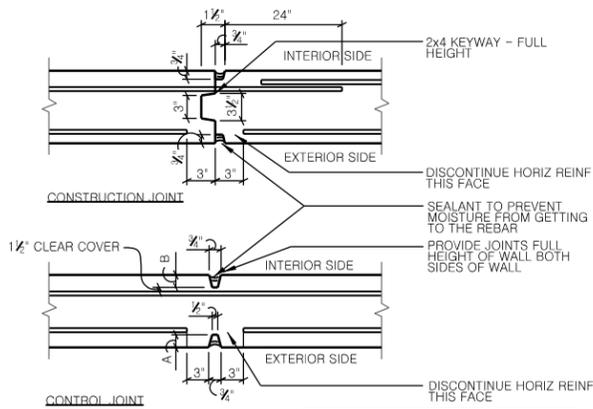
ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"
 PROJECT NORTH

ART WORKS.
 Lorna Jordan Studio
 Brearly Block
 S. Ingersoll to S. Brearly
 ©2011-2012 Lorna Jordan

NOTE: STOOP IS A STRUCTURAL SLAB. THEREFORE, REINFORCEMENT AND SLAB THICKNESS ARE CRITICAL.

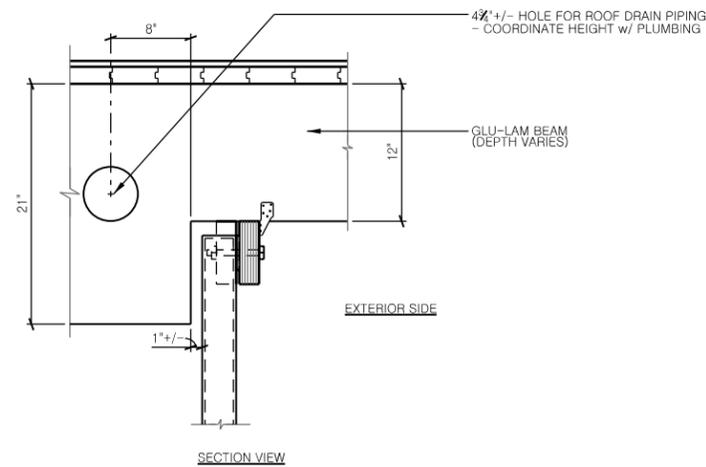


1 TYPICAL STOOP DETAIL
A1.3 NOT TO SCALE

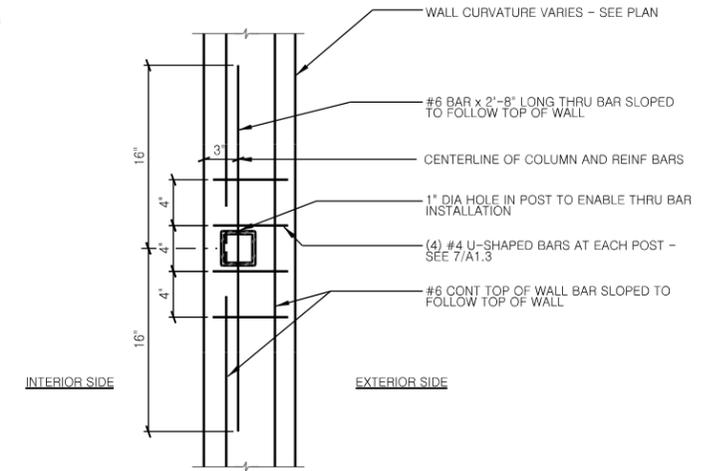


| CONTROL JOINT DIMENSIONS | |
|---------------------------|---------------|
| FOUNDATION WALL THICKNESS | |
| | 8" 10" |
| A | 1 1/2" 1 1/2" |
| B | 1/2" 1/2" |

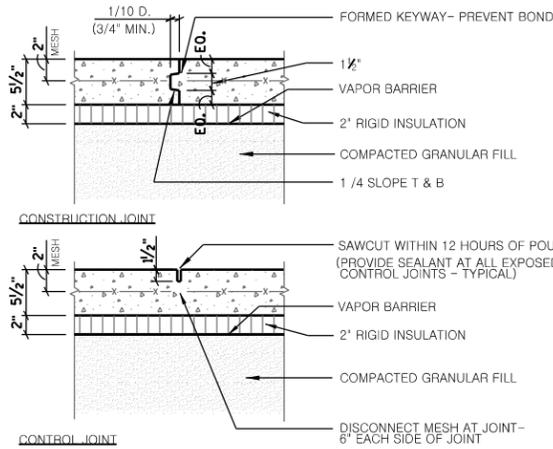
2 TYPICAL FOUNDATION WALL JOINT (CJ) DETAIL
A1.3 NOT TO SCALE



3 ROOF JOIST CONNECTION DETAIL AT END BEAM
A1.3 SCALE: 1/4" = 1'-0"

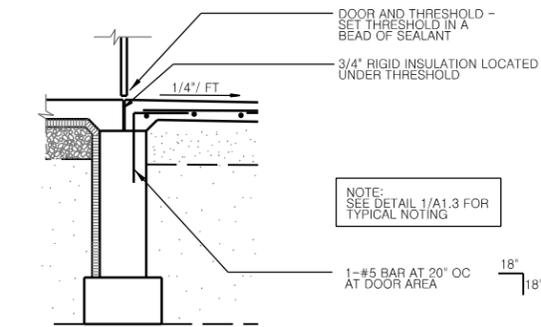


4 TOP OF CONCRETE WALL PLAN VIEW
A1.3 SCALE: 1/4" = 1'-0"

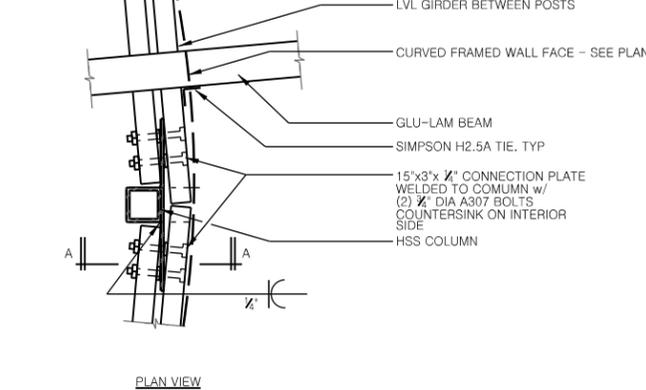
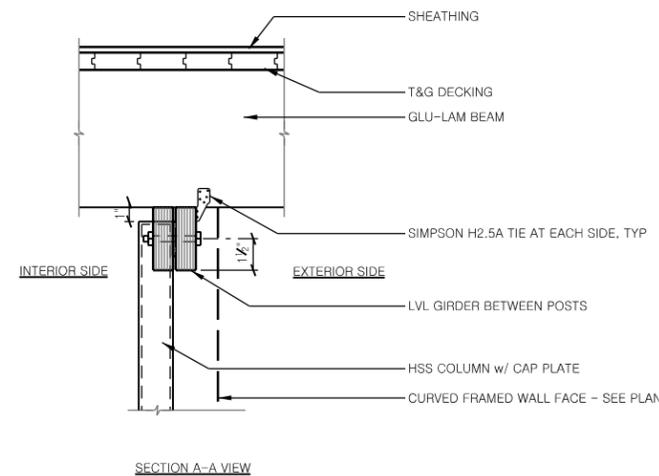


5 TYPICAL SLAB-ON-GRADE JOINT DETAIL
A1.3 NOT TO SCALE

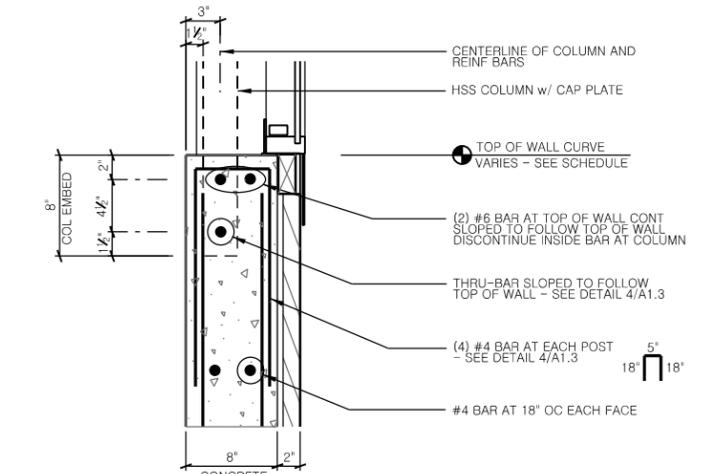
NOTE: STOOP IS A STRUCTURAL SLAB. THEREFORE, REINFORCEMENT AND SLAB THICKNESS ARE CRITICAL.



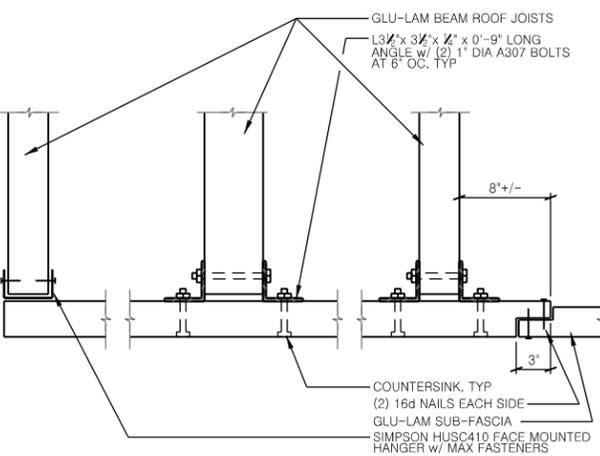
6 TYPICAL STOOP DETAIL AT DOORS
A1.3 NOT TO SCALE



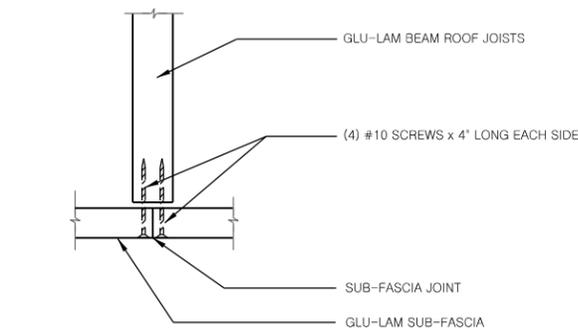
10 ROOF JOIST CONNECTION DETAIL
A1.3 SCALE: 1/4" = 1'-0"



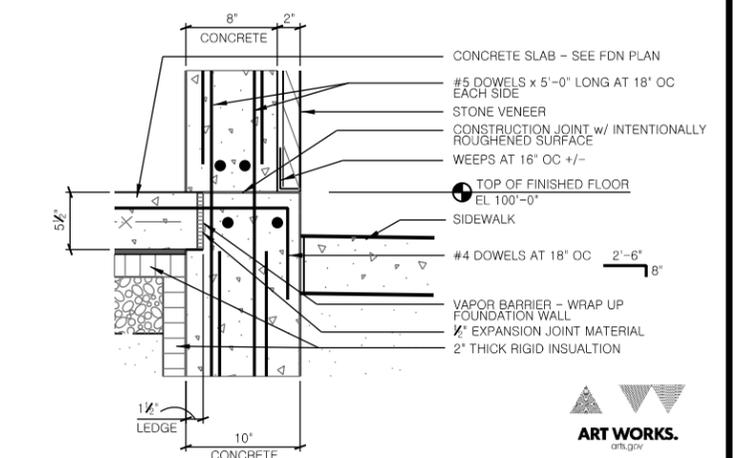
7 TYPICAL TOP OF CONC WALL/ BASE OF COL DETAIL
A1.3 SCALE: 1/4" = 1'-0"



8 ROOF JOIST/ SUB-FASCIA CONNECTION DETAIL
A1.3 SCALE: 1/4" = 1'-0"



9 ROOF JOIST/ SUB-FASCIA CONNECTION DETAIL
A1.3 SCALE: 1/4" = 1'-0"



11 TYPICAL BASE OF WALL DETAIL
A1.3 SCALE: 1/4" = 1'-0"

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| DOOR & FRAME SCHEDULE | | | | | | | | | | | | | | | |
|-----------------------|------|-------|----------------|--------|--------|------|-------|---------|--------|--------|--------------|------------|---------|------------|-------------|
| OPENING NO | DOOR | | | | | | FRAME | | | | | | REMARKS | OPENING NO | |
| | TYPE | MAT'L | NOMINAL SIZE | | | TYPE | MAT'L | DETAILS | | | HARDWARE SET | GLASS TYPE | | | FIRE RATING |
| | | | WIDTH | HEIGHT | THICK | | | HEAD | JAMB | SILL | | | | | |
| 1 | B | HM | 3'-0" 3'-0" | 7'-0" | 1 3/4" | F3 | HM | 1/A5.1 | 7/A5.1 | 1/A4.2 | 2 | | | 1. 2. 3. | 1 |
| 2 | A | HM | 1'-8" | 7'-0" | 1 3/4" | F1 | HM | 3/A5.1 | 3/A5.1 | | 3 | | | - | 2 |
| 3 | B | HM | 3'-0" | 7'-7" | 1 3/4" | F2 | HM | 2/A5.1 | 7/A5.1 | 6/A1.3 | 1 | | | 1. 2. 3. | 3 |
| 4 | B | HM | 3'-0" | 7'-0" | 1 3/4" | F2 | HM | 2/A5.1 | 7/A5.1 | 6/A1.3 | 1 | | | 1. 2. 3. | 4 |
| 5 | A | HM | 3'-0" 3'-0" | 7'-0" | 1 3/4" | F1 | HM | 3/A5.1 | 3/A5.1 | | 3 | | | - | 5 |
| 6 | B | HM | 3'-0" 3'-0" | 7'-0" | 1 3/4" | F3 | HM | 1/A5.1 | 7/A5.1 | 1/A4.2 | 2 | | | 1. 2. 3. | 6 |

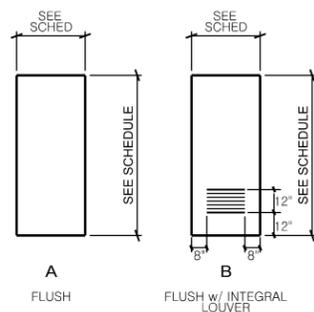
DOOR SCHEDULE REMARKS:

1. SET THRESHOLD IN A BEAD OF SEALANT
2. FLUSH LOUVER IN DOOR - SEE DETAIL 11/A5.1
3. DOOR SHALL BE FULLY PAINTED AND THEN AN EXTERIOR STEEL CLADDING SHALL BE ADDED AND PAINTED - SEE DETAIL 11/A5.1

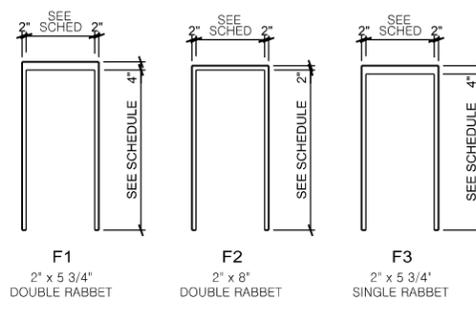
DOOR SCHEDULE GENERAL NOTES:

