

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL

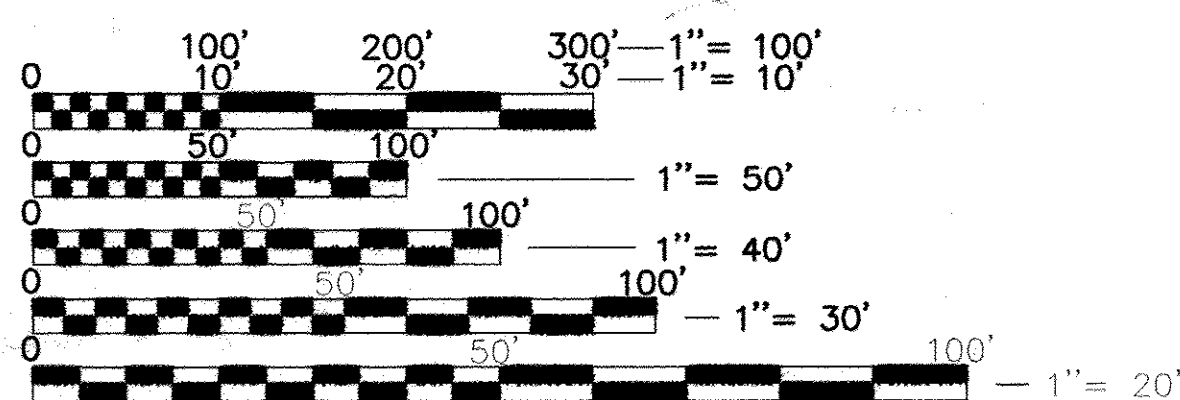
01-20-2017 LETTING ITEM 151

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:  
MAJOR COLLECTOR

SPEED LIMIT:  
20 MPH (POSTED)

TRAFFIC VOLUME:  
BURLINGTON AVENUE=1450 ADT (2014)  
HILLGROVE AVENUE=3250 ADT (2014)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123 OR 811

CONTRACT NO. 61D18

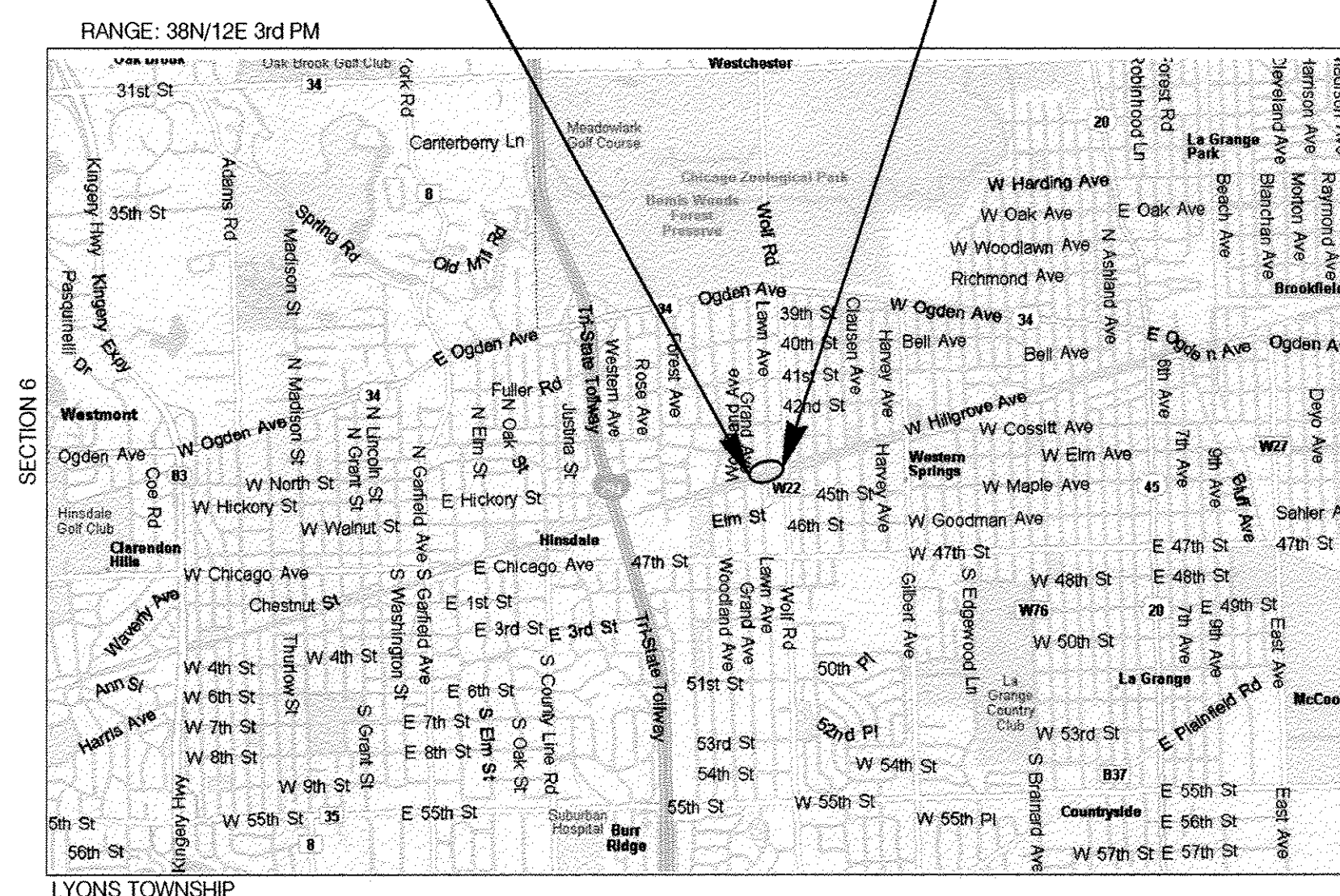
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

FAU 3183 BURLINGTON AVENUE AND HILLGROVE AVENUE  
LAWN AVENUE TO WOLF ROAD  
TRAIN PLATFORM RECONSTRUCTION AND  
LANDSCAPE ENHANCEMENT

SECTION 09-00091-00-MS  
PROJECT: HPP-1419 (014)  
VILLAGE OF WESTERN SPRINGS  
COOK COUNTY  
C-91-105-10

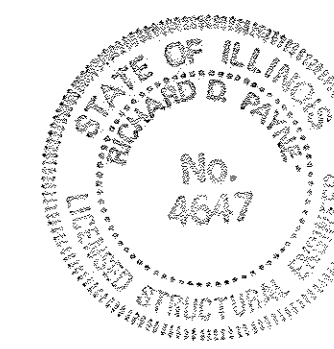
PROJECT BEGINS MILE POST 15.393 LAWN AVENUE  
PROJECT ENDS MILE POST 15.289 WOLF ROAD



LOCATION MAP  
SCALE: NTS

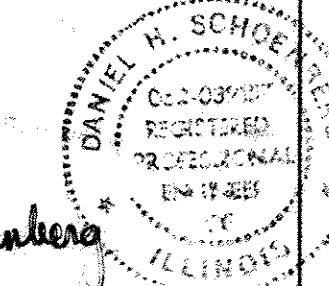
GROSS & NET LENGTH OF PROJECT = 549 FT. = 0.104 MILES

SMITHGROUP JJR  
LANDSCAPE ARCHITECTS  
35 E. WACKER, SUITE 2200  
CHICAGO, IL 60601  
(312) 641-0770  
SIGNATURE: *Paul J. Wiese*  
DATE: 06/28/2016  
IL LICENSE NO. 157-009307  
EXP. DATE: 08-31-2017  
FIELD: LANDSCAPE PLANS  
SHEETS 22 TO 32



ESCA CONSULTANTS, INC.  
CIVIL AND STRUCTURAL ENGINEERS  
2008 LINVIEW AVENUE  
URBANA, IL 61803  
(217) 384-0505  
SIGNATURE: *Paul D. Payne*  
DATE: 07/24/2016  
IL LICENSE NO. 091-004647  
EXP. DATE: NOVEMBER 30, 2016  
FIELD: STRUCTURAL PLANS  
SHEETS 45 TO 51

JAMES J. BENES & ASSOCIATES  
CONSULTING ENGINEERS  
950 WARRENVILLE ROAD, SUITE 101  
LISLE, IL 60532  
(630) 719-7570  
SIGNATURE: *Daniel H. Schoenberger*  
DATE: 6-29-2016  
IL LICENSE NO. 062-039157  
EXP. DATE: NOVEMBER 30, 2017  
FIELD: CIVIL ENGINEERING  
SHEETS 1-21, 33-44 and 52-58



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED: 06/30/16 2016

*Matthew Schubert*  
Village of Western Springs, Director of Municipal Services

PASSED: July 5 2016

*Christopher Holt*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid  
Based on Limited Review July 5 2016

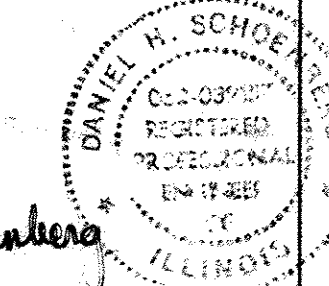
*John Fortman*  
Regional Engineer

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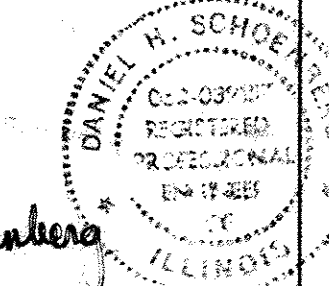
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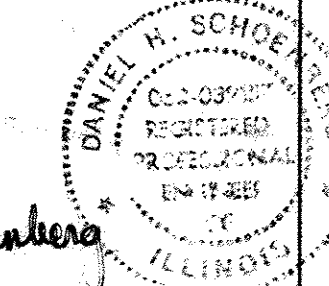
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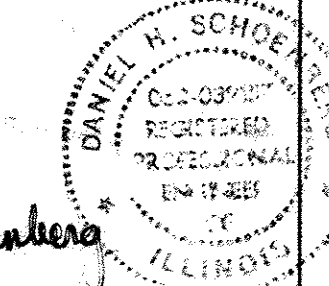
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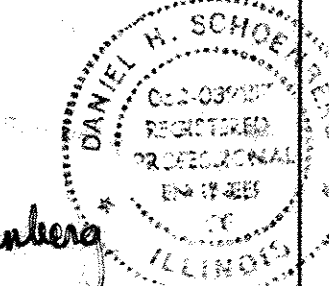
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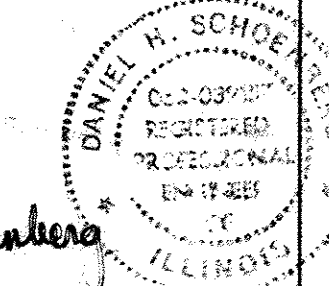
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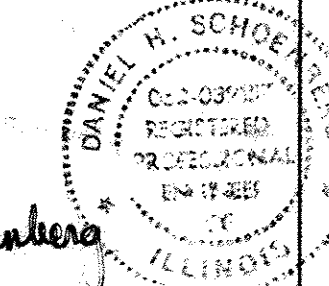
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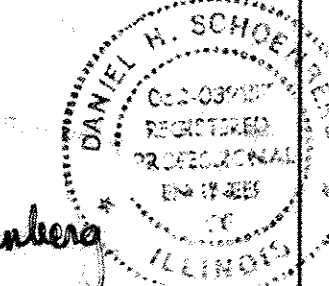
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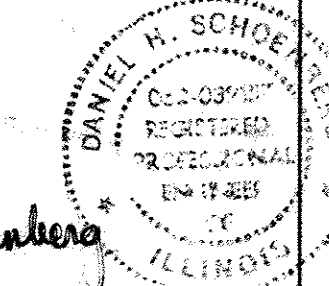
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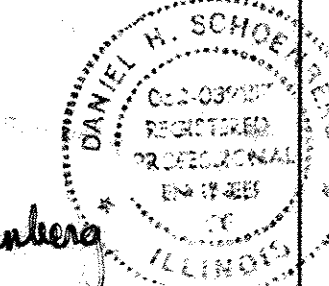
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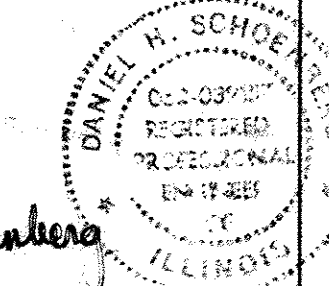
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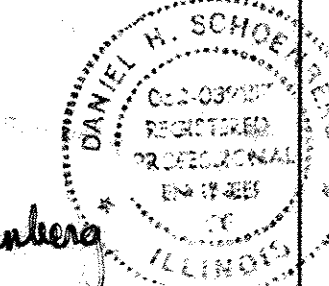
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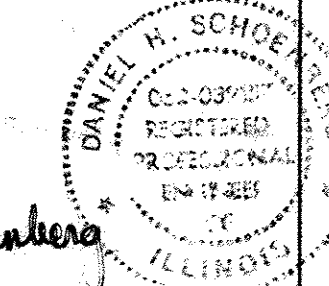
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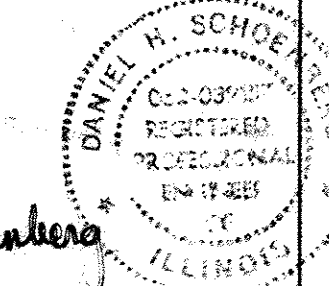
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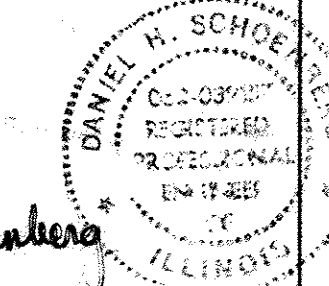
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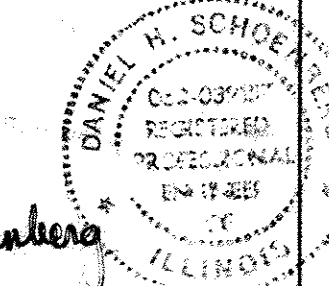
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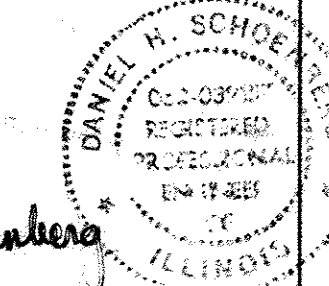
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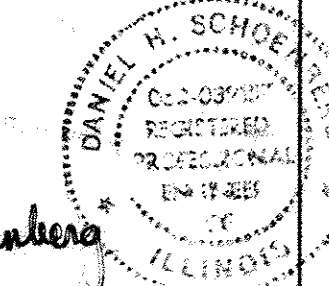
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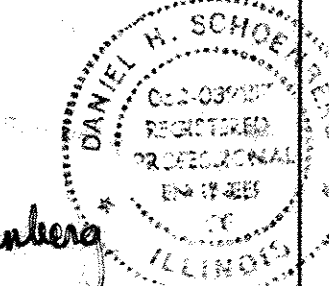
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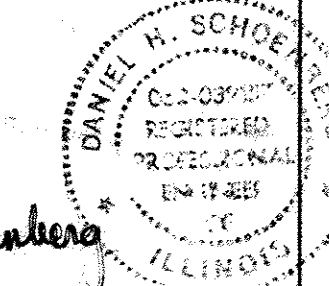
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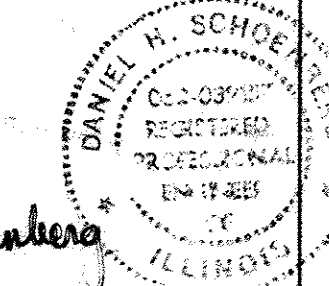
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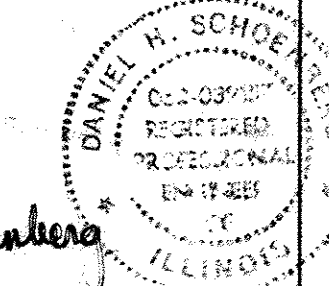
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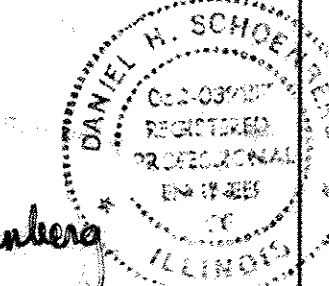
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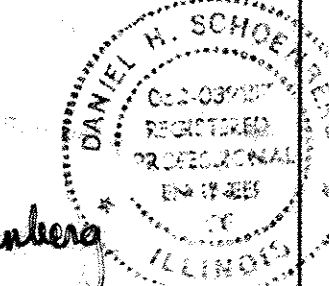
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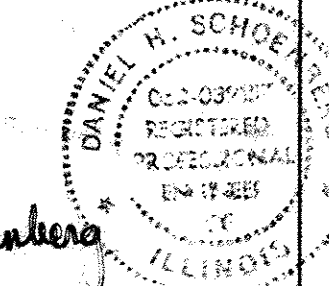
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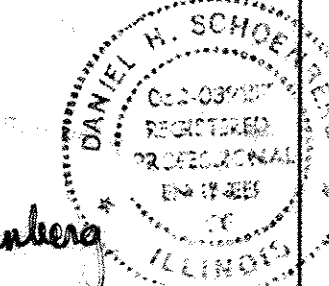
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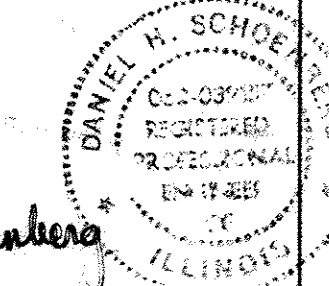
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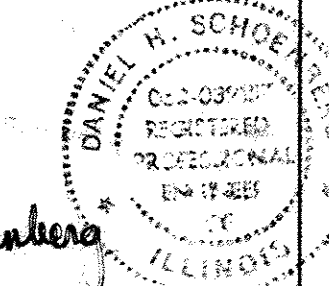
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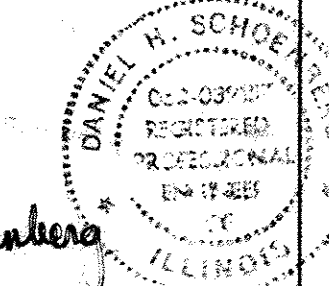
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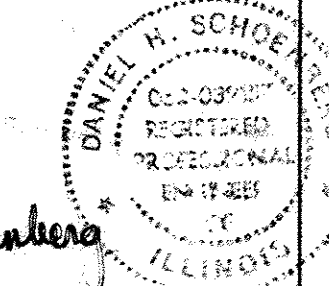
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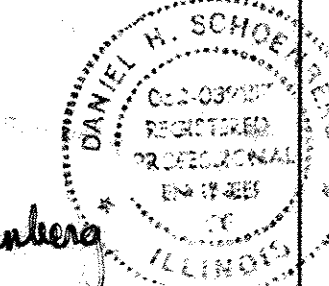
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FIELD: CIVIL ENGINEERING  
SHEETS 1-21, 33-44 and 52-58



JAMES J. BENES & ASSOCIATES  
CONSULTING ENGINEERS  
950 WARRENVILLE ROAD, SUITE 101  
LISLE, IL 60532  
(630) 719-7570  
SIGNATURE: *Daniel H. Schoenberger*  
DATE: 6-29-2016  
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INDEX OF SHEETS

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LIST OF STATE STANDARDS

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602401-03	MANHOLE TYPE A
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701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
825021-03	LIGHTING CONTROLLER BASE MOUNTED, 240 V

BENCH MARKS

FIRE HYDRANT AT THE NORTHEAST CORNER OF WOLF ROAD AND BURLINGTON AVENUE. CAST ARROW LOCATED ON TOP FLANGE OF HYDRANT. ELEV = 662.69

MWRD TYPICAL GENERAL NOTES

TYPICAL GENERAL NOTES

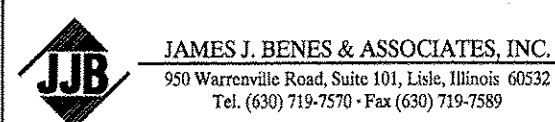
- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- ELEVATION DATUM IS NAVD 88.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

Pipe Material Spec.	Joint Spec.	Pipe Material Spec.	Joint Spec.
<del>Vitrified Clay Pipe</del>	<del>C-425</del>	<del>PVC Gravity Sewer Pipe</del>	<del>D-3212 or D-2855</del>
<del>VCP C-700</del>	<del>C-425</del>	<del>6"-15" dia. SDR 26</del>	<del>D-3034</del>
<del>VCP (No-Bell) C-700</del>	<del>C-425</del>		
<del>Joint Collar</del>	<del>D-1784</del>		
<del>Concrete Pipe C-14</del>	<del>C-443</del>	<del>18"-27" dia. F/dy=46</del>	<del>D-3212 or D-2855</del>
<del>RCP C-76</del>	<del>C-443</del>	<del>F-679</del>	
<del>ACP C-428</del>	<del>D-1869</del>		
<del>ABS Sewer Pipe</del>	<del>D-2751</del>	<del>CISP A-74</del>	<del>C-564</del>
<del>Solid Wall 6" dia. SDR 23.5</del>		<del>DIP A-21.51</del>	<del>A-21.11</del>
<del>ABS D-2751</del>			
<del>ABS Composite/Truss Pipe</del>	<del>D-2680</del>		
<del>8"-15" dia.</del>			
<del>ABS D-2680</del>			

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/2" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/2 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF PIPE WHEN USING PVC.
- "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
  - CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
  - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

GENERAL NOTES

- ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE MUNICIPALITY AND JAMES J. BENES AND ASSOCIATES, INC. THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. JAMES J. BENES AND ASSOCIATES, INC.: (630) 719-7570
- ALL ELEVATIONS ARE ON NAVD 88 DATUM.
- NEITHER THE ENGINEER, NOR THE OWNER, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE OWNER, SHALL ADVISE ON, OR ISSUE DIRECTIONS CONCERNING ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OF PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE DRAINAGE ITEMS BEING CONSTRUCTED AND WILL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF EXISTING STORM SEWERS PRIOR TO THE CONSTRUCTION OF PROPOSED STORM SEWER.
- BEFORE STARTING AND EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE MUNICIPALITY.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- SAW CUTTING OF PAVEMENT, SHOULDERS, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- ALL STRUCTURE (MANHOLE, CATCH BASIN, INLET) CONNECTIONS SHALL MEET THE REQUIREMENTS FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923. ADDITIONALLY, PIPE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE STRUCTURE REPLACEMENT.
- THOSE SEEKING THE FULL GEOTECHNICAL REPORT OR PRELIMINARY SITE INVESTIGATION SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT: MATT SUPERT, DIRECTOR OF MUNICIPAL SERVICES, VILLAGE OF WESTERN SPRINGS. (708) 246-1800
- PROJECT NEEDS TO COMPLY WITH RAILROAD STANDARDS AND REGULATIONS, BUILDING CODES, AND ACCESSIBILITY CODES INCLUDING ADA AND 49 CFR.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BURLINGTON NORTHERN SANTA FE RAILROAD AND METRA WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.04.
- THE VILLAGE WILL NEED TO ENTER INTO A SOLE SOURCE CONTRACT WITH RAILPROS TO PROVIDE CONSTRUCTION FLAGGING ON BNSF RIGHT-OF-WAY.



USER NAME =	DESIGNED -- DHS	REVISED -- 30% 1-06-2016
	DRAWN -- SMP	REVISED -- 60% 2-02-2016
PLOT SCALE =	CHECKED -- JCZ	REVISED -- 90% 3-04-2016
PLOT DATE =	DATE -- 11-18-2016	REVISED -- 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
INDEX OF SHEETS AND GENERAL NOTES

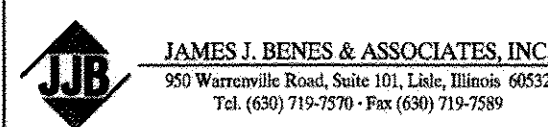
SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	2
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	6	
20101700	SUPPLEMENTAL WATERING	UNIT	24	24	
20200100	EARTH EXCAVATION	CU YD	1,649	1,649	
20400800	FURNISHED EXCAVATION	CU YD	1,129	1,129	
20800150	TRENCH BACKFILL	CU YD	506	506	
20900110	POROUS GRANULAR BACKFILL	CU YD	480	480	
28000510	INLET FILTERS	EACH	13	13	
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	667	667	
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	1,005	1,005	
42001300	PROTECTIVE COAT	SQ YD	1,667	1,667	
42400800	DETECTABLE WARNINGS	SQ FT	124	124	
44000100	PAVEMENT REMOVAL	SQ YD	386	386	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	411	411	
44000600	SIDEWALK REMOVAL	SQ FT	5,092	5,092	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	34	34	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	19	19	

LEGEND  
 -DENOTES SPECIALTY ITEM



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	3
ILLINOIS FED. AID PROJECT CONTRACT NO. 61D18				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	273	273	
50102700	MASONRY REMOVAL	CU YD	20	20	
50200100	STRUCTURE EXCAVATION	CU YD	865	865	
50300225	CONCRETE STRUCTURES	CU YD	339	339	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	48,208	48,208	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	250	250	
56106400	ADJUSTING WATER MAIN 8"	FOOT	20	20	
56200200	WATER SERVICE LINE 3/4"	FOOT	100	100	
56200300	WATER SERVICE LINE 1"	FOOT	137	137	
56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1	
56500800	DOMESTIC WATER SERVICE BOXES	EACH	4	4	
58700300	CONCRETE SEALER	SQ FT	4,198	4,198	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	171	171	
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	855	855	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	8	8	
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	2	2	

LEGEND  
 -DENOTES SPECIALTY ITEM

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 950 Warracville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 - Fax (630) 719-7589

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST PLATFORM RECONSTRUCTION  
 SUMMARY OF QUANTITIES**

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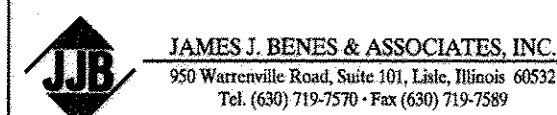
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1	
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4	4	
60500050	REMOVING CATCH BASINS	EACH	4	4	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	548	548	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	825	825	
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	
66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	
67100100	MOBILIZATION	LSUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	33	33	
72900200	METAL POST - TYPE B	FOOT	54	54	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	14	14	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	448	448	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	144	144	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	15	15	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	2	
80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1	1	



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SUMMARY OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	430	430	
81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	180	180	
81028750	UNDERGROUND CONDUIT, COILABLE NONMETTALIC CONDUIT, 2" DIA.	FOOT	2,458	2,458	
81400100	HANDHOLE	EACH	3	3	
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	148	148	
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3,918	3,918	
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	5,760	5,760	
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	687	687	
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	938	938	
81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	1,365	1,365	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	8	8	
84200804	REMOVAL OF POLE FOUNDATION	EACH	1	1	
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1	
89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
Z0003850	BENCHES	EACH	8	8	
Z0003855	BICYCLE RACKS	EACH	5	5	



LEGEND  
 -DENOTES SPECIALTY ITEM

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel: (630) 719-7570 - Fax: (630) 719-7569

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST PLATFORM RECONSTRUCTION  
 SUMMARY OF QUANTITIES**

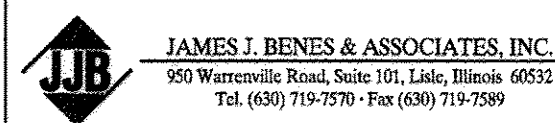
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
Z0004002	BOLLARDS	EACH	2	2	
Z0007127	HANDRAIL REMOVAL	LSUM	1	1	
Z0012450	CONCRETE STEPS	CU YD	14	14	
Z0012455	CONCRETE STEP REMOVAL	EACH	30	30	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	100	100	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	100	100	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	439	439	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1	
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	20	20	
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	320	320	
△ Z0076600	TRAINEES	HOUR	500	500	
△ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
A2004524	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 3" CALIPER, BALLED AND BURLAPPED	EACH	21	21	
⊗ A2005225	TREE, LARIX DECIDUA (EUROPEAN LARCH), 5" CALIPER, BALLED AND BURLAPPED	EACH	1	1	
A2007125	TREE, QUERCUS RUBRA (RED OAK), 5" CALIPER, BALLED AND BURLAPPED	EACH	4	4	

LEGEND  
 ⊗ -DENOTES SPECIALTY ITEM  
 △ -CONSTRUCTION CODE 0042



USER NAME =	DESIGNED -- DHS	REVISED -- 30% 1-06-2016
	DRAWN -- SMP	REVISED -- 60% 2-02-2016
PLOT SCALE =	CHECKED -- JCZ	REVISED -- 90% 3-04-2016
PLOT DATE =	DATE -- 11-18-2016	REVISED -- 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
A2012006	TREE, AESCULUS X CARNEA FORT MCNAIR (FORT MCNAIR RED HORSECHESTNUT), 6" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
A2015999	TREE, FAGUS SYLVATICA TRICOLOR (TRICOLOR EUROPEAN BEECH), 12' HEIGHT, BALLED AND BURLAPPED	EACH	1	1	
B2010168	TREE, CORNUS KOUSA (KOUSA DOGWOOD), 8' HEIGHT, BALLED AND BURLAPPED	EACH	1	1	
C2001590	SHRUB, CORNUS SANGUINEA (BLOOD-TWIG DOGWOOD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	51	51	
C2003600	SHRUB, HYDRANGEA PANICULATA LITTLE QUICK FIRE (LITTLE QUICK FIRE HYDRANGEA), CONTAINER GROWN, 5 GALLON	EACH	4	4	
C2007010	SHRUB, ROSA RADRAZZ (KNOCKOUT ROSE), CONTAINER GROWN, 3-GALLON	EACH	31	31	
C2009650	SHRUB, SAMBUCUS NIGRA EVA BLACK LACE (BLACK LACE ELDERBERRY), CONTAINER GROWN, 5 GALLON	EACH	5	5	
C2011540	SHRUB, VIBURNUM X CAYUGA (CAYUGA VIBURNUM), CONTAINER GROWN, 5 GALLON	EACH	5	5	
C2C060G5	SHRUB, RHUS TYPHINA BAILTIGER, (TIGER EYE SUMAC), CONTAINER GROWN, 5-GALLON	EACH	42	42	
C2C10230	SHRUB, SPIRAEA JAPONICA WALBUMA MAGIC CARPET (JAPANESE SPIREA), CONTAINER GROWN, 3 GALLON	EACH	72	72	
C2C10928	SHRUB, SYRINGA MEYERI PALIBIN (DWARF KOREAN LILAC), CONTAINER GROWN, 3-GALLON	EACH	35	35	
D2002137	EVERGREEN, PICEA PUNGENS GLOBOSA (DWARF GLOBE BLUE SPRUCE), 3' HEIGHT, CONTAINER	EACH	62	62	
D2C03636	EVERGREEN, TAXUS X MEDIA HICKSII (HICKS ANGLOJAPANESE YEW), 3' WIDTH, CONTAINER	EACH	93	93	
K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	11.32	11.32	
K0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	4.87	4.87	
K1001988	IRRIGATION SYSTEM SPECIAL	LSUM	1	1	



LEGEND  
 -DENOTES SPECIALTY ITEM

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, East, Illinois 60532  
 Tel. (630) 719-7570 - Fax (630) 719-7589

USER NAME =	DESIGNED -- DHS	REVISED -- 30% 1-06-2016
	DRAWN -- SMP	REVISED -- 60% 2-02-2016
PLOT SCALE =	CHECKED -- JCZ	REVISED -- 90% 3-04-2016
PLOT DATE =	DATE -- 11-18-2016	REVISED -- 95% 4-27-2016

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST PLATFORM RECONSTRUCTION  
 SUMMARY OF QUANTITIES**

SCALE: N/A      SHEET NO. \_\_\_ OF \_\_\_ SHEETS      STA. TO STA.