- A. ALL HOLLOW METAL DOORS AND FRAMES PAINT - TYPICAL (UNO)

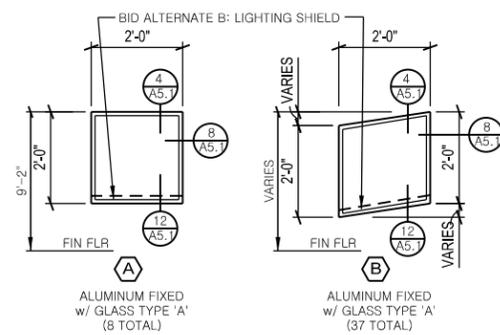
DOOR TYPES



FRAME TYPES



WINDOW TYPES



| ROOM FINISH SCHEDULE | | | | | | | | | | | |
|----------------------|---------------------|-------|------|-------|-------|-------|-------|---------|--------|---------|---------|
| ROOM NO | ROOM NAME | FLOOR | BASE | WALLS | | | | CEILING | | REMARKS | ROOM NO |
| | | | | NORTH | EAST | SOUTH | WEST | MAT'L | HEIGHT | | |
| 101 | CUSTODIAN | F1 | B1 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | | 101 |
| 102 | MENS | F2 | B2 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | 1. | 102 |
| 103 | CHASE | F1 | B1 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | | 103 |
| 104 | WOMENS | F2 | B2 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | 1. | 104 |
| 105 | PLUMBING/ELECTRICAL | F1 | B1 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | | 105 |
| 106 | STORAGE | F1 | B1 | W1,W2 | W1,W2 | W1,W2 | W1,W2 | C1 | VARIES | | 106 |

ROOM FINISH LEGEND:

- FLOOR:**
 F1 CONCRETE WITH SEALER
 F2 CONCRETE WITH RESINOUS EPOXY FLOORING
- BASE:**
 B1 NONE
 B2 6" RESINOUS EPOXY BASE
- CEILING:**
 C1 EXPOSED STRUCTURE (DECKING) - STAIN
- WALLS:**
 W1 CONCRETE OR CMU - PAINT
 W2 WOOD PANEL SIDING AND TRIM (ABOVE CMU OR CONCRETE) - STAIN

ROOM FINISH REMARKS:

1. EPOXY PAINT AT CONCRETE AND CMU WALLS

ROOM FINISH GENERAL NOTES:

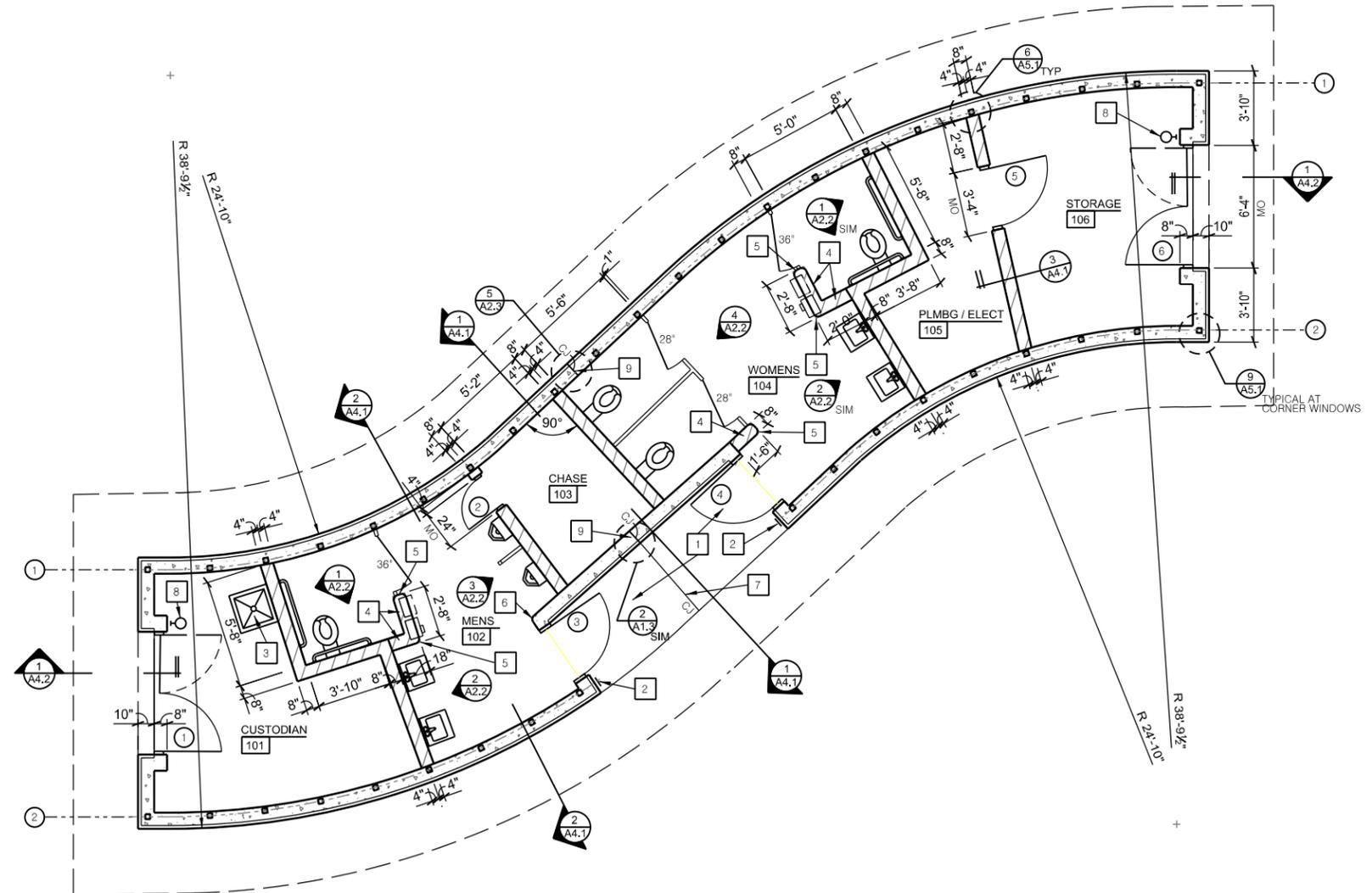
- A. PAINT ALL CONCRETE OR CMU, TYP
 B. STAIN ALL WOOD AND CEDAR TRIM, TYP
 C. GLUE-LAM BEAMS SHALL HAVE A FACTORY STAINED FINISH

FLOOR PLAN NOTES:

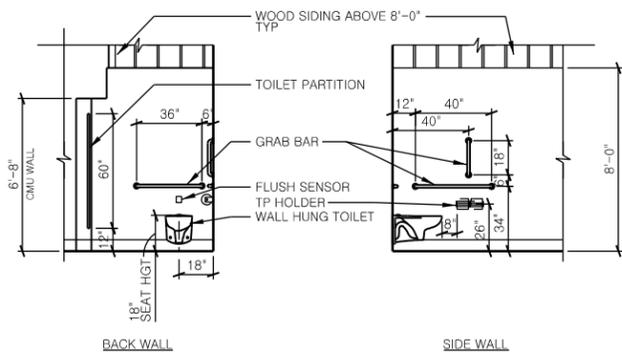
1. CONCRETE STOOP - STOOP SLAB SHALL BE REINFORCED AND FORMED BY THE CONTRACTOR. PLACEMENT AND MATERIALS OF THE STOOP SLAB SHALL BE BY OTHERS. STOOP SLAB SHALL BE COLORED CONCRETE TO MATCH SIDEWALK
2. TOILET ROOM SIGNAGE, PROVIDE SMOOTH STONE VENEER THAT IS 1/2" LARGER THEN THE SIGN ON ALL SIDES - SEE DETAIL 2/A4.2
3. MOP BASIN - SEE PLUMBING
4. 8" CMU WALL - 6"-8" HIGH. GROUT TOP COURSE SOLID
5. PROVIDE BULLNOSE CMU AT OUTSIDE WALL CORNERS, TYP
6. PROVIDE 1 1/2" RADIUS CORNER AT CONCRETE WALL
7. TOOLED CONTROL JOINT IN STOOP SLAB
8. WALL MOUNTED FIRE EXTINGUISHER w/ WALL BRACKET
9. ALIGN CONTROL JOINT w/ FOUNDATION WALL CONTROL JOINT

GENERAL NOTES:

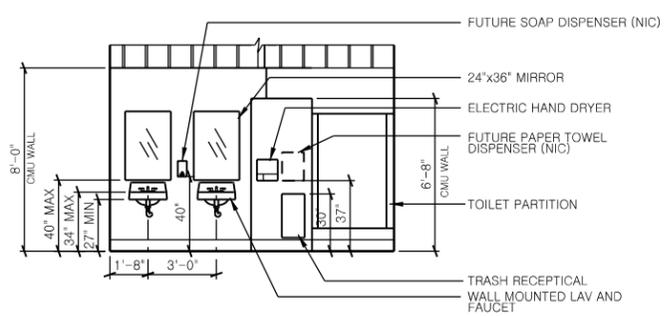
1. ALL DIMENSIONING IS TO FACE OF CONCRETE, CMU, OR WOOD FRAMING
2. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
3. THE CONTRACT DOCUMENTS CONSIST OF THE SPECIFICATION MANUAL AND DRAWINGS WHICH ARE INTENDED TO BE COMPLEMENTARY AND TO BE USED IN CONJUNCTION WITH ONE ANOTHER.
4. IF DISCREPANCIES OCCUR BETWEEN THE SPECIFICATION MANUAL AND THE DRAWINGS, NOTIFY THE ARCHITECT FOR A RESOLUTION.
5. EXTERIOR WALL AND RELATED EXTERIOR OPENINGS BY ALL TRADES SHALL BE FLASHED AND CAULKED BY THE GC - ALL ROOFING PENETRATIONS SHALL BE FLASHED BY THE ROOFING CONTRACTOR
6. OPENINGS FOR PLUMBING, VENTILATING, AND ELECTRICAL WORK IN WALLS, FLOORS, CEILING, AND ROOF SHALL BE PROVIDED BY THE GC - LOCATION AND SIZE SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTORS.
7. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER.
8. CONTRACTOR TO COORDINATE STRUCTURAL, ARCHITECTURAL, HVAC, AND PLUMBING PLANS FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, ETC. NOTIFY ARCHITECT OF ANY VARIANCE BEFORE COMMENCING CONSTRUCTION.
9. ALL THE INTERIOR WALLS SHALL RUN FULL HEIGHT FLOOR TO CEILING UNLESS NOTED OTHERWISE



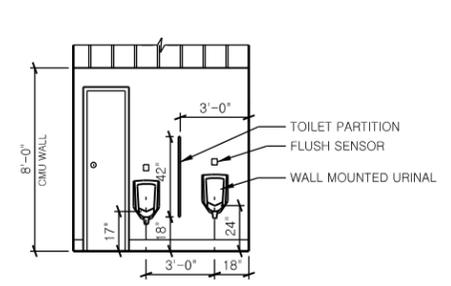
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 Bready Block
 S. Ingersoll to S. Bready
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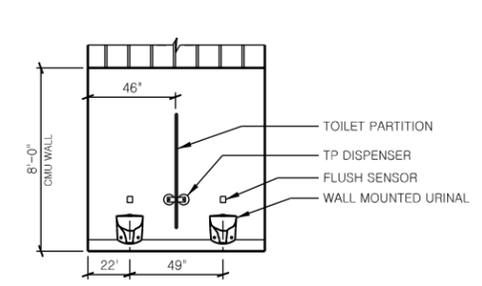
1 MEN'S 102 ACCESSIBLE STALL INTERIOR ELEVATIONS
 A2.2 0 2 4 8 (WOMEN'S 104 OPP HD - SIM)



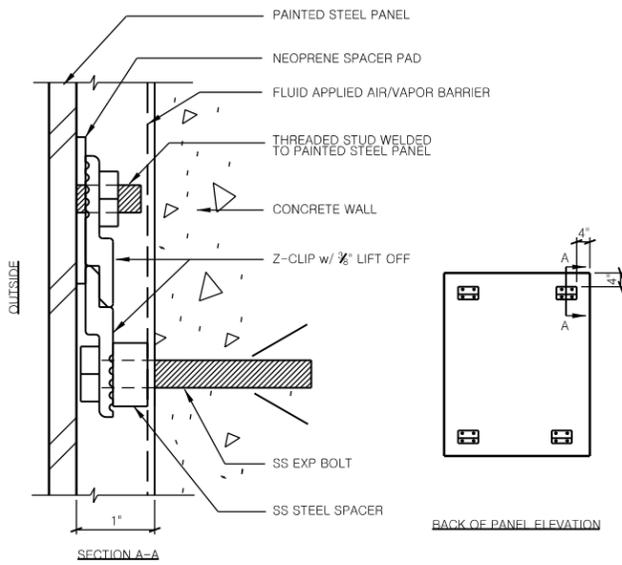
2 MEN'S 102 LAVATORY INTERIOR ELEVATION
 A2.2 0 2 4 8 (WOMEN'S 104 OPP HD - SIM)



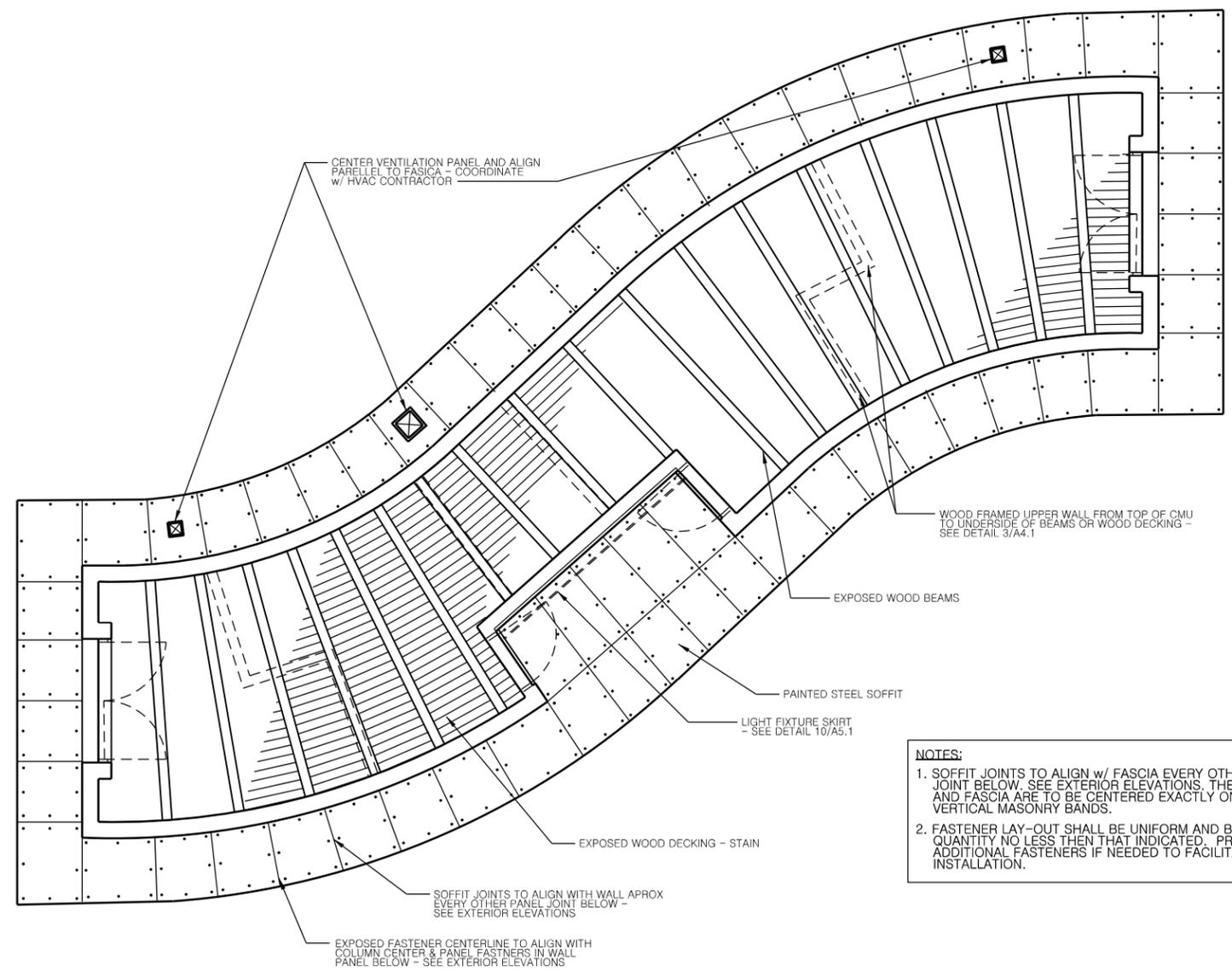
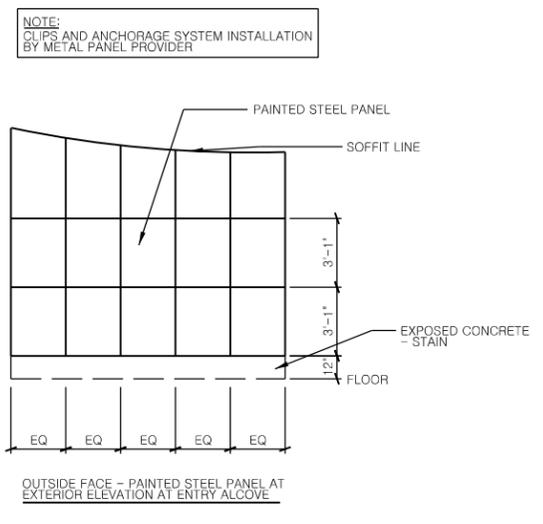
3 MEN'S 102 URINAL INTERIOR ELEVATION
 A2.2 0 2 4 8



4 WOMEN'S 104 WC STALL INTERIOR ELEVATION
 A2.2 0 2 4 8

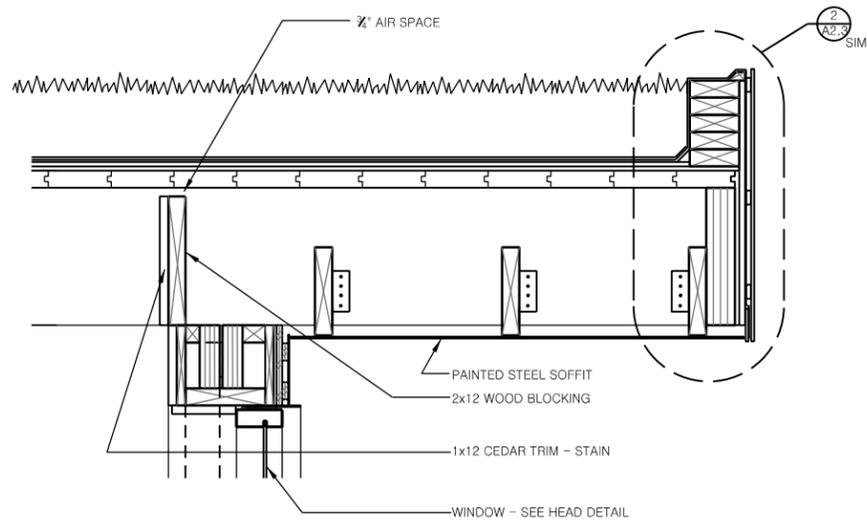


5 ENTRY ALCOVE PAINTED STEEL PANEL DETAILS
 A2.2 NOT TO SCALE



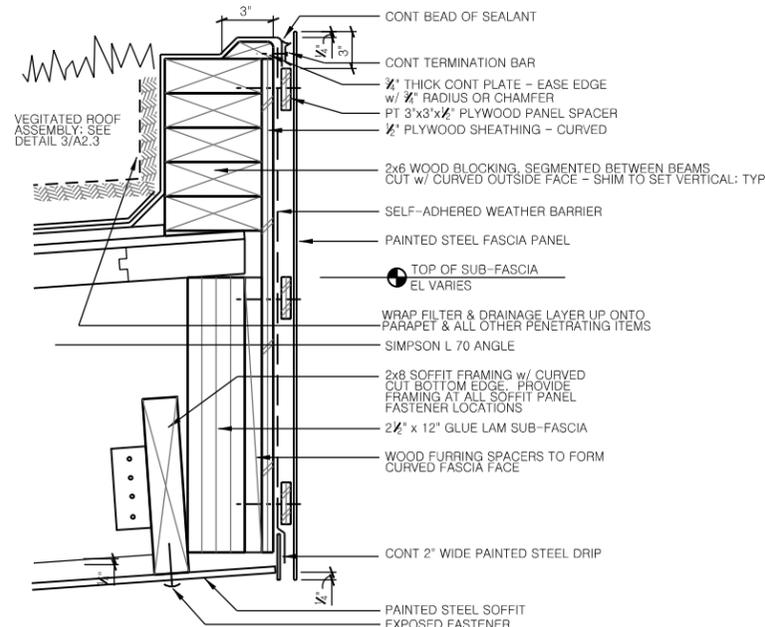
REFLECTED CEILING PLAN
 PROJECT NORTH
 SCALE: 1/8" = 1'-0"

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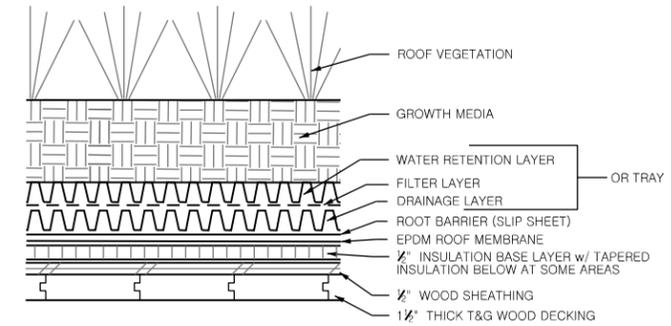
1 TYPICAL ROOF EDGE DETAIL

A2.3 0 3" 6" 12" 18" SCALE: 1/2" = 1'-0"



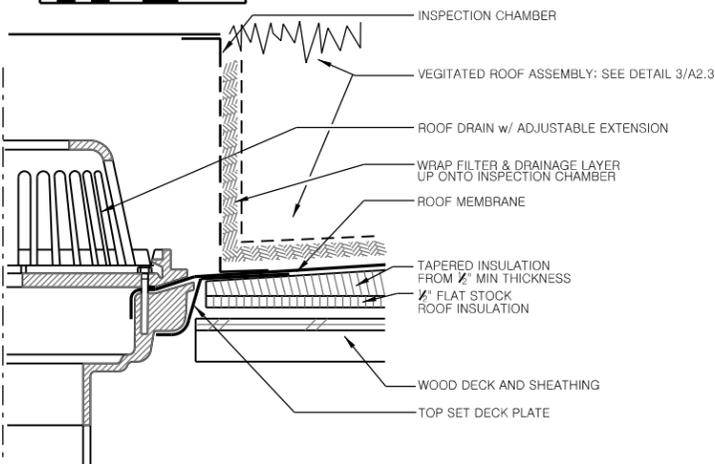
2 TYPICAL ROOF EDGE DETAIL

A2.3 0 1 1/2" 3" 6" 9" SCALE: 1/2" = 1'-0"