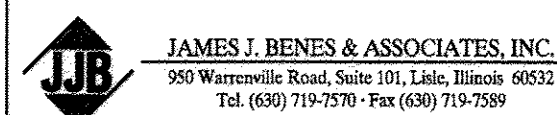
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
X0321690	BRICK WALL REMOVAL	FOOT	116	116	
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2	2	
X0326827	WATER METER ASSEMBLY, 1"	EACH	4	4	
X0326863	BRICK SIDEWALK	SQ FT	5,682	5,682	
X0326864	BRICK SIDEWALK REMOVAL	SQ FT	180	180	
X0327147	REMOVE RAILROAD PLATFORM	SQ FT	9,023	9,023	
X0327512	SANITARY FORCE MAIN, 4"	FOOT	81	81	
X0327595	REMOVE EXISTING KIOSK AND SALVAGE	EACH	2	2	
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	28	28	
X0327808	PLANTING SOIL MIX FURNISH AND PLACE, 18"	SQ YD	746	746	
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	737	737	
X1200051	FILTER FABRIC, SPECIAL	SQ YD	245	245	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	30	30	
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	6,272	6,272	
X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	8,865	8,865	
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	1,835	1,835	

LEGEND  
 - DENOTES SPECIALTY ITEM



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	9
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61D18

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
X5030310	STONE VENEER	SQ FT	5,002	5,002	
X5090101	PIPE HANDRAIL, SPECIAL, TYPE 1	FOOT	42	42	
X5090102	PIPE HANDRAIL, SPECIAL, TYPE 2	FOOT	16	16	
X5090850	ORNAMENTAL RAILING	FOOT	832	832	
X5504000	STORM SEWERS, DUCTILE IRON, TYPE 2 8"	FOOT	579	579	
X5620025	WATER SERVICE CONNECTION 3/4"	EACH	2	2	
X5620030	WATER SERVICE CONNECTION 1"	EACH	2	2	
X6024240	INLETS, SPECIAL	EACH	19	19	
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	369	369	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1	
X8130110	JUNCTION BOX (SPECIAL)	EACH	37	37	
X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	28	28	
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	2	2	
X8250510	LIGHTING CONTROLLER FOUNDATION	EACH	2	2	
XX000959	TRASH RECEPTACLES	EACH	5	5	
XX006282	STORM SEWERS, DUCTILE IRON, TYPE 1 12"	FOOT	42	42	

LEGEND  
 -DENOTES SPECIALTY ITEM

 JAMES J. BENES & ASSOCIATES, INC. 930 Warrenville Road, Suite 101, Lake, Illinois 60152 Tel: (630) 715-2790 Fax: (630) 715-2589	USER NAME =	DESIGNED -- DHS	REVISED -- 30% 1-06-2016
		DRAWN -- SMP	REVISED -- 60% 2-02-2016
	PLOT SCALE =	CHECKED -- JCZ	REVISED -- 90% 3-04-2016
	PLOT DATE =	DATE -- 11-18-2016	REVISED -- 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADSIDE IMPROVEMENTS	
				80% FED 20% LOCAL 0021	
XX006986	STORM SEWER DUCTILE IRON PIPE TYPE 1, 8 INCH	FOOT	276	276	
XX007412	COLUMN WITH PLANTER	EACH	9	9	
XX007415	MONUMENT TYPE A	EACH	1	1	
XX007416	MONUMENT TYPE B	EACH	1	1	
XX009137	TREE, CHAMAECYPARIS NOOTKATENSIS GLAUCA PENDULA (WEEPING ALASKAN CEDAR), 12' HEIGHT, BALLED AND BURLAPPED	EACH	1	1	
XX009138	PRECAST CONCRETE CAPSTONE	SQ FT	1,153	1,153	
XX009139	BICYCLE REPAIR STAND	EACH	1	1	
XX009140	WATER FEATURE - NORTH	LSUM	1	1	
XX009141	WATER FEATURE - SOUTH	LSUM	1	1	



LEGEND  
 -DENOTES SPECIALTY ITEM

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 950 Watseville Road, Suite 101, Lake, Illinois 60532  
 Tel. (800) 719-7570 - Fax (630) 719-7589

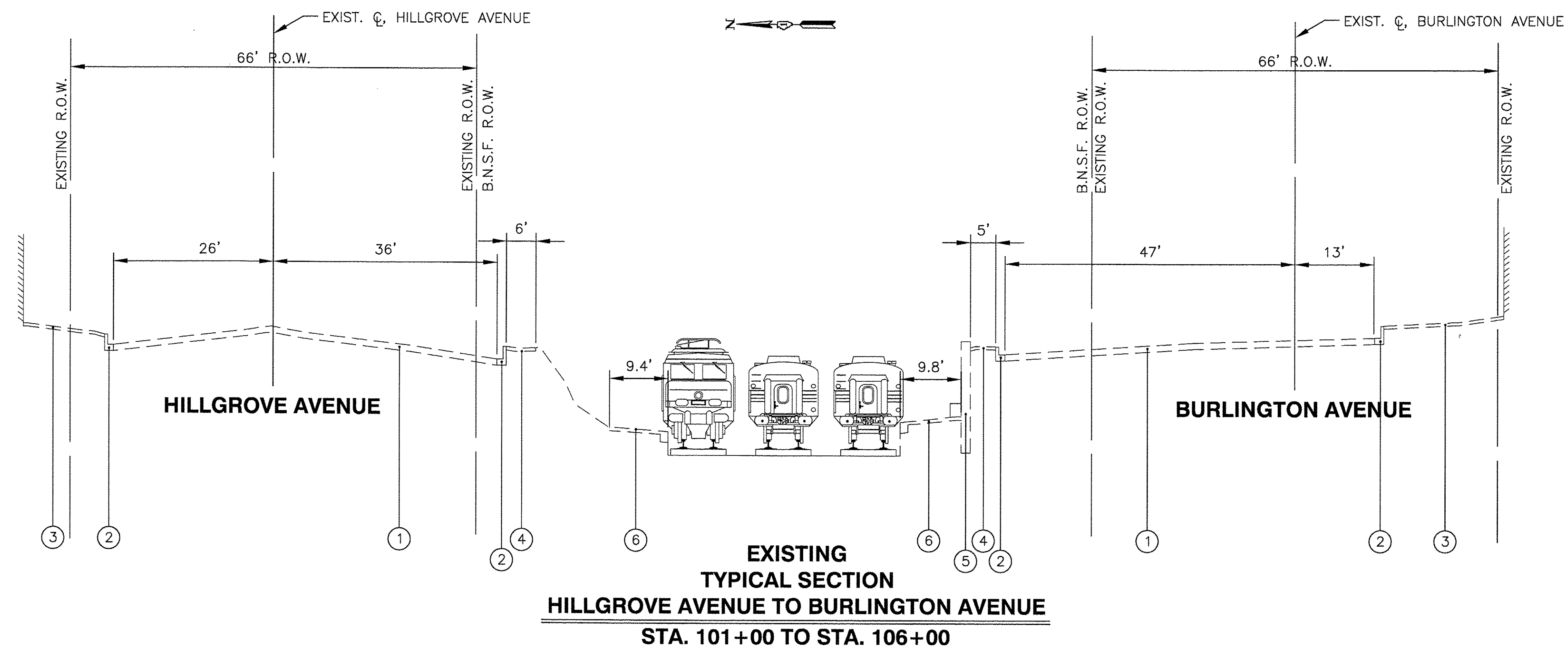
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	DRAWN -- SMP	REVISED -- 60% 2-02-2016
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

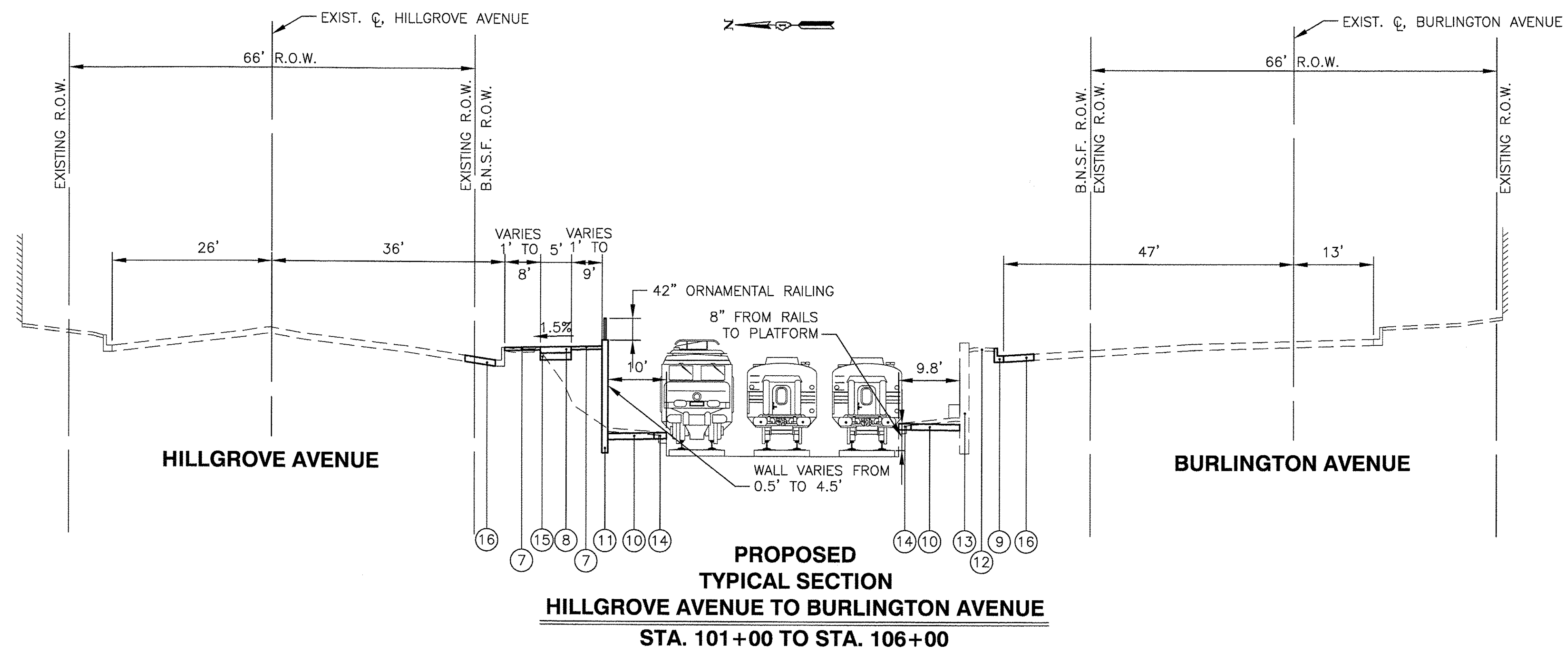
**EAST PLATFORM RECONSTRUCTION  
 SUMMARY OF QUANTITIES**

SCALE: N/A      SHEET NO. \_\_\_ OF \_\_\_ SHEETS      STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	



- LEGEND**
- ① EXISTING BITUMINOUS PAVEMENT TO REMAIN
  - ② EXISTING CONCRETE CURB & GUTTER, TYPE B-6.12 TO REMAIN EXCEPT AS SHOWN ON PLAN
  - ③ EXISTING P.C.C. SIDEWALK TO REMAIN
  - ④ EXISTING P.C.C. SIDEWALK TO BE REMOVED
  - ⑤ EXISTING CONCRETE WALL TO REMAIN
  - ⑥ EXISTING PLATFORM TO BE REMOVED
  - ⑦ PROPOSED LANDSCAPING
  - ⑧ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5"
  - ⑨ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
  - ⑩ PROPOSED PLATFORM (PAID FOR AS "PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH (SPECIAL)" AND "BRICK SIDEWALK")
  - ⑪ PROPOSED PORTLAND CEMENT CONCRETE RETAINING WALL
  - ⑫ PROPOSED PLANTER AREA
  - ⑬ PROPOSED STRUCTURAL REPAIR OF CONCRETE, REPLACE CAP STONE AND STONE VENEER
  - ⑭ PROPOSED DETECTABLE WARNING (SPECIAL)
  - ⑮ PROPOSED AGG BASE COURSE TYPE B, 6"
  - ⑯ CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PATCHING		
CLASS D PATCHES, 10" (3 LIFTS) (HMA BINDER IL-19mm)	4% @ 70 Gyr.	QC/QA

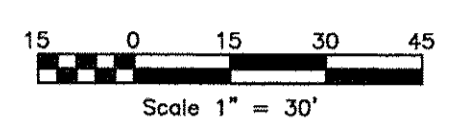
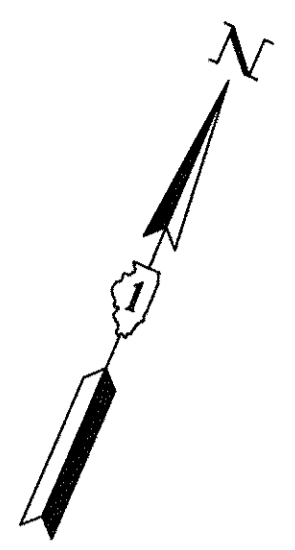
- NOTES:**
- 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN.
  - 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
  - 3) FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISION.
  - 4) FOR USE OF RECYCLED MATERIAL SEE SPECIAL PROVISIONS.

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

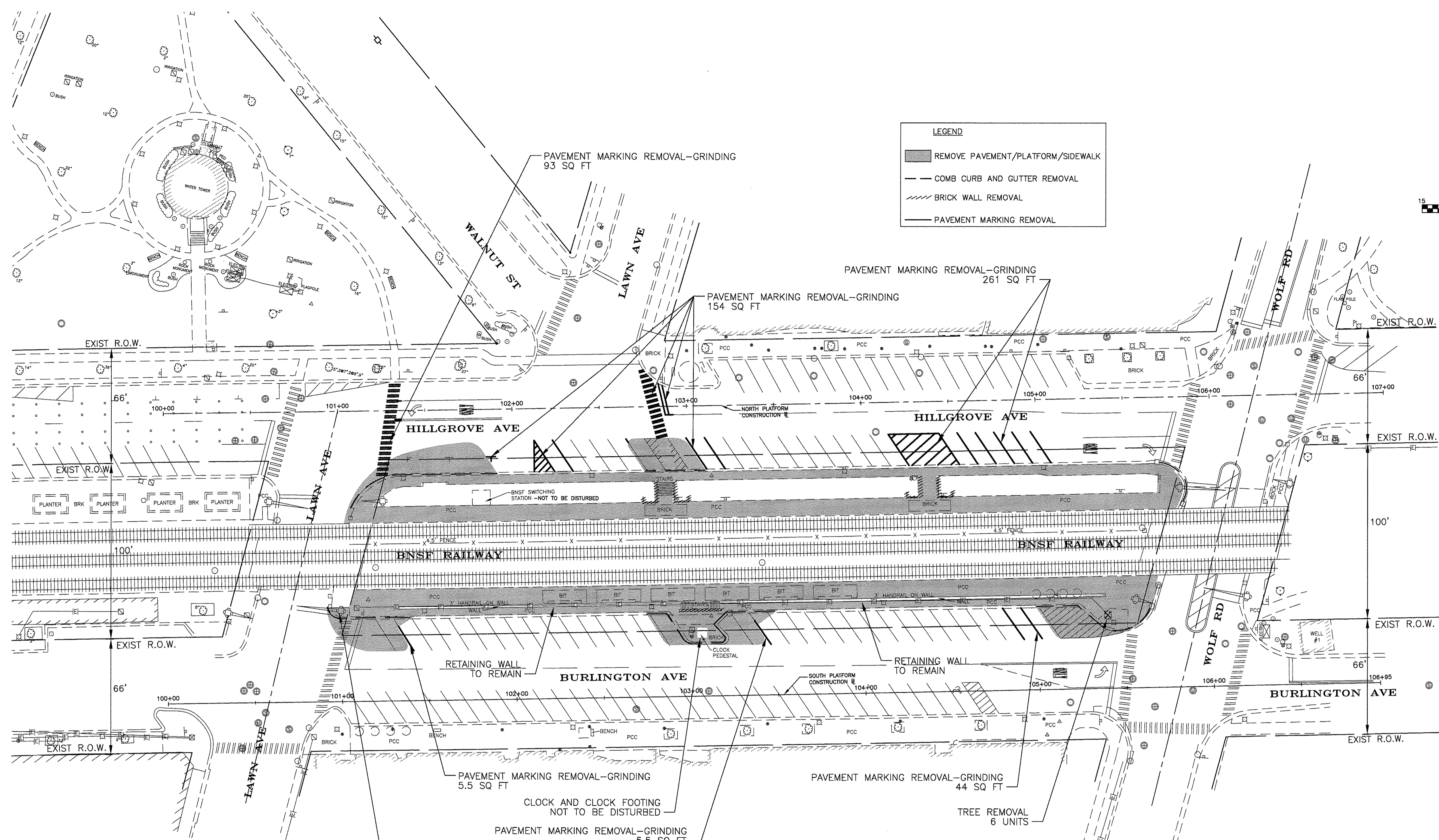
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION TYPICAL SECTIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		3783	09-00091-00-MS	COOK	58	12
SCALE: 1"=10'		SHEET NO. ___ OF ___ SHEETS		STA. TO STA.		CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT						



LEGEND	
	REMOVE PAVEMENT/PLATFORM/SIDEWALK
	COMB CURB AND GUTTER REMOVAL
	BRICK WALL REMOVAL
	PAVEMENT MARKING REMOVAL



**NOTES:**  
 THE CONTRACTOR WILL COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE VILLAGE AND BNSF RAILROAD, INCLUDING BUT NOT LIMITED TO WORK SCHEDULE, PHASING PROTECTIONS, FLAGGING, CAUTIONS, BARRICADES, CROSSING GATES/ALARMS, NOTICES, RIDER ACCESS, TRAFFIC CONTROLS, FIRE HYDRANTS, LIGHTING AND SIGNAGE. RAILROAD MUST REMAIN OPERATIONAL THROUGHOUT THE PROJECT.

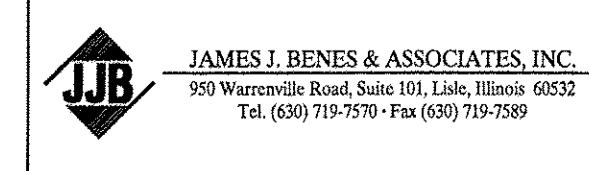
CONTRACTOR WILL PROVIDE PROTECTION FOR BNSF BUNGALOW, RAILROAD UTILITIES AND CROSSING GATES.

MINIMUM THREE WEEKS ADVANCE WARNING FOR METRA RIDERS.

EARTHWORK		
LOCATION	EARTH EXCAVATION (CU YD)	FURNISHED EXCAVATION (CU YD)
<b>PHASE 1</b>		
STA 102+90 TO STA 105+84	1,075.7	1,036.8
<b>PHASE 2</b>		
STA 101+02 TO STA 102+90	573.3	571.9
<b>TOTAL QUANTITY =</b>	<b>1,649</b>	<b>1,609</b>

TREE REMOVAL (6 TO 15 UNITS DIA)	UNIT	6
EARTH EXCAVATION	CU YD	1649
NON-SPECIAL WASTE DISPOSAL	CU YD	825
HANDRAIL REMOVAL	L SUM	1
SIDEWALK REMOVAL	SQ FT	5092
COMBINATION CURB AND GUTTER REMOVAL	FEET	411
PAVEMENT REMOVAL	SQ YD	386
REMOVE RAILROAD PLATFORM	SQ FT	9023
MASONRY REMOVAL	CU YD	20
BRICK SIDEWALK REMOVAL	SQ FT	180
REMOVE EXISTING KIOSK AND SALVAGE	EACH	2

	NUMBER OF PARKING SPACES					
	EXISTING			PROPOSED		
	REGULAR	HANDICAPPED	SUM	REGULAR	HANDICAPPED	SUM
HILLGROVE	26	0	26	22	2	24
BURLINGTON	34	0	34	28	1	29
<b>TOTAL</b>	<b>60</b>	<b>0</b>	<b>60</b>	<b>50</b>	<b>3</b>	<b>53</b>



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
 REMOVAL PLAN

SCALE: 1"=30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	13
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

POINT	STA	OFFSET	ELEV	DESC
A	101+27.2	29.7' RT	662.04	
B	101+37.4	25.1' RT	662.48	
C	101+32.4	34.4' RT	662.20	
D	101+37.0	32.4' RT	662.34	
E	101+21.1	45.0' RT	660.91	
F	101+32.7	44.0' RT	660.74	
G	101+42.5	44.2' RT	660.94	
H	101+18.6	55.0' RT	660.87	
I	101+36.4	54.9' RT	660.21	
J	101+42.3	53.7' RT	660.45	
K	101+84.8	27.6' RT	662.92	E/PAVT
L	101+87.8	32.2' RT	662.79	E/PAVT

POINT	STA	OFFSET	ELEV	DESC
M	101+90.7	36.7' RT	662.66	E/PAVT
N	101+84.2	37.8' RT	662.69	
O	101+74.6	37.7' RT	662.38	
P	101+64.2	42.8' RT	661.86	
Q	101+74.2	42.7' RT	662.31	
R	101+84.2	42.7' RT	662.76	
S	101+94.2	42.7' RT	662.96	
T	101+80.3	30.3' RT	662.86	

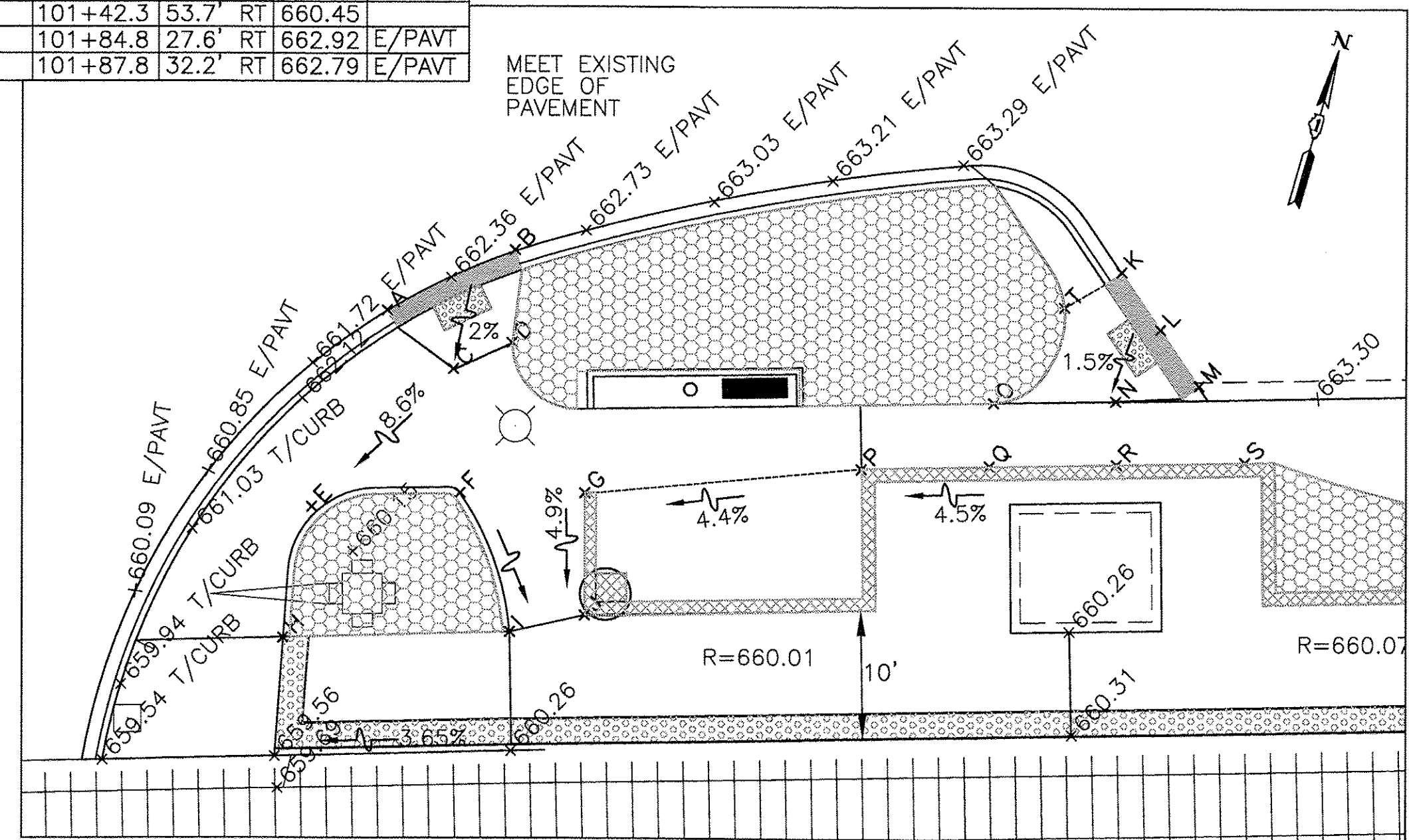
POINT	STA	OFFSET	ELEV
A	102+81.7	18.4' RT	664.56
B	102+90.7	18.4' RT	664.66
C	102+81.7	24.9' RT	664.50
D	102+90.7	24.9' RT	664.50
E	102+81.5	36.2' RT	664.39
F	102+89.2	36.2' RT	664.44
G	102+96.7	36.2' RT	664.39
H	102+81.9	43.7' RT	664.51
I	102+90.2	43.7' RT	664.53
J	102+95.2	43.7' RT	664.51

**LEGEND**

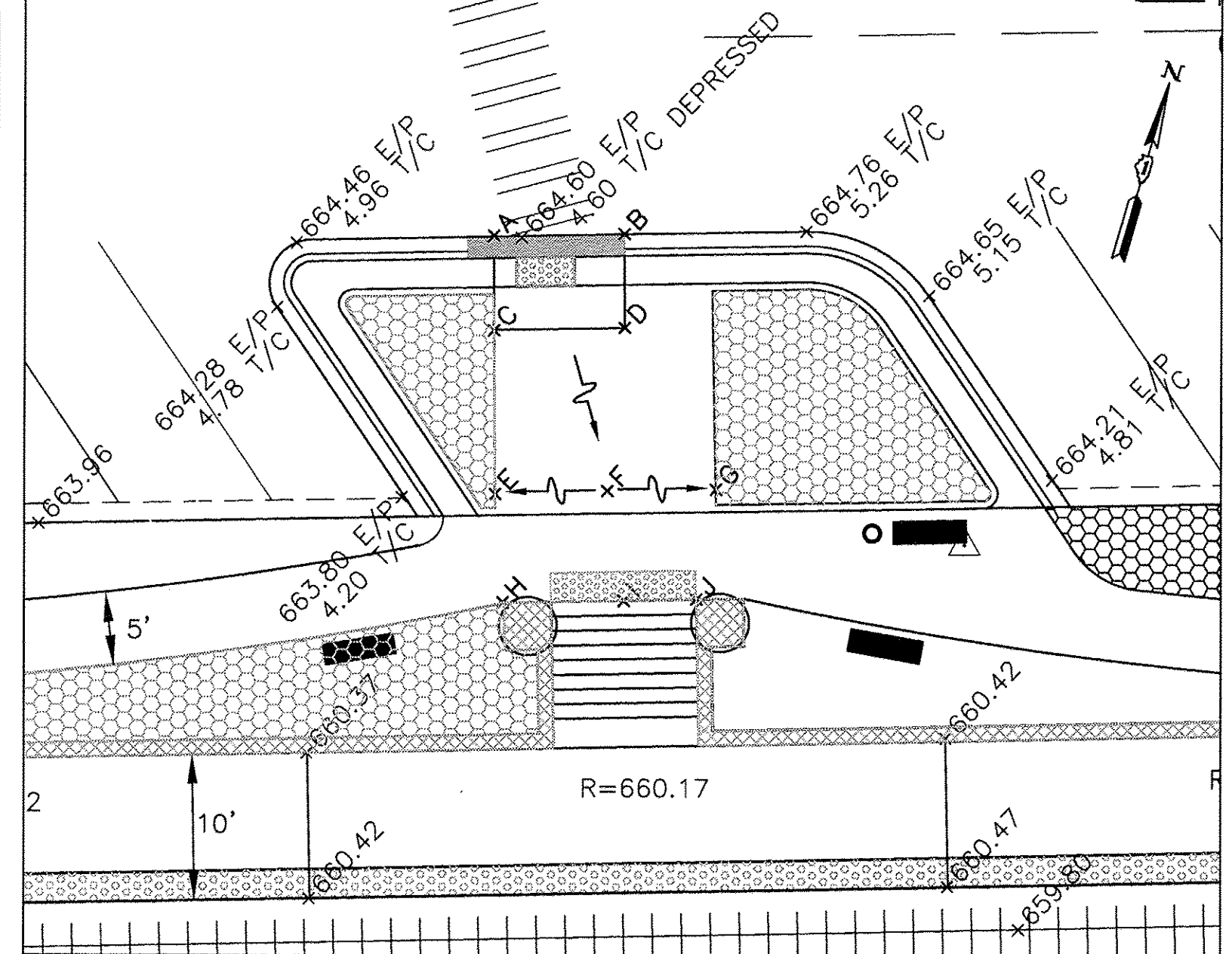
- BENCH
- WATER FEATURE/SIGN
- PLANTER PIER
- WALL
- LANDSCAPED AREA
- TACTILE STRIP
- DEPRESSED CURB

TOP OF CURB			
POINT	STA	OFFSET	ELEV
H	105+41.3	42.3' RT	663.45
I	105+53.0	40.3' RT	663.15
J	105+58.1	40.0' RT	663.15
K	105+71.6	40.0' RT	662.55
L	105+40.9	48.0' RT	662.75
M	105+52.8	45.6' RT	663.00
N	105+46.4	53.5' RT	662.66
O	105+46.4	52.5' RT	662.72

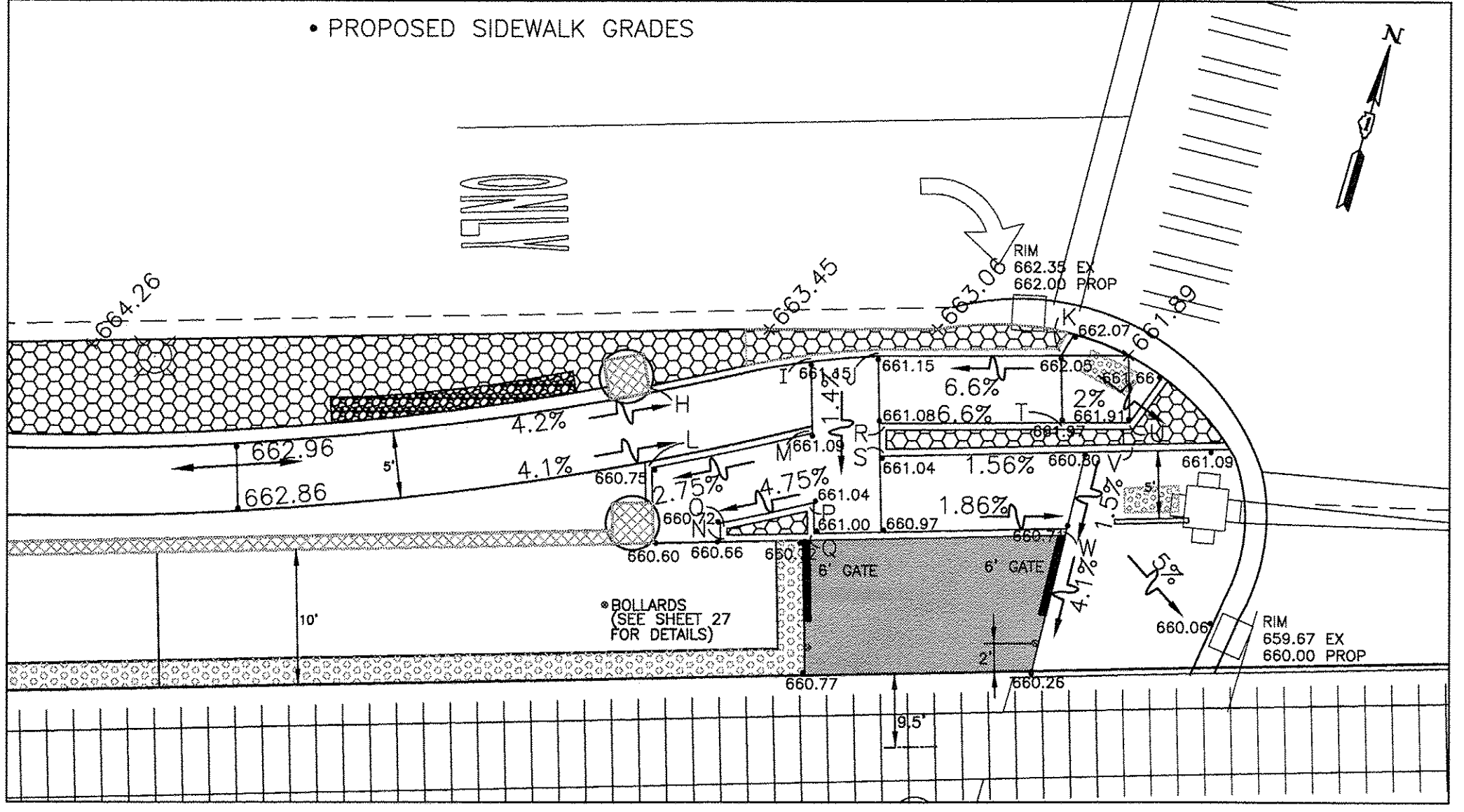
POINT	STA	OFFSET	ELEV
P	105+52.8	51.3' RT	663.00
Q	105+52.9	53.3' RT	663.00
R	105+58.4	45.4' RT	663.00
S	105+58.3	47.3' RT	663.00
T	105+71.6	45.6' RT	663.00
U	105+76.8	47.7' RT	663.00
V	105+76.8	45.3' RT	662.66
W	105+71.7	53.4' RT	662.71