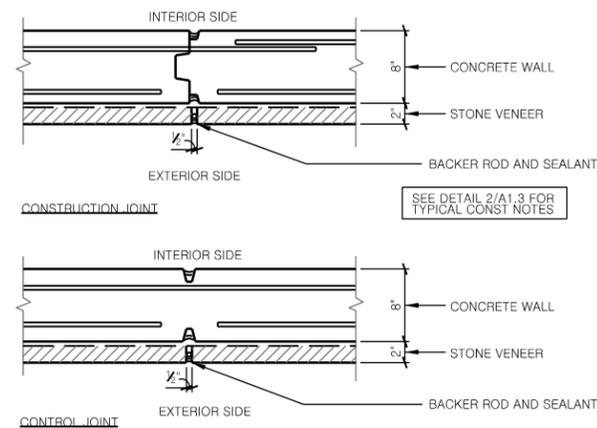
3 TYPICAL ROOF ASSEMBLY

A2.3 NOT TO SCALE



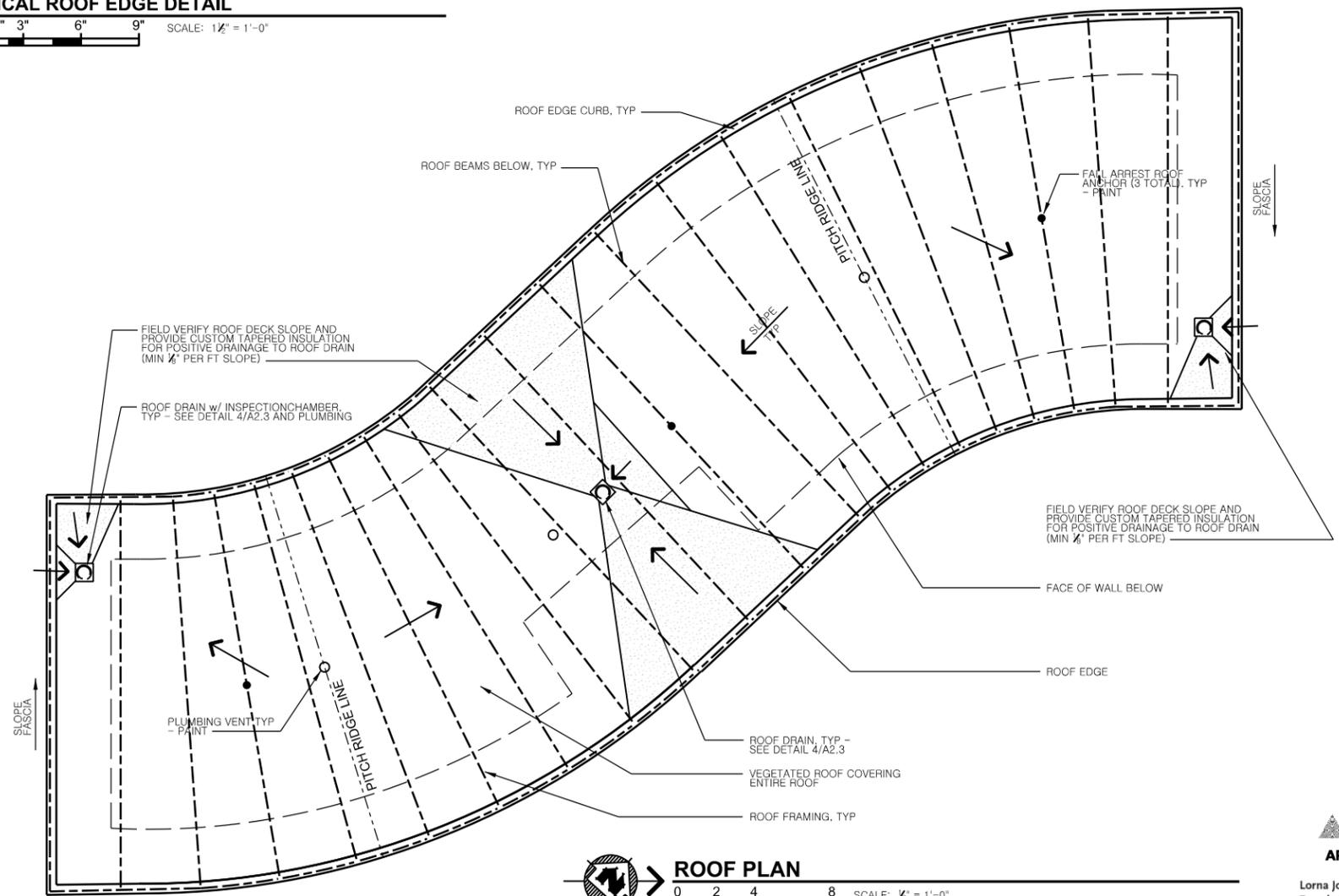
4 ROOF DRAIN DETAIL

A2.3 NOT TO SCALE



5 EXTERIOR WALL CONTROL JOINT DETAIL

A2.3 NOT TO SCALE



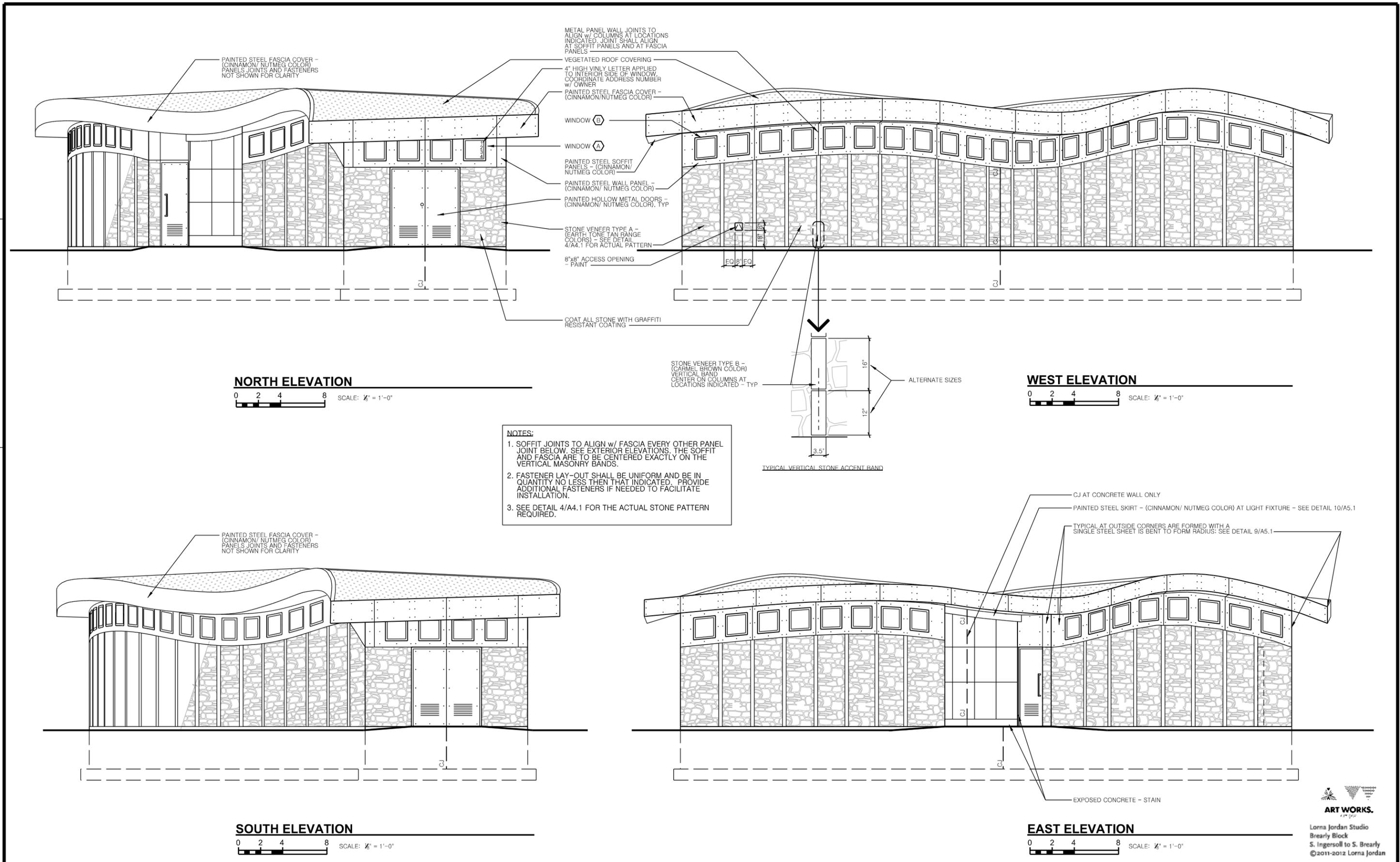
ROOF PLAN

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

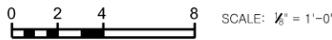
PROJECT NORTH



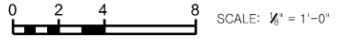
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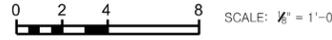
NORTH ELEVATION



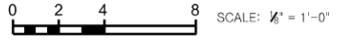
WEST ELEVATION

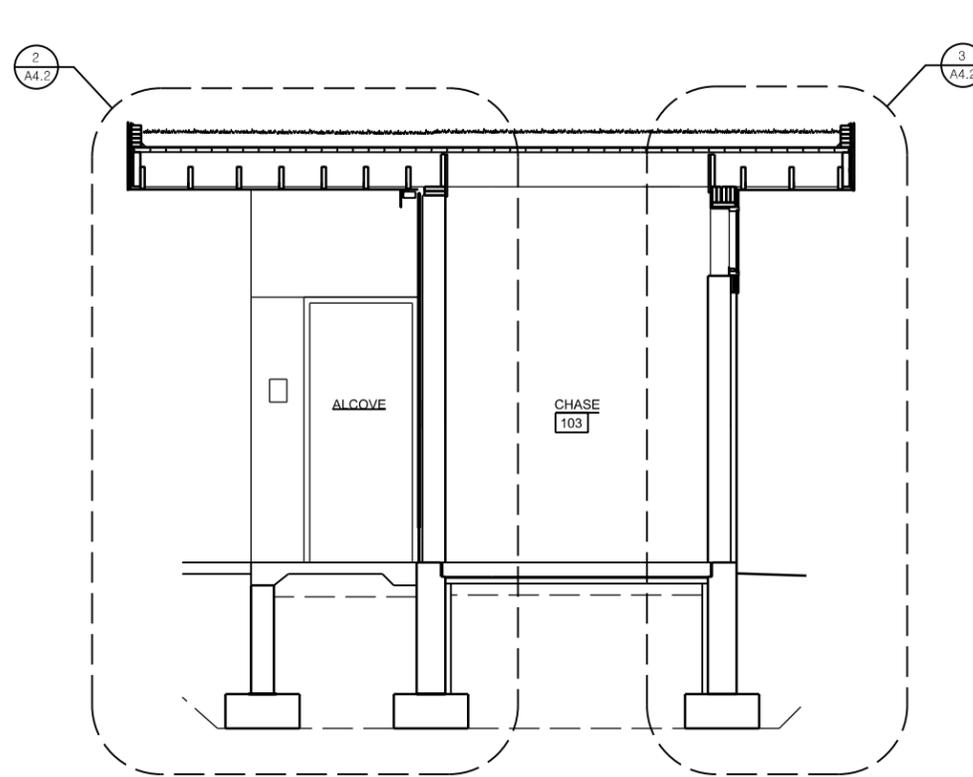
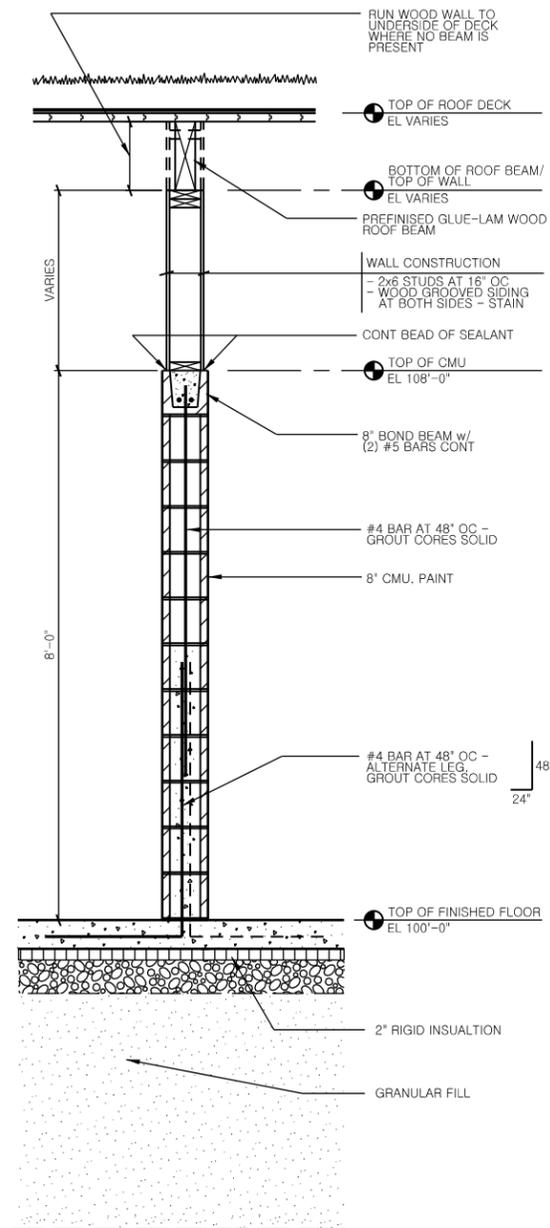


SOUTH ELEVATION



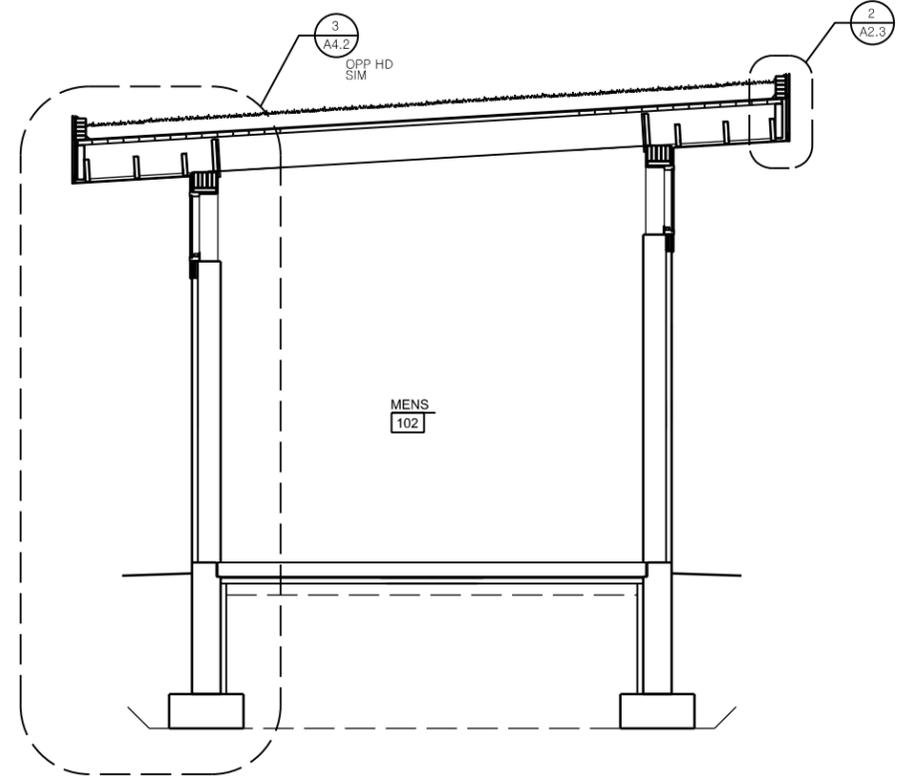
EAST ELEVATION





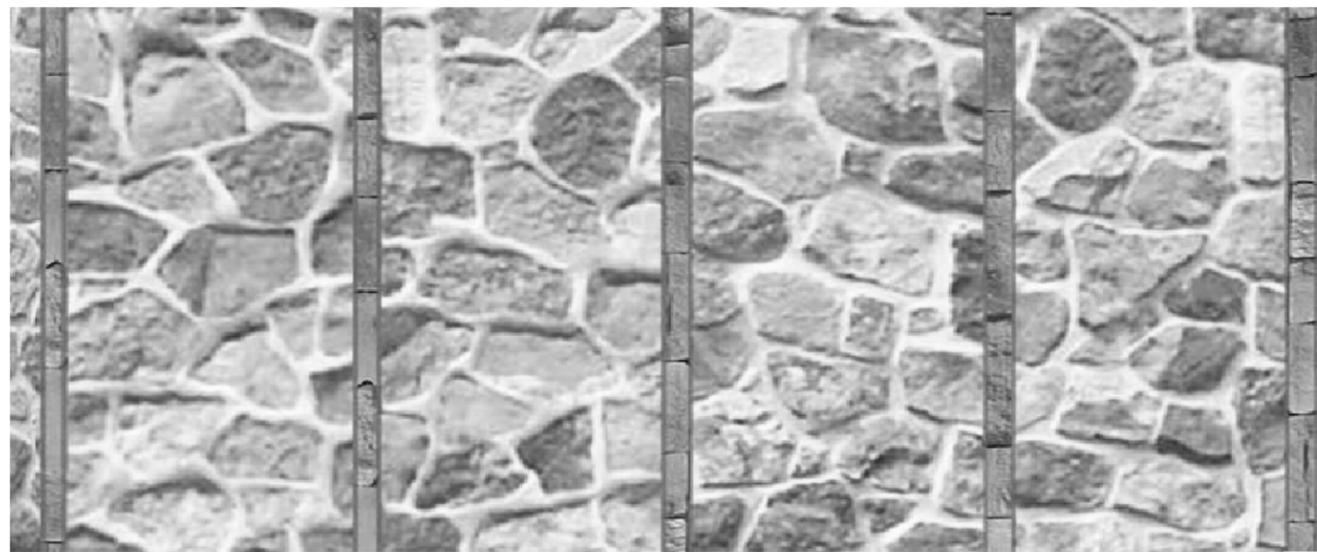
1 BUILDING CROSS-SECTION

A4.1 0 1 2 4 6 SCALE: 3/16" = 1'-0"



2 TYPICAL BUILDING CROSS-SECTION

A4.1 0 1 2 4 6 SCALE: 3/16" = 1'-0"



4 STONE PATTERN -TYPE A

A4.1

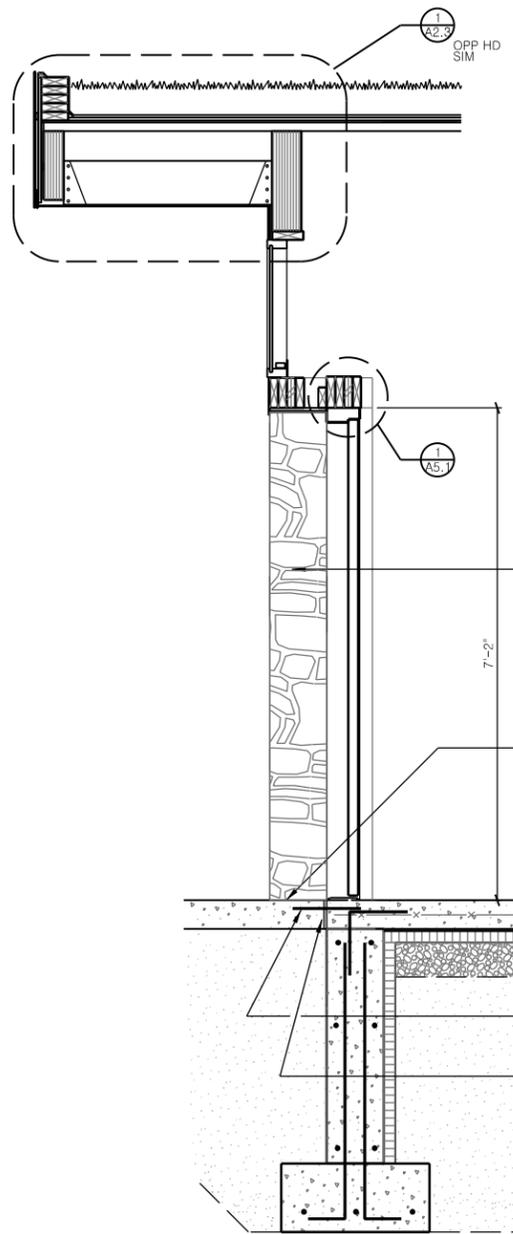
NOTES:
 1. THIS IMAGE IS NOT FOR SCALE, COLOR OR TEXTURE.
 2. THIS IMAGE REPRESENTS THE GENERAL APPROXIMATE SHAPE/PATTERN FOR STONE TYPE "A" ONLY.
 3. STONE VENEER "A" SHALL NOT HAVE CUT EDGES.
 4. STONE VENEER "B" SHALL HAVE SQUARE CUT EDGES.