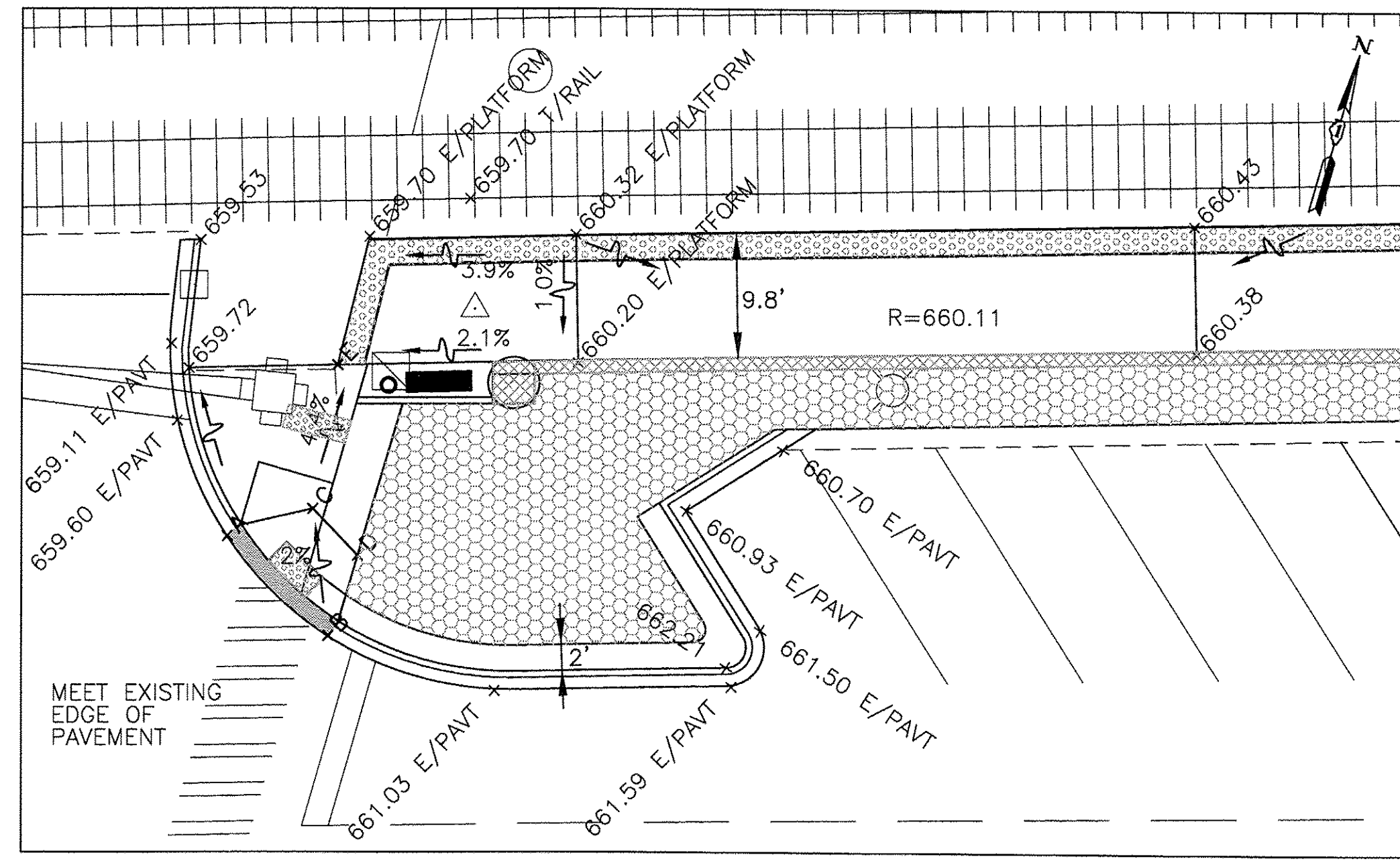
1 - LAWN AVENUE AT HILLGROVE AVENUE



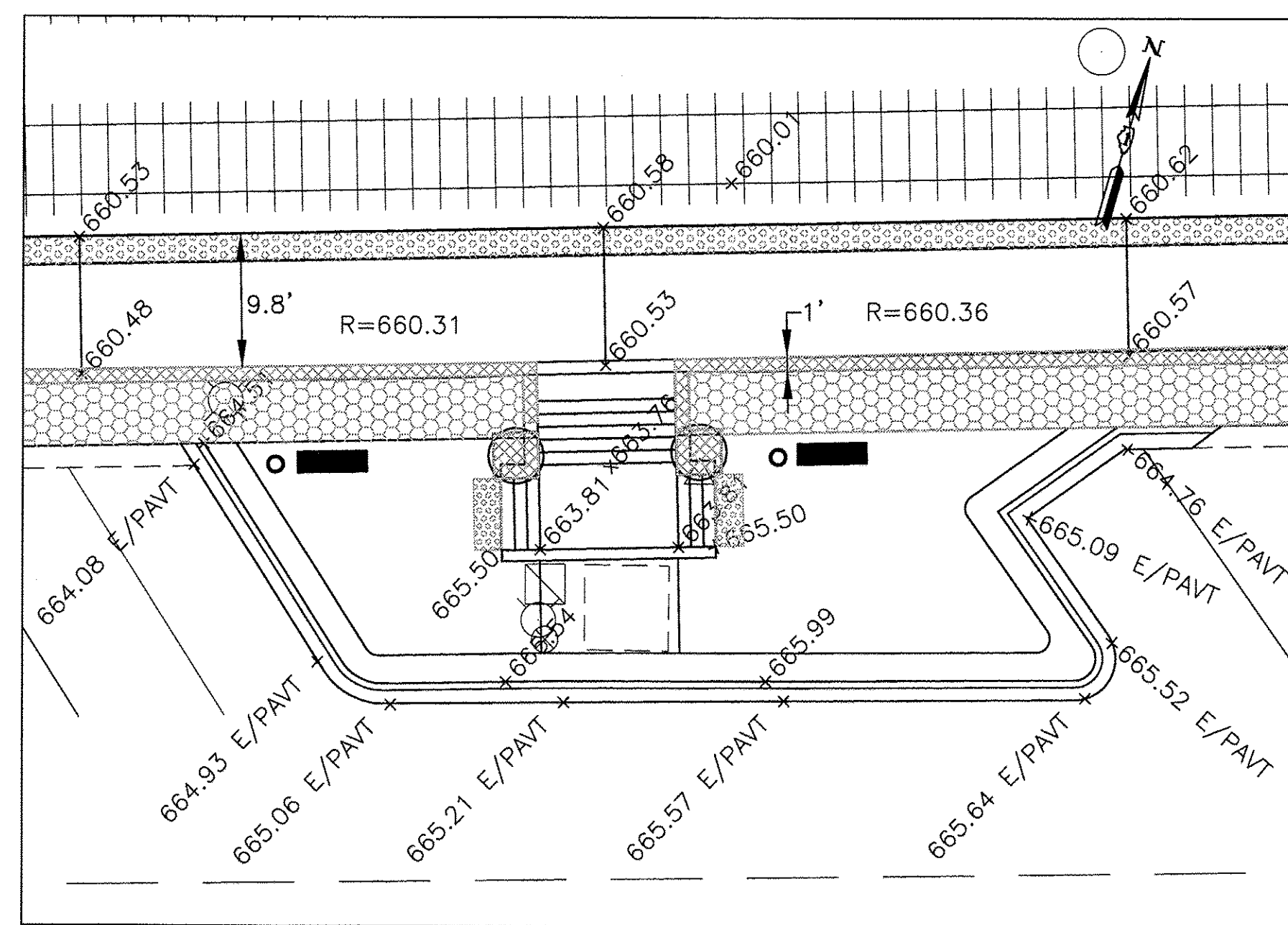
2 - HILLGROVE AVENUE AT STA. 102+88



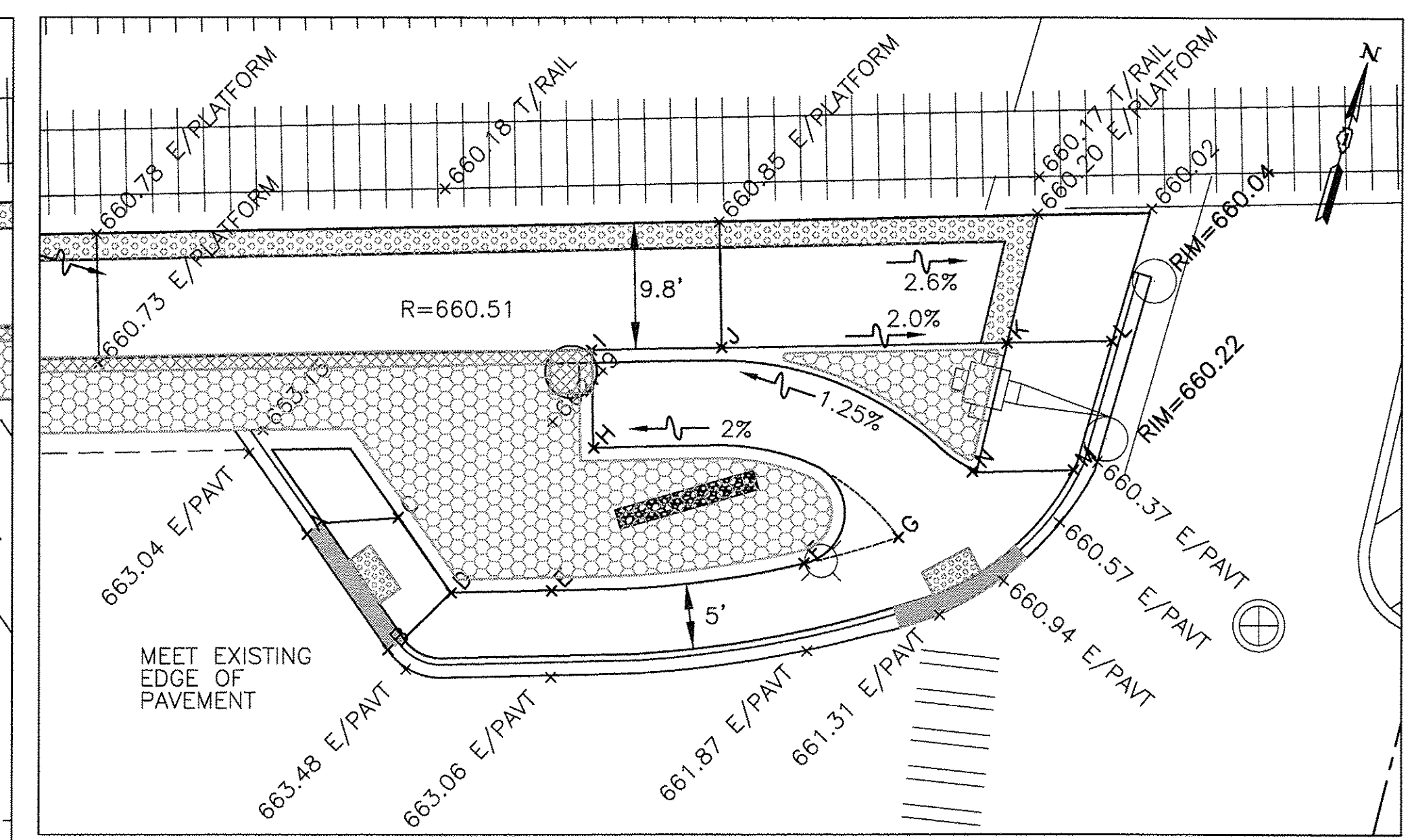
3 - WOLF ROAD AT HILLGROVE AVENUE



4 - LAWN AVENUE AT BURLINGTON AVENUE

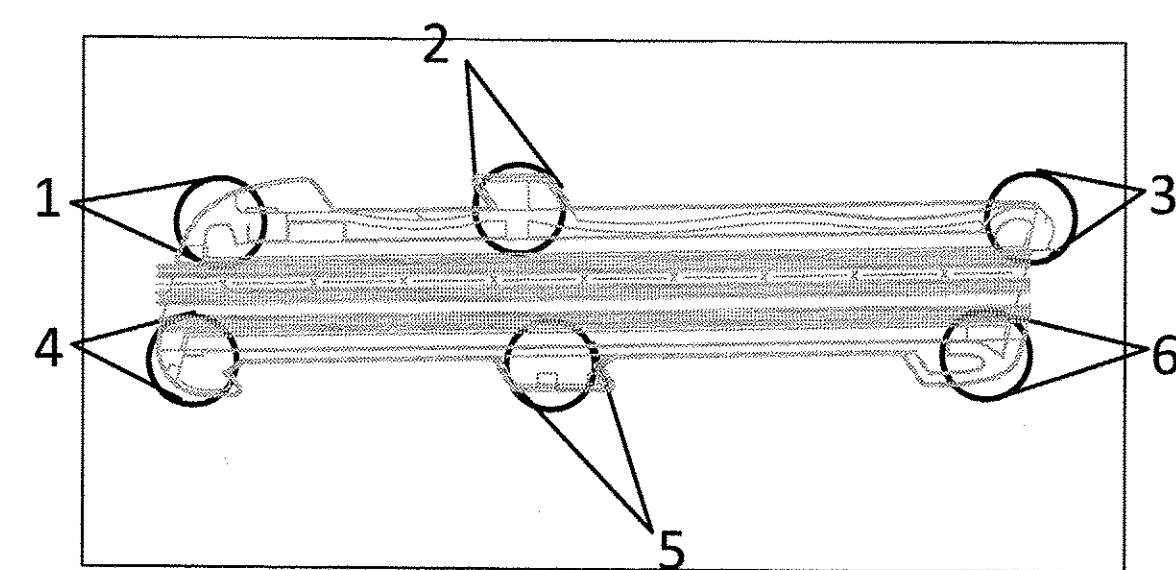


5 - BURLINGTON AVENUE AT STA. 103+06



6 - WOLF ROAD AT BURLINGTON AVENUE

POINT	STA	OFFSET	ELEV	DESCRIPTION
A	100+96.1	41.0' LT	660.11	E/PAVT
B	101+03.8	33.2' LT	660.53	E/PAVT
C	101+02.8	42.9' LT	660.33	UPPER LANDING
D	101+06.2	39.3' LT	660.41	UPPER LANDING
E	101+05.0	54.1' LT	659.80	



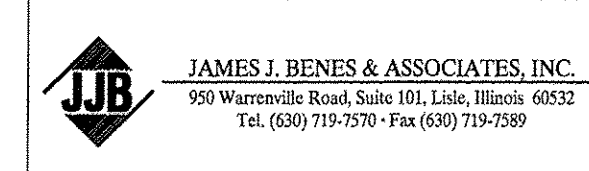
KEY PLAN

BENCH MARK:  
FIRE HYDRANT AT THE NORTHEAST CORNER  
OF WOLF ROAD AND BURLINGTON AVENUE.  
CAST ARROW LOCATED ON TOP FLANGE  
OF HYDRANT. ELEV = 662.69

FOR STATIONING SEE SHEET 15  
FOR BRICK INLET DETAILS SEE SHEET 57

POINT	STA	OFFSET	ELEV	DESCRIPTION
A	105+03.3	40.4' LT	663.33	E/PAVT
B	105+09.3	31.4' LT	663.43	E/PAVT
C	105+10.3	41.5' LT	663.20	
D	105+14.3	35.7' LT	663.30	
E	105+22.0	35.7' LT	662.86	
F	105+41.5	37.4' LT	661.67	
G	105+48.8	39.2' LT	661.20	
H	105+25.4	46.6' LT	660.83	

POINT	STA	OFFSET	ELEV
I	105+25.5	54.1' LT	660.68
J	105+35.5	54.1' LT	660.80
K	105+57.5	54.0' LT	660.19
L	105+65.6	54.0' LT	660.18
M	105+62.4	44.1' LT	-
N	105+54.6	44.1' LT	661.05



USER NAME =	DESIGNED - DHS	REVISED - 30% 1-06-2016
PLOT SCALE =	DRAWN - BCD	REVISED - 60% 2-02-2016
PLOT DATE =	CHECKED - JCZ	REVISED - 90% 3-04-2016
	DATE - 11-18-2016	REVISED - 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
GRADING PLAN

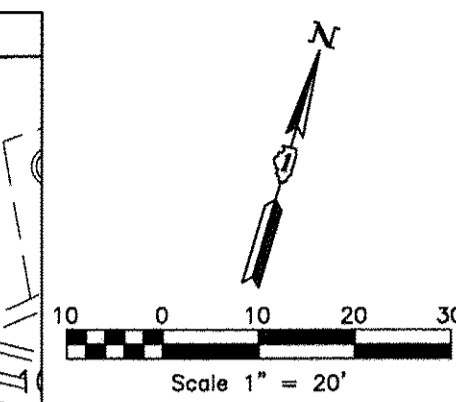
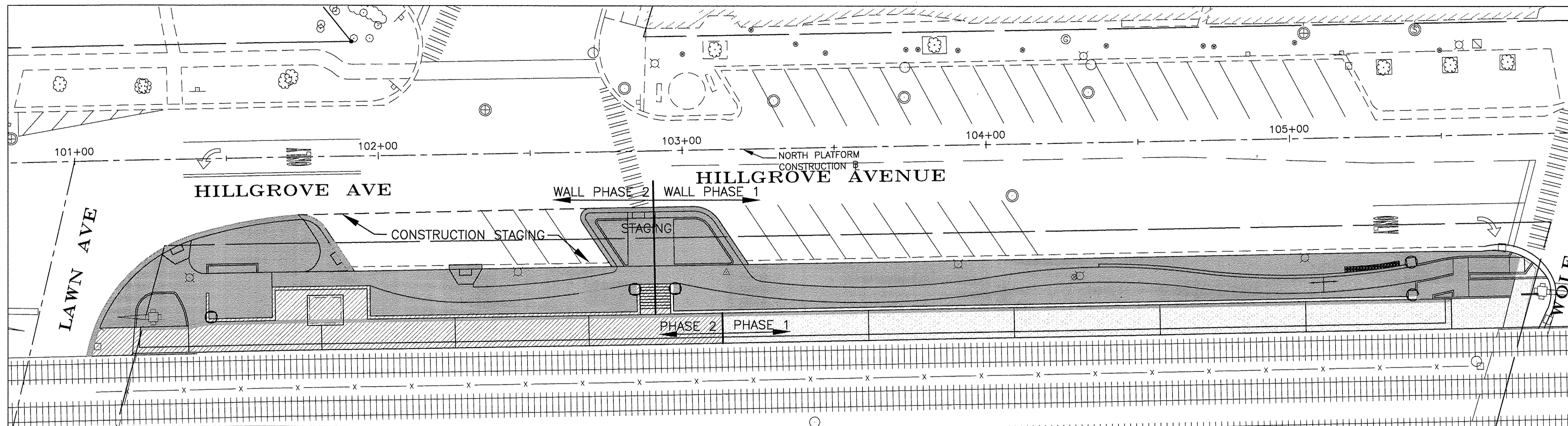
SCALE: 1"=10'

SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	14

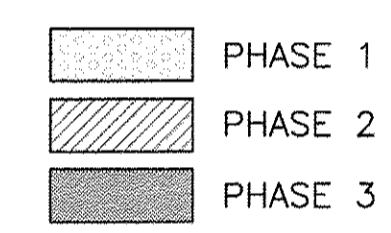
CONTRACT NO. 61D18  
ILLINOIS FED. AID PROJECT





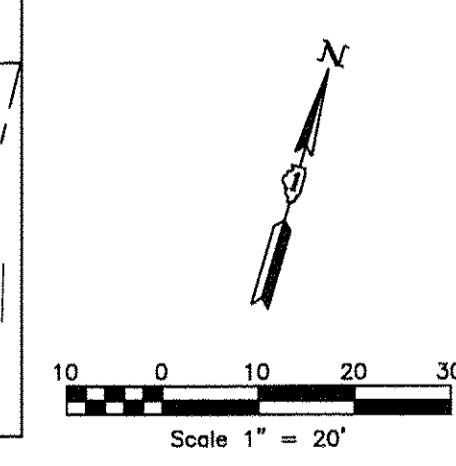
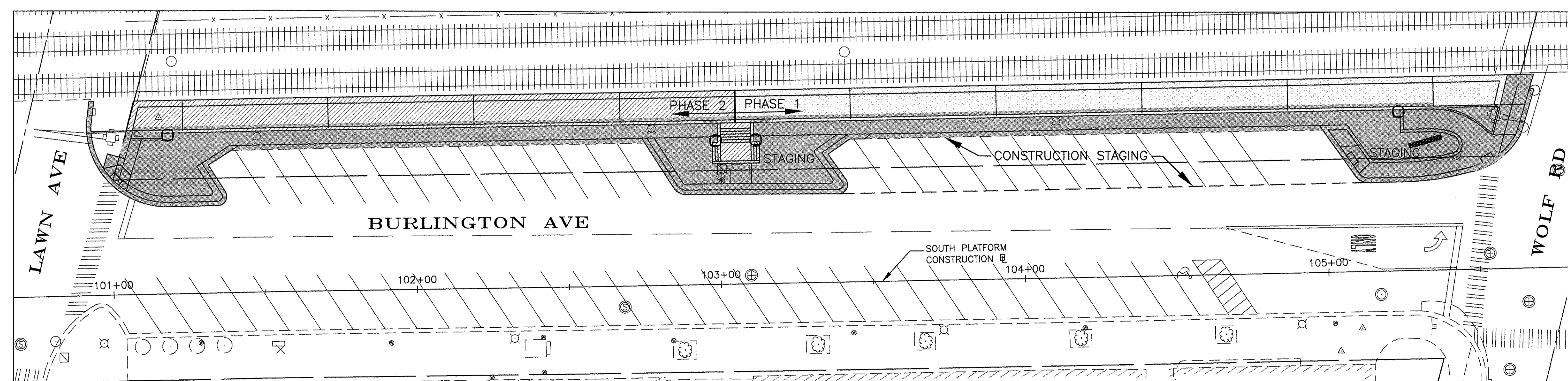
- NOTE:
1. WORK HOURS FOR TRACK WORK SHALL BE DONE BETWEEN 9:00 AM AND 3:00 PM
  2. PROVIDE CONSTRUCTION STAGING AREA AS SHOWN ON DRAWINGS TO REMAIN THROUGHOUT ALL PHASES AND REMOVE ONCE CONSTRUCTION IS COMPLETE

- PHASE 1
1. INSTALL NORTH RETAINING WALL FROM STATION 102+85 INCLUDING RAILING
  2. REPAIR SOUTH RETAINING WALL FROM STATION 103+11 INCLUDING RAILING
  3. REMOVE SOUTH AND NORTHEAST STAIRS, BLOCK NORTHWEST STAIRS
  4. REPLACE EAST END OF NORTH PLATFORM FROM STATION 103+12 TO STATION 102+90 INCLUDING SEWER PIPE RUNS P-6, P-7, P-8, P-9, P-10, P-11
  5. REPLACE EAST END OF SOUTH PLATFORM FROM STATION 103+06 INCLUDING SEWER PIPE RUNS P-19, P-20, P-21, P-22, P-23
  6. LIGHTING AND ELECTRICAL WORK NEAR WOLF ROAD



- PHASE 2
1. REMOVE NORTHWEST STAIRS
  2. INSTALL REMAINING NORTH RETAINING WALLS INCLUDING RAILING
  3. REPAIR/UPGRADE REMAINING SOUTH RETAINING WALL INCLUDING RAILING
  4. INSTALL REMAINING NORTH AND SOUTH PLATFORMS INCLUDING SEWER PIPE RUNS P-1, P-2, P-3, P-4, P-12, P-13, P-14, P-15, P-16
  5. REPLACE NORTH AND SOUTH STAIRS

- PHASE 3
1. INSTALL NORTH AND SOUTH STAIRS
  2. REMOVE AND REPLACE EXISTING CURB AND GUTTER AND SIDEWALK
  3. ADD WOLF ROAD ACCESS RAMPS
  4. INSTALL LANDSCAPING, LIGHTING, WATER FEATURE, IRRIGATION SYSTEM, SIGNS AND SEWER PIPE RUNS P-5, P-17, P-18, P-24, P-25
  5. PATCH PAVEMENTS
  6. REVISE PAVEMENT MARKINGS



USER NAME =	DESIGNED — DHS	REVISED — 30% 1-06-2016
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	DATE — 11-18-2016	REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
STAGING/SEQUENCE OF OPERATIONS PLAN

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 16
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	



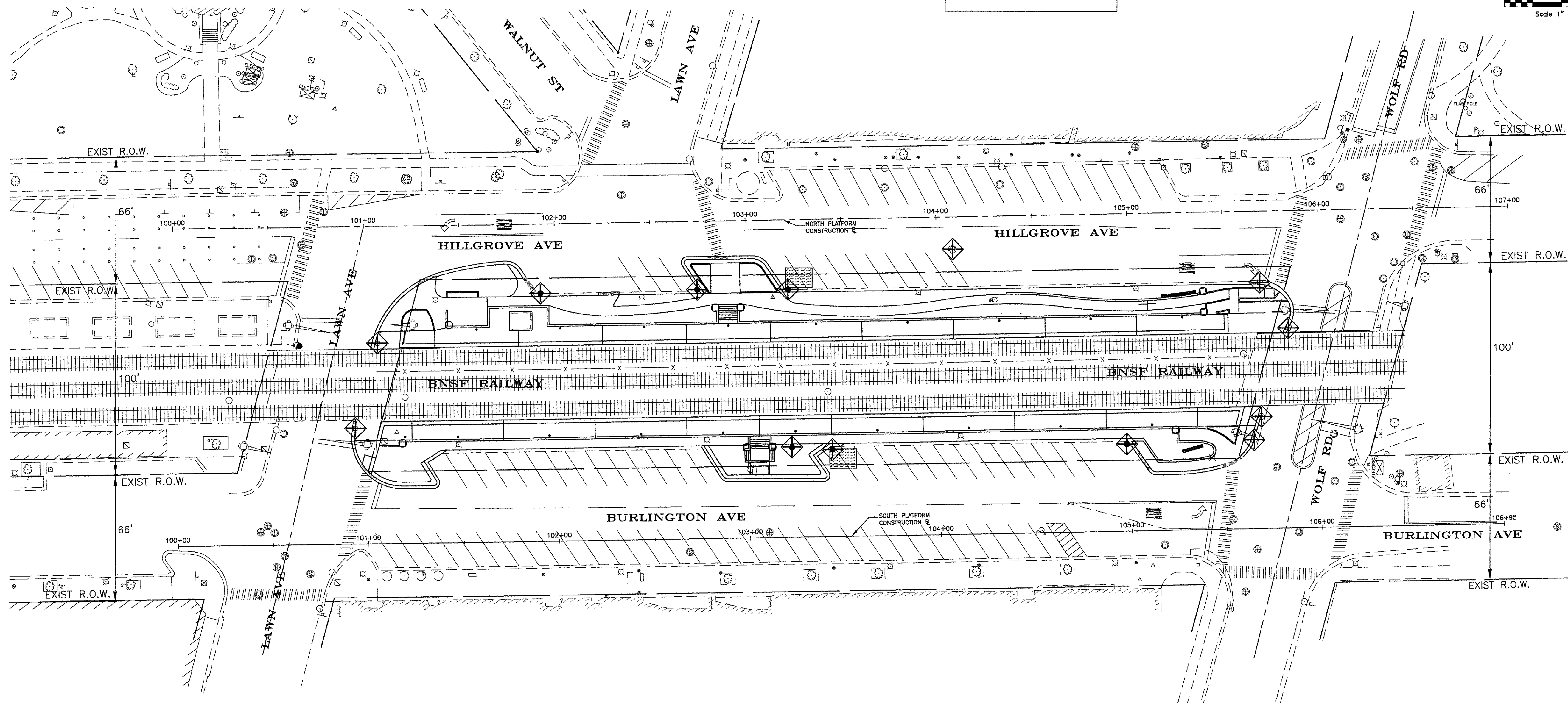
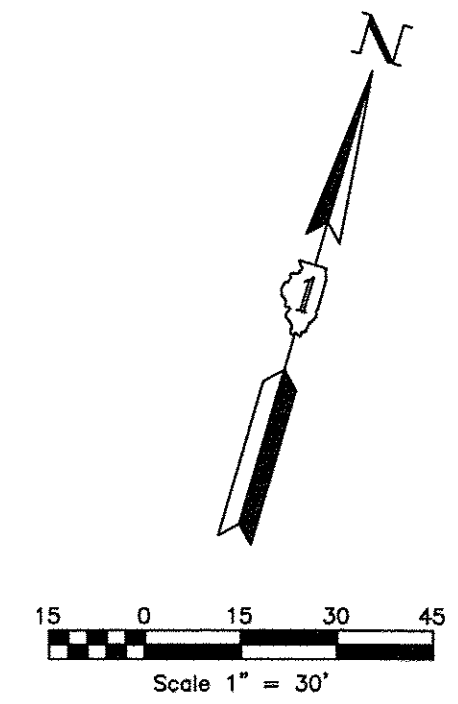
NOTES:

1) TEMPORARY CONCRETE WASHOUT AREA FACILITY SHALL BE AT LOCATIONS SHOWN OR AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONCRETE ITEMS BEING CONSTRUCTED AND WILL NOT BE PAID FOR SEPARATELY.

**LEGEND**

◆ INLET FILTER

▨ TEMPORARY CONCRETE WASHOUT FACILITY



**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lake, Illinois 60332  
 Tel. (630) 719-7570 • Fax (630) 719-7589

USER NAME =	DESIGNED — DHS	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — BCD	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — JCZ	REVISED — 90% 3-04-2016
	DATE — 11-18-2016	REVISED — 95% 4-27-2016

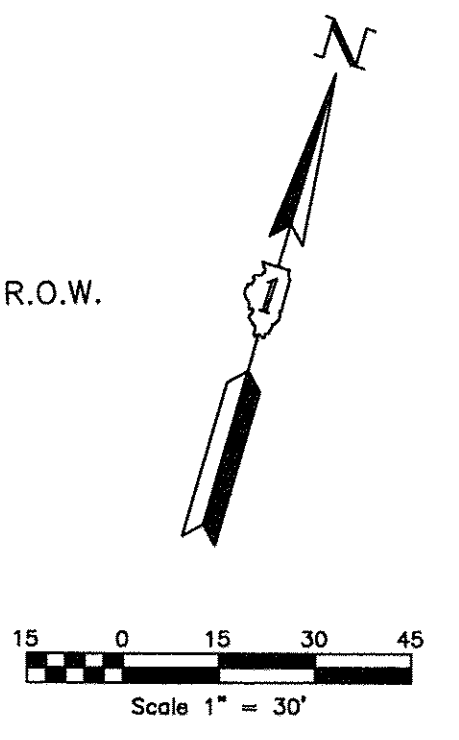
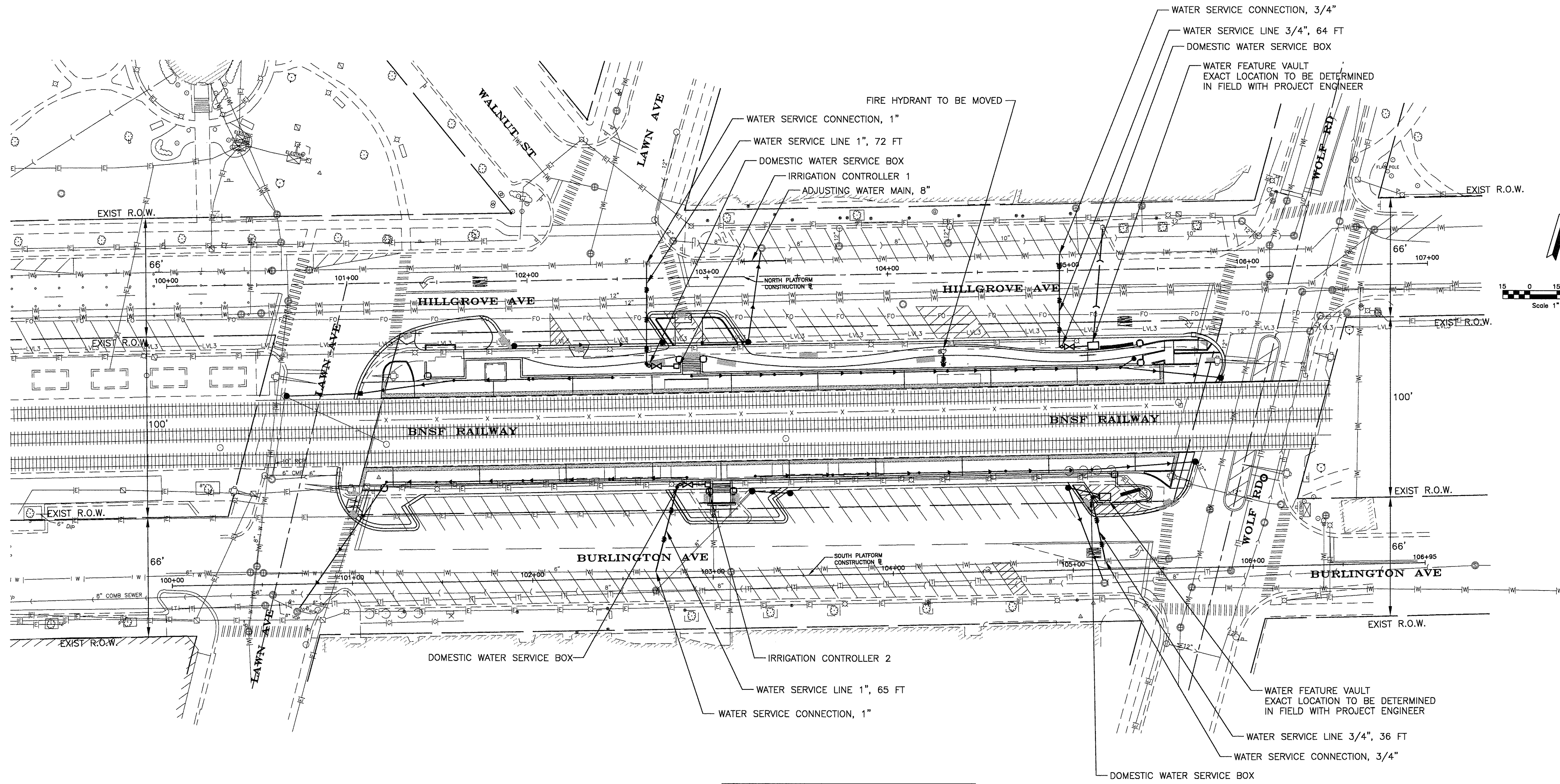
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**EAST PLATFORM RECONSTRUCTION  
 EROSION CONTROL PLAN**

SCALE: 1"=30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	17
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				





LEGEND	
PROPOSED RPZ	
PROPOSED WATER SERVICE LINE	
PROPOSED WATER METER	

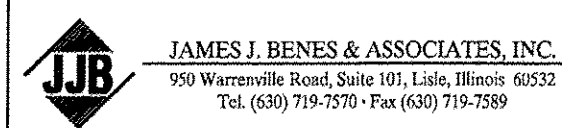
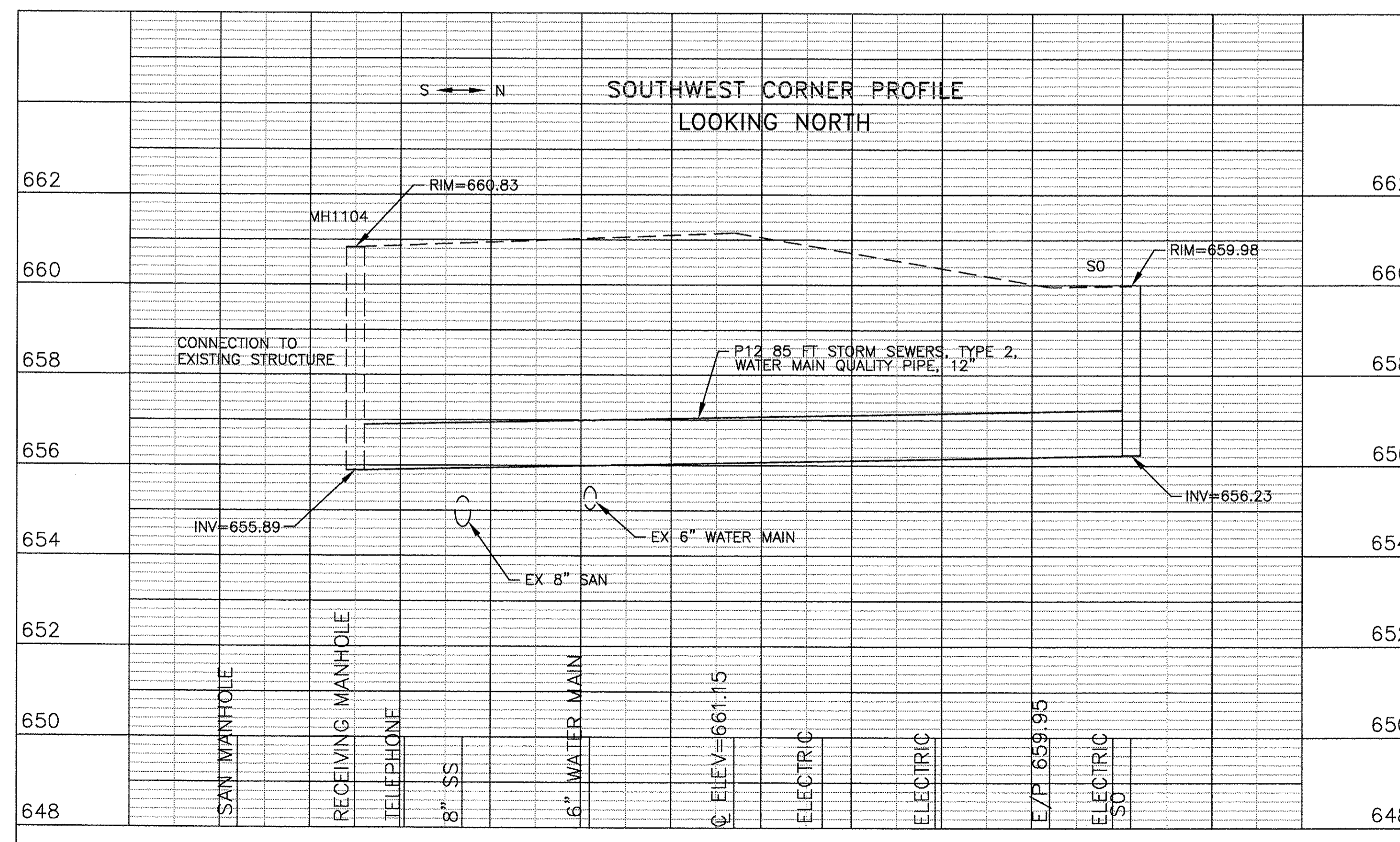
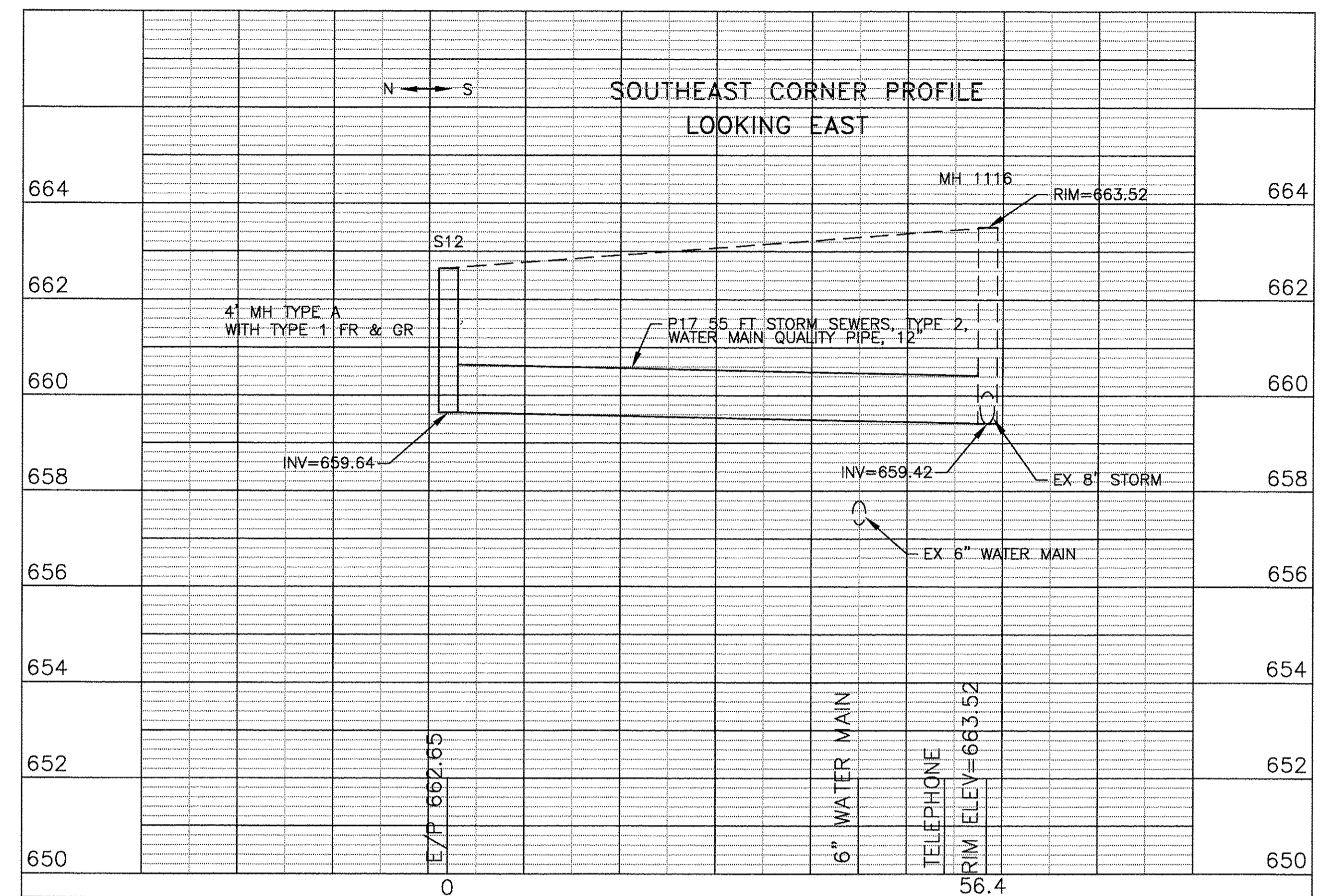
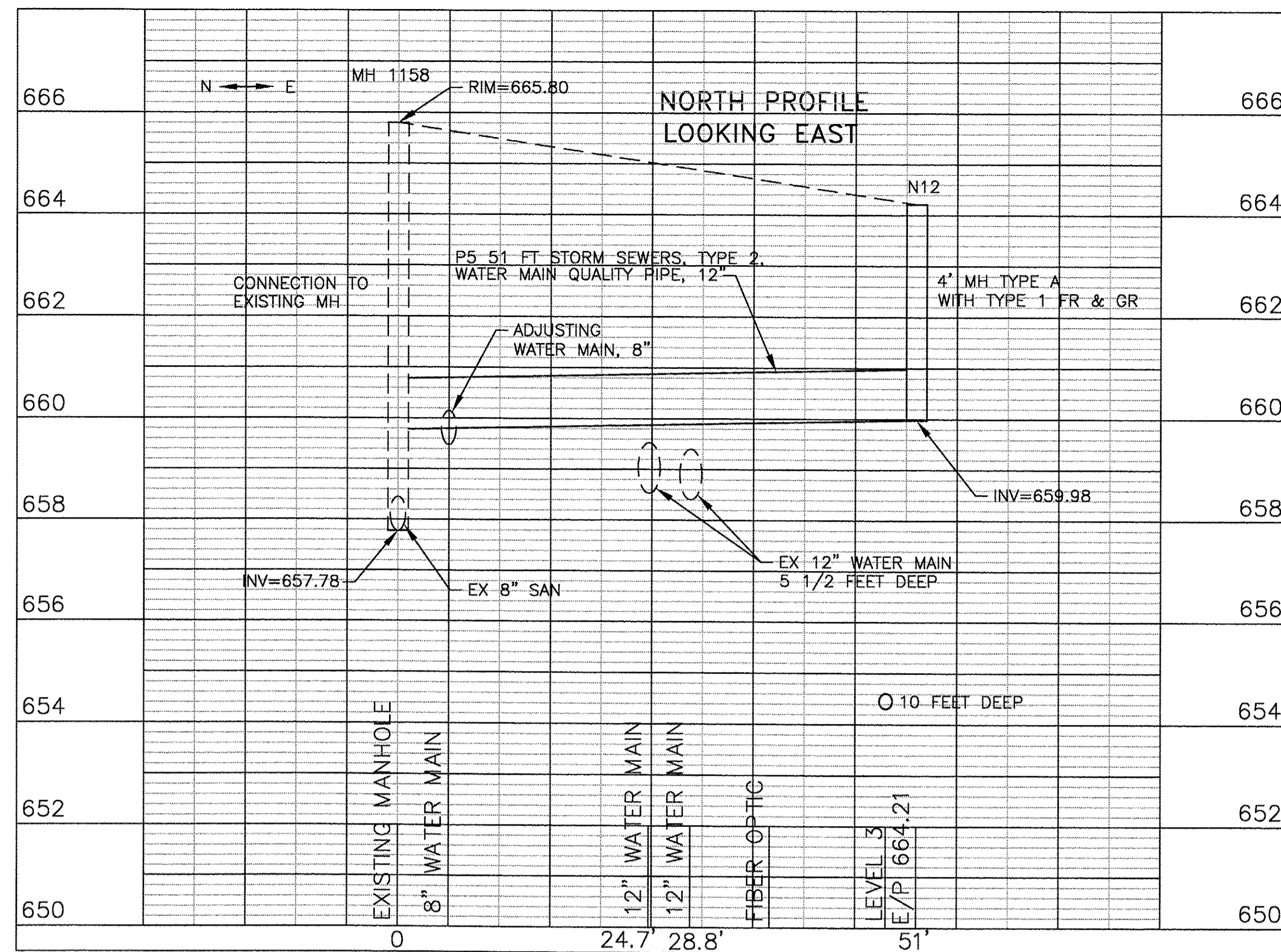
**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

USER NAME =	DESIGNED — DHS	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — BCD	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — JCZ	REVISED — 90% 3-04-2016
	DATE — 6-17-2016	REVISED — 95% 4-27-2016

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

EAST PLATFORM RECONSTRUCTION UTILITY WATER SERVICE PLAN		
SCALE: 1"=30'	SHEET NO. ___ OF ___ SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	19
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED — DHS	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — SMP	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — JCZ	REVISED — 90% 3-04-2016
	DATE — 6-17-2016	REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

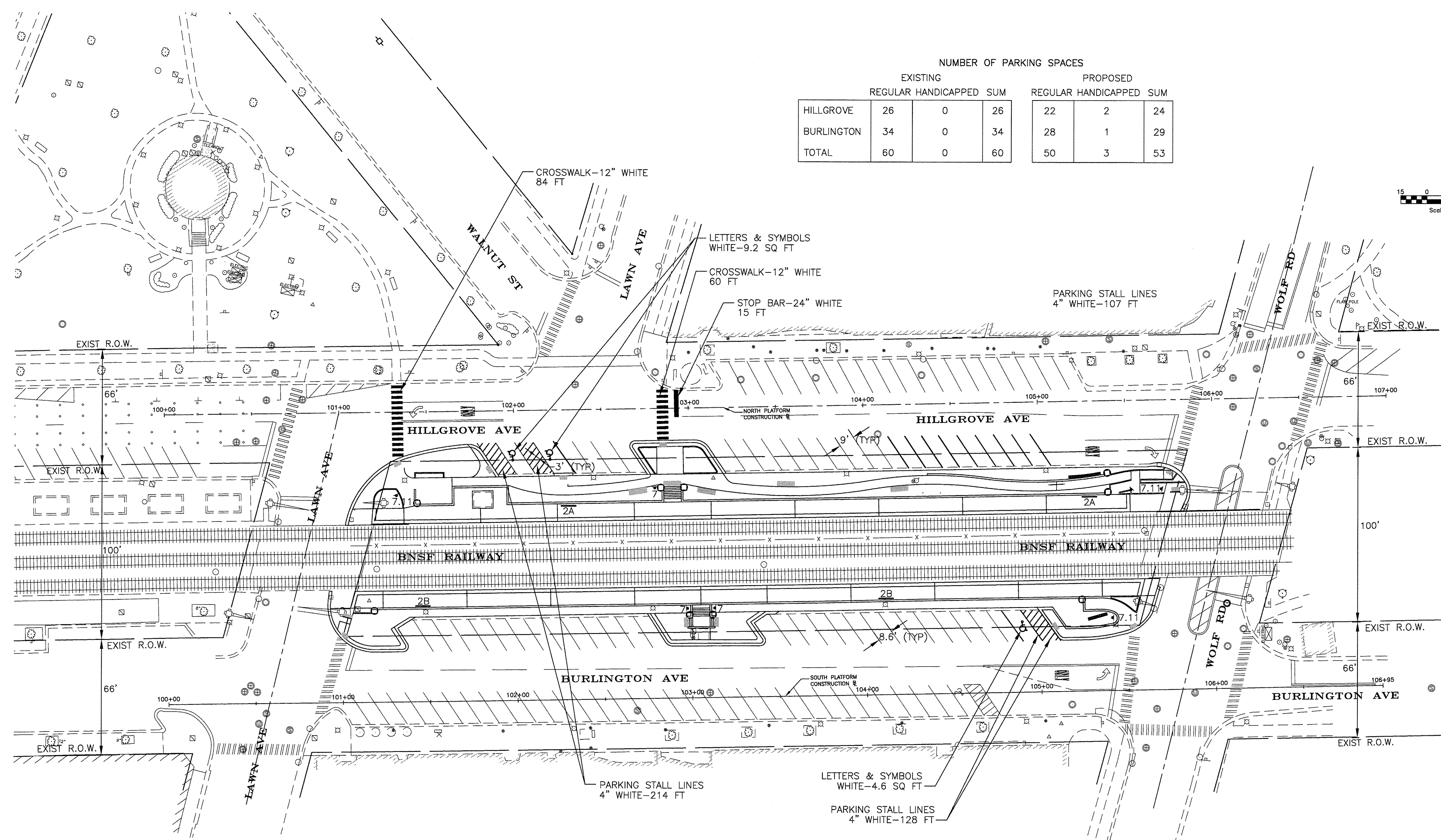
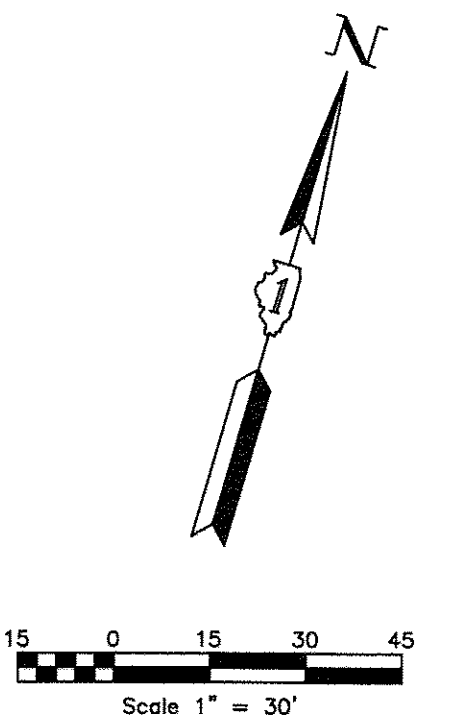
EAST PLATFORM RECONSTRUCTION  
STORM SEWER PROFILES

SCALE: 1" = 10' HOR  
2" = 2' VER

SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	20
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

	EXISTING			PROPOSED		
	REGULAR	HANDICAPPED	SUM	REGULAR	HANDICAPPED	SUM
HILLGROVE	26	0	26	22	2	24
BURLINGTON	34	0	34	28	1	29
TOTAL	60	0	60	50	3	53



SEE SHEET 57 FOR SIGNAGE SCHEDULE AND DETAILS

MARKING TYPE	UNIT	QUANTITY
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	14
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	448
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	144
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	15



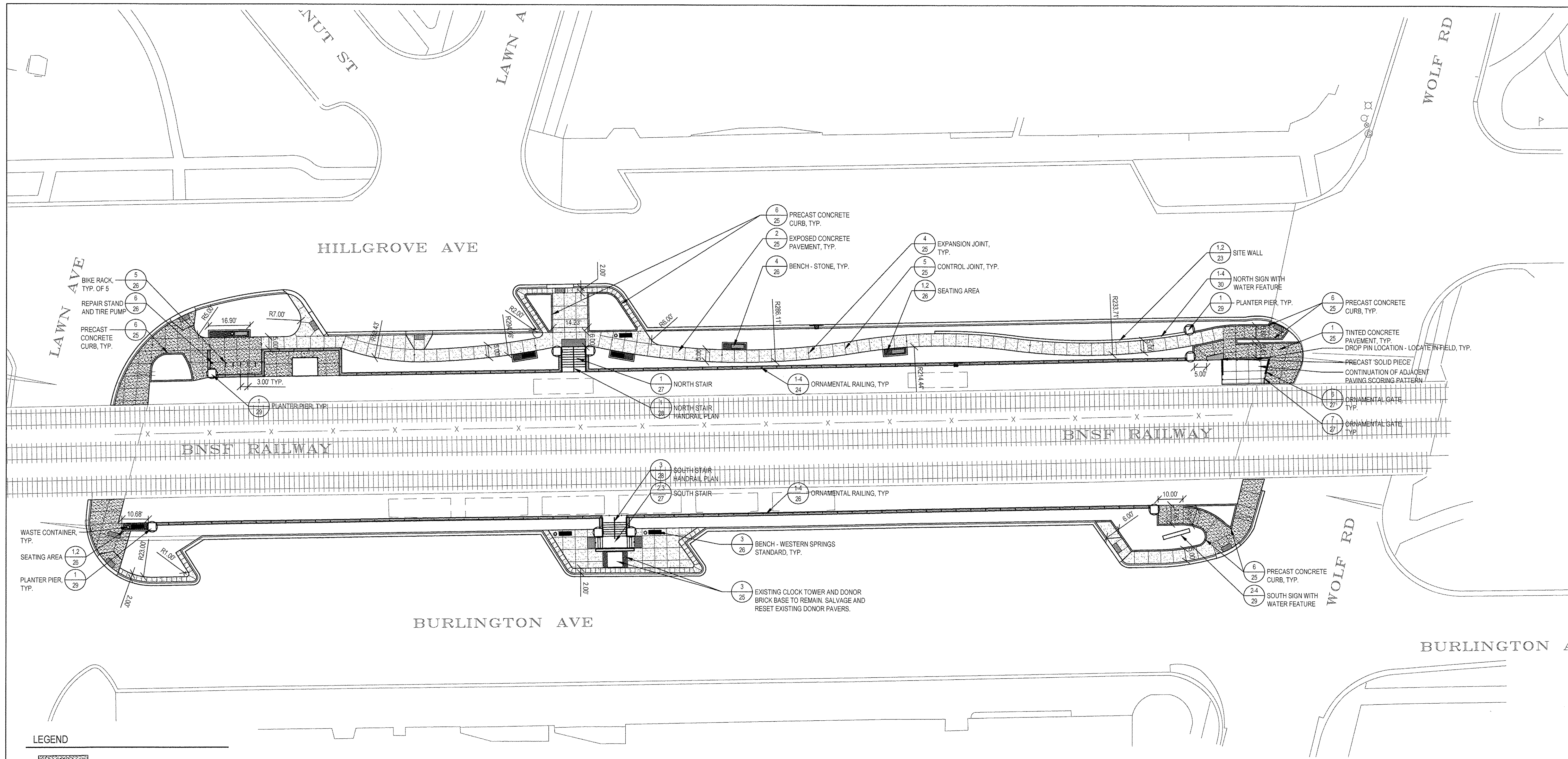
USER NAME =	DESIGNED — DHS	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — BCD	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — JCZ	REVISED — 90% 3-04-2016
	DATE — 11-18-2016	REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
PAVEMENT MARKING AND SIGNAGE PLAN

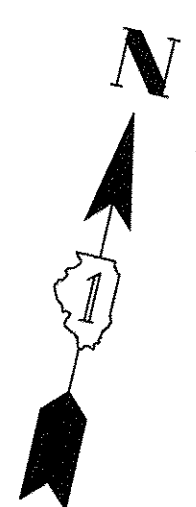
SCALE: 1"=30'    SHEET NO. \_\_\_ OF \_\_\_ SHEETS    STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	21
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				



**LEGEND**

- TINTED CONCRETE SIDEWALK
- EXPOSED AGGREGATE CONCRETE SIDEWALK
- CONCRETE UNIT PAVER ON RIGID BASE
- SALVAGED DONOR PAVERS ON RIGID BASE
- DETECTABLE WARNING TILE
- EXPANSION JOINT
- CONTROL JOINT
- WASTE CONTAINER
- BIKE RACK
- BENCH - STONE
- BENCH - WESTERN SPRINGS STANDARD
- BIKE REPAIR STATION
- PLANTER PIER



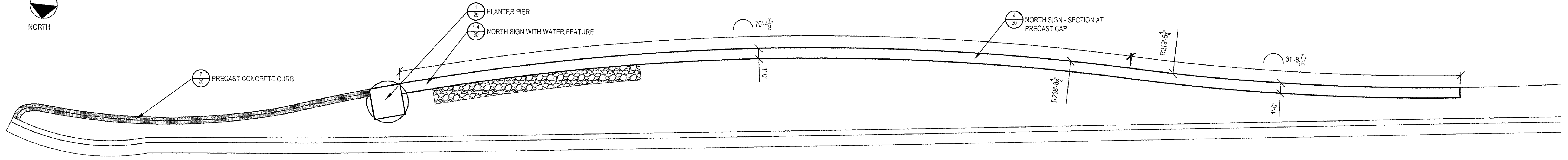
**SMITHGROUP JJR**  
 35 EAST WACKER  
 SUITE 2200  
 CHICAGO, IL 60601  
 312.641.0770  
 www.smithgroupj jr.com

USER NAME =	DESIGNED —	REVISED —	10-20-2016
PLOT SCALE =	DRAWN —	REVISED —	11-18-2016
PLOT DATE =	CHECKED —	REVISED —	
	DATE —	REVISED —	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

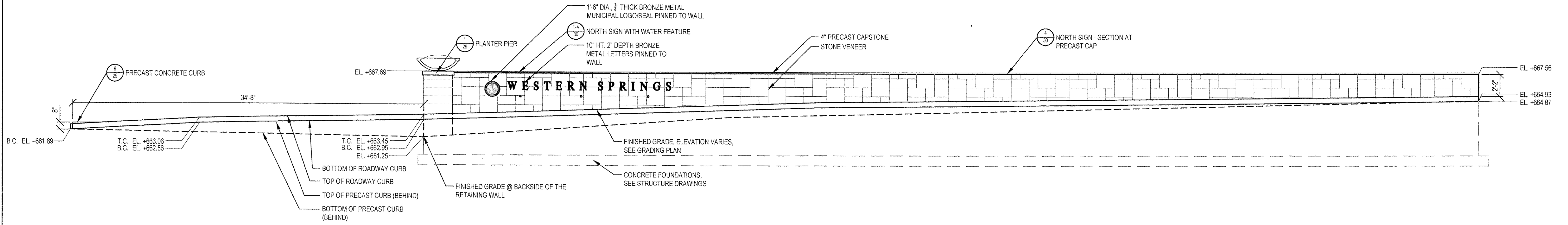
**EAST PLATFORM RECONSTRUCTION  
 LAYOUT AND MATERIALS PLAN**  
 SCALE: 1"=20' SHEET NO. 22 OF 58 SHEETS STA. TO STA.

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	



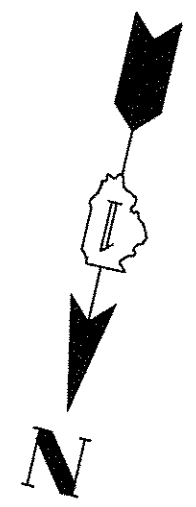
1 SITE WALL PLAN ENLARGEMENT

SCALE: 1"=5'-0"



2 SITE WALL NORTH ELEVATION

SCALE: 1"=5'-0"



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35 EAST WACKER  
SUITE 2200  
CHICAGO, IL 60601  
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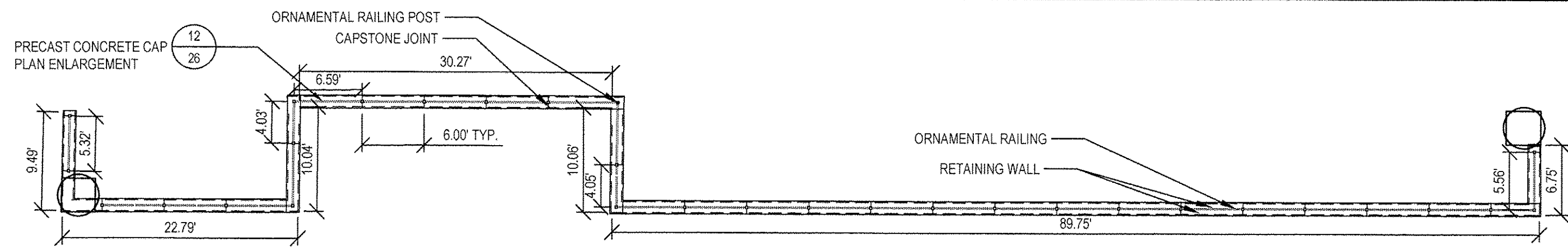
USER NAME =	DESIGNED —	REVISIONS
PLOT SCALE =	DRAWN —	30% 1-06-2016
PLOT DATE =	CHECKED —	60% 2-02-2016
	DATE —	90% 3-04-2016
		REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

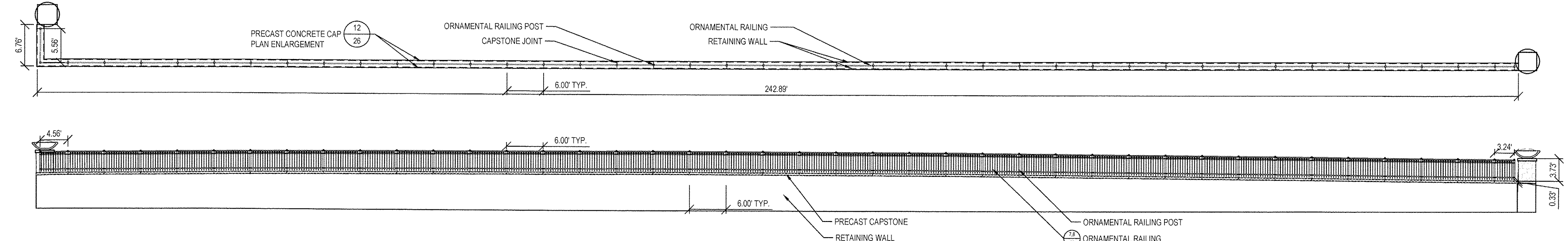
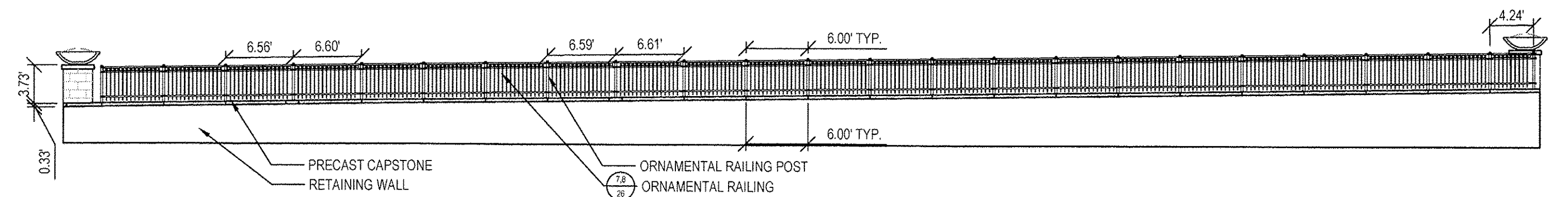
EAST PLATFORM RECONSTRUCTION  
SITE WALL ENLARGEMENT PLAN

SCALE: AS NOTED SHEET NO. 23 OF 58 SHEETS STA. TO STA.

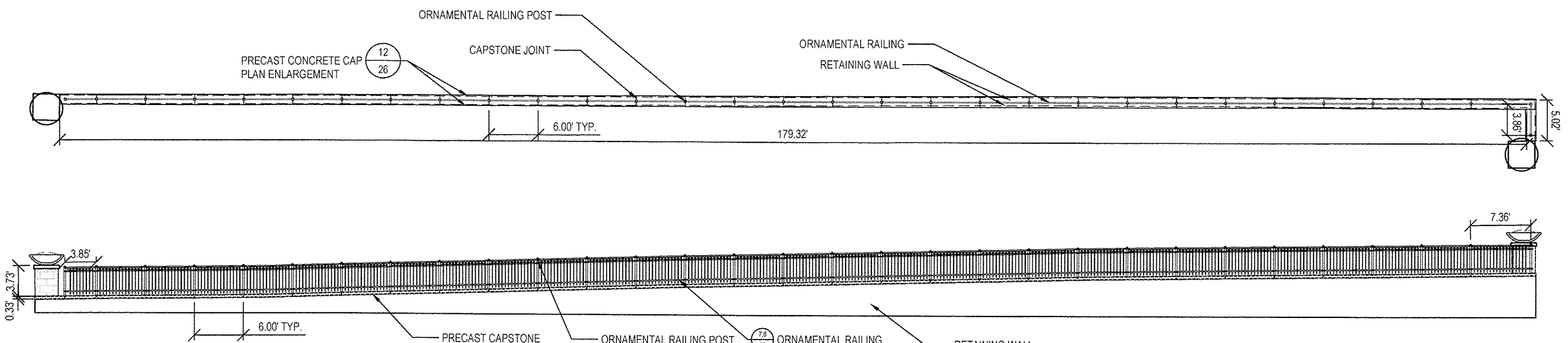
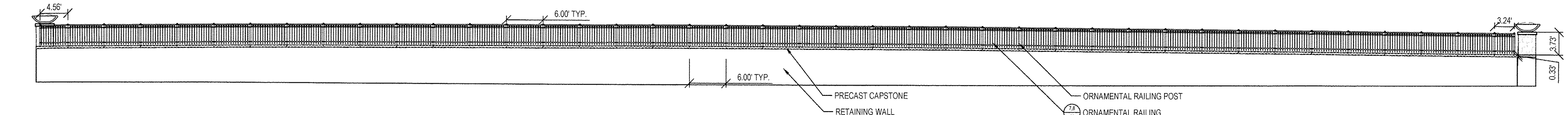
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	23
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				



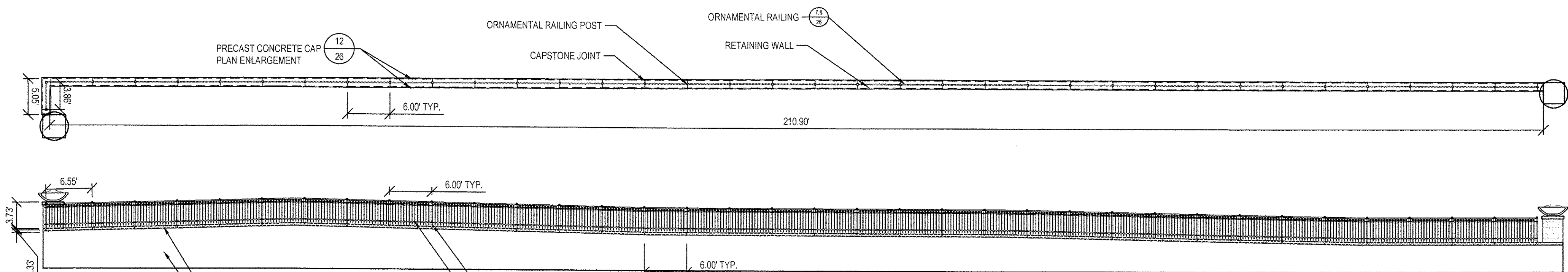
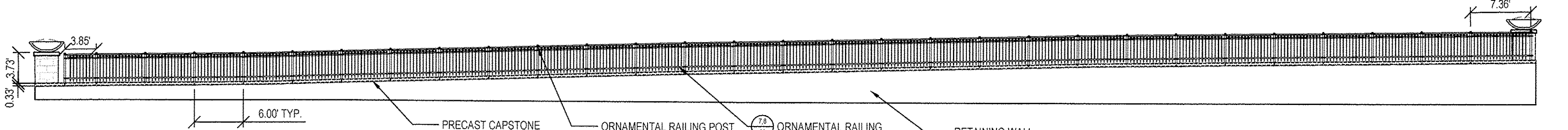
1 NORTH RETAINING WALL AND ORNAMENTAL RAILING - WEST OF STAIR  
SCALE: 1"=10'-0"



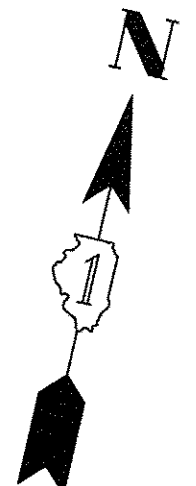
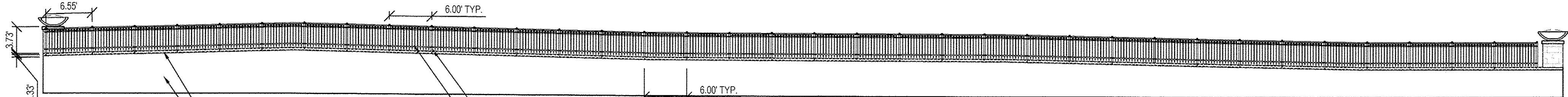
2 NORTH RETAINING WALL AND ORNAMENTAL RAILING - EAST OF STAIR  
SCALE: 1"=10'-0"



3 SOUTH RETAINING WALL AND ORNAMENTAL RAILING - WEST OF STAIR  
SCALE: 1"=10'-0"



4 SOUTH RETAINING WALL AND ORNAMENTAL RAILING - EAST OF STAIR  
SCALE: 1"=10'-0"



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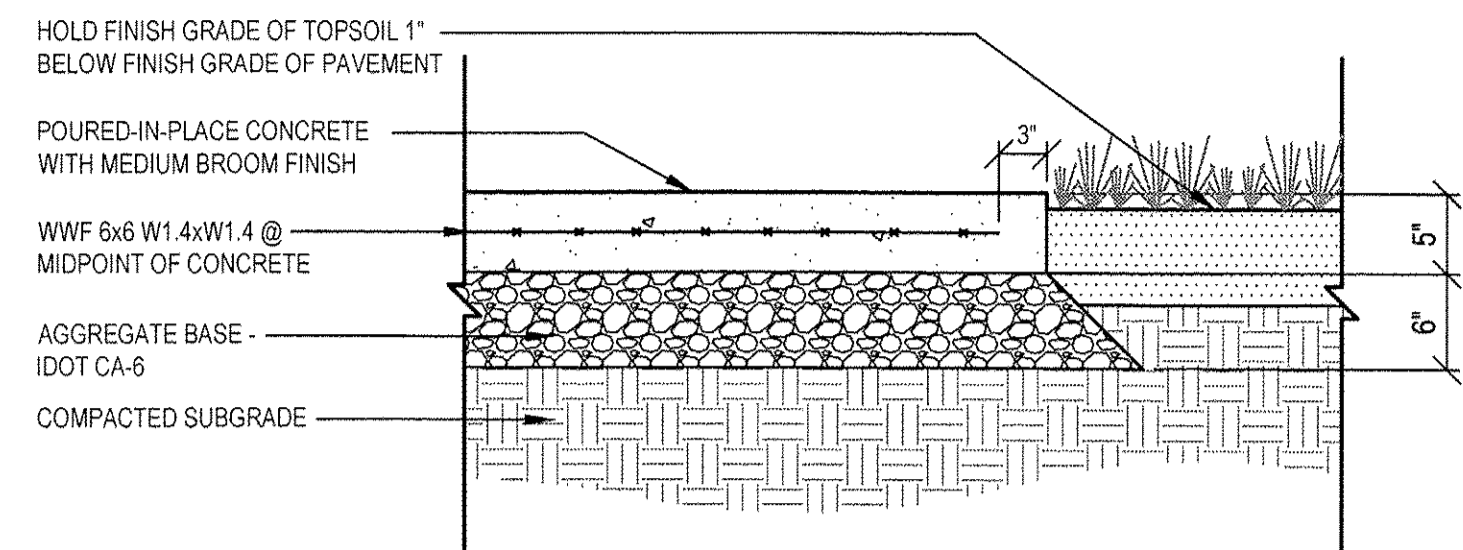
USER NAME =	DESIGNED =	REVISED = 30% 1-06-2016
PLOT SCALE =	DRAWN =	REVISED = 60% 2-02-2016
PLOT DATE =	CHECKED =	REVISED = 90% 3-04-2016
	DATE =	REVISED = 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

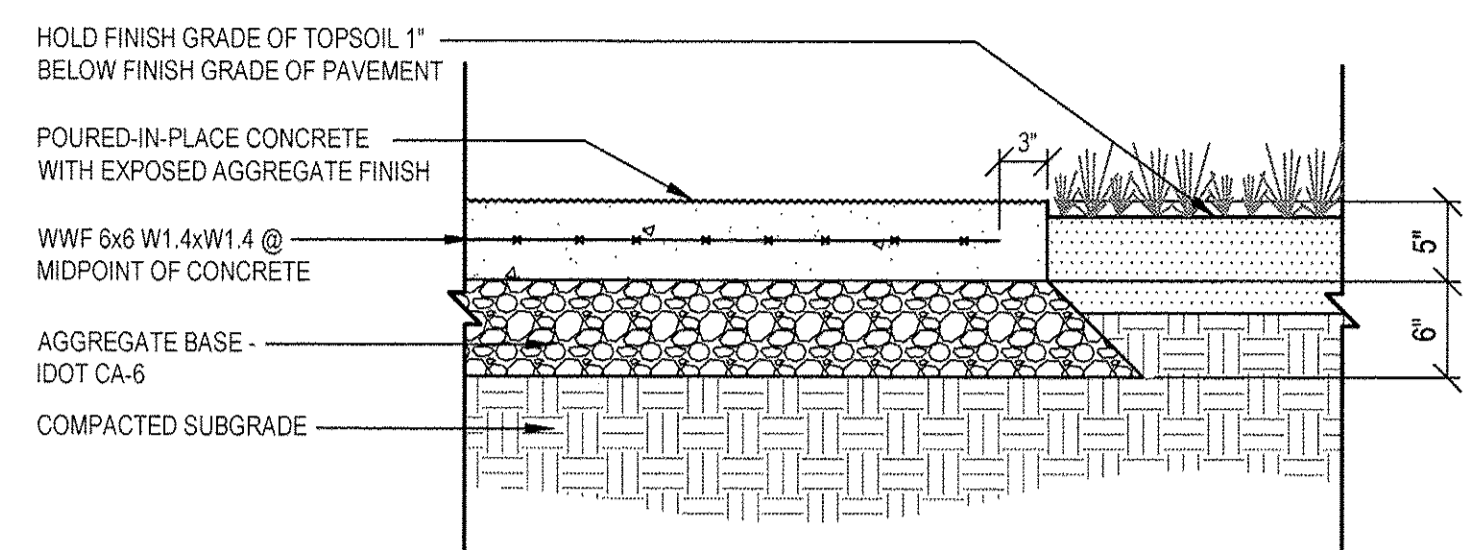
EAST PLATFORM RECONSTRUCTION  
ORNAMENTAL RAILING PLAN AND ELEVATION  
SCALE: AS NOTED SHEET NO. 24 OF 58 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	24
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