3 TYPICAL INTERIOR WALL SECTION

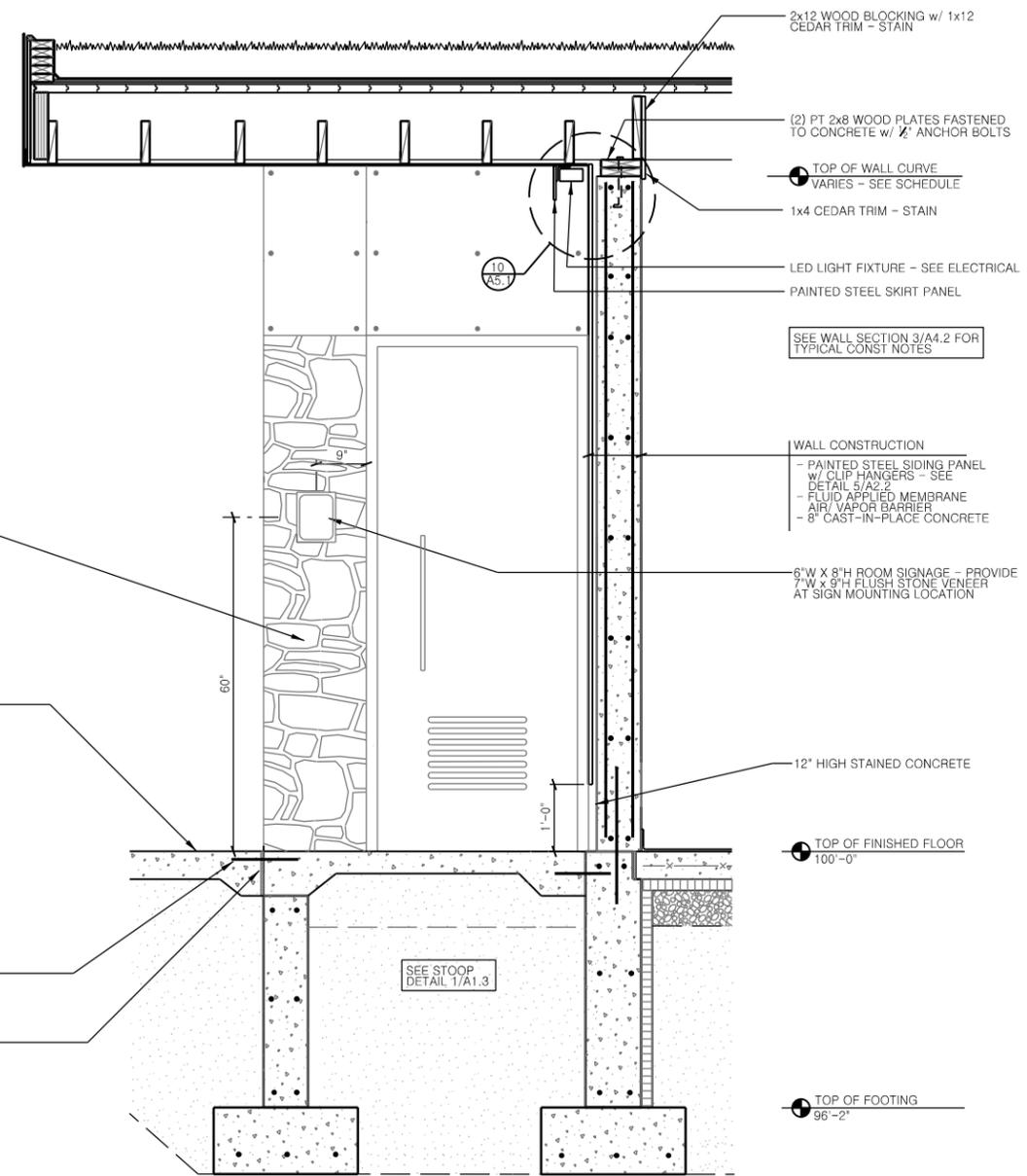
A4.1 0 6" 1" 2" 3" SCALE: 3/8" = 1'-0"



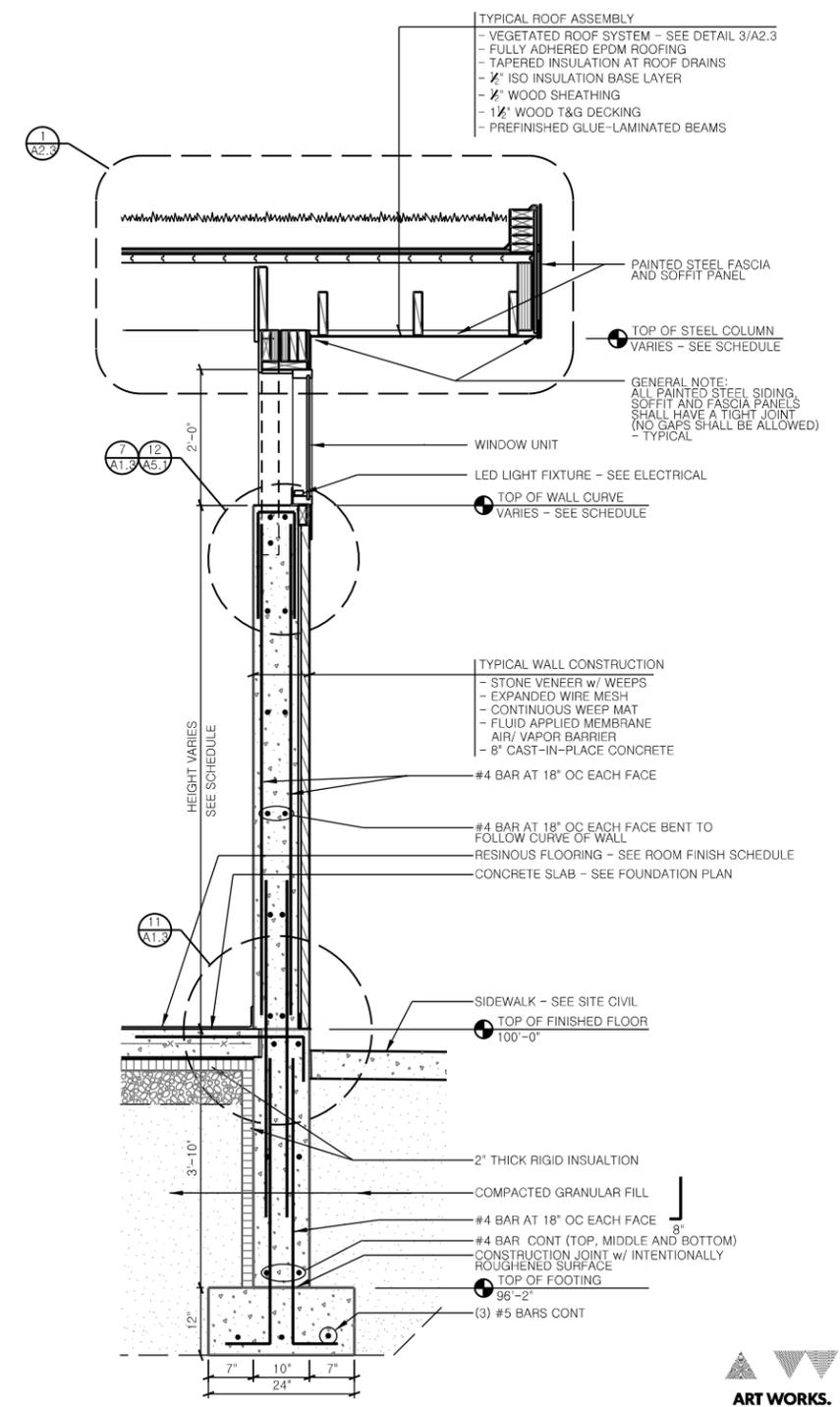
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SEE WALL SECTION 3/A4.2 FOR TYPICAL CONST NOTES



WALL CONSTRUCTION
 - PAINTED STEEL SIDING PANEL w/ CLIP HANGERS - SEE DETAIL 5/A2.2
 - FLUID APPLIED MEMBRANE AIR/ VAPOR BARRIER
 - 8\"/>



TYPICAL ROOF ASSEMBLY
 - VEGETATED ROOF SYSTEM - SEE DETAIL 3/A2.3
 - FULLY ADHERED EPDM ROOFING
 - TAPERED INSULATION AT ROOF DRAINS
 - 1/2\"/>

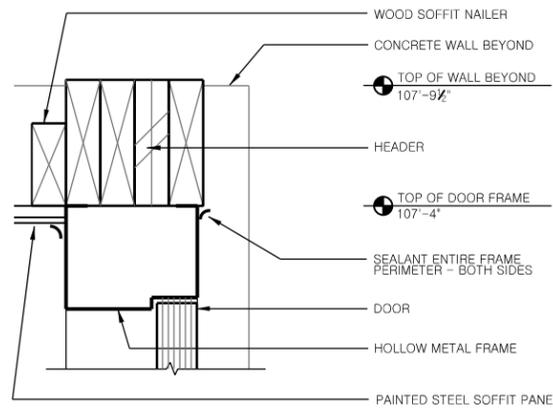
TYPICAL WALL CONSTRUCTION
 - STONE VENEER w/ WEEPS
 - EXPANDED WIRE MESH
 - CONTINUOUS WEEP MAT
 - FLUID APPLIED MEMBRANE AIR/ VAPOR BARRIER
 - 8\"/>

1 TYPICAL EXTERIOR END WALL SECTION
 A4.2 SCALE: 1/8" = 1'-0"

2 ENTRY ALCOVE WALL SECTION
 A4.2 SCALE: 1/8" = 1'-0"

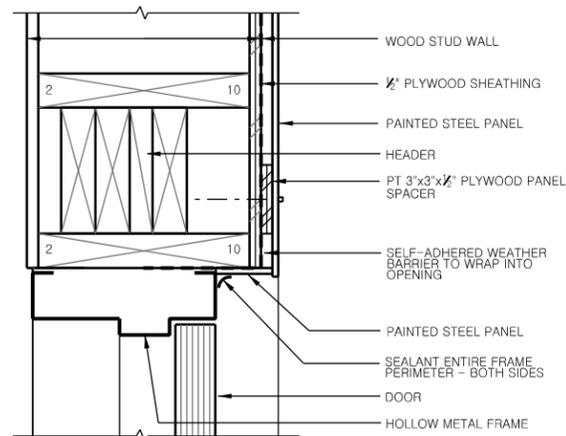
3 TYPICAL EXTERIOR WALL SECTION
 A4.2 SCALE: 1/8" = 1'-0"

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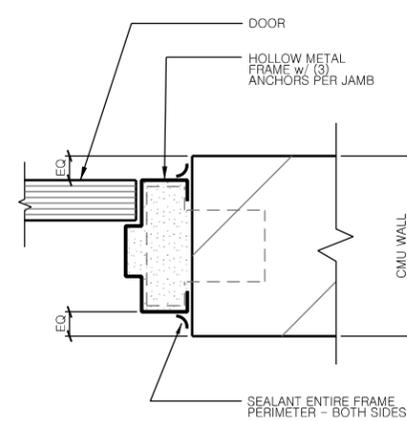
1 DOOR #1 AND #6 HEAD DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



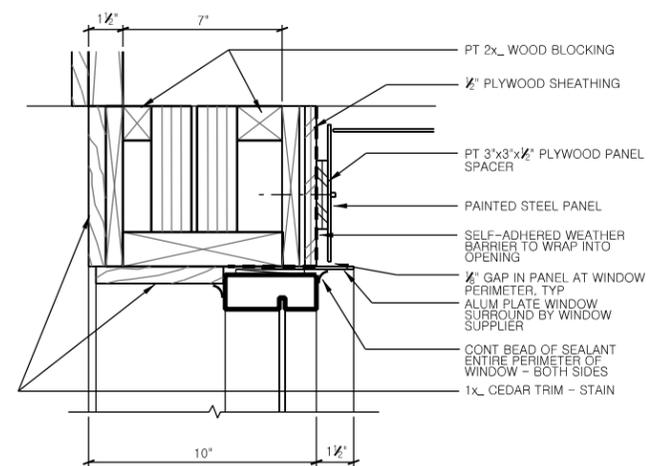
2 DOOR #3 AND #4 HEAD DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



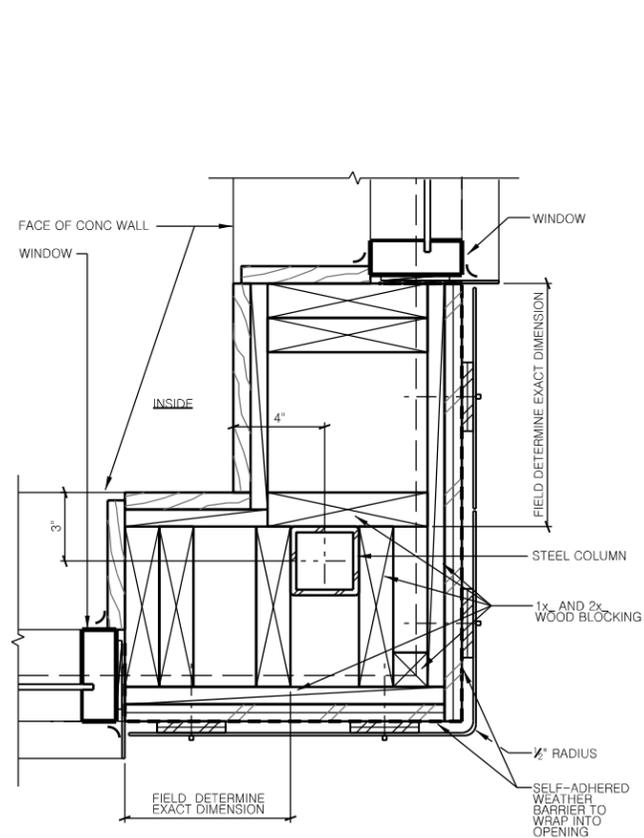
3 INTERIOR DOOR JAMB DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0" (HEAD SIMILAR)



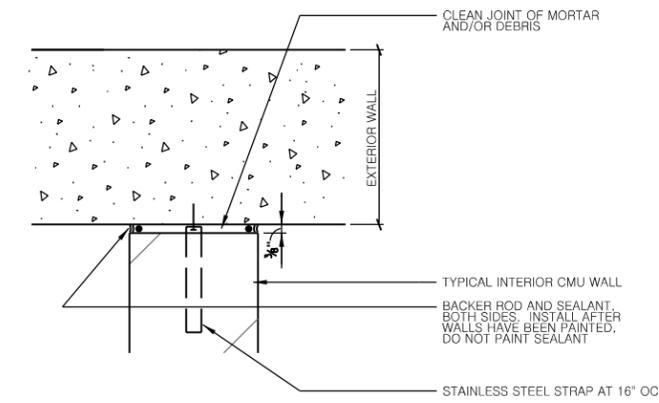
4 WINDOW HEAD DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



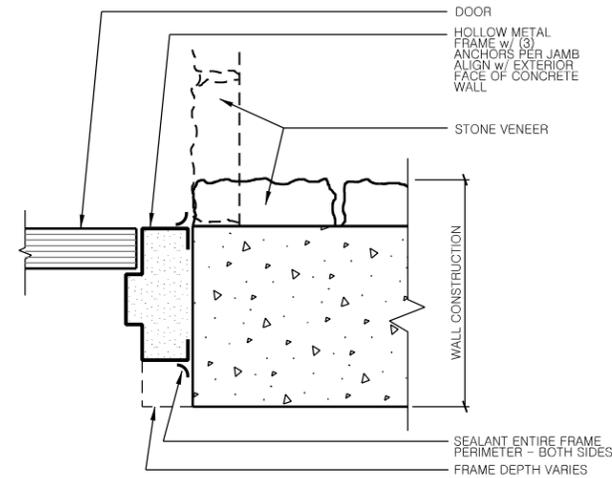
9 WINDOW JAMB DETAIL AT BUILDING CORNERS