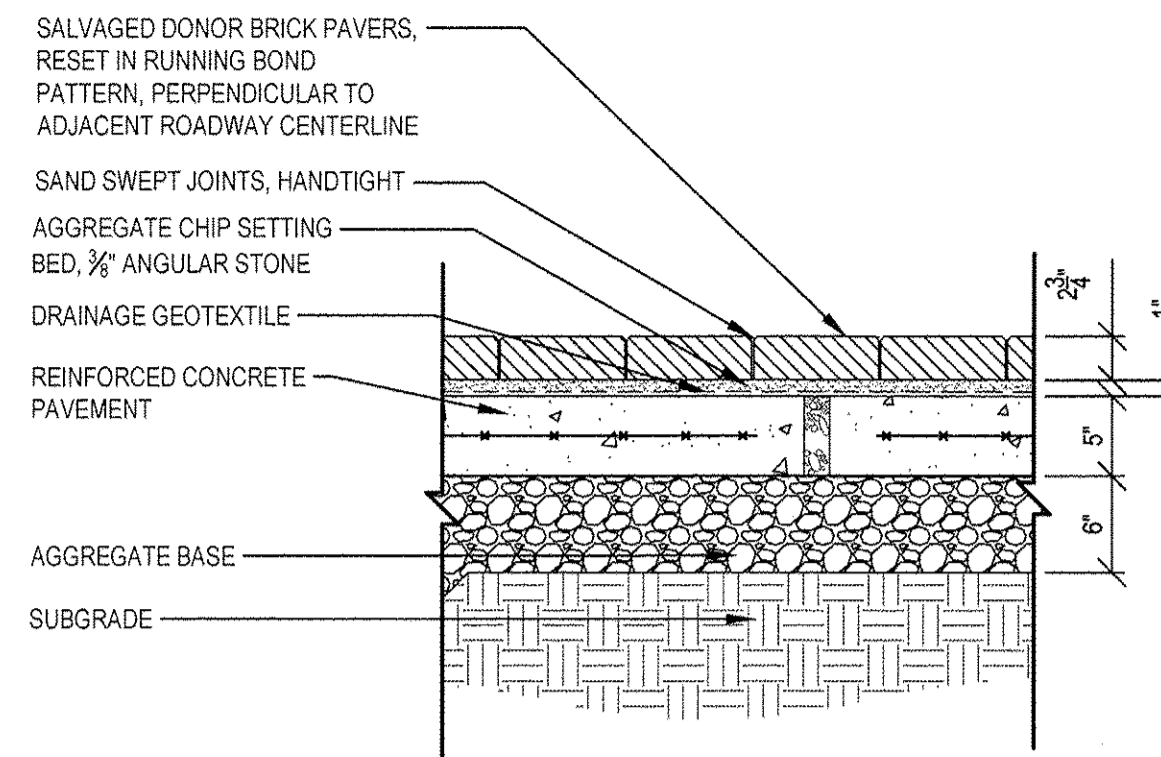




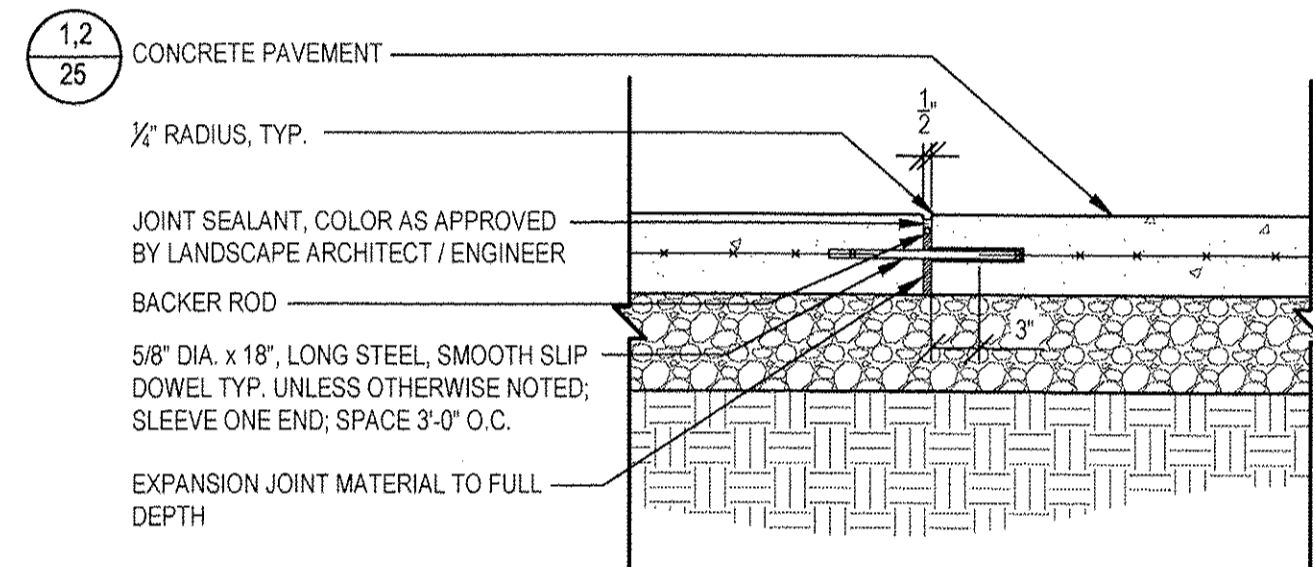
1 TINTED CONCRETE PAVEMENT SCALE: 1"=1'-0"



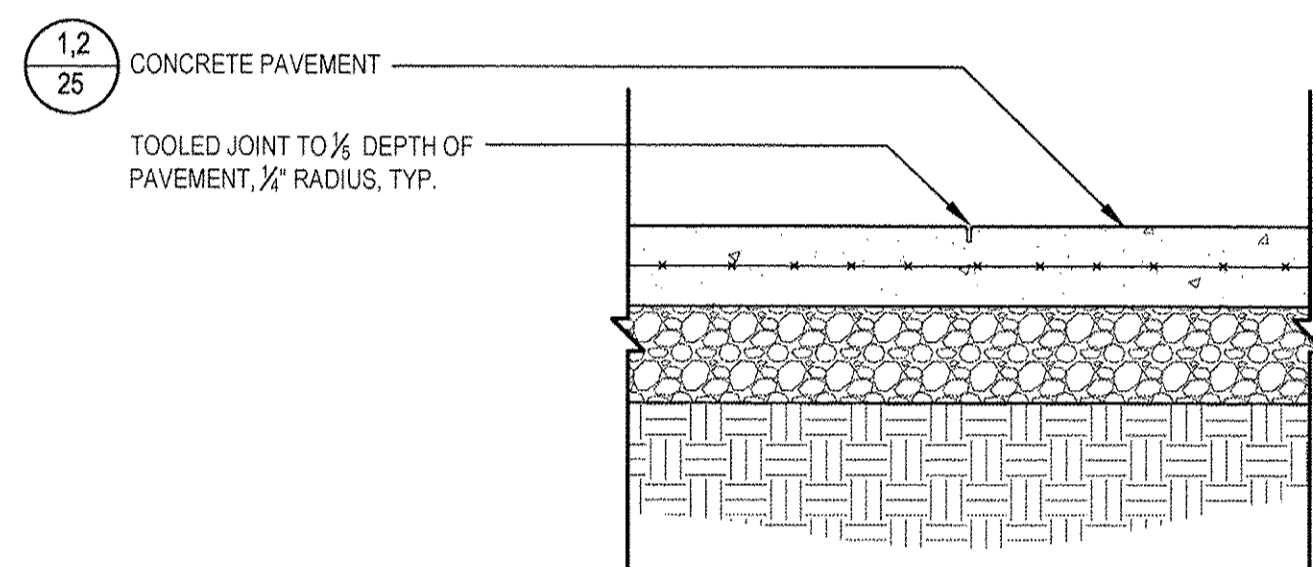
2 EXPOSED AGGREGATE CONCRETE PAVEMENT SCALE: 1"=1'-0"



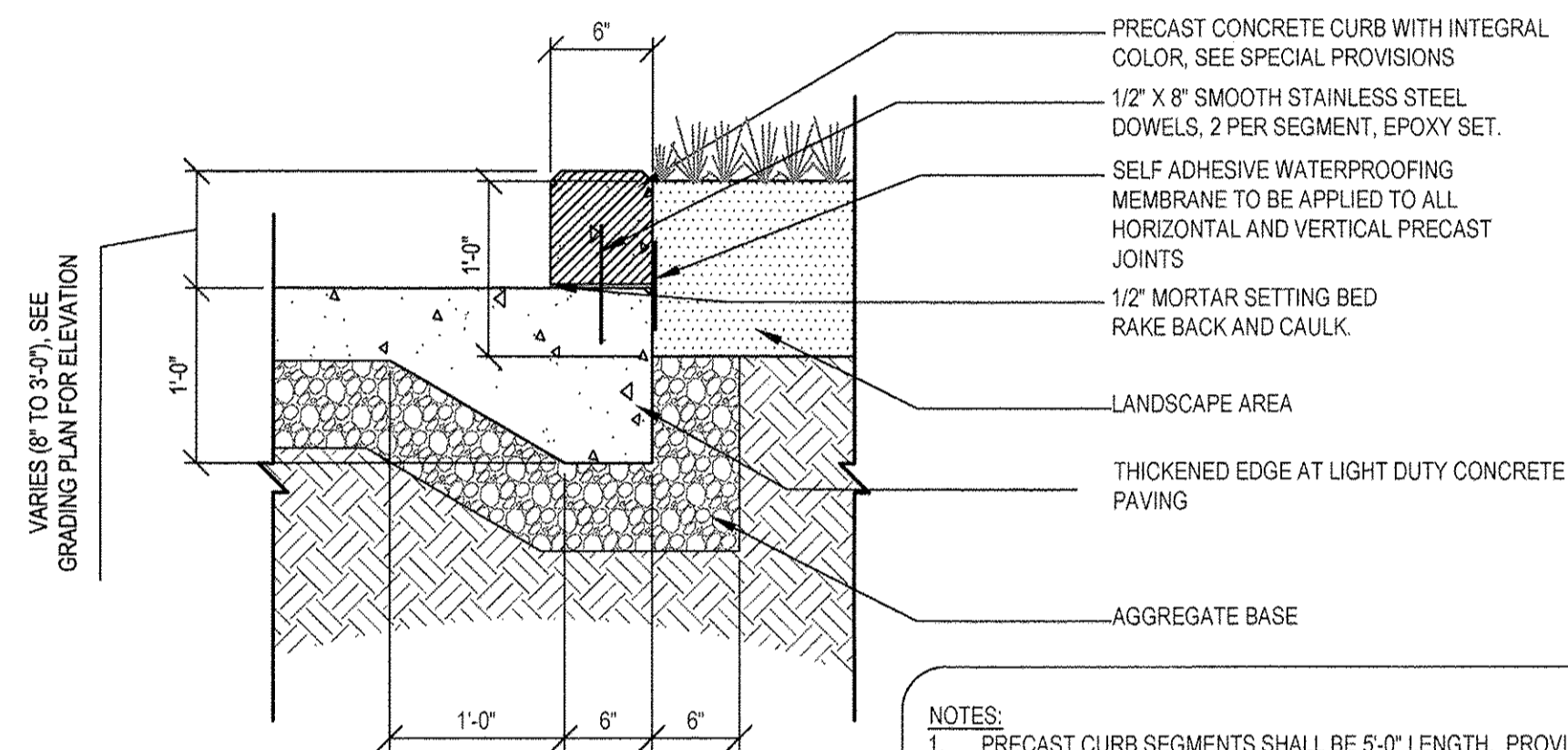
3 BRICK SIDEWALK SCALE: 1"=1'-0"



4 EXPANSION JOINT SCALE: 1"=1'-0"

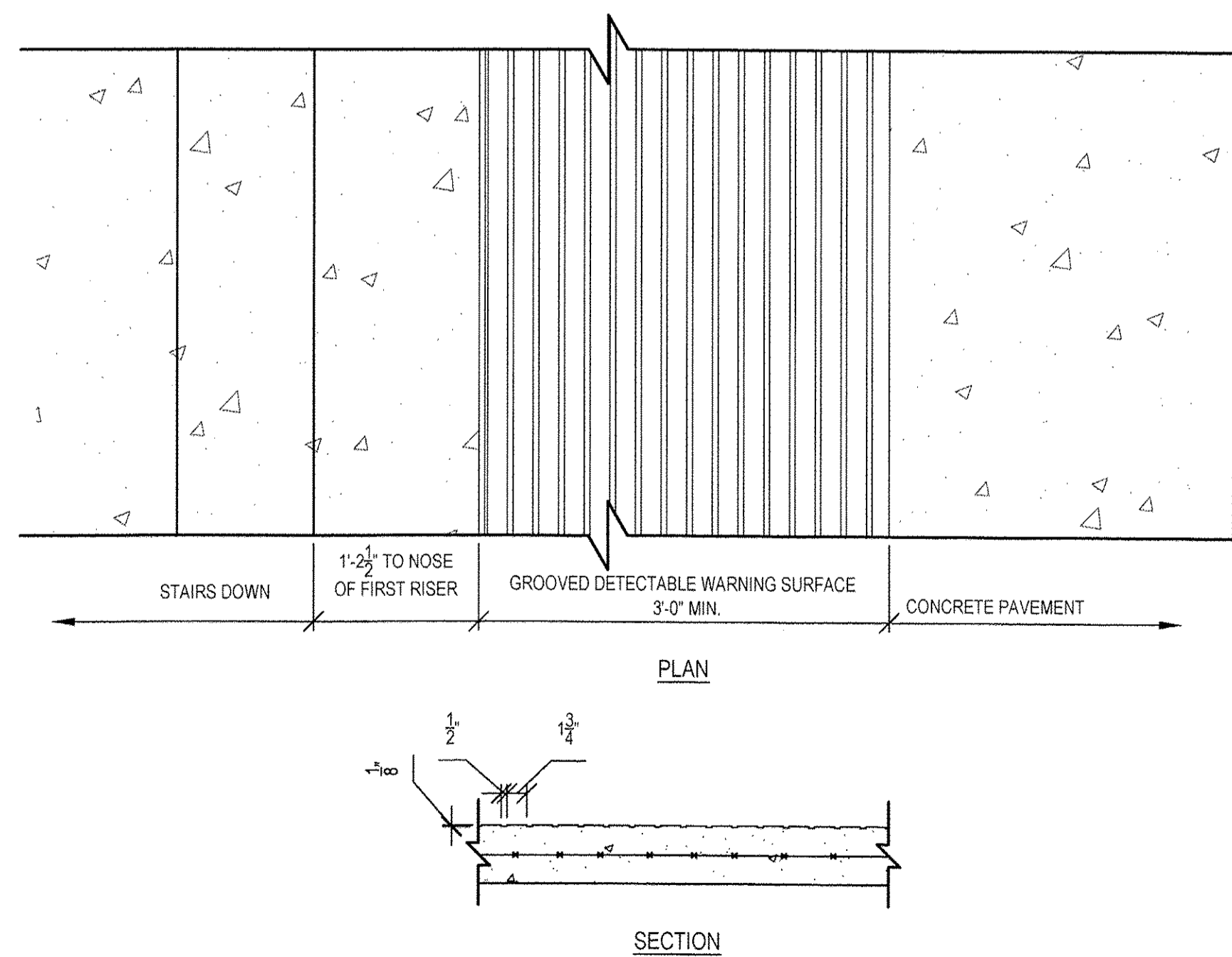


5 CONTROL JOINT SCALE: 1"=1'-0"

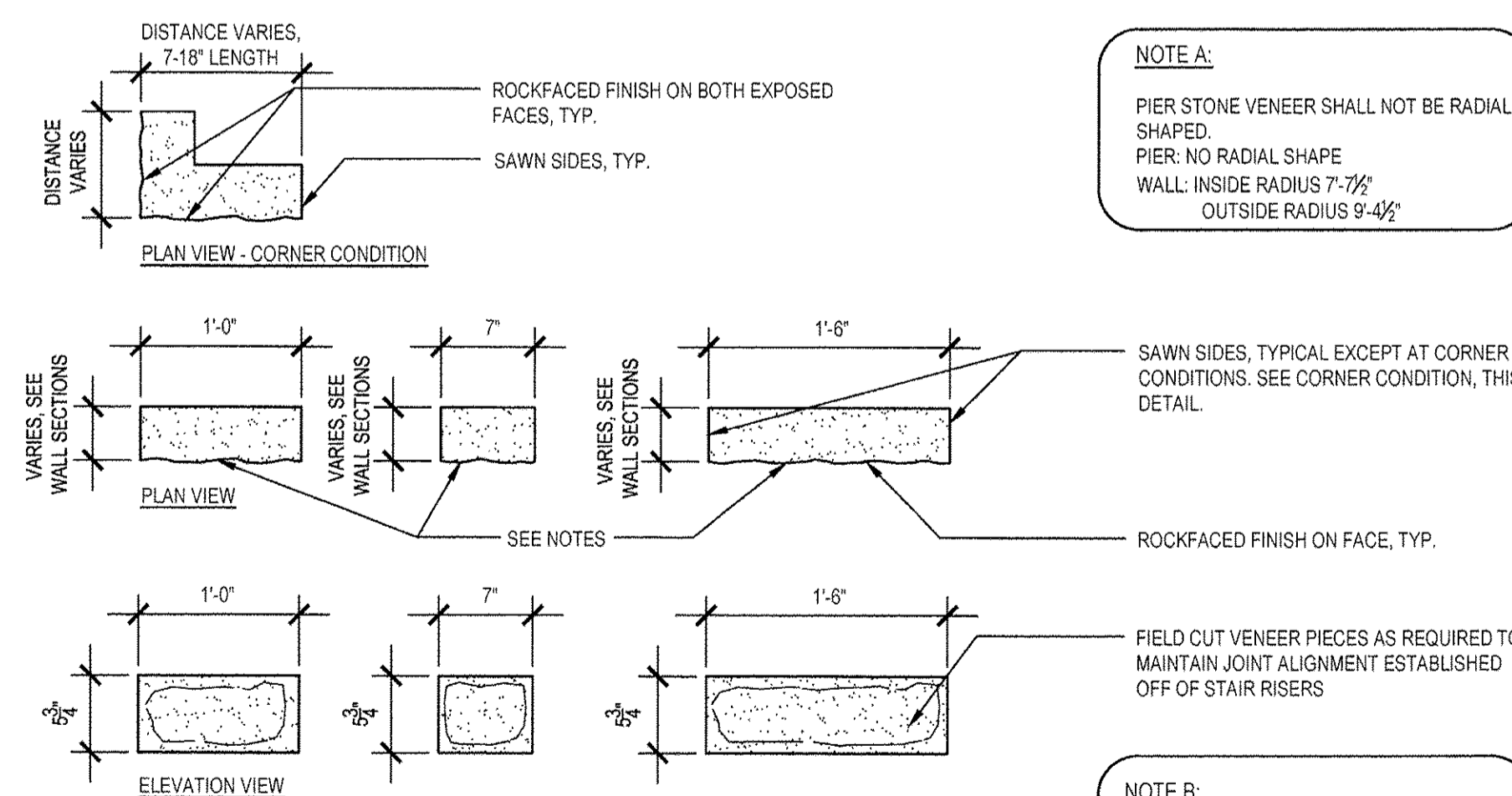


- NOTES:
1. PRECAST CURB SEGMENTS SHALL BE 5'-0" LENGTH. PROVIDE 1/2" MORTAR JOINT BETWEEN CURB SEGMENTS. RAKE BACK MORTAR AND CAULK JOINTS BETWEEN CURB PIECES WITH COLOR TO MATCH PRECAST CURB.
  2. PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  3. PRECAST CURB SEGMENTS ON RADIUS SHALL BE CURVED, NOT CHORDED.
  4. PRECAST PIECES SHALL NOT BE CUT IN FIELD WITH EXCEPTION TO WHEN ABUTTING WALLS.

6 PRECAST CONCRETE CURB SCALE: 1"=1'-0"



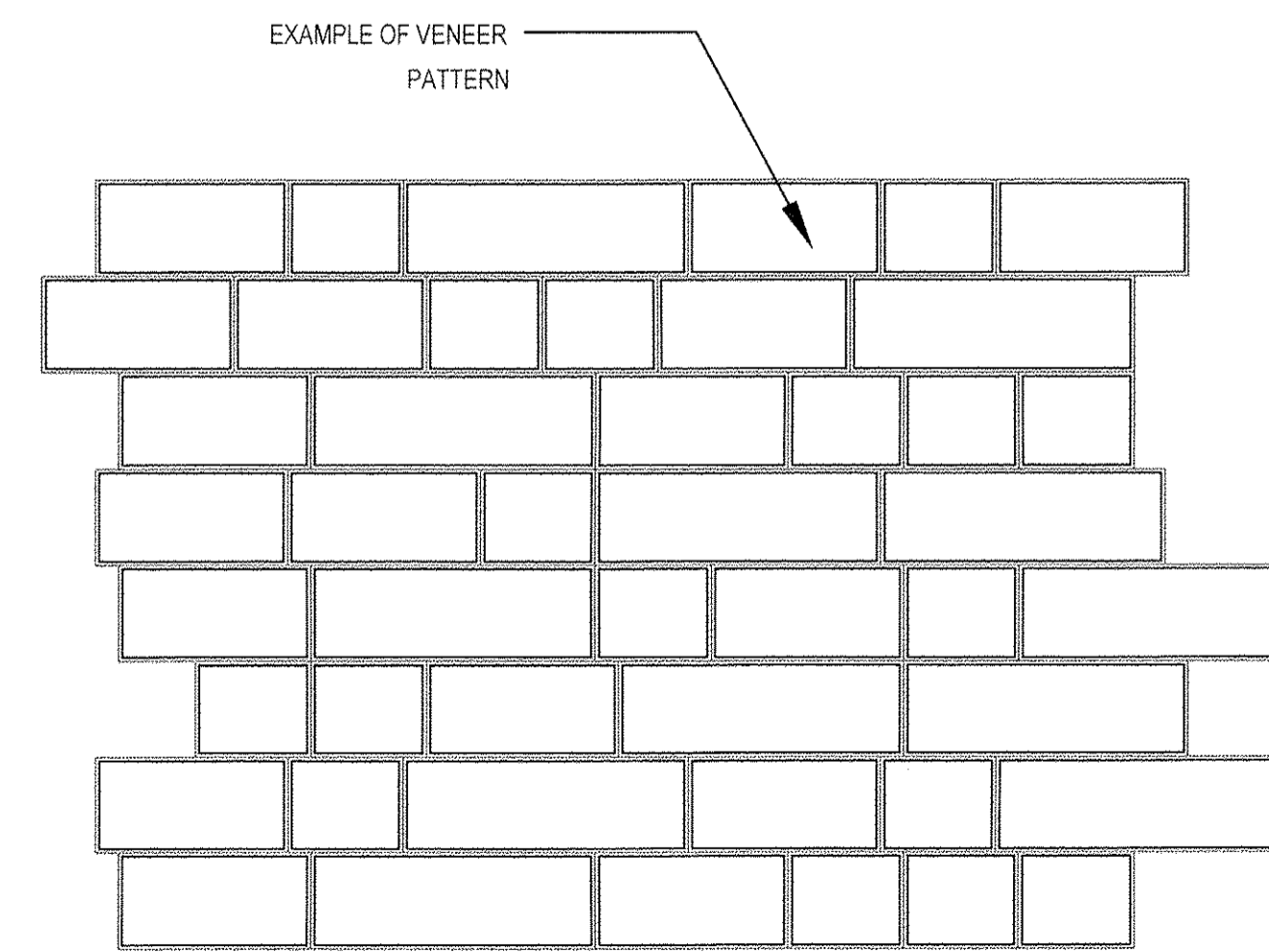
7 DETECTABLE WARNING SURFACE SCALE: 1"=1'-0"



NOTE A:  
PIER STONE VENEER SHALL NOT BE RADIAL SHAPED.  
PIER: NO RADIAL SHAPE  
WALL: INSIDE RADIUS 7'-7 1/2"  
OUTSIDE RADIUS 9'-4 1/2"

NOTE B:  
VENEER SHALL BE GREY LANNON STONE, SAWED COURSE HEIGHT WITH A ROCKFACED FINISH, TO BE INSTALLED IN PATTERN PER DETAIL 9, SHEET 25.

8 STONE VENEER PIECE SIZING SCALE: 1"=1'-0"

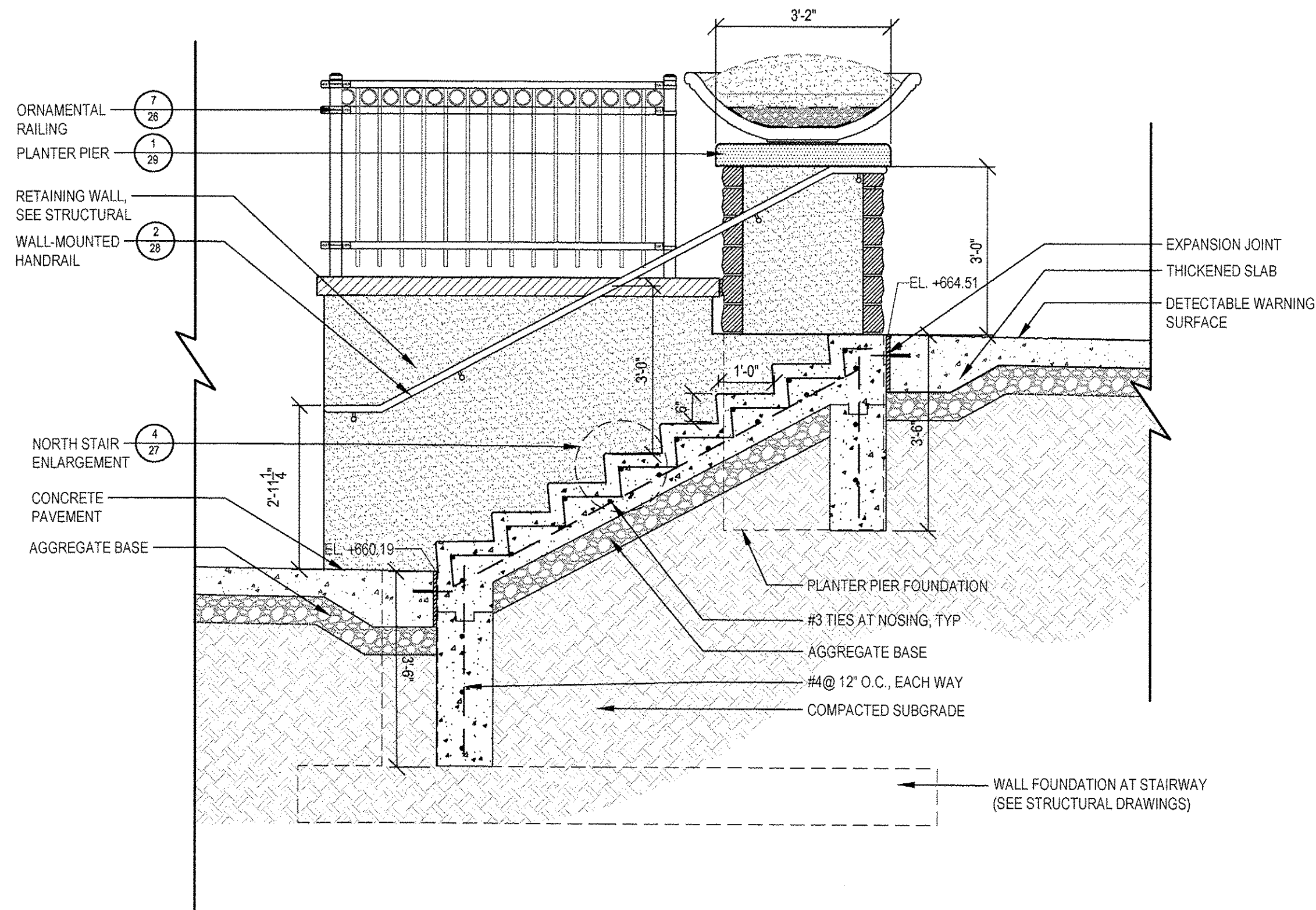


9 STONE VENEER PATTERN SCALE: N.T.S.

USER NAME =	DESIGNED —	REVISED — 30% 1-06-2016
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	DATE —	REVISED — 95% 4-27-2016

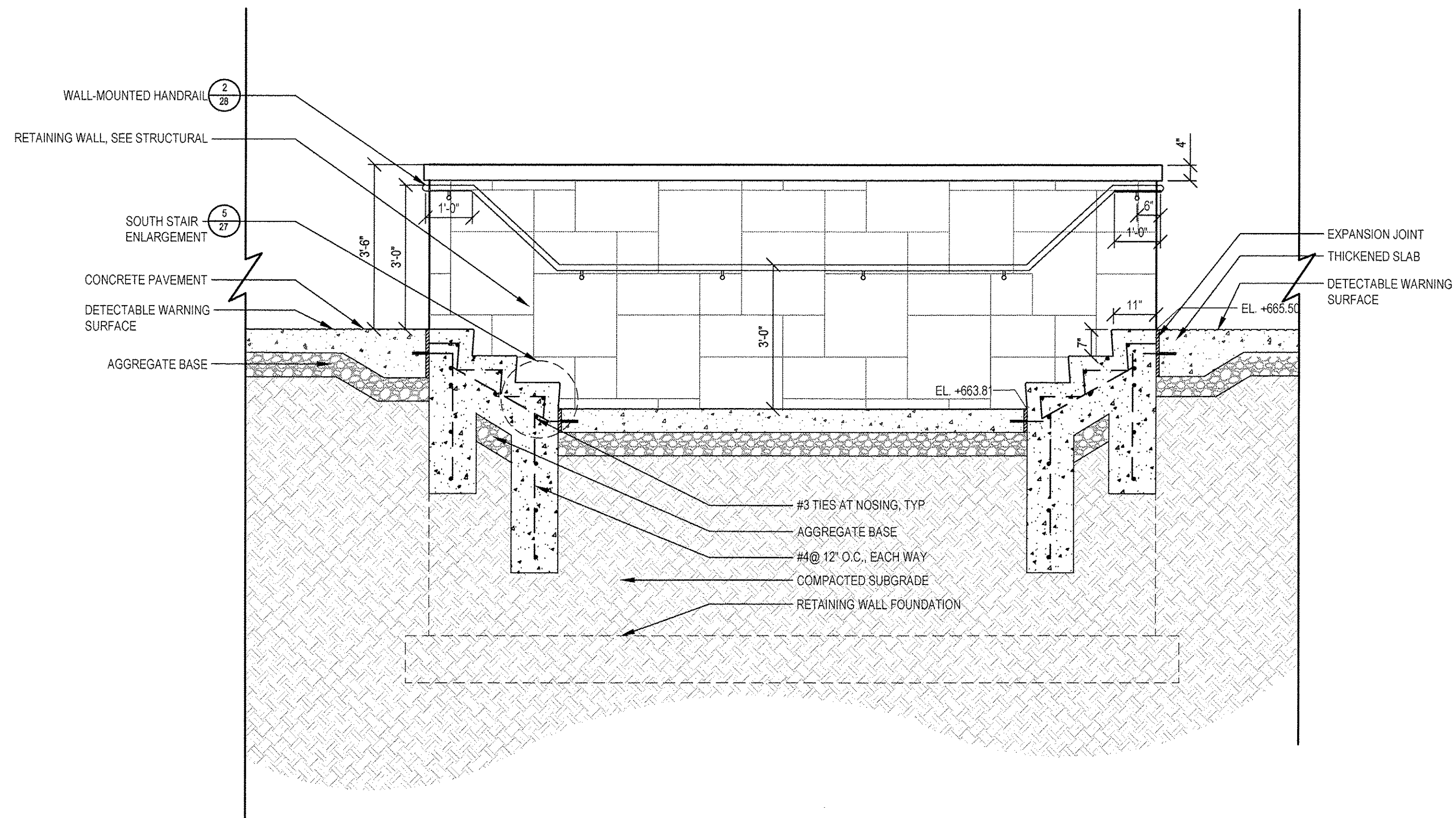
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	25
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	





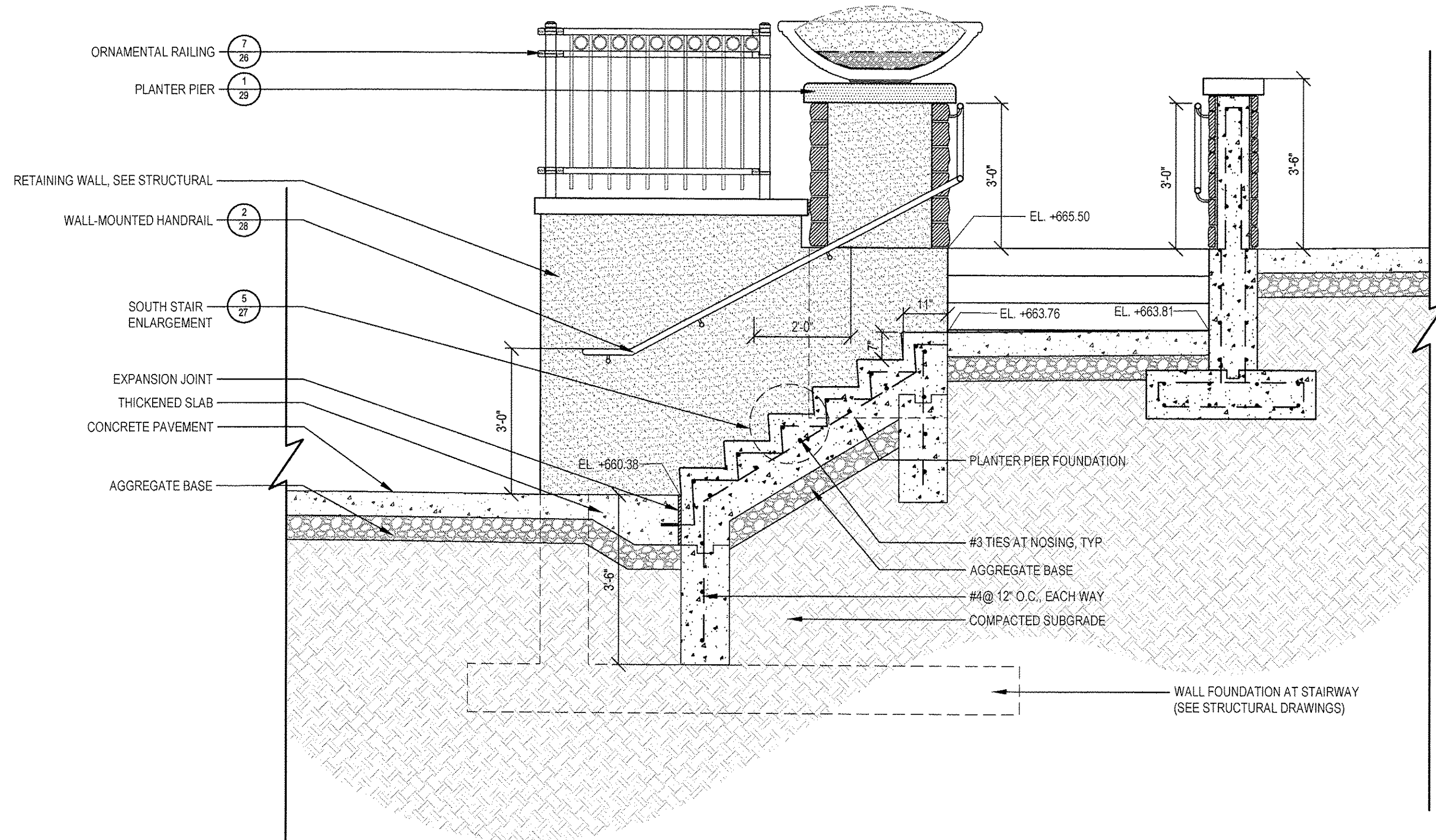
1 NORTH STAIR (VIEW TO WEST)