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



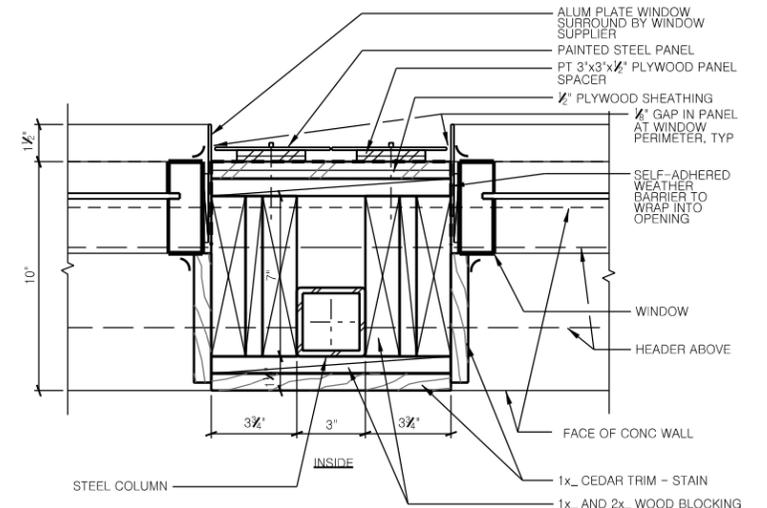
6 INTERSECTION CMU WALL CONTROL JOINT (CJ) DETAIL

A5.1 NOT TO SCALE



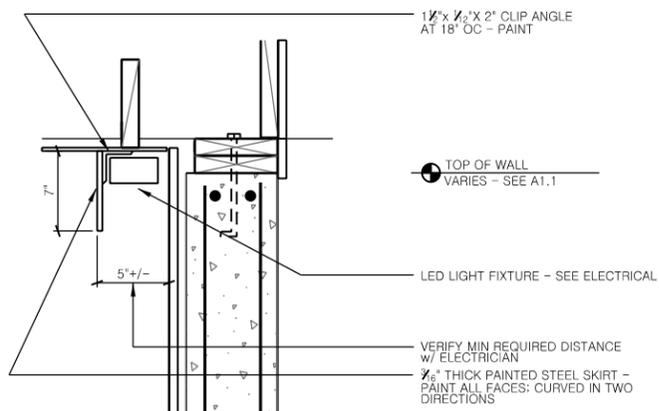
7 EXTERIOR DOOR JAMB DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



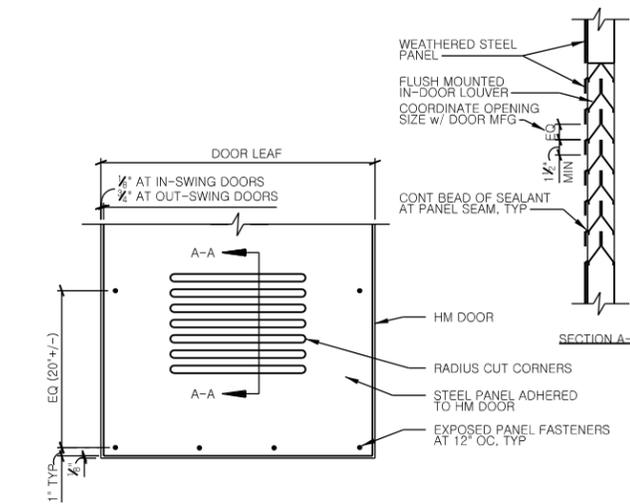
8 WINDOW JAMB DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"



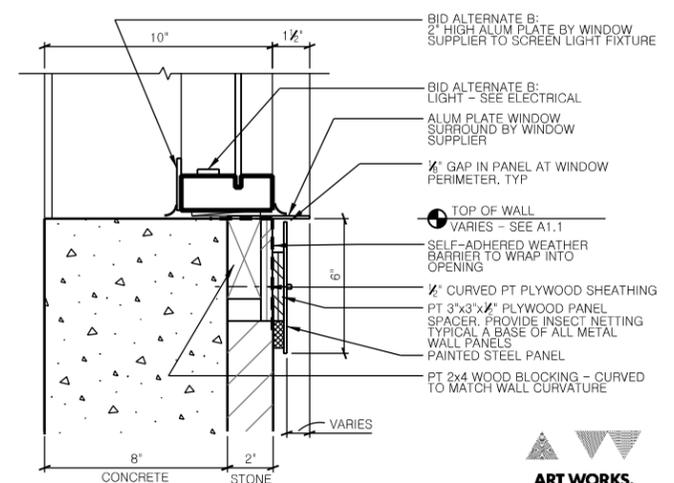
10 LIGHT FIXTURE DETAIL AT ENTRY ALCOVE

A5.1 0 3 6 12 18" SCALE: 3/8" = 1'-0"



11 DOOR CLADDING AND LOUVER DETAIL

A5.1 NOT TO SCALE



12 WINDOW SILL DETAIL

A5.1 0 1 1/2 3 6 9" SCALE: 1 1/2" = 1'-0"

PLUMBING FIXTURE AND EQUIPMENT

| TAG | FIXTURE NAME | SANITARY | | WATER | | | SIZE | MANUFACTURER | MODEL | REMARKS | DESCRIPTION |
|------|---------------------------|----------|-----------|-------|------|-------|--------|--------------|--------------|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| | | DFU | TRAP SIZE | WSFU | | | | | | | |
| | | | | HOT | COLD | TOTAL | | | | | |
| DF-1 | DRINKING FOUNTAIN | 0.5 | 1 1/2" | | 0.25 | 0.25 | 3/4" | HAWS | 3177 | 16, 17, 18, 19. | BARRIER-FREE CONCRETE PEDESTAL DRINKING FOUNTAIN WITH STAINLESS STEEL BASIN. PROVIDE WITH HOSE BIBB HB-1. SEE DETAIL/01.41 |
| FD-1 | FLOOR DRAIN | 4.0 | 4" | | | | | SMITH | 2005/2010 | 3, 4. | ADJ FLOOR DRAIN w/ FLASHING COLLAR AND NICKLE BRONZE GRATE |
| HB-1 | HOSE BIBB, EXTERIOR | | | | 4.0 | 4.0 | 3/4" | WOODFORD | MODEL B74 | 2. | BOX MOUNTED 3/4" WALL HYDRANT w/ ANTI-SIPHON VACUUM BREAKER AND LOCKING COVER. |
| HB-2 | HOSE BIBB, INTERIOR | | | | 4.0 | 4.0 | 3/4" | WATTS | SC8 | 2. | CAST BRASS HOSE BIBB WITH VACUUM BREAKER. |
| L-1 | LAVATORY | 1.0 | 1 1/4" | 0.5 | 0.5 | 1.0 | 1/2" | KOHLER | K-2006 | 6, 7, 12. | WALL MOUNTED VITREOUS CHINA SINK WITH OVERFLOW |
| RD-1 | ROOF DRAIN | | | | | | 3" | SLOAN | ETF-600-8 | 1, 11, 13, 14. | ELECTRONIC HAND WASHING FAUCET. 0.5 GPM FLOW RATE. |
| | | | | | | | | ZURN | Z125-DP | 20. | CAST IRON ROOF DRAIN WITH COMBINATION CLAMP/GRAVEL GUARD, LOW SILHOUETTE CAST IRON DOME, TOP-SET DECK PLATE. |
| SS-1 | SINK, SERVICE (MOP BASIN) | 3.0 | 3" | 2.0 | 2.0 | 3.0 | 1/2" | MUSTEE | 63M | 10. | FLOOR MOUNTED ONE-PIECE MOLDED SINK |
| | | | | | | | | CHICAGO | 897-RCF | | WALL MOUNTED 2-HANDLE FAUCET w/ WALL BRACE |
| | | | | | | | | WATTS | 8A | 1. | THREADED OUTLET HOSE BACKFLOW PREVENTOR |
| U-1 | URINAL | 2.0 | 2" | | 2.0 | 2.0 | 3/4" | KOHLER | K-4960-ER | 7. | WALL MOUNTED, WASH-OUT TYPE URINAL. 3/4" REAR SPUD. SS BEEHIVE STRAINER AND HANGERS. |
| | | | | | | | | SLOAN | 195-1.0 ES-S | 13, 15. | TOUCHLESS, SENSOR OPERATED CONCEALED FLUSH VALVE, 1 GPF. |
| | | | | | | | | SLOAN | 152-1.6 ES-S | 13, 15. | SENSOR OPERATED CONCEALED FLUSH VALVE, 1.6 GPF. |
| WC-1 | WATER CLOSET | 6.0 | 3" | | 6.5 | 6.5 | 1-1/2" | KOHLER | K-4329 | 7. | WALL MOUNTED WATER CLOSET, 1 1/2" REAR SPUD |
| | | | | | | | | SLOAN | 152-1.6 ES-S | 13, 15. | SENSOR OPERATED CONCEALED FLUSH VALVE, 1.6 GPF. |
| | | | | | | | | BEMIS | 1955SSC 000 | | ELONGATED PLASTIC SEAT, SELF SUSTAINING CHECK HINGE, WHITE |
| WH-1 | WATER HEATER | | | | | | 3/4" | A.O. SMITH | DSE 5 | 5, 8, 9. | ELECTRIC WATER HEATER, 5 GALLON, 13 GPH RECOVERY @ 90° RISE, 10,239 BTU/HOUR. ELECTRICAL: 208/60/1, 14.4 AMPS. |

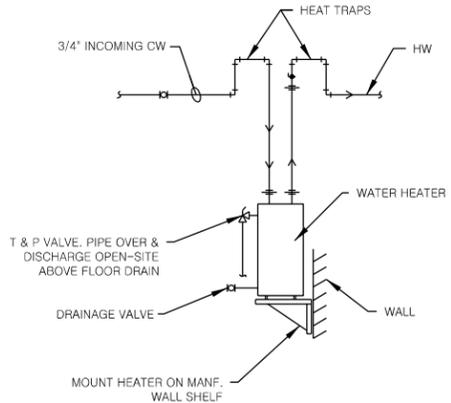
REMARKS:
 1. CHROME PLATED FIXTURE.
 2. MOUNT FIXTURE AT 24" AFF.
 3. SEE FOUNDATION PLAN FOR INSTALLATION ELEVATION AND LOCATION.
 4. PROVIDE ROUND TOP AT AREAS w/ FINISHED CONCRETE FLOOR. PROVIDE SQUARE TOP AT AREAS w/ TILE FLOORING.
 5. SEE MANUFACTURER'S DATA FOR CONNECTION SIZE(S).
 6. SEE FAUCET MANUFACTURER'S REQUIREMENTS FOR SINK OPENING SIZES AND LOCATIONS.
 7. CONCEALED CARRIER. MOUNT IN MECHANICAL ROOM. SECURE TO FLOOR WITH EPOXY ANCHORS.
 8. INSTALL THERMOMETER IN INLET AND OUTLET PIPES.
 9. PROVIDE PRESSURE RELIEF VALVE (PRV) ON WATER OUTLET - DO NOT INSTALL SHUT-OFF VALVE BETWEEN UNIT AND PRV.
 10. FURNISH w/ HOSE, HOSE HOLDER, MOP HANGER, AND SS BUMPER GUARDS BY SINK MANUFACTURER.
 11. FURNISH "BELOW DECK" THERMOSTATIC MIXING VALVE FOR EACH SINK AND (1) 120VAC/24 VAC BOX MOUNTED TRANSFORMER TO SERVE (2) SINKS BY SINK MANUFACTURER. INSTALL IN MECHANICAL ROOM.
 12. TRAP SHALL BE INSTALLED IN MECHANICAL ROOM.
 13. SUPPLY STOPS SHALL BE INSTALLED IN MECHANICAL ROOM.
 14. SET MIXING VALVE FOR 90-DEGREE F OUTLET TEMPERATURE.
 15. FURNISH 120 VAC/24 VAC TRANSFORMER BY UNIT MANUFACTURER. MOUNT IN MECHANICAL ROOM.
 16. CUT DRAIN OFF AT 45-DEGREE ANGLE ABOVE GRADE WITHIN UNIT.
 17. MOUNT w/ 1 1/2" ALL STAINLESS STEEL ANCHORING SYSTEM.
 18. FURNISH STOP WITHIN UNIT - ALLOW FOR BLOW-DOWN OF SUPPLY FROM BUILDING.
 19. INSTALL 1/4" STAINLESS STEEL WASHERS UNDER UNIT TO HOLD IT ABOVE GRADE.
 20. FURNISH w/ 18 GAUGE STAINLESS STEEL INSPECTION CHAMBER w/ EXTENSIONS AS REQUIRED SO THAT TOP OF UNIT IS 2" ABOVE TOP OF GROWTH MEDIA FOR "GREEN ROOF" SYSTEM. VERIFY FINAL ELEVATION w/ ARCHITECT. CHAMBER AND LID SHALL BE POWDER COATED. COLOR TO BE SELECTED BY ARCHITECT/OWNER. FURNISH LID w/ LOCKING MECHANISM.