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



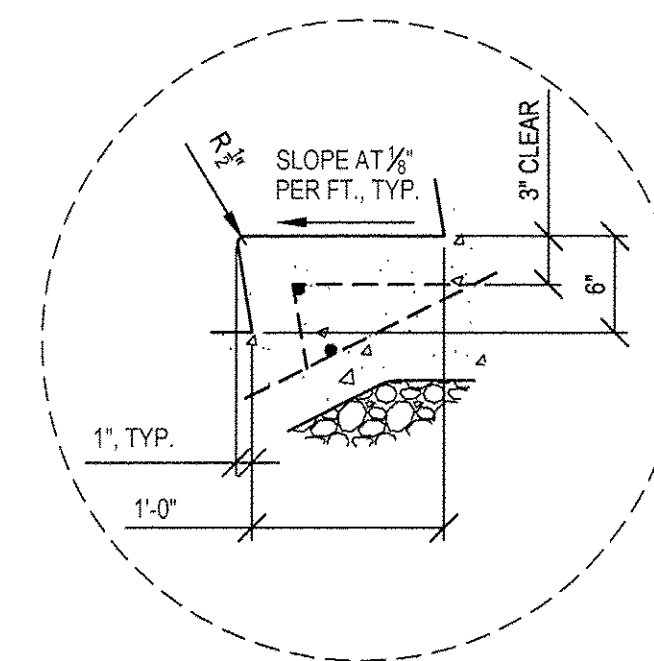
2 SOUTH STAIR - UPPER-NORTH ELEVATION

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



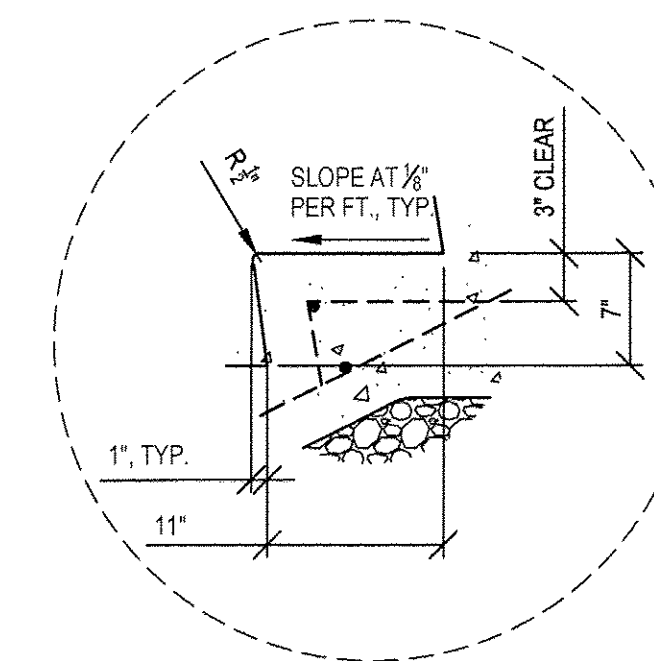
3 SOUTH STAIR - LOWER (VIEW TO EAST)

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



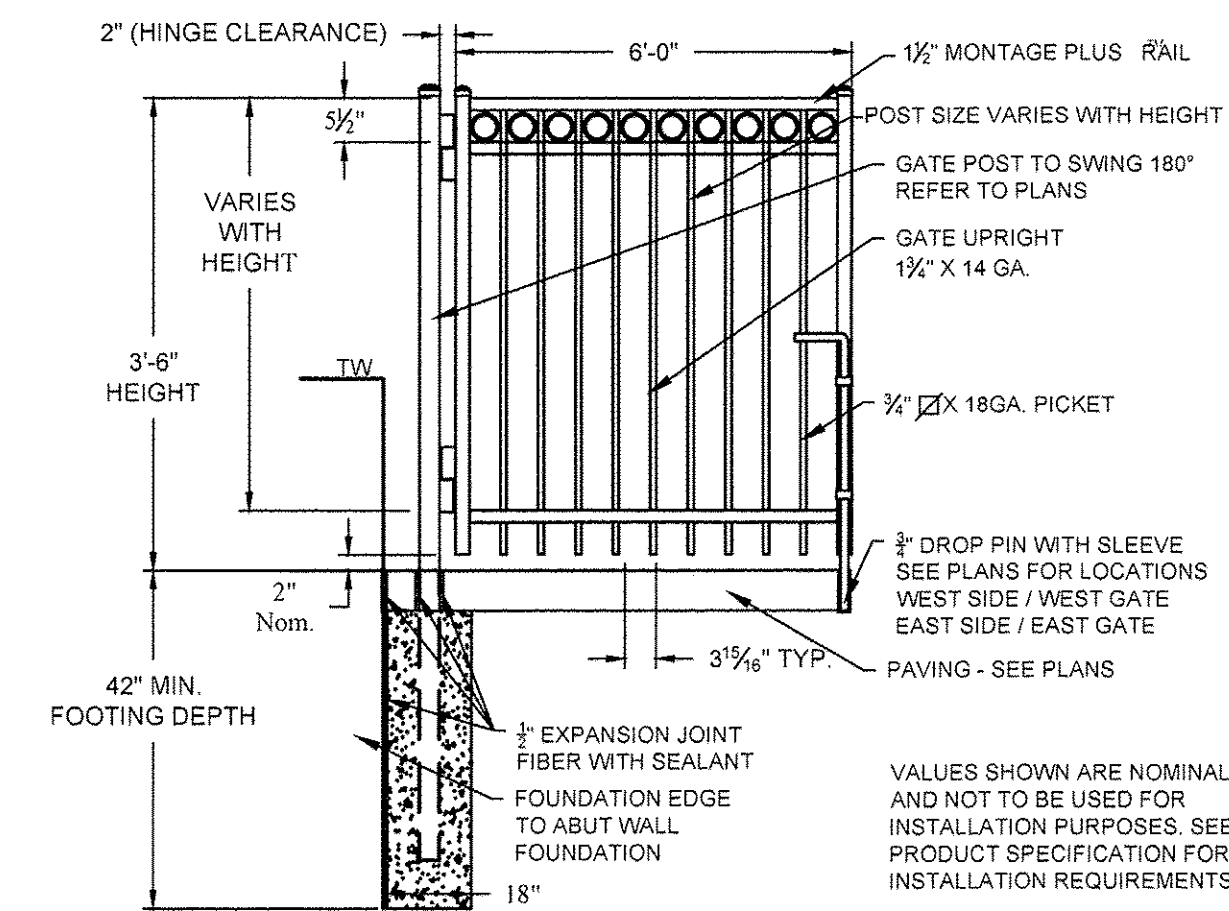
4 NORTH STAIR ENLARGEMENT

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



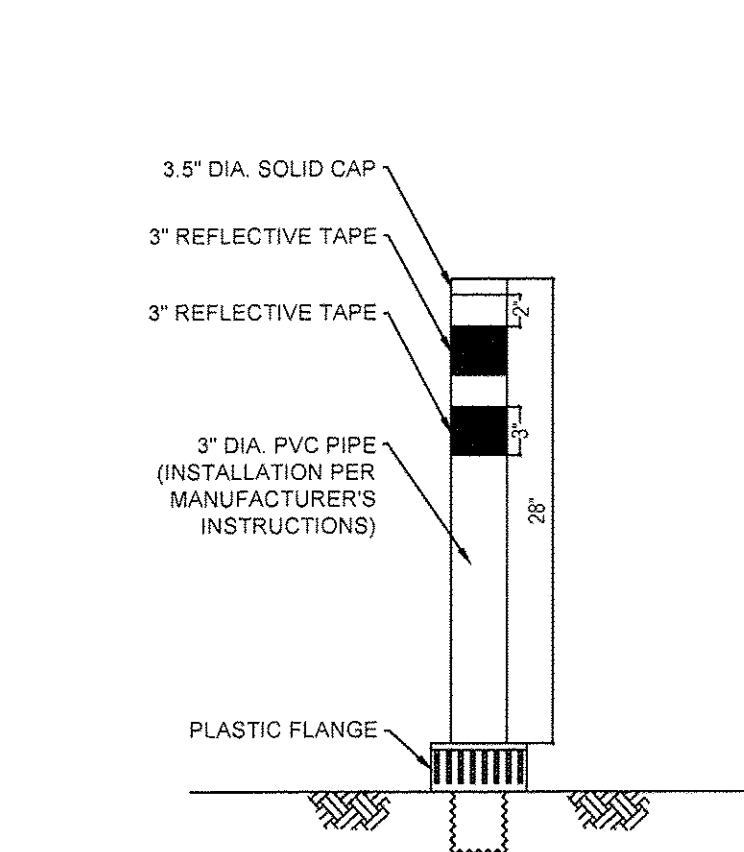
5 SOUTH STAIR ENLARGEMENT

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



6 ORNAMENTAL GATE

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



7 BOLLARD

SCALE: 1"=1'-0"

**SMITHGROUP JJR**  
35 EAST WACKER  
SUITE 2200  
CHICAGO, IL 60601  
312.641.0770  
www.smithgroupjir.com

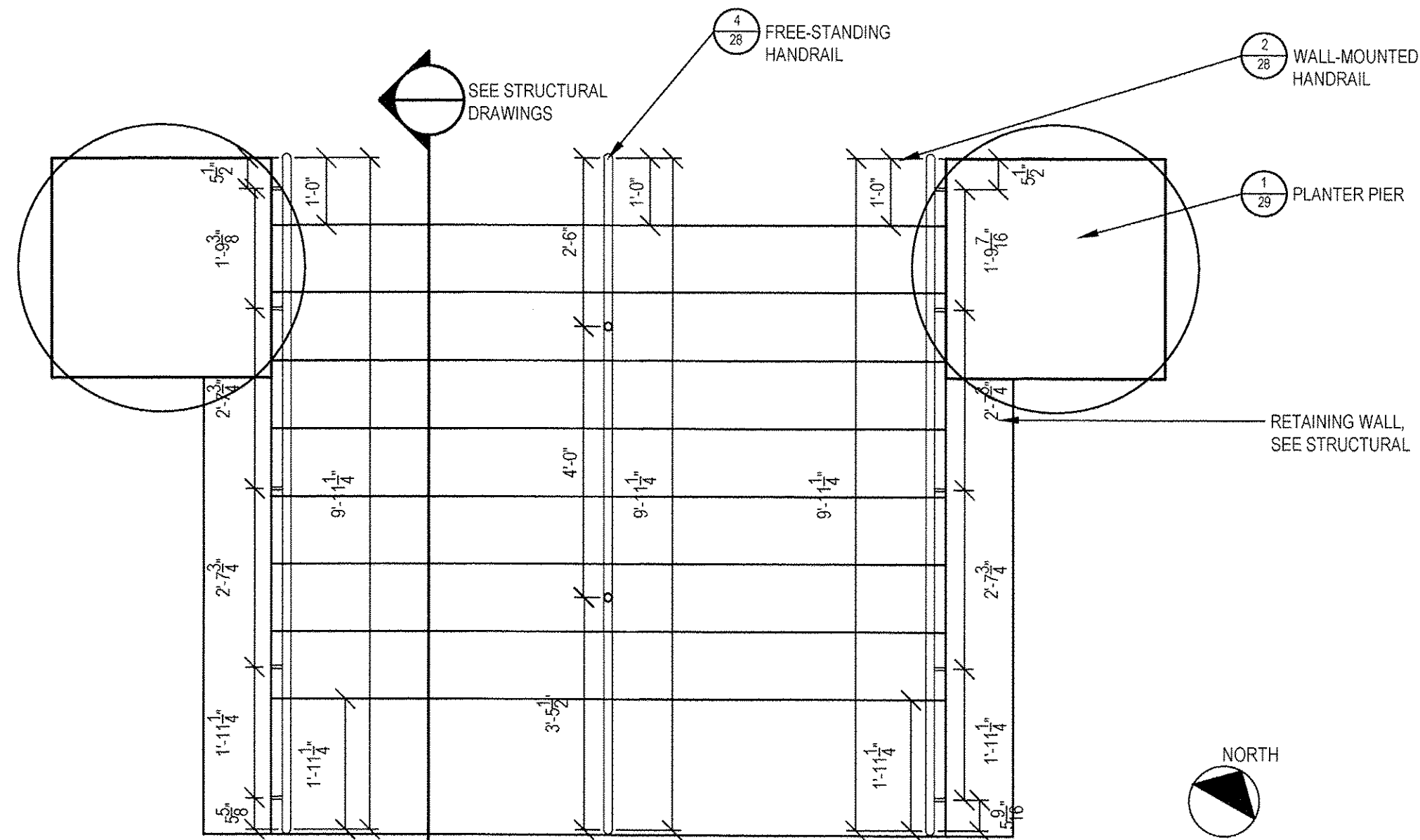
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DRAWN —	REVISOR —	REVISED —	11-18-2016
PLOT SCALE =	CHECKED —	REVISED —	
PLOT DATE =	DATE —	REVISED —	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SITE DETAILS

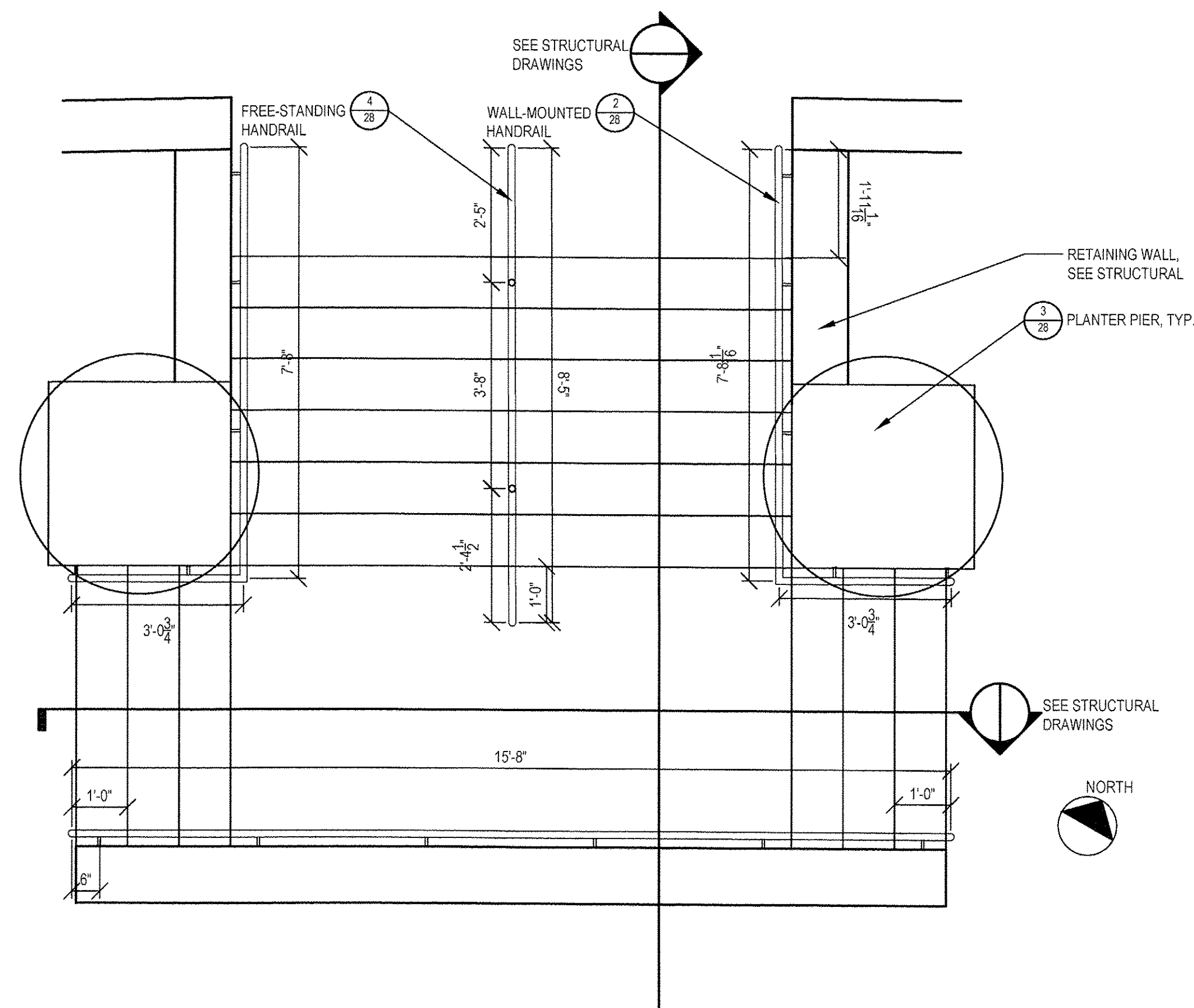
SCALE: AS NOTED SHEET NO. 22 OF 58 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	27
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	



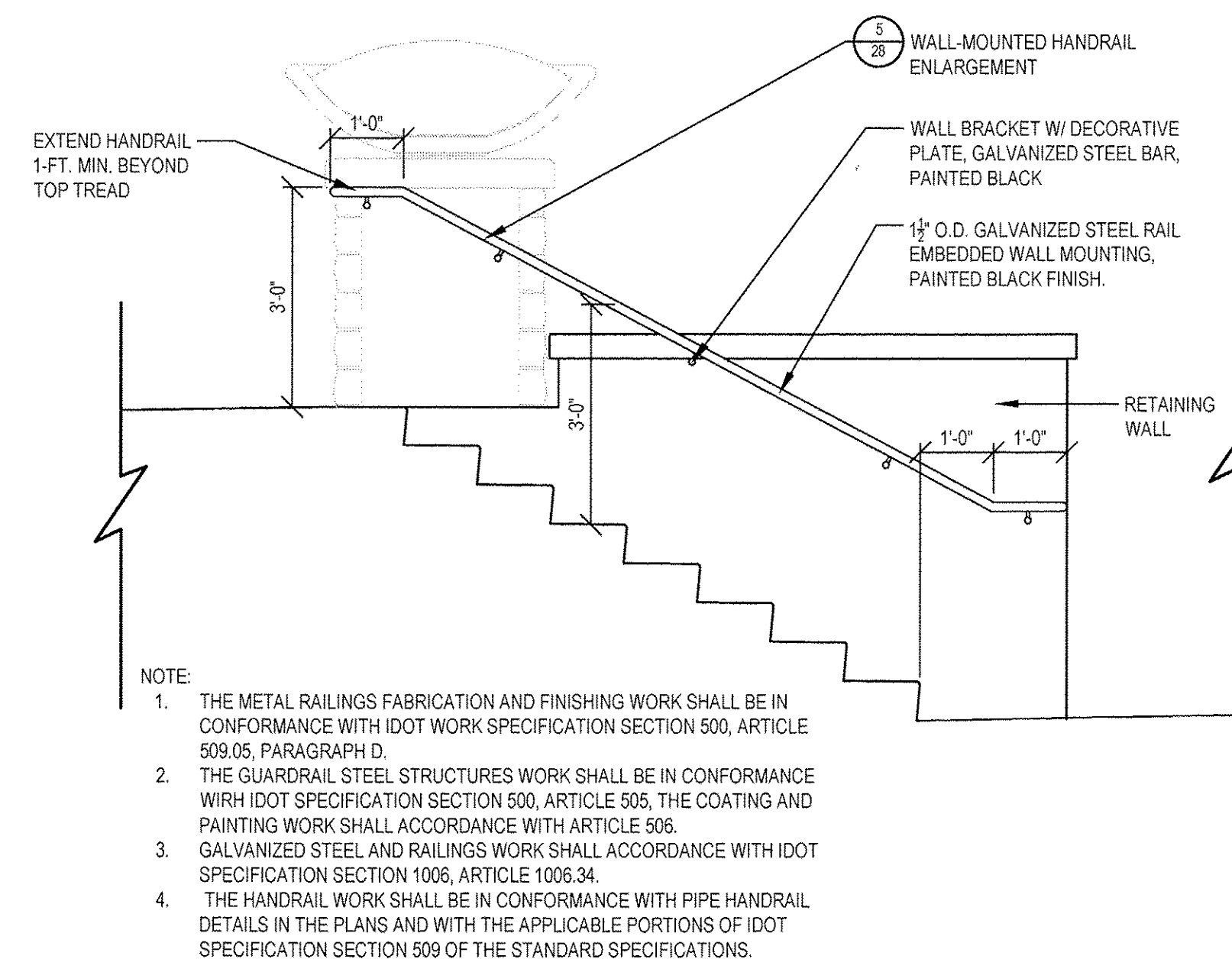
1 NORTH STAIR HANDRAIL PLAN

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



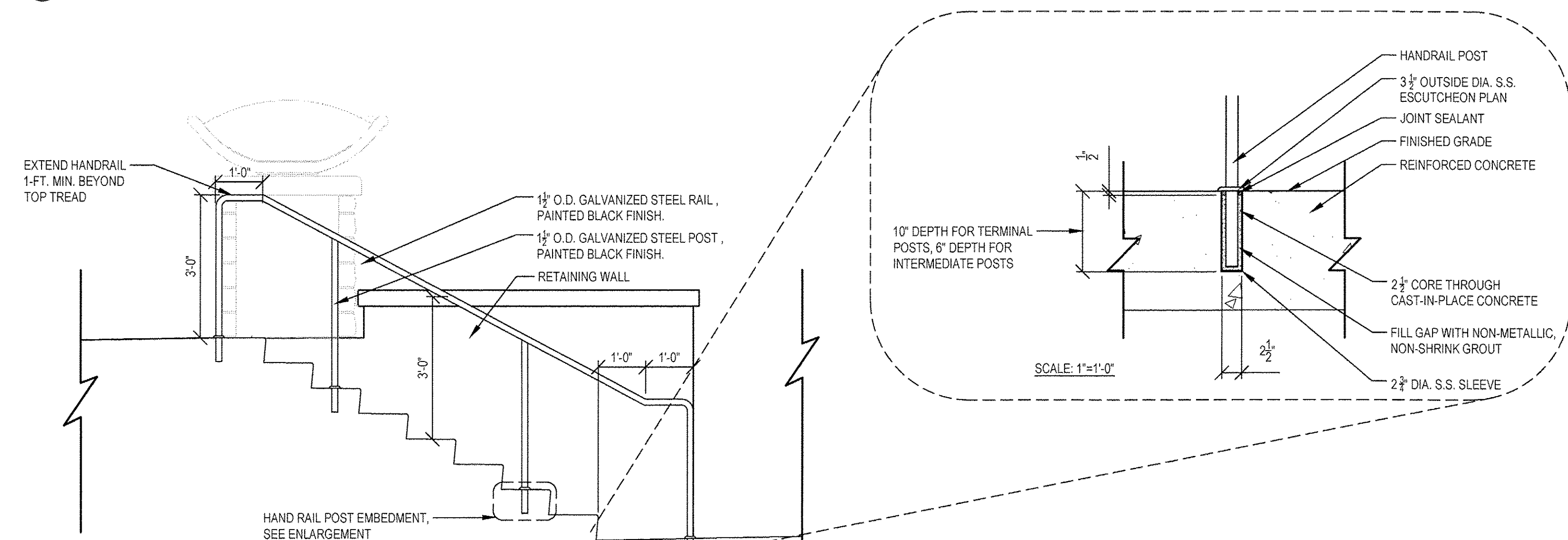
3 SOUTH STAIR HANDRAIL PLAN

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



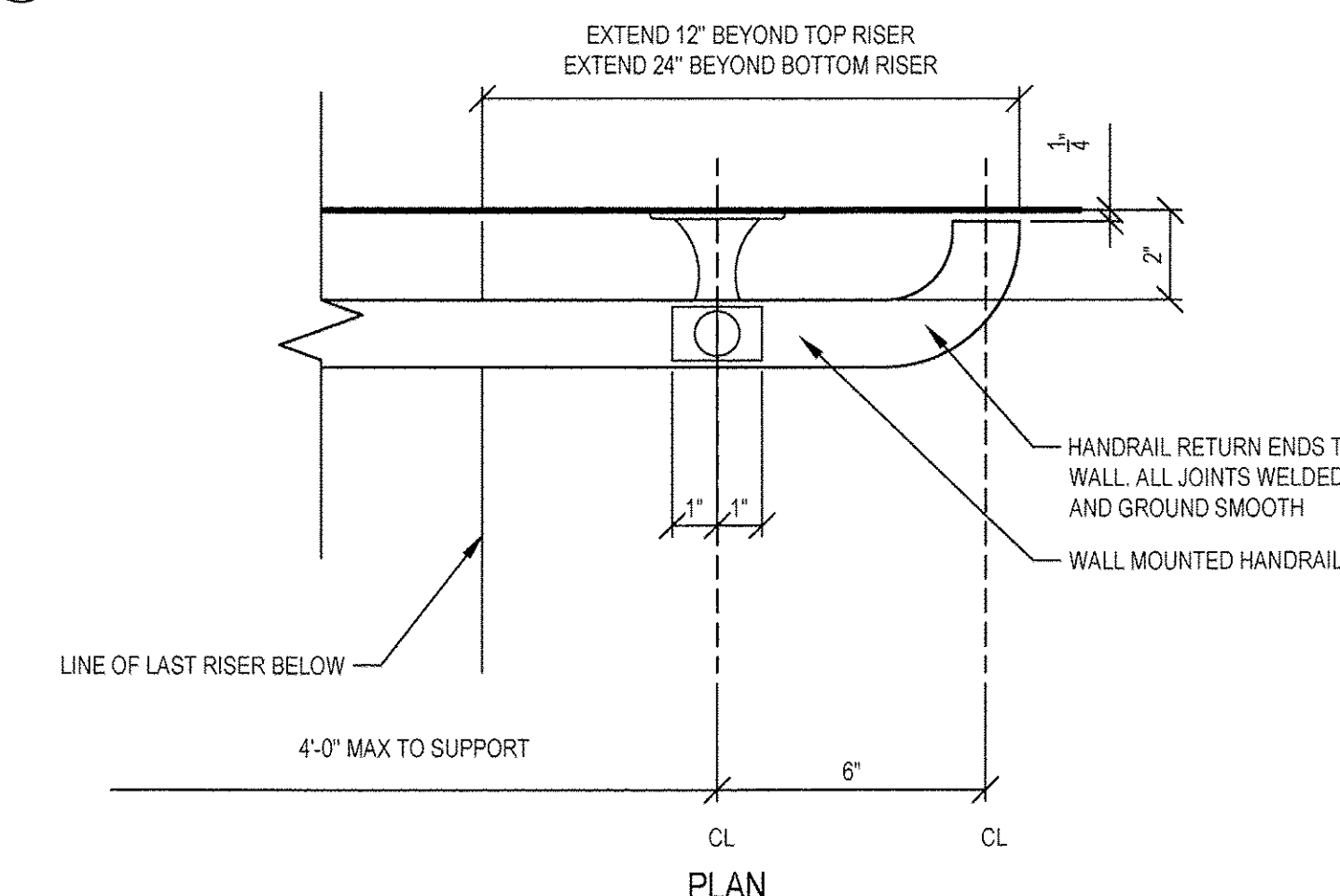
2 WALL-MOUNTED HANDRAIL

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



4 FREE-STANDING HANDRAIL

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



6 WALL-MOUNTED HANDRAIL ENLARGEMENT

SCALE: 3"=1'-0"

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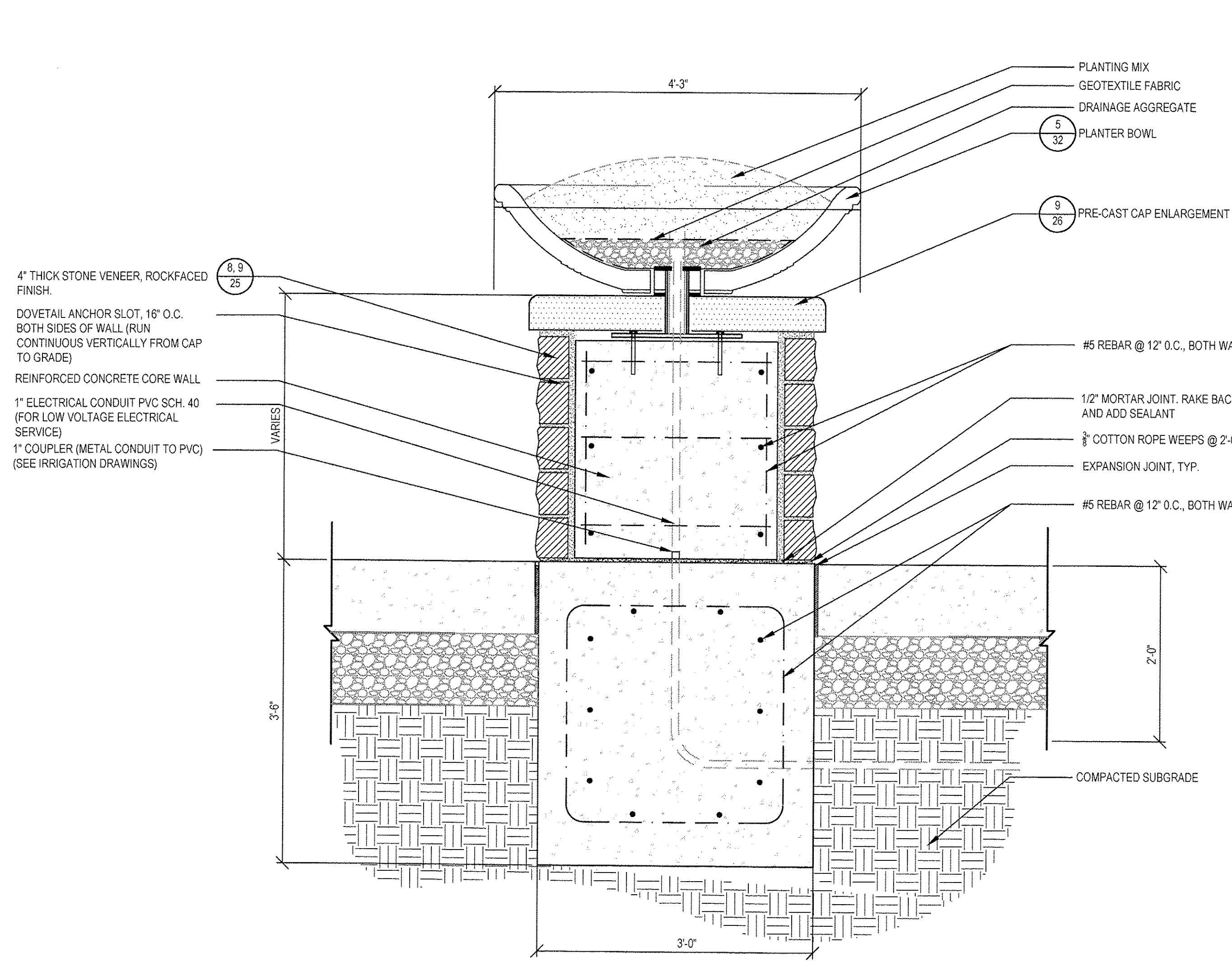
USER NAME =	DESIGNED =	REVISED = 30% 1-06-2016
PLOT SCALE =	DRAWN =	REVISED = 60% 2-02-2016
PLOT DATE =	CHECKED =	REVISED = 90% 3-04-2016
	DATE =	REVISED = 95% 4-27-2016

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EAST PLATFORM RECONSTRUCTION  
SITE DETAILS

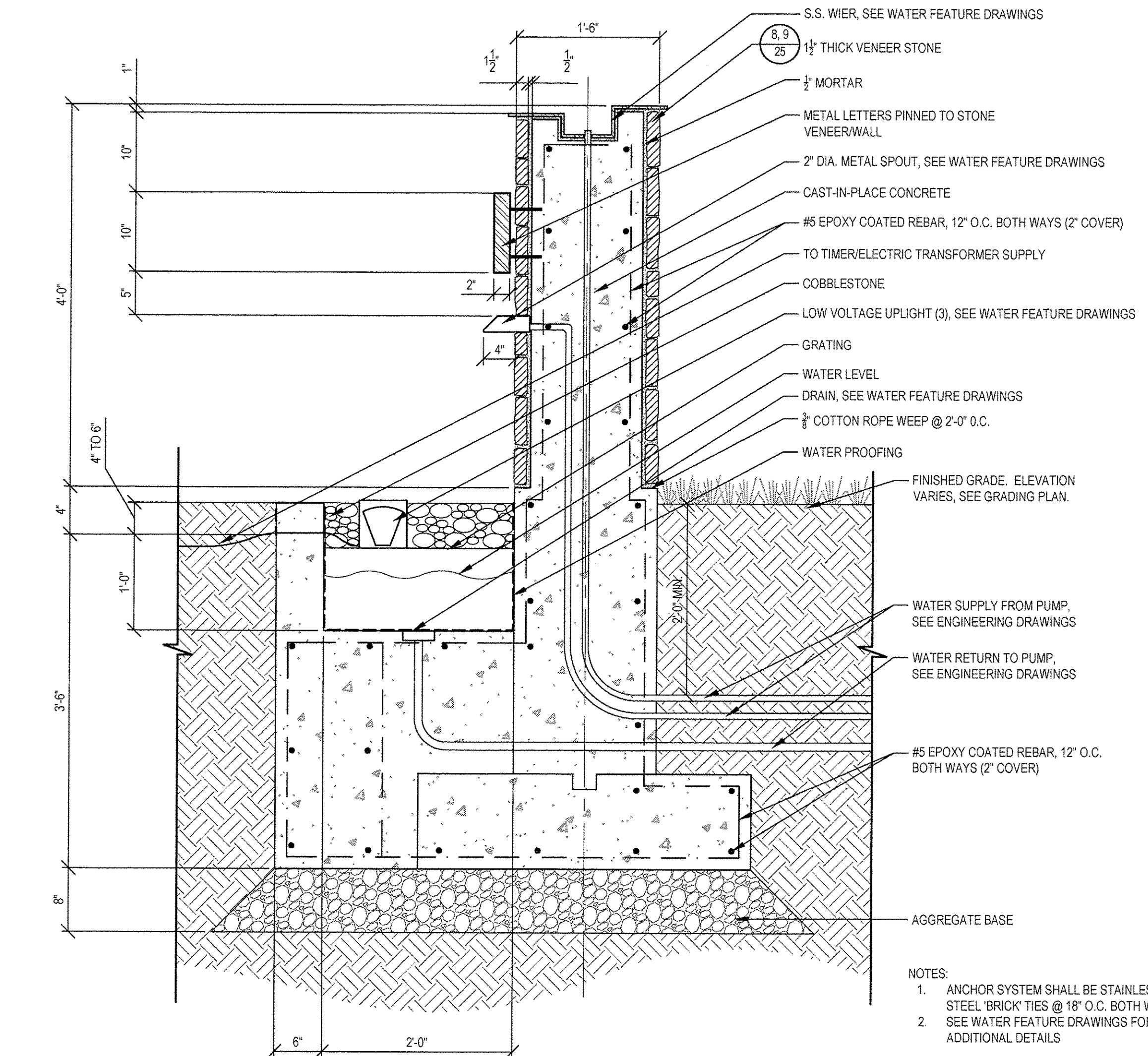
SCALE: AS NOTED SHEET NO. 28 OF 58 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	28
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	



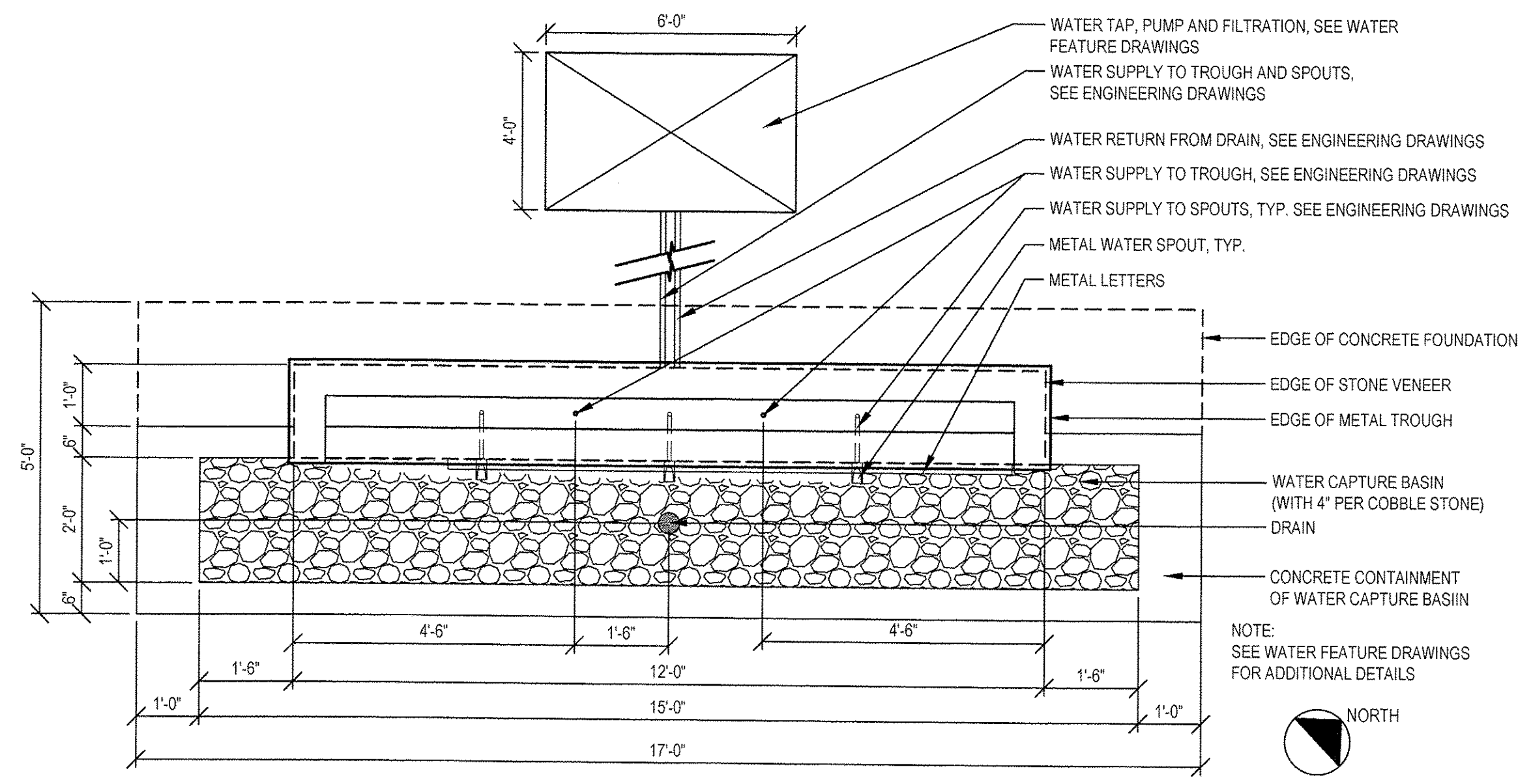
1 PLANTER PIER

SCALE: 1"=1'-0"



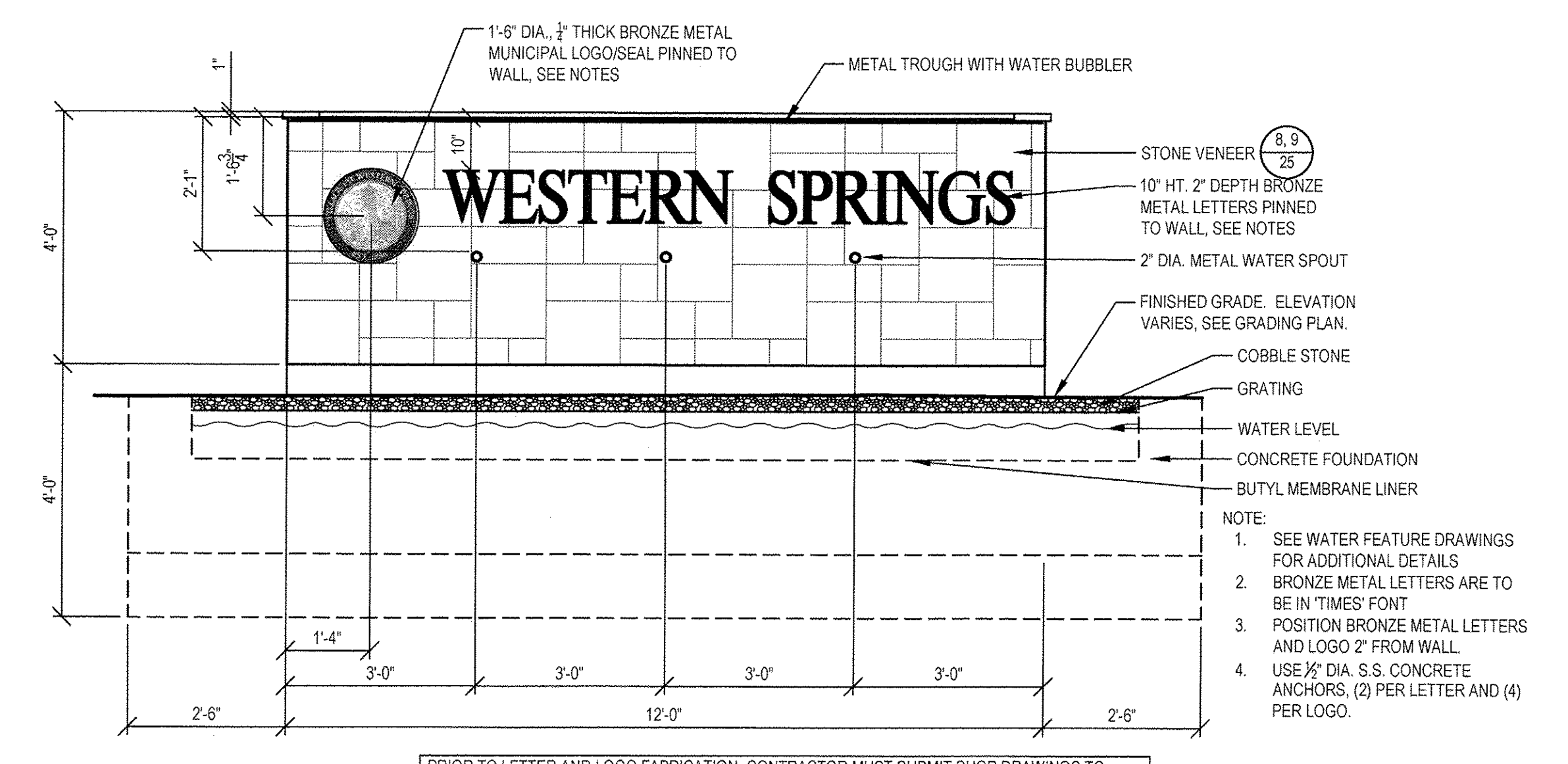
2 SOUTH SIGN WITH WATER FEATURE - SECTION

SCALE: 1"=1'-0"



3 SOUTH SIGN WITH WATER FEATURE - PLAN (VIEW FROM SOUTH)

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



4 SOUTH SIGN WITH WATER FEATURE - SOUTH ELEVATION

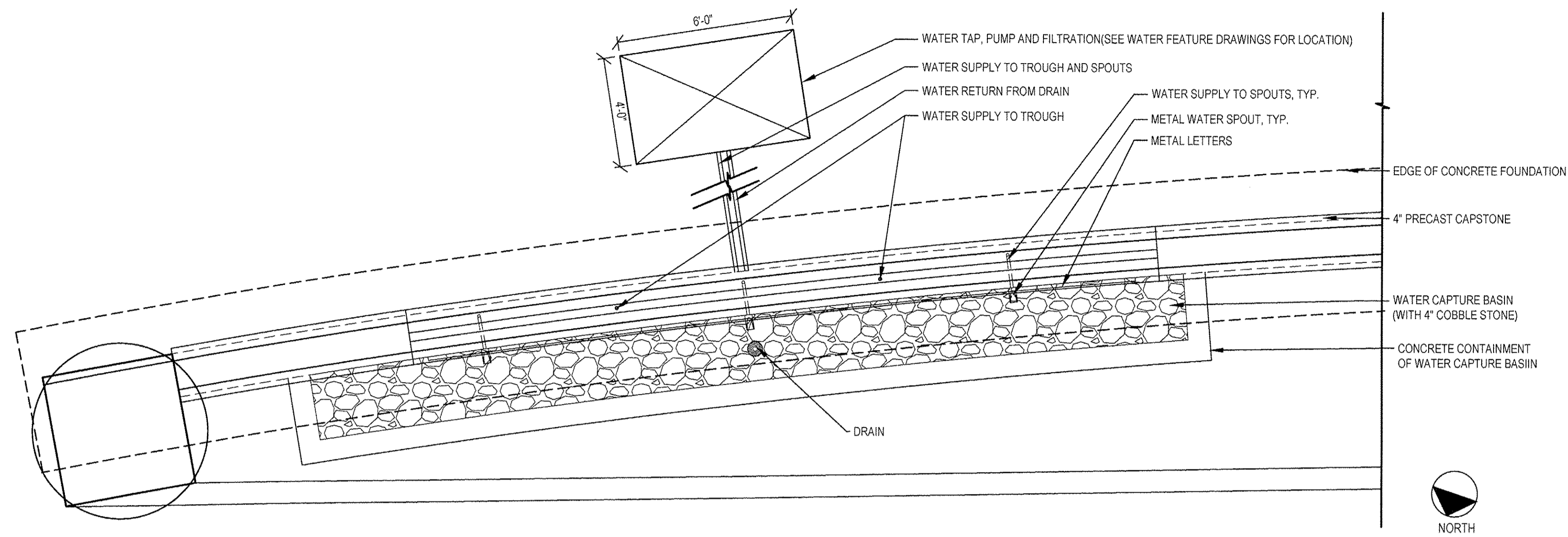
SCALE: 1/2"=1'-0"

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PLOT SCALE =	DRAWN --	REVISED -- 60% 2-02-2016
PLOT DATE =	CHECKED --	REVISED -- 90% 3-04-2016
	DATE --	REVISED -- 95% 4-27-2016

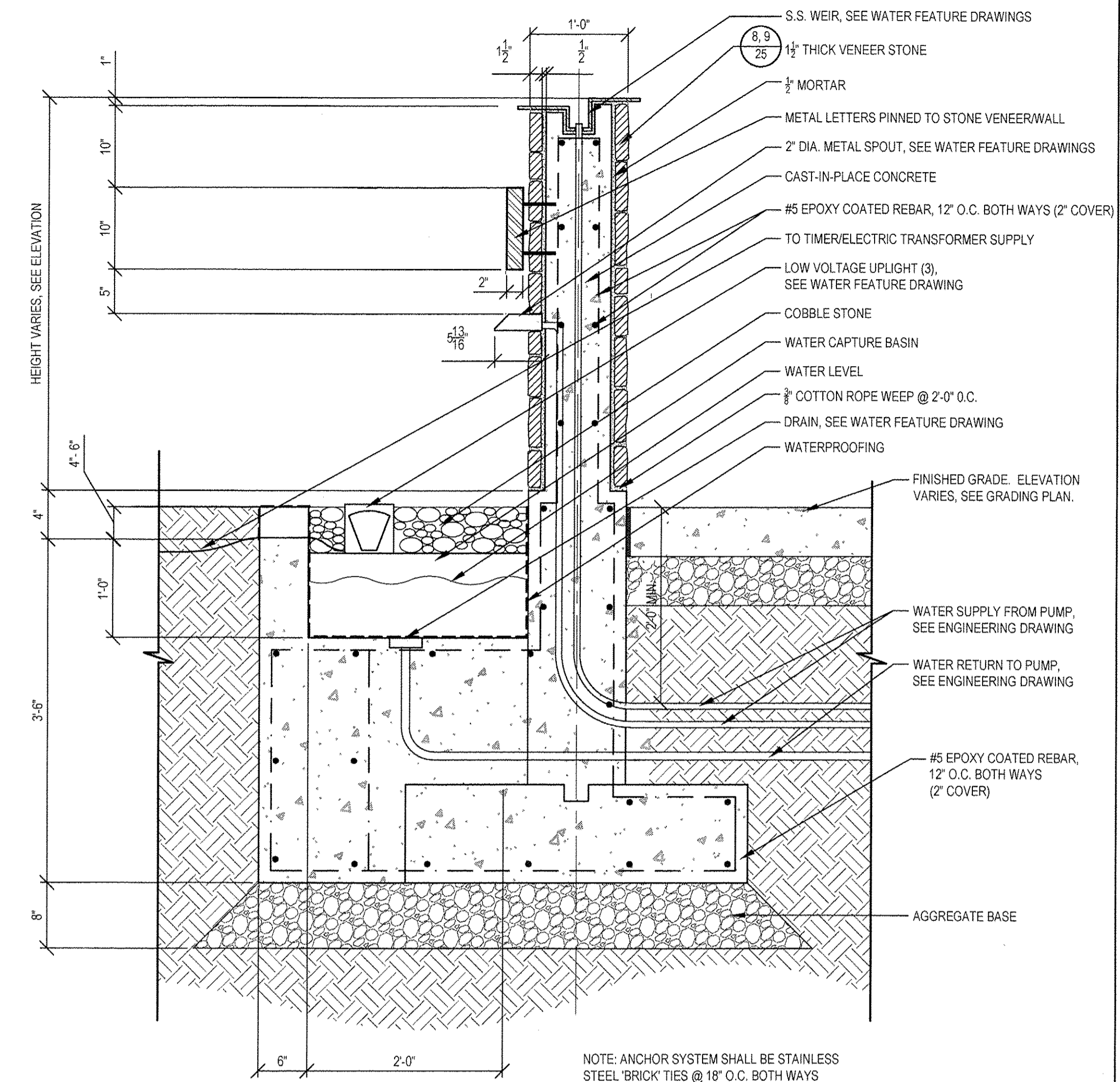
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION SITE DETAILS		F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 29
SCALE: AS NOTED SHEET NO. 29 OF 58 SHEETS STA. TO STA.		CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT						



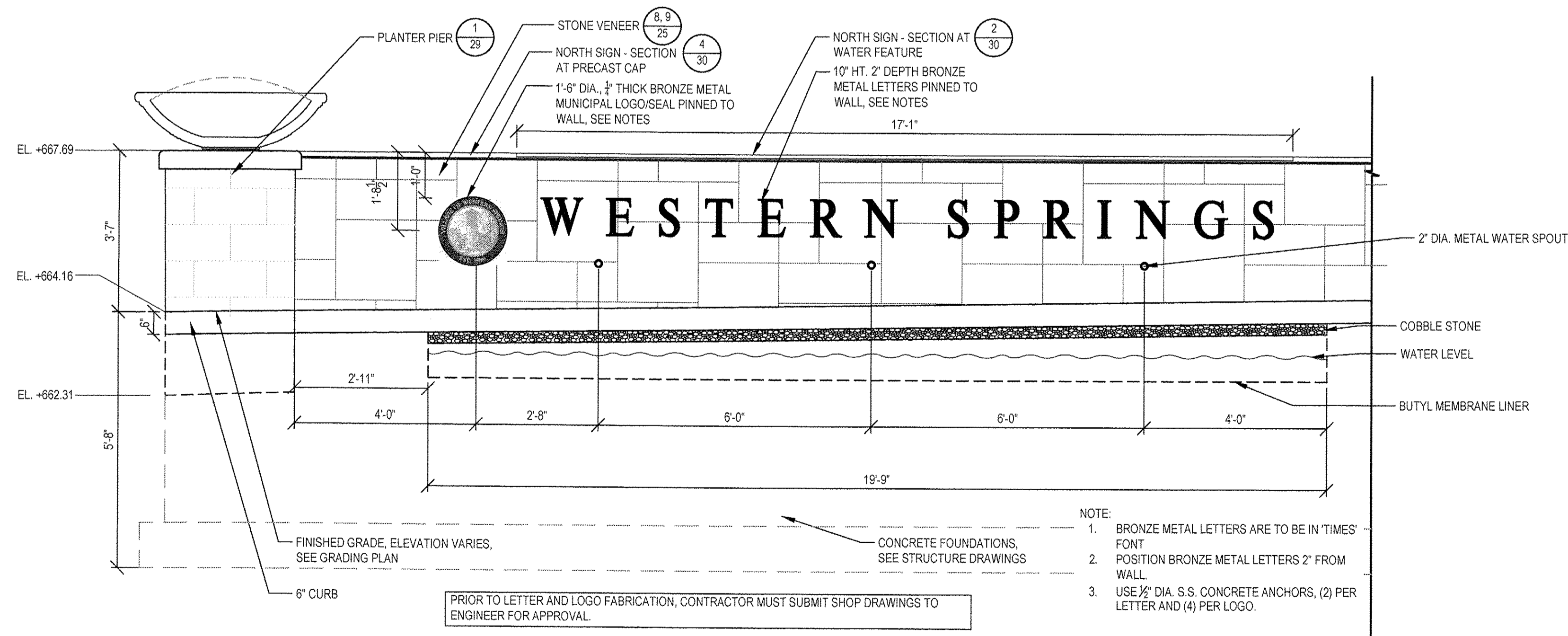
1 NORTH SIGN WITH WATER FEATURE - PLAN

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



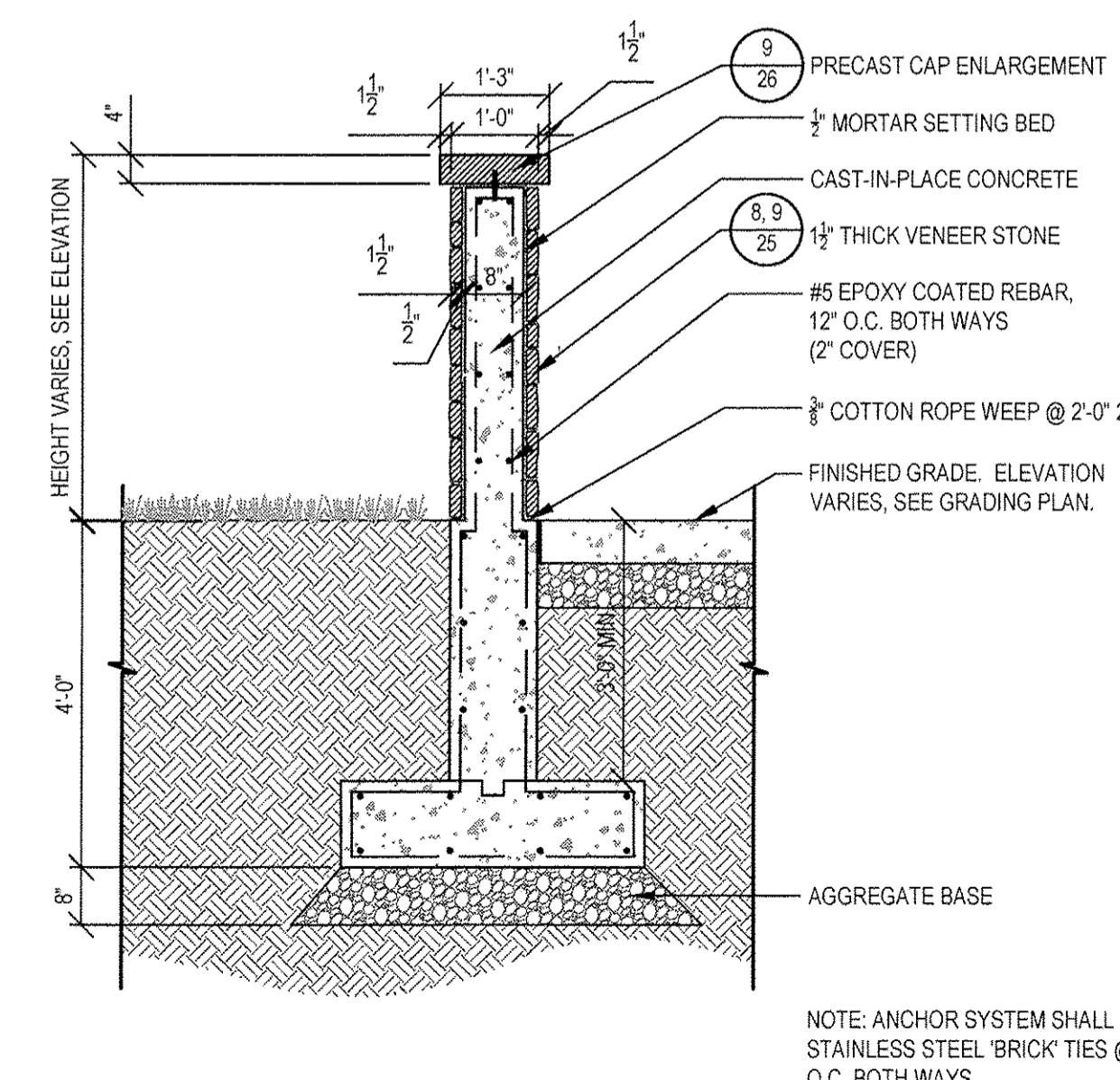
2 NORTH SIGN - SECTION AT WATER FEATURE

SCALE: 1"=1'-0"



3 NORTH SIGN WITH WATER FEATURE - NORTH ELEVATION

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



4 NORTH SIGN - SECTION AT PRECAST CAP

SCALE: 1"=1'-0"

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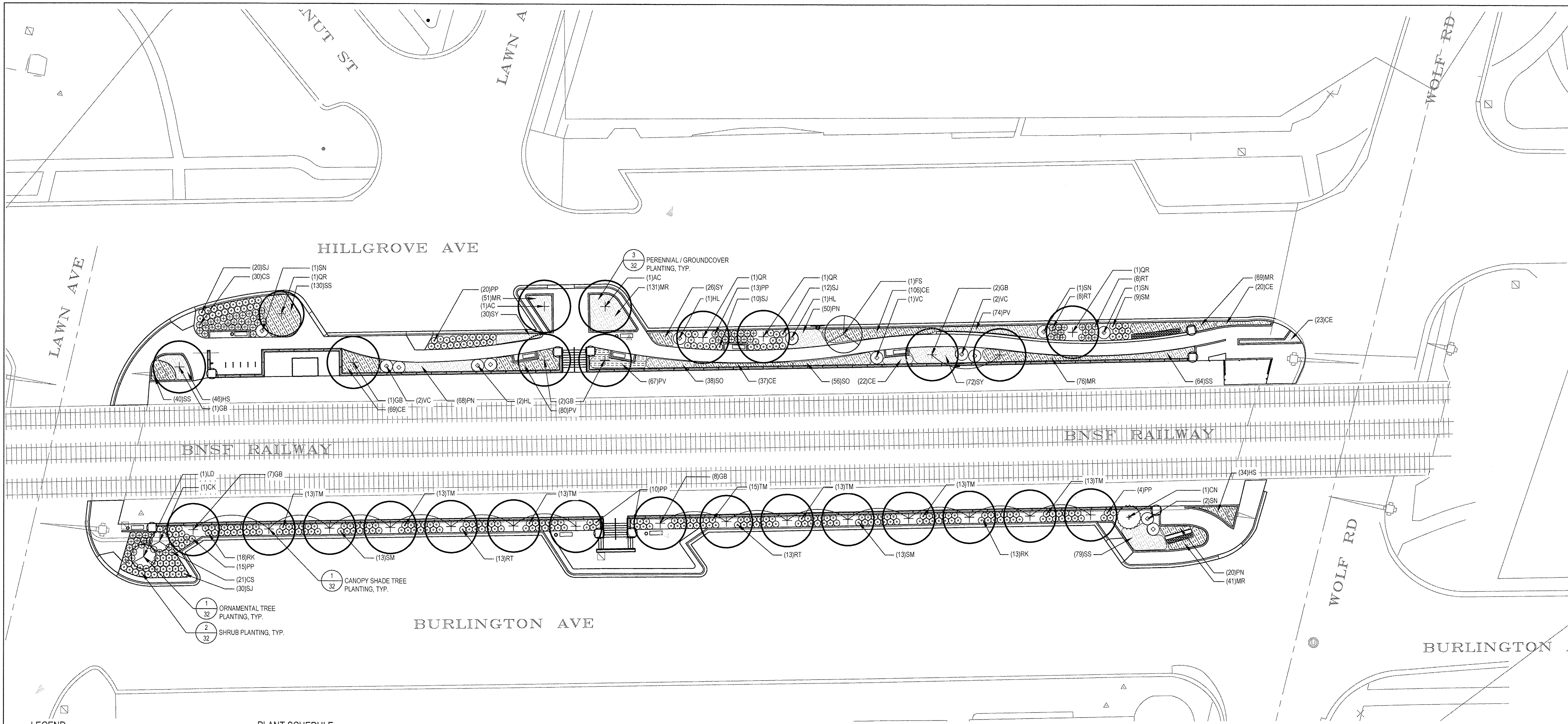
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	DATE —	REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
SITE DETAILS

SCALE: AS NOTED SHEET NO. 30 OF 58 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	30
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				



LEGEND

- CANOPY SHADE TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LARGE SHRUB
- SHRUB
- PERENNIAL / GROUNDCOVER

PLANT SCHEDULE

TAG	BASE BID QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
<b>SHADE TREES</b>						
AC	2	<i>Aesculus x carnea</i> 'Fort McHair'	Red Horsechestnut	8" cal.	-	Specimen, B&B
GS	21	<i>Ginkgo biloba</i> 'Princeton Sentry'	Princeton Sentry Ginkgo	3" cal.	-	Specimen, B&B
QR	4	<i>Quercus rubra</i>	Red Oak	5" cal.	-	Specimen, B&B
<b>ORNAMENTAL TREES</b>						
CK	1	<i>Cornus kousa</i>	Kousa Dogwood	8" ht.	-	Specimen, B&B
FS	1	<i>Fagus sylvatica</i> 'Tricolor'	Tricolor European Beech	12" ht.	-	Specimen, B&B
LD	1	<i>Larix decidua</i>	European Larch	5" cal.	-	Specimen, B&B
<b>EVERGREEN TREES</b>						
CN	1	<i>Chamaecyparis nootkatensis</i> 'Glauca Pendula'	Weeping Alaskan Cedar	12" ht.	-	Specimen, B&B
<b>EVERGREEN SHRUBS</b>						
PP	62	<i>Picea pungens</i> 'Globoosa'	Dwarf Globe Blue Spruce	#3	30" O.C.	Container
TM	93	<i>Taxus x media</i> 'Hicksii'	Hicksii Yew	#3	30" O.C.	Container
<b>DECIDUOUS SHRUBS</b>						
CS	51	<i>Cornus sanguinea</i> 'Winter Flame'	Bloodtwig Dogwood	#3	30" O.C.	Balled & Burlapped
HL	4	<i>Hydrangea paniculata</i> 'Little Quick Fire'	Little Quick Fire Hydrangea	#5	-	Container
RK	31	<i>Rosa 'Radrazz'</i>	Knockout Rose	#3	30" O.C.	Container
RT	42	<i>Rhus typhina</i> 'Baltiger'	Tiger Eyes Sumac	#5	30" O.C.	Container
SJ	72	<i>Spiraea japonica</i> 'Waltuna' Magic Carpet	Japanese Spirea	#3	30" O.C.	Container
SM	35	<i>Syringa meyeri</i> 'Palibin'	Drawl Korean Lilac	#3	30" O.C.	Container
SN	5	<i>Sambucus nigra</i> 'Eva' Black Lace	Black Lace Elderberry	#5	-	Container
VC	5	<i>Viburnum x 'Cayuga'</i>	Cayuga Viburnum	#5	-	Container

PERENNIALS AND GROUNDCOVER

CE	2.77	<i>Carex elata</i> 'Bowles Golden'	Bowles Golden Sedge	#1	15" O.C.	Pot
HS	0.8	<i>Hemerocallis</i> 'Stella de Oro'	Stella de Oro Daylily	#1	15" O.C.	Pot
MR	3.68	<i>Muhlenbergia</i> 'Crimson Fans'	Red Leaved Muhlenbergia	#1	15" O.C.	Pot
SO	0.94	<i>Stachys officinalis</i> 'Hummelo'	Betony	#1	15" O.C.	Pot
SS	3.13	<i>Salvia x sylvestris</i> 'Blue Queen'	Blue Queen Sage	#1	15" O.C.	Pot
<b>ORNAMENTAL GRASSES</b>						
SY	1.28	<i>Schizachyrium scoparium</i> 'Carousel'	Little Blue Stem 'Carousel'	#3	15" O.C.	Pot
PN	1.38	<i>Panicum virgatum</i> 'Northwind'	Northwind Switchgrass	#3	15" O.C.	Pot
PV	2.21	<i>Panicum virgatum</i> 'Prairie Fire'	Prairie Fire Red Switchgrass	#3	15" O.C.	Pot
<b>OTHER ITEMS</b>						
PM	372	Planting Mix	-	cyd	-	18" Depth
<b>CONTAINERS</b>						
-	18	Planting Mix (9 total containers)	-	cyd	-	-
-	4	Drainage Aggregate (9 total containers)	-	cyd	-	-
-	18	Geotextile Fabric (9 total containers)	-	syd	-	-

Notes: Plant Material in container shall be provided & installed by owner

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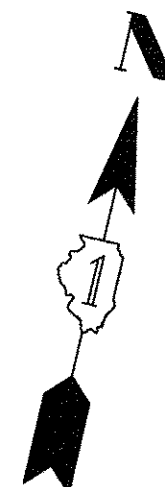
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PLOT SCALE =	DRAWN —	REVISED —	11-18-2016
PLOT DATE =	CHECKED —	REVISED —	
	DATE —	REVISED —	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
LANDSCAPE PLAN

SCALE: 1"=20' SHEET NO. 31 OF 58 SHEETS STA. TO STA.

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	

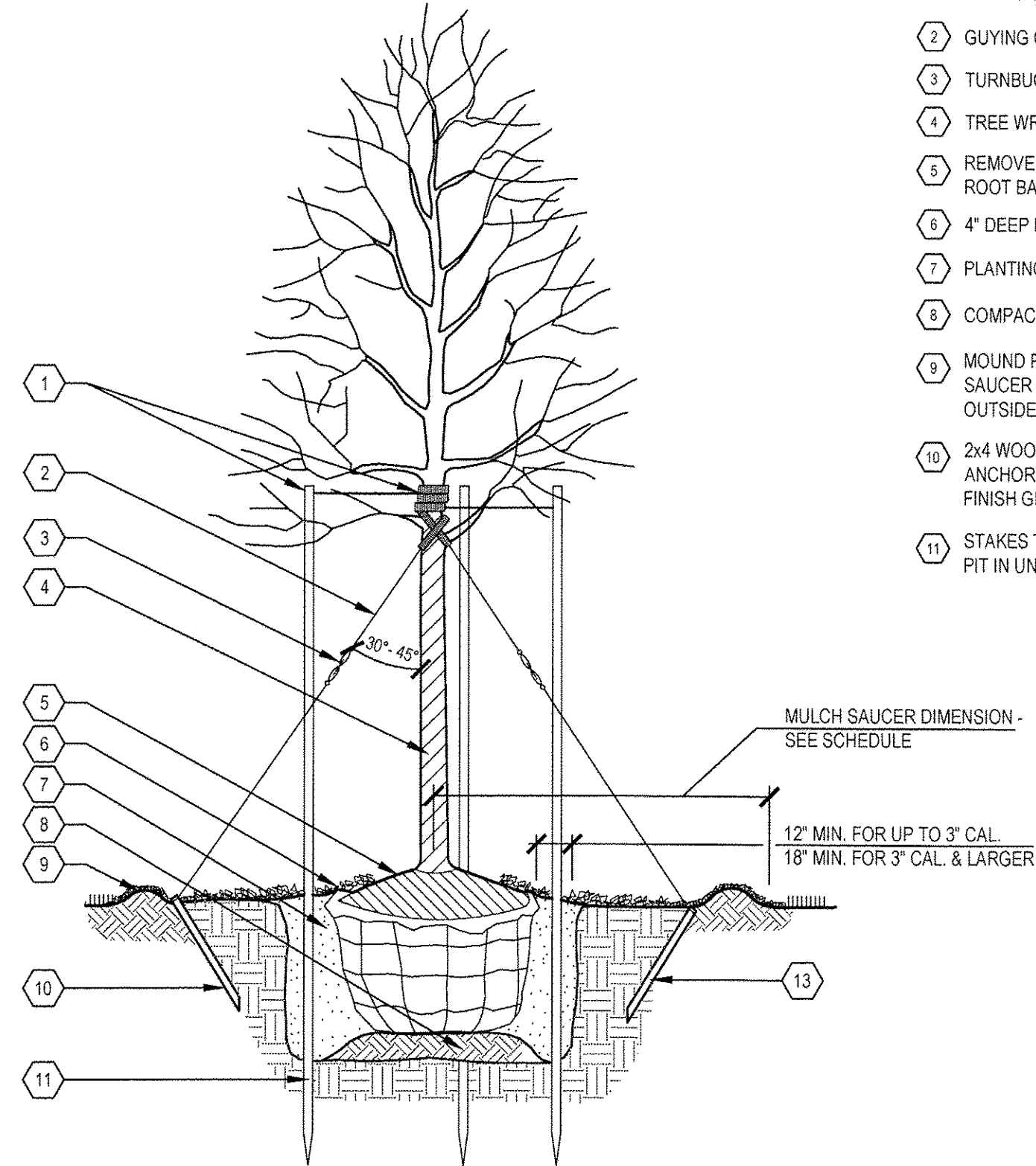


SCHEDULES

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• 2' CAL. & SMALLER	• DOUBLE STAKE	• 4' DIA.
• BETWEEN 2.5' & 3.5' CAL.	• TRIPLE STAKE	• 5' DIA.
• 4' CAL. - 6' CAL.	• TRIPLE GUY	• MIN. 8' DIA. - EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

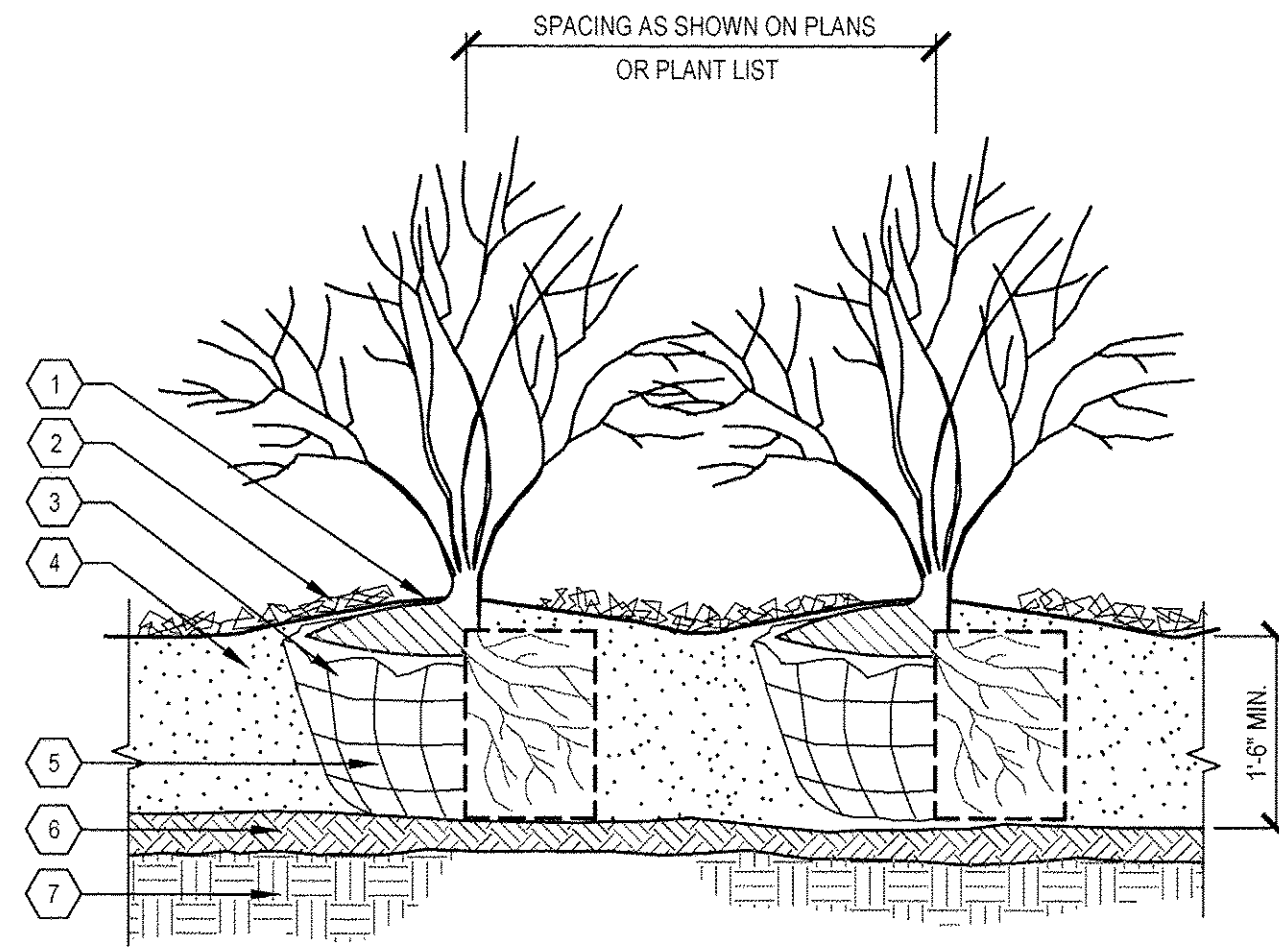
NOTES:  
NEWER CUT CENTRAL LEADERS PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

- 1 TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES. SET STAKES VERTICAL AND AT SAME HEIGHT
- 2 GUYING CABLE 3 GUYS PER TREE
- 3 TURNBUCKLE
- 4 TREE WRAP
- 5 REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL
- 6 4" DEEP MULCH. DO NOT COVER ROOT FLARE
- 7 PLANTING BACKFILL
- 8 COMPACTED PLANTING BACKFILL
- 9 MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
- 10 2x4 WOOD OR #3/16" METAL FENCE POST ANCHOR STAKE TO BE DRIVEN BELOW FINISH GRADE. MIN. LENGTH TO BE 24"
- 11 STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND



1 CANOPY SHADE TREE & ORNAMENTAL TREE PLANTING

SCALE: N.T.S.