GENERAL NOTES:

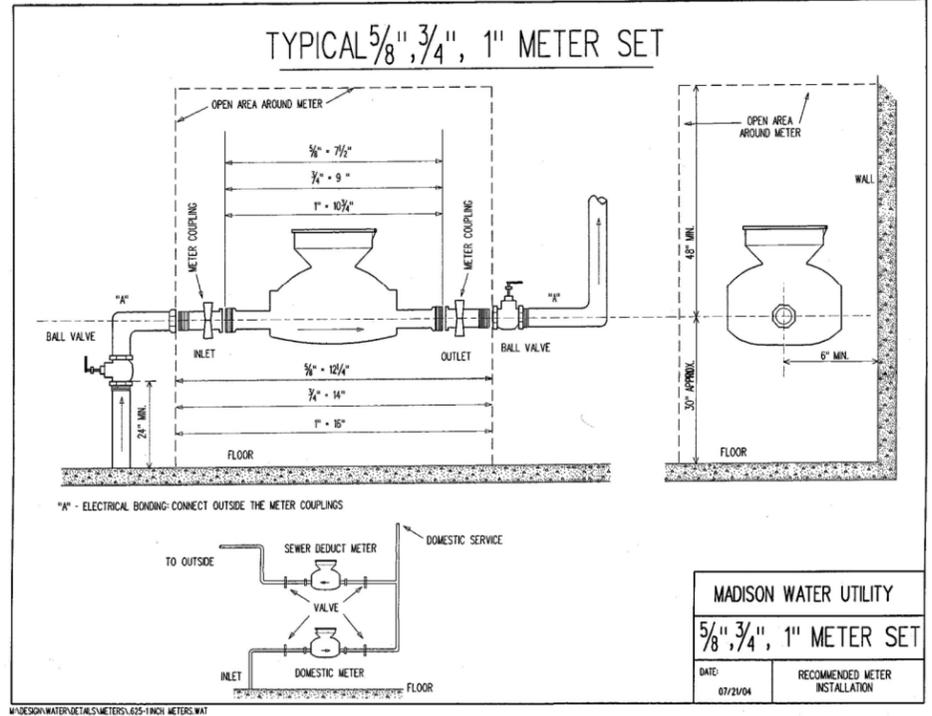
- SEE GENERAL NOTES ON ARCHITECTURAL PLANS, AS THEY APPLY TO THIS WORK.
- PLUMBING CONTRACTOR SHALL CONNECT TO WATER, SANITARY SEWER, AND STORM PIPING AT A POINT 5' OUTSIDE BUILDING FOUNDATION. SITE UTILITY CONTRACTOR SHALL PROVIDE LATERALS TO MUNICIPAL SERVICES. WATER LINE TO SITE DRINKING FOUNTAIN AND HOSE BIBB IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
- CONTRACTOR TO COORDINATE INSTALLATION OF ALL PIPING, FIXTURES AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS. DO NOT INSTALL ANY PIPING ABOVE ELECTRICAL PANELS. INSTALL ALL WORK TO PROVIDE MAXIMUM CLEARANCES.
- ALL PIPING, INSIDE BUILDING, SHALL BE SURFACE MOUNTED TIGHT TO WALLS AND CEILING, ALLOWING FOR SLOPE, OR BE RUN INSIDE WALLS. DO NOT RUN IN EXTERIOR WALLS, UNLESS NOTED OTHERWISE. TYPICAL.
- APPLIANCE CONNECTIONS: FINAL ELECTRICAL CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- BUILDING IS DESIGNED FOR SEASONAL USE ONLY. ALL PIPING SHALL BE INSTALLED TO BE EASILY WINTERIZED, AND SO THAT ALL FLUIDS CAN BE DRAINED FROM INTERIOR BUILDING PIPING, WATER HEATERS, AND UNDERGROUND PIPING.
- WATER PIPING WINTERIZATION - INSTALL OPEN END PIPE STUBS WITH SHUT-OFF VALVES AT ALL HIGH POINTS IN PIPE. ALL PIPING IN BUILDING SHALL SLOPE TO DRAIN BACK TO EITHER THE BUILDING DRAIN PIT OR AN OPEN END PIPE STUB WITH SHUT-OFF VALVE AT PIPING LOW POINT. PROVIDE ALL NECESSARY VALVES, BLOW-OUT POINTS, DRAINS, ETC. TO CLEAR SYSTEM OF ALL STANDING WATER. INSTALL PIPING TO MINIMIZE REQUIRED VALVED DRAIN-DOWN POINTS.
- WATER PIPE ELEVATION CHANGES SHALL BE EXPOSED, NOT INSTALLED INSIDE WALL, UNLESS NOTED OTHERWISE.
- NO PIPING SHALL BE EXPOSED INSIDE TOILET ROOMS 103 AND 105, UNLESS NOTED OTHERWISE. ALL WATER, SANITARY, AND VENT PIPING FOR FIXTURES AND LAVATORY FAUCET CONTROLS SHALL BE SURFACE MOUNTED TO THE WALL INSIDE ROOMS 102, 104, AND 106, UNLESS NOTED OTHERWISE.
- SANITARY SEWER PIPE SLOPE (GRAVITY) - 1/8" PER 1', MIN. UNO. INVERT OF UNDERGROUND PIPE SHALL BE MINIMUM 5'-0" DEEP AND MEET LATERAL INVERT.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE WATER AND VAPOR TIGHT.
- PROVIDE SANITARY CLEANOUTS AS REQUIRED PER STATE OF WISCONSIN PLUMBING CODE (WHETHER SHOWN ON THE PLANS OR NOT). ALL CLEANOUTS SHALL BE INSTALLED WITH FROST-PROOF SLEEVES TO A DEPTH 6" BELOW THE PREDICTED FROST DEPTH (PER COMM B2.35(5)(a)).
- PROVIDE SUPPORTS FOR WATER CLOSET, URINAL, AND LAVATORY. SUPPORTS TO BE MOUNTED IN PIPING CHASE IN ADJACENT SPACES. PROVIDE SMITH HEAVY DUTY INSTITUTIONAL GRADE SUPPORTS. SUPPORTS TO BE EPOXY ANCHORED TO CONCRETE FLOOR.
- VENT ALL FIXTURES PER STATE OF WISCONSIN PLUMBING CODE. IE DRY VENT CONNECTIONS TO HORIZONTAL PIPE SHALL BE ABOVE THE HORIZONTAL CENTER LINE OF THE PIPE, MIN SIZE, ETC.

SYMBOLS (NOT ALL NECESSARILY USED HEREIN)

| | | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| AHU-1 EQUIPMENT MARKER EQUIPMENT TAG | CONTROL VALVE (M = MOTORIZED, S = SOLENOID) | SEWER PIPING SAN = SANITARY ST = STORM |
| SECTION CUT MARKER SHEET WHERE SECTION IS SHOWN SHEET WHERE SECTION IS CUT | CONTROL VALVE (PNEUMATIC) | SEWER PIPING BELOW GRADE SAN = SANITARY ST = STORM |
| AIR DEVICE TAG 100 CFM 6" DIA NECK SIZE-(DIFFUSER) /FACE SIZE-(REGISTER, GRILLE) | P = PRESSURE GAUGE T = THERMOMETER (DIAL TYPE) | COLD WATER PIPING (DCW) |
| WC-1 EQUIPMENT FIXTURE TAG | THERMOMETER | HOT WATER PIPING (DHW) |
| POINT OF CONNECTION: NEW WORK TO EXISTING | PIPE REDUCER | HOT WATER RECIRCULATING PIPING (HWR) |
| EQUIPMENT TO BE DEMOLISHED SHOWN WITHIN DOTTED LINES AND/OR HATCH | PIPE CAP | VENT PIPING (V) |
| EXISTING TO REMAIN SHOWN WITHIN SOLID LINES | UNION | NATURAL GAS PIPING |
| NEW WORK INSTALLED UNDER THIS CONTRACT SHOWN WITH THICK SOLID LINES | PIPE TOP TAKE OFF | RS - REFRIGERANT SUCTION LINE, SIZE PER MANUFACTURER'S RECOMMENDATIONS |
| | PIPE BOTTOM TAKE OFF | RL - REFRIGERANT LIQUID LINE, SIZE PER MANUFACTURER'S RECOMMENDATIONS |
| | GATE VALVE | HG - REFRIGERANT HOT GAS BY-PASS LINE, SIZE PER MANUFACTURER'S RECOMMENDATIONS |
| | BALL VALVE | HB-1 HOSE BIB ("HB") OR WALL HYDRANT ("WH") |
| | CHECK VALVE, SWING TYPE | RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTOR |
| | TRIPLE DUTY VALVE: CHECK, SHUTOFF, BALANCING | THERMOSTAT |
| | CIRCUIT SETTER TYPE BALANCING VALVE. | FD-1 FLOOR DRAIN |
| | CLEAN OUT, SIZE DENOTED FCO = FLOOR CLEANOUT WCO = WALL CLEANOUT YCO = YARD CLEANOUT | AIR VENT |
| | CLEAN OUT, SIZE DENOTED (PLUG OR CAP TYPE USED IN END OF PIPE) | TRAP |
| | | PRESSURE RELIEF VALVE |



WALL MOUNTED WATER HEATER DETAIL
SCALE: NONE



METER INSTALLATION DETAIL
SCALE: NONE

NOTE: WATER METER TO BE FURNISHED BY UTILITY.

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Information Needed for Water Service Size

1. 55 Demand in gallons per minute. 61.25 w.s.f.u. flushometer type
2. 60 Low pressure at main in street (or at external pressure tank).
3. 10 Difference in elevation from main to meter (or external pressure tank to building control valve).
4. 2 Size of water meter (if applicable).
5. 127.5 Developed length from main to meter (or external pressure tank to building control valve). 85 x 1.5.

You Must First Find the Available Pressure After the Water Meter (or at building control valve). To obtain this pressure, you must:

6. 2.48 Find pressure loss due to friction in 2 inch water service. copper type K
 $\frac{6.73 \text{ ft-hd}/100'}{2.92 \text{ psi}/100' \text{ loss}}$
7. 4.3 Find pressure loss due to elevation, main to meter (or external pressure tank to building control valve). *Multiply the difference in elevation by 0.434 psi/ft.*
8. 2 Find pressure loss due to meter. (from manufacturer or AWWA).
9. 51.2 Subtract the loss due to friction (step 6), loss due to elevation (step 7), and loss due to meter (step 8) from the low main pressure (or low pressure at external pressure tank). This calculation is the available pressure after the water meter or at the building control valve). This answer is entered in line B, below.

Information Needed for Water Distribution Sizing

Using the following formula, find the pressure available for uniform loss (psi/100' of pipe)
 $A = [(B - (C + D + E)) / F] \times 100$

Cold Water to farthest Toilet

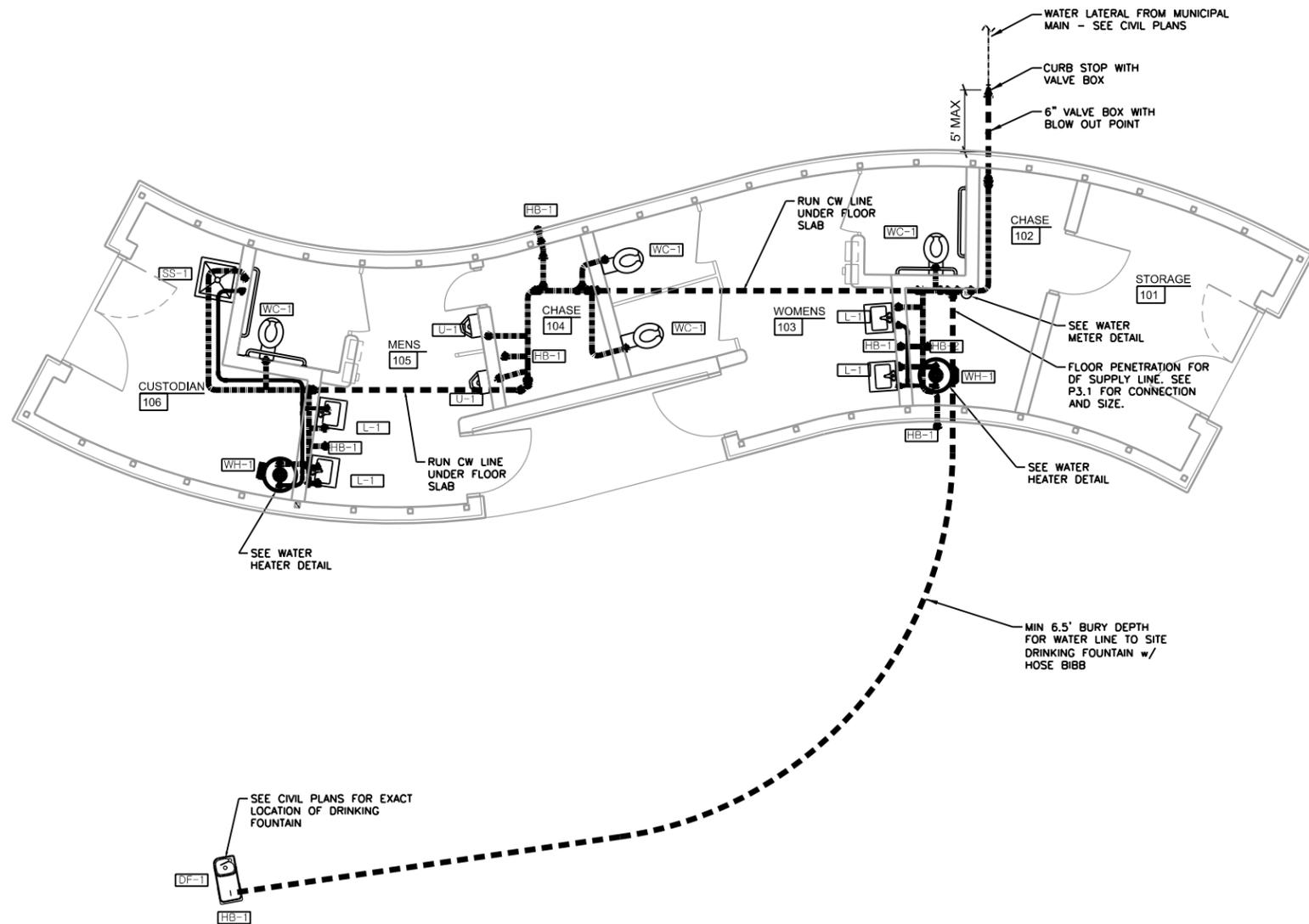
- A. 18.1 Pressure available for uniform loss (psi/100' of pipe)
- B. 51.2 Available pressure after water meter (at the building control valve or low pressure at internal pressure tank). (See item 9, above).
- C. 30 Pressure needed at controlling fixture. toilet
- D. 0.9 Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture 2 feet x 0.434 psi/ft.
- E. 0 Pressure loss due to water softeners, water treatment devices, instantaneous water heaters and backflow preventers. Conventional water heaters usually do not have a pressure loss.
- F. 112.5 Developed length from water meter (building control valve or internal pressure tank) to controlling fixture in feet 75 x 1.5.

Cold Water to Drinking Fountain

- A. 34.0 Pressure available for uniform loss (psi/100' of pipe)
- B. 51.2 Available pressure after water meter (at the building control valve or low pressure at internal pressure tank). (See item 9, above).
- C. 8 Pressure needed at controlling fixture. drinking fountain
- D. 0.9 Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture 2 feet x 0.434 psi/ft.
- E. 0 Pressure loss due to water softeners, water treatment devices, instantaneous water heaters and backflow preventers. Conventional water heaters usually do not have a pressure loss.
- F. 124.5 Developed length from water meter (building control valve or internal pressure tank) to controlling fixture in feet 83 x 1.5.

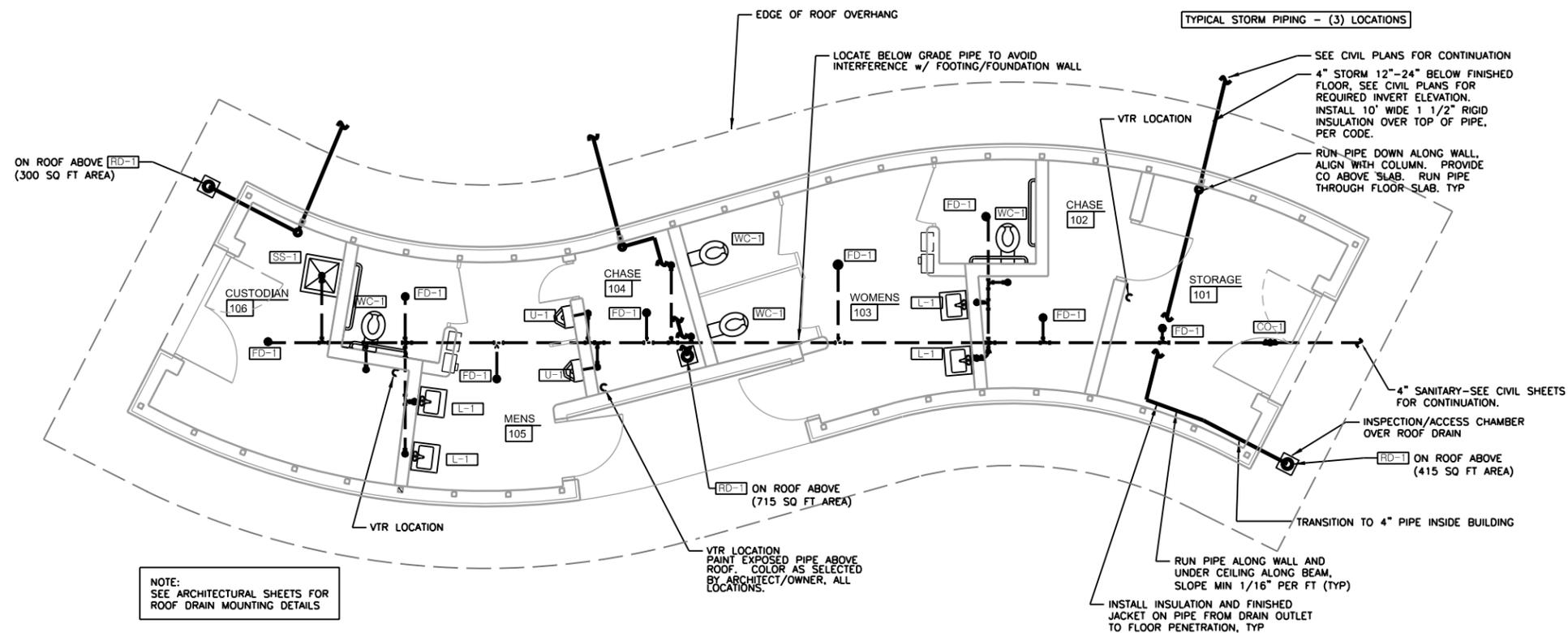
Hot Water to farthest Faucet

- A. 34.4 Pressure available for uniform loss (psi/100' of pipe)
- B. 51.2 Available pressure after water meter (at the building control valve or low pressure at internal pressure tank). (See item 9, above).
- C. 8 Pressure needed at controlling fixture. lavatory faucet
- D. 0.9 Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture 2 feet x 0.434 psi/ft.
- E. 0 Pressure loss due to water softeners, water treatment devices, instantaneous water heaters and backflow preventers. Conventional water heaters usually do not have a pressure loss.
- F. 123 Developed length from water meter (building control valve or internal pressure tank) to controlling fixture in feet 82 x 1.5.



WATER DISTRIBUTION PIPING PLAN
 0 2 4 8 SCALE: 1/8" = 1'-0"

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NOTE:
SEE ARCHITECTURAL SHEETS FOR
ROOF DRAIN MOUNTING DETAILS

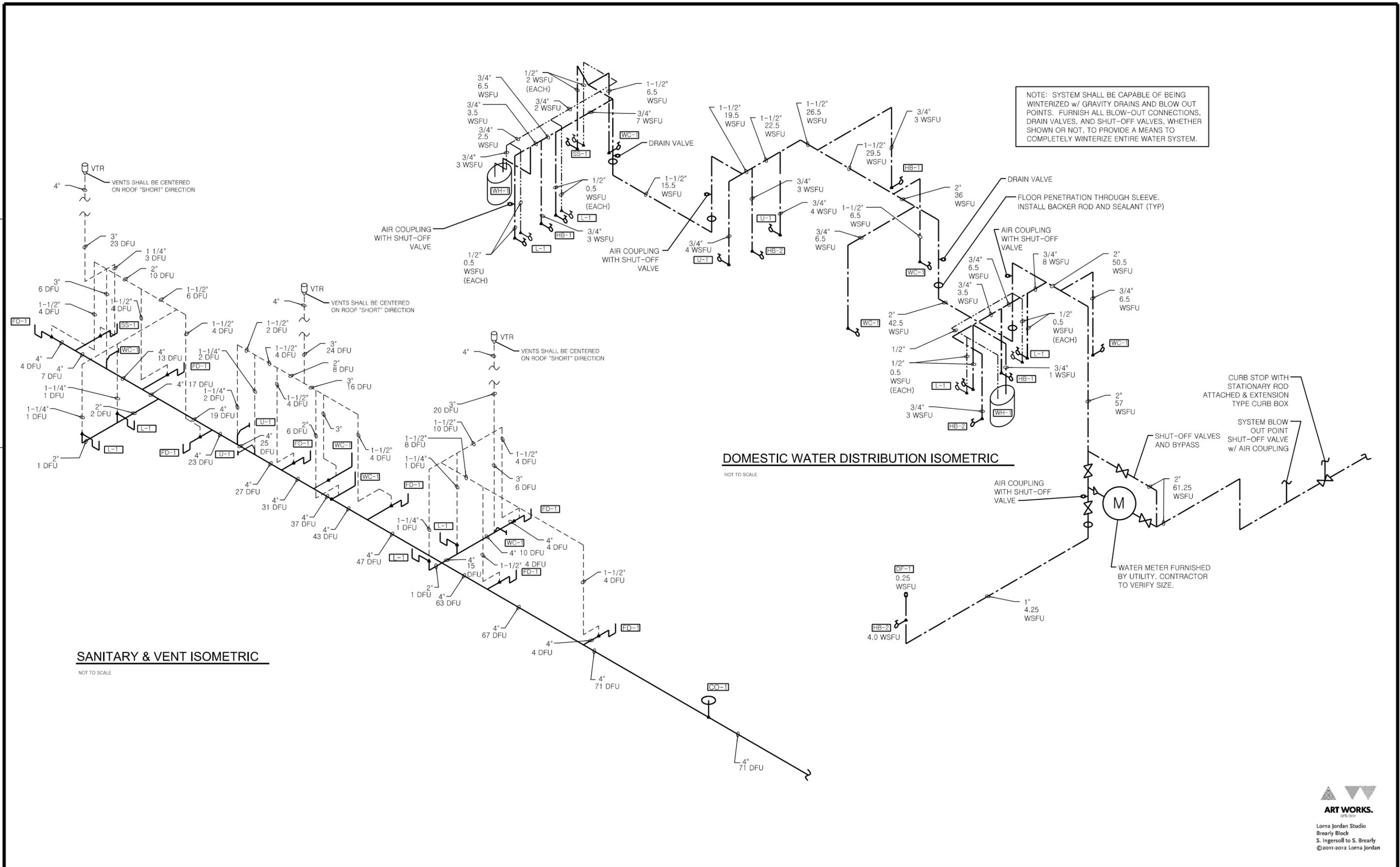


STORM, SANITARY AND VENT PIPING PLAN

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



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SANITARY & VENT ISOMETRIC

NOT TO SCALE

DOMESTIC WATER DISTRIBUTION ISOMETRIC

NOT TO SCALE



| EXHAUST FAN SCHEDULE | | | | | | | | |
|----------------------|----------|-----|-------|---------|-------|------|----------------------------------|--------------------|
| TAG | MOUNTING | CFM | SP | VOLTAGE | PHASE | FLA | REMARKS | BASIS OF DESIGN |
| F-1 | CEILING | 50 | 0,125 | 120 | 1 | 0,34 | PROVIDE GRAVITY BACKDRAFT DAMPER | GREENHECK SP-A90 |
| F-2 | CEILING | 450 | 0,5 | 110 | 1 | 4,4 | PROVIDE GRAVITY BACKDRAFT DAMPER | GREENHECK CSP-A710 |
| F-3 | CEILING | 75 | 0,125 | 110 | 1 | 0,58 | PROVIDE GRAVITY BACKDRAFT DAMPER | GREENHECK SP-A110 |

| GRILLE SCHEDULE | | | | | | | |
|-----------------|----------|----------|-------|---------|-----------|-------------------------------|------------------|
| TAG | LOCATION | MOUNTING | SIZE | CFM | FREE AREA | REMARKS | BASIS FOR DESIGN |
| L-1 | SOFFIT | FLANGED | 6X6 | 50 - 75 | 0,13 | PROVIDE MANUAL SHUTOFF DAMPER | SUNVENT FL |
| L-2 | WALL | INSET | 12X12 | 225 | 0,5 | | SUNVENT EX |
| L-3 | SOFFIT | FLANGED | 12X12 | 450 | 0,5 | PROVIDE MANUAL SHUTOFF DAMPER | SUNVENT FL |

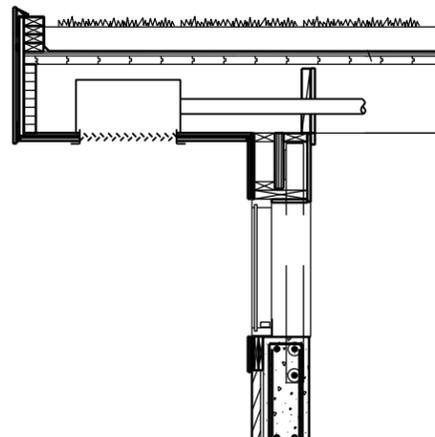
NOTE: VERIFY EXACT SIZE AND LOCATION OF L-2 & L-4 GRILLES WITH ARCHITECTURAL SHEETS.

| ELECTRIC HEATERS | | | | | | | |
|------------------|----------|----------|-------|------|---------|------|------------------|
| TAG | LOCATION | MOUNTING | WATTS | MBH | V/PHASE | MCA | BASIS FOR DESIGN |
| H-1 | WALL | SURFACE | 376 | 1280 | 208/1 | 1,80 | QMARK WHT500 |

NOTE:
1. PROVIDE INTEGRAL THERMOSTAT

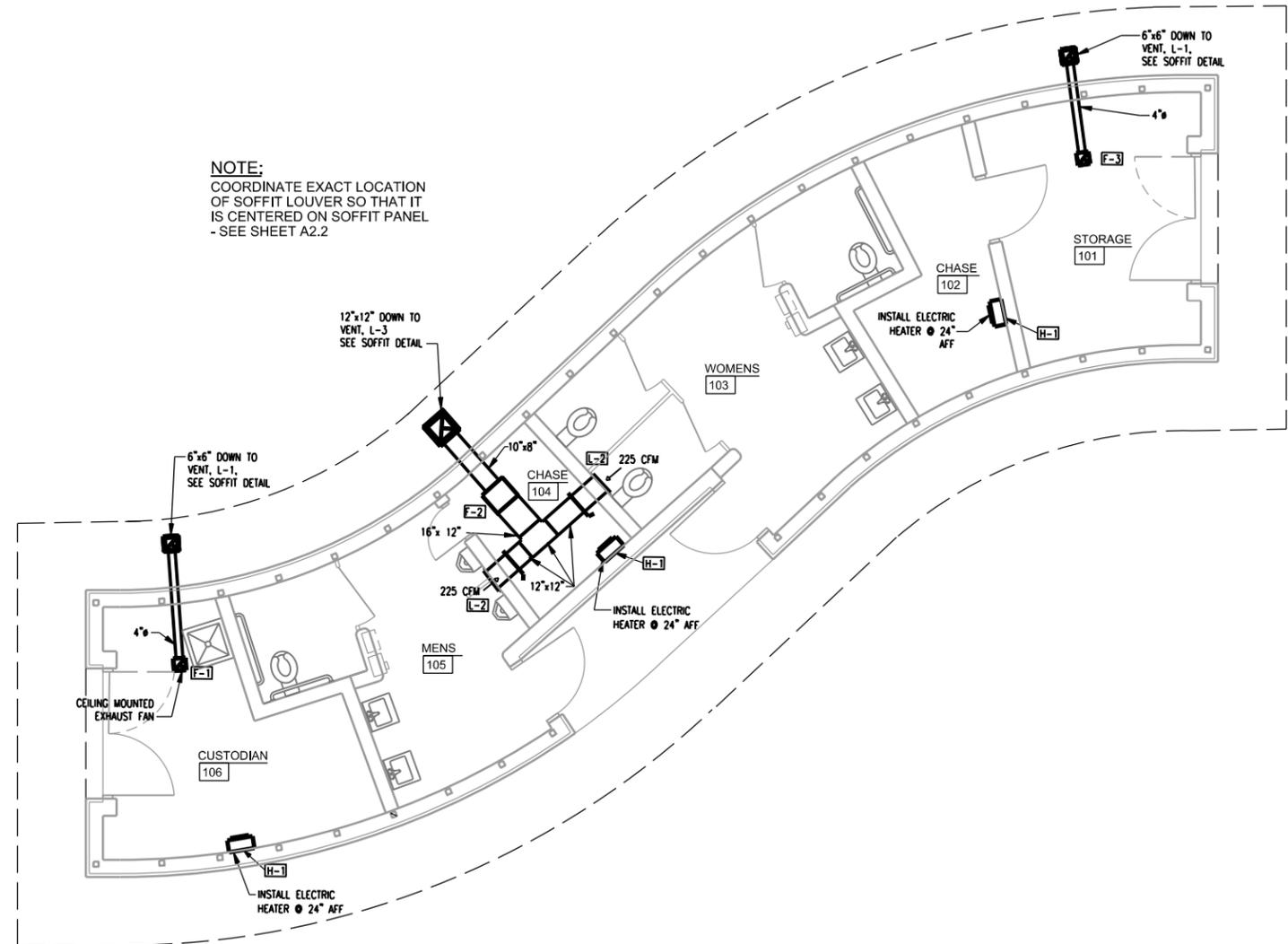
GENERAL NOTES:

- SEE GENERAL NOTES ON ARCHITECTURAL SHEETS AS THEY APPLY TO THE WORK INDICATED ON THESE DRAWINGS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS AND CONNECTIONS WITH ELECTRICAL CONTRACTOR.
- CONTRACTOR TO COORDINATE ALL WALL AND FLOOR PENETRATIONS WITH THE GENERAL CONTRACTOR.
- SEE PROJECT MANUAL AND ARCHITECTURAL SECTIONS FOR PAINTING REQUIREMENTS.
- INSTALL ALL EQUIPMENT SO AS TO MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
- ELECTRICAL CONNECTIONS TO POWERED EQUIPMENT TO BE MADE BY ELECTRICAL CONTRACTOR.
- DUCT SIZES LISTED ARE INSIDE CLEAR DIMENSIONS.

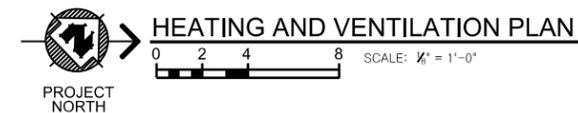


SOFFIT DETAIL

NOT TO SCALE



NOTE:
COORDINATE EXACT LOCATION OF SOFFIT LOUVER SO THAT IT IS CENTERED ON SOFFIT PANEL - SEE SHEET A2.2



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