2 SHRUB PLANTING

SCALE: N.T.S.

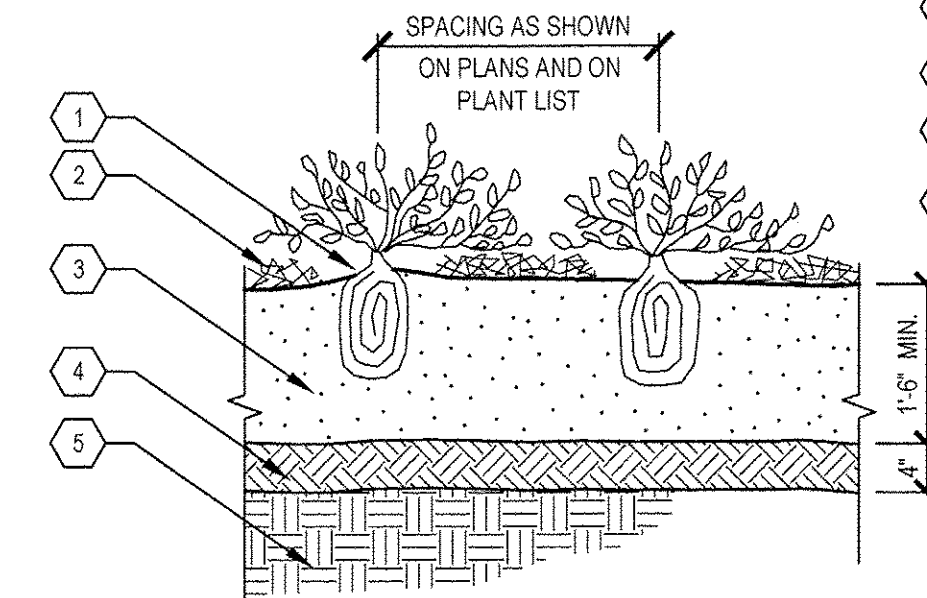
NOTES:  
• REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL, OR, WITH CONTAINER PLANTS, REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

• DO NOT PRUNE SHRUBS EXCEPT TO REMOVE DEAD OR BROKEN BRANCHES

- 1 SET ROOT FLARE CROWN OF BALL AT FINISHED GRADE
- 2 4" DEEP MULCH. DO NOT COVER ROOT FLARE
- 3 BALLED AND BURLAPPED SHRUB
- 4 PLANT BED MIX
- 5 BARE ROOT OR CONTAINER SHRUB
- 6 SCARIFY TO 4" DEPTH AND RECOMPACT.
- 7 SUBGRADE - SLOPE TO FOLLOW FINISH GRADES TO MAINTAIN UNIFORM PLANT BED MIX DEPTH

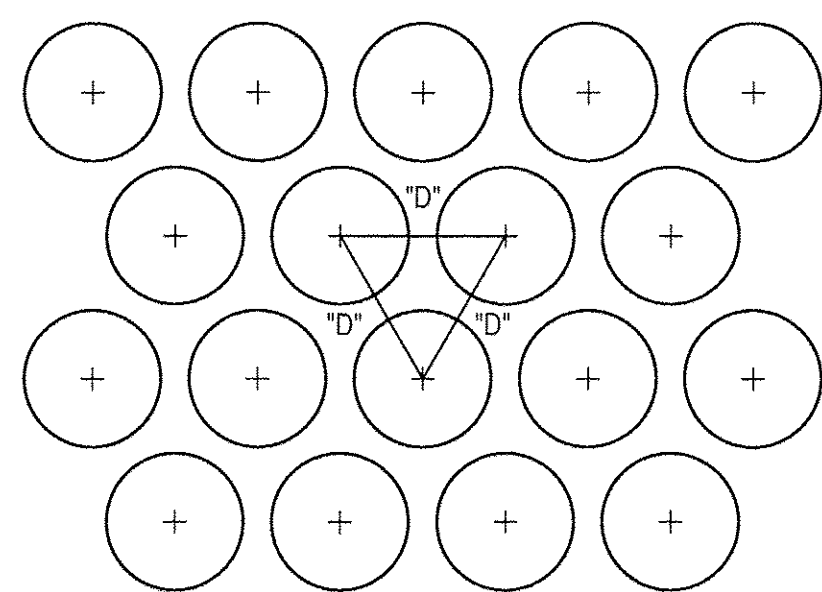
NOTE:  
CONTAINER PLANTS: REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.

- 1 SET ROOT FLARE (COLLAR) AT FINISHED GRADE
- 2 2" DEEP MULCH. DO NOT COVER ROOT FLARE
- 3 PLANT BED MIX
- 4 SCARIFY TO 4" DEPTH AND RECOMPACT
- 5 SUBGRADE



3 PERENNIAL / GROUNDCOVER PLANTING

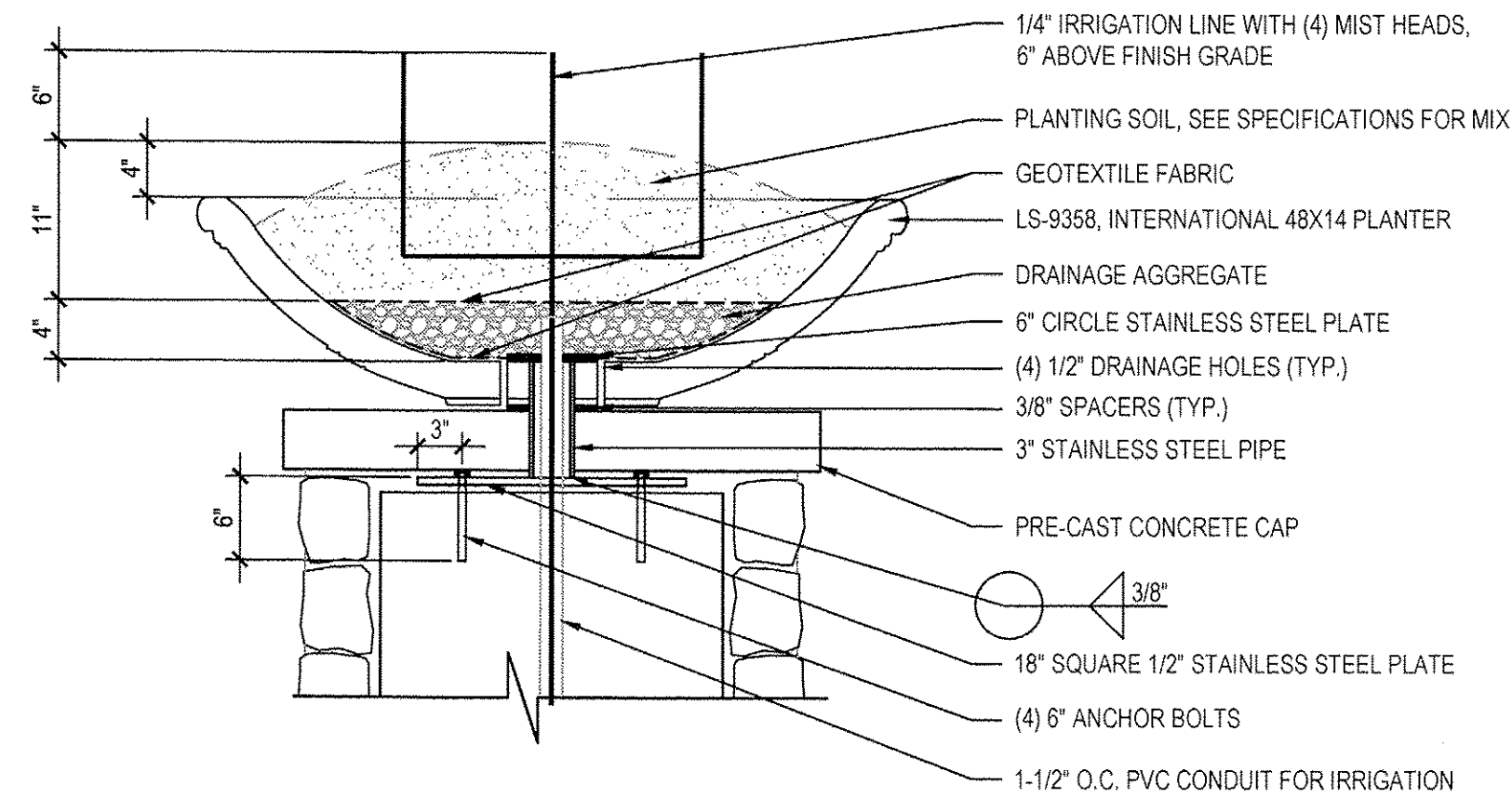
SCALE: N.T.S.



D=DIMENSION OF PLANT SPACING (SHRUB, GROUNDCOVER OR PERENNIAL) AS INDICATED ON PLANS.

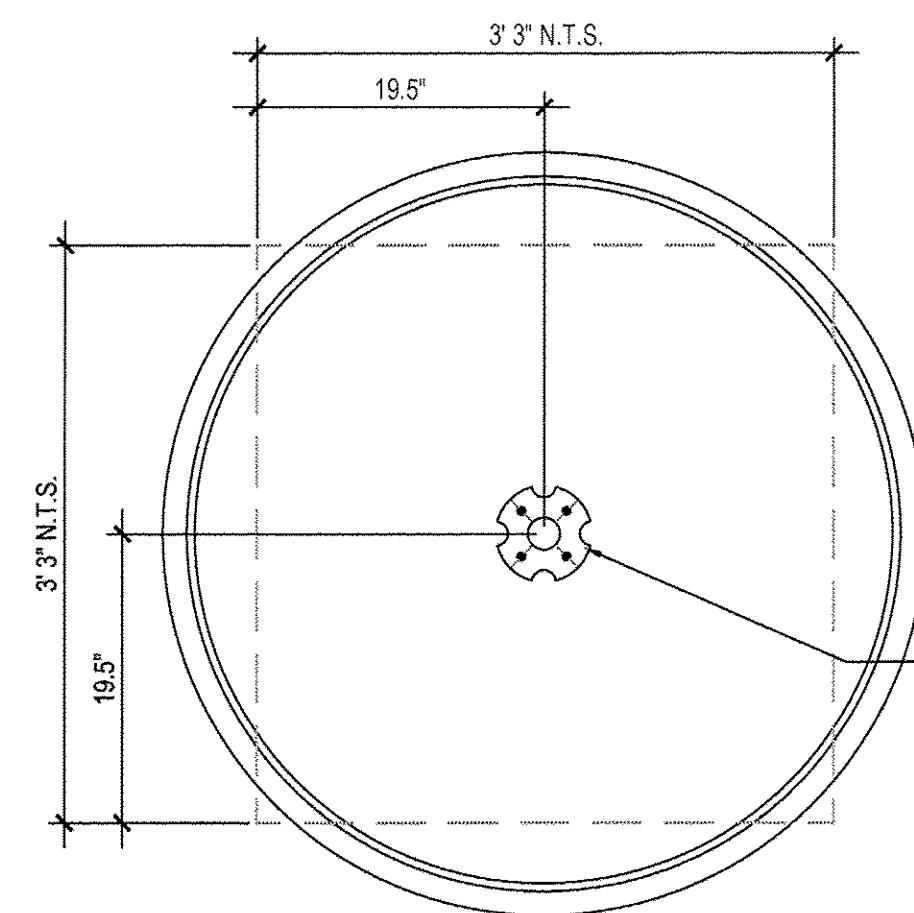
4 TYPICAL PLANT SPACING

SCALE: N.T.S.

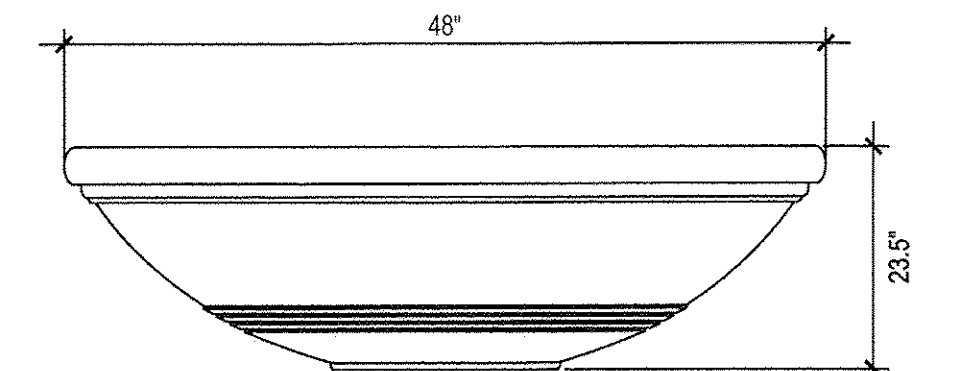


5 PLANTER BOWL

SCALE: N.T.S.



6" CIRCLE STAINLESS STEEL PLATE, 1-1/2" HOLE IN CENTER FOR CONDUIT, 1" CUT OUTS ON EDGE FOR DRAINAGE



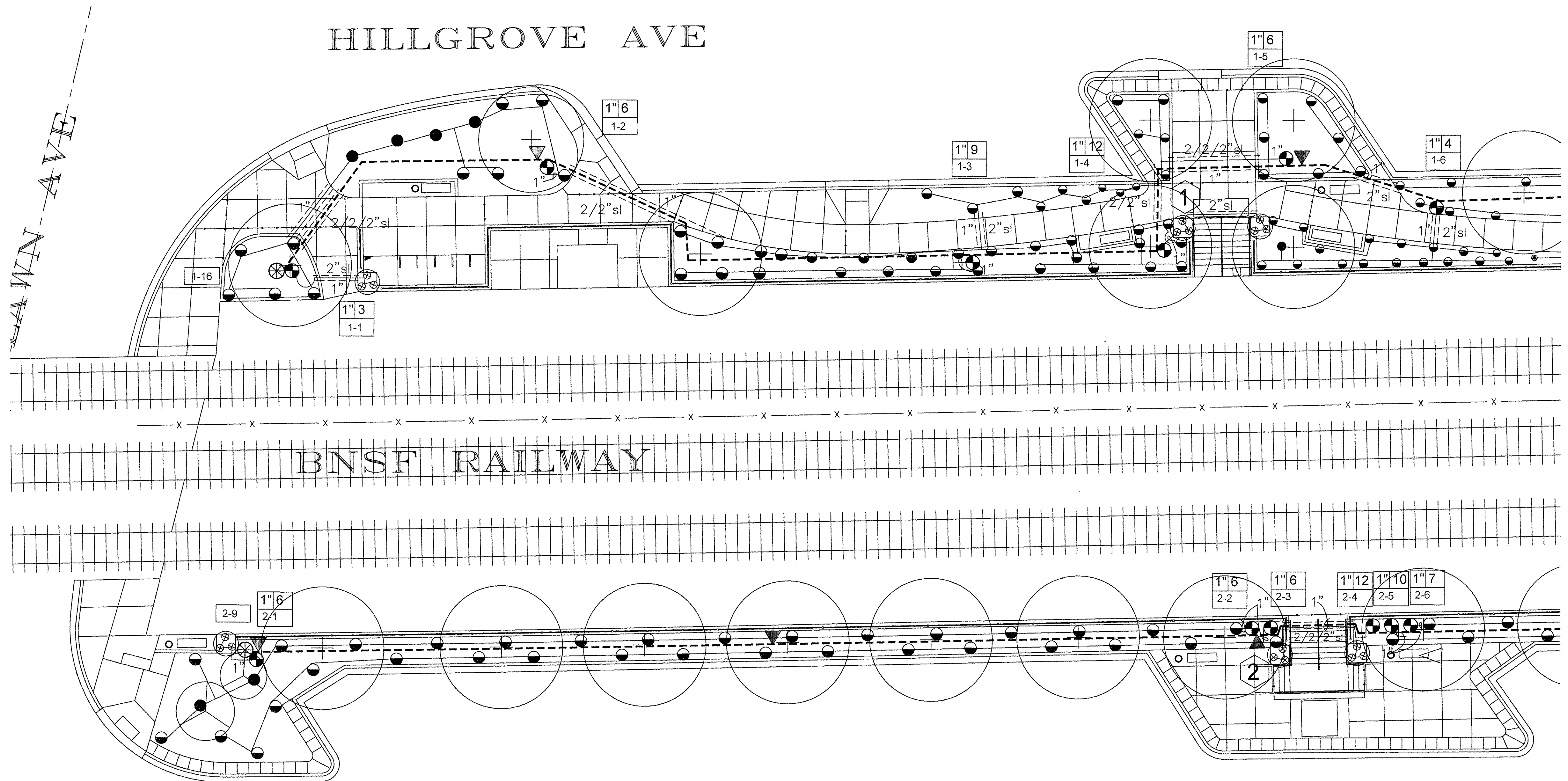
CLASSIC GARDEN ORNAMENTS, LTD. LONGSHADOW PLANTERS PLANTER: LS-9559, INTERNATIONAL 48" X 23.5" PLANTER FINISH: KAFFE-INTEGRAL, LS0038

USER NAME =	DESIGNED --	REVISED -- 30% 1-06-2016
PLOT SCALE =	DRAWN --	REVISED -- 60% 2-02-2016
PLOT DATE =	CHECKED --	REVISED -- 90% 3-04-2016
	DATE --	REVISED -- 95% 4-27-2016

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	



# HILLGROVE AVE



## LEGEND

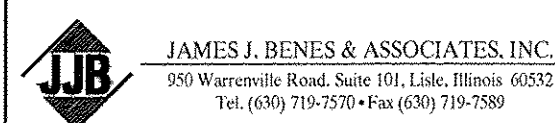
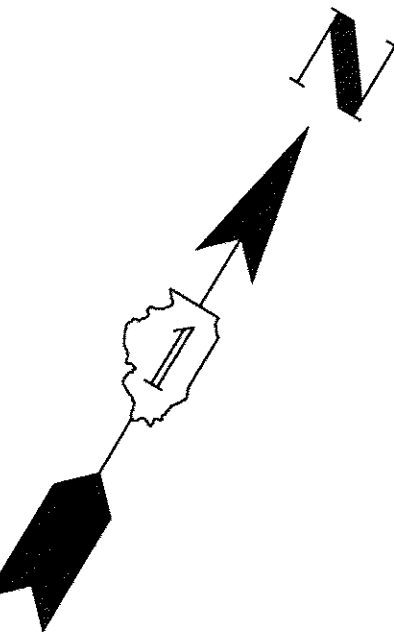
- ⊗ Shrub Adapter w/ Multi-Stream Bubbler Nozzle  
Full Circle, 1.0 gpm; 30psi Regulated
- ⊙ 12" Spray head with 5-CST-B Dual Stream Bubbler Nozzle  
30 psi- 0.38gpm
- 12" Spray head  
Full Circle - Nozzles vary, 30 psi
- ◐ 12" Spray head  
Part Circle - Nozzles vary, 30 psi
- - - CL 200 PVC PIPE - Mainline, sizes vary
- 1" & 1 1/2" HD100 PE PIPE
- ① ② CONTROLLER - Exterior Wall Mount w/Metal Cabinet  
Contractor responsible for providing power from tap area to controller  
Coordinate with owner for mounting location, install and ground to manufacturer's recommendations  
Provide (1) WIRELESS RAIN/FREEZE CLIK PER CONTROLLER;  
Coordinate with owner on exterior wall mounting location  
Controller 1: 18 Station; Controller 2: 12 Station
- ⊠ ISOLATION GATE VALVE - Size to pipe
- ▼ 3/4" Quick Coupler with Locking Cover  
Provide owner with two Valve Keys and Hose Swivels, HK-33 key and HS-0 Hose Swivel
- ⊕ 1" ELECTRIC VALVES
- ⊠ BLOW OUT TAP
- △ 1" POINT OF CONNECTION
- ⊠ RPZ/ BACKFLOW
- ⊗ Extra wire drop
- 2" Pipe size
- - - PVC Class 200 Sleeve - Size per plan
- 4" / 2" Sleeve/Bore
- ┌ Wire Sleeve Size
- └ Pipe Sleeve
- Valve Size
- Zone GPM
- Zone GPM
- Station Number
- Controller Number
- Pulse Wire Color Code #16 ga.:
- Valve #

Red	11	5	9	13	17	21	25	29
Yellow	26	30	34	38	42	46	50	54
Orange	57	61	65	69	73	77	81	85
Purple	88	92	96	100	104	108	112	116

- White - Common #16 ga.

## GENERAL IRRIGATION NOTES

1. CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
2. MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
3. COORDINATE ELECTRICAL HOOKUP WITH GENERAL CONTRACTOR, ELECTRICIAN AND OWNER
4. COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR  
IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION
5. IRRIGATION HEADS AND LINES ARE SCHEMATIC - FIELD ADJUSTMENTS MAY BE REQUIRED
6. CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
7. INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS
8. MAINLINE PIPING SHALL BE INSTALLED AT MINIMUM OF 10" TO THE TOP OF PIPE.  
LATERAL LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 10"
9. THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.  
-SPICES ARE NOT ALLOWED IN THE TRENCH.  
-PROVIDE A 24" EXPANSION LOOP AT EACH CHANGE IN DIRECTION.  
-5 FEET OF EXCESS DECODER WIRE IS TO BE AT EACH DECODER LOCATION FOR EASE OF ACCESS.
11. THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
12. UPON COMPLETION OF TEST, COMPLETE ASSEMBLY OF ALL EQUIPMENT AND SPRINKLERS FOR PROPER DISTRIBUTION.
13. PROVIDE 'AS BUILT' DRAWINGS SHOWING ALL COMPONENTS OF THE SYSTEM PRIOR TO FINAL PAYMENT.  
PROVIDE FINAL GPM OF ZONES, WIRE RUNS, HEADS, VALVES, PIPE SIZES ETC...
14. SLEEVE UNDER ROAD, WALLS, PAVERS, AND DRIVES  
-SLEEVE WIRE AND PIPING SEPARATELY, SEE PLAN FOR SIZING  
-ALL WIRING TO BE SLEEVED IN A MINIMUM 2" SLEEVE
15. ALL GASKETED PRESSURE PIPE AND FITTINGS SHALL BE THRUST BLOCKED.  
NO CONCRETE PREFORMED BLOCKS WILL BE ALLOWED.
16. ALL EXISTING UTILITIES WHICH ARE NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
17. ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE PRIOR TO SUBMITTING A BID.
18. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS
19. STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT \_\_\_PSI, NOTIFY OWNER.



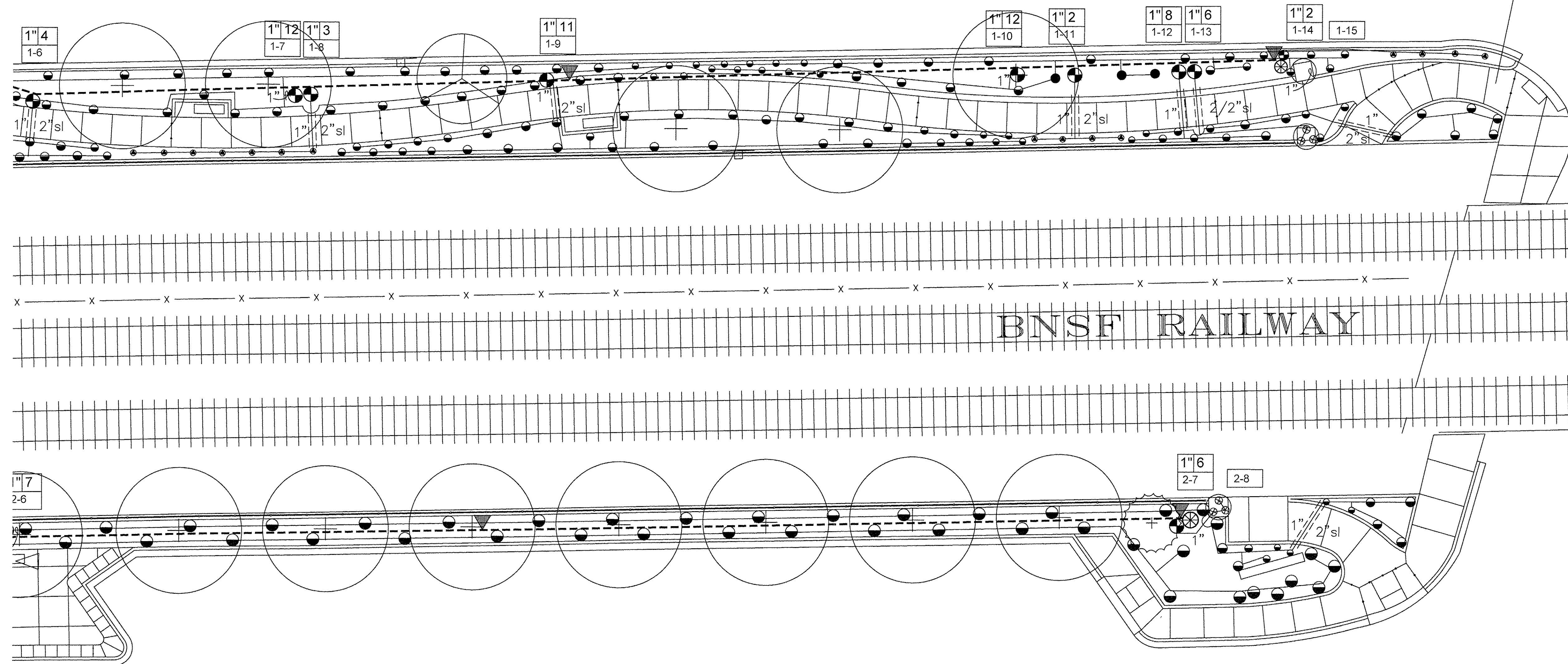
USER NAME =	DESIGNED — AMA	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — AMA	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — DPF	REVISED — 90% 3-04-2016
	DATE — 06-17-2016	REVISED — 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
IRRIGATION PLAN

SCALE: 1"=10' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D18	



**LEGEND**

- ⊗ Shrub Adapter w/ Multi-Stream Bubbler Nozzle  
Full Circle, 1.0 gpm; 30psi Regulated
- ⊙ 12" Spray head with 5-CST-B Dual Stream Bubbler Nozzle  
30 psi- 0.38gpm
- 12" Spray head  
Full Circle - Nozzles vary, 30 psi
- ◐ 12" Spray head  
Part Circle - Nozzles vary, 30 psi
- - - CL 200 PVC PIPE - Mainline, sizes vary
- 1" & 1 1/2" HD100 PE PIPE
- ① ② CONTROLLER - Exterior Wall Mount w/Metal Cabinet  
Contractor responsible for providing power from tap area to controller  
Coordinate with owner for mounting location, install and ground to manufacturer's recommendations  
Provide (1) WIRELESS RAIN/FREEZE CLIK PER CONTROLLER;  
Coordinate with owner on exterior wall mounting location  
Controller 1: 18 Station; Controller 2: 12 Station
- ⊠ ISOLATION GATE VALVE - Size to pipe
- ▼ 3/4" Quick Coupler with Locking Cover  
Provide owner with two Valve Keys and Hose Swivels, HK-33 key and HS-0 Hose Swivel
- ⊕ 1" ELECTRIC VALVES
- ⊠ BLOW OUT TAP
- △ 1" POINT OF CONNECTION
- ⊠ RPZ/ BACKFLOW
- ⊗ Extra wire drop
- 2" Pipe size
- - - PVC Class 200 Sleeve - Size per plan
- 4" / 2" Sleeve/Bore
- ┌ Wire Sleeve Size
- └ Pipe Sleeve

Valve Size

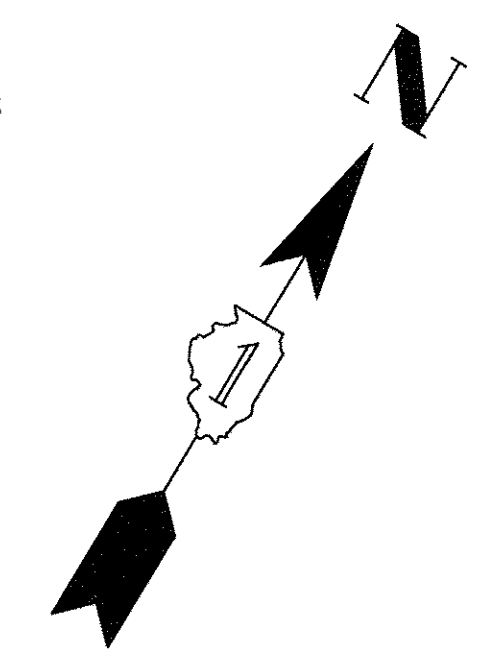
1" 35	Zone GPM
1-24	Zone GPM
	Station Number
	Controller Number

Pulse Wire Color Code #16 ga.:

Valve #	Color
115 1 9 11 13 17 21 25 29	Red
2 6 10 14 18 22 26 30	Yellow
3 7 11 15 19 23 27 31	Orange
4 8 12 16 20 24 28 32	Purple
	White - Common #16 ga.

**GENERAL IRRIGATION NOTES**

- CONTACT ALL UTILITIES AND GENERAL CONTRACTOR AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
- MAINTAIN ALL CODES REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE ELECTRICAL HOOKUP WITH GENERAL CONTRACTOR, ELECTRICIAN AND OWNER
- COORDINATE ALL SLEEVES AND PENETRATIONS WITH GENERAL CONTRACTOR  
IRRIGATION CONTRACTOR IS RESPONSIBLE FOR BORES, SLEEVES OR PENETRATIONS RELATED TO THE IRRIGATION
- IRRIGATION HEADS AND LINES ARE SCHEMATIC - FIELD ADJUSTMENTS MAY BE REQUIRED
- CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT DEBRIS IN THE LINE.
- INSTALL ALL PIPING AND FITTINGS USING GLUE METHODS CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS
- MAINLINE PIPING SHALL BE INSTALLED AT MINIMUM OF 10" TO THE TOP OF PIPE.  
LATERAL LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 10"
- THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS.
- INSTALL WIRES A MIN. OF 8" BELOW GRADE.  
- SPLICES ARE NOT ALLOWED IN THE TRENCH.  
- PROVIDE A 24" EXPANSION LOOP AT EACH CHANGE IN DIRECTION.  
- 5 FEET OF EXCESS DECODER WIRE IS TO BE AT EACH DECODER LOCATION FOR EASE OF ACCESS.
- THE IRRIGATION SYSTEM SHALL BE TESTED AT OPERATING PRESSURE FOR A MINIMUM OF 4 HOURS. REPAIR ALL LEAKS AND RETEST AFTER CURING.
- UPON COMPLETION OF TEST, COMPLETE ASSEMBLY OF ALL EQUIPMENT AND SPRINKLERS FOR PROPER DISTRIBUTION.
- PROVIDE 'AS BUILT' DRAWINGS SHOWING ALL COMPONENTS OF THE SYSTEM PRIOR TO FINAL PAYMENT.  
PROVIDE FINAL GPM OF ZONES, WIRE RUNS, HEADS, VALVES, PIPE SIZES ETC...
- SLEEVE UNDER ROAD, WALLS, PAVERS, AND DRIVES  
- SLEEVE WIRE AND PIPING SEPARATELY, SEE PLAN FOR SIZING  
- ALL WIRING TO BE SLEEVED IN A MINIMUM 2" SLEEVE
- ALL GASKETED PRESSURE PIPE AND FITTINGS SHALL BE THRUST BLOCKED.  
NO CONCRETE PREFORMED BLOCKS WILL BE ALLOWED.
- ALL EXISTING UTILITIES WHICH ARE NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
- ALL BIDDERS SHALL VISIT AND REVIEW THE SITE AND FAMILIAR THEMSELVES WITH THE SITE THE SITE PRIOR TO SUBMITTING A BID.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND ACQUIRING ALL PERMITS
- STATIC PRESSURE READ, PROVIDED BY OTHERS. IF PSI IS NOT \_\_\_\_ PSI, NOTIFY OWNER.



**J.B.** JAMES J. BENES & ASSOCIATES, INC.  
950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
Tel. (630) 719-7570 • Fax (630) 719-7589

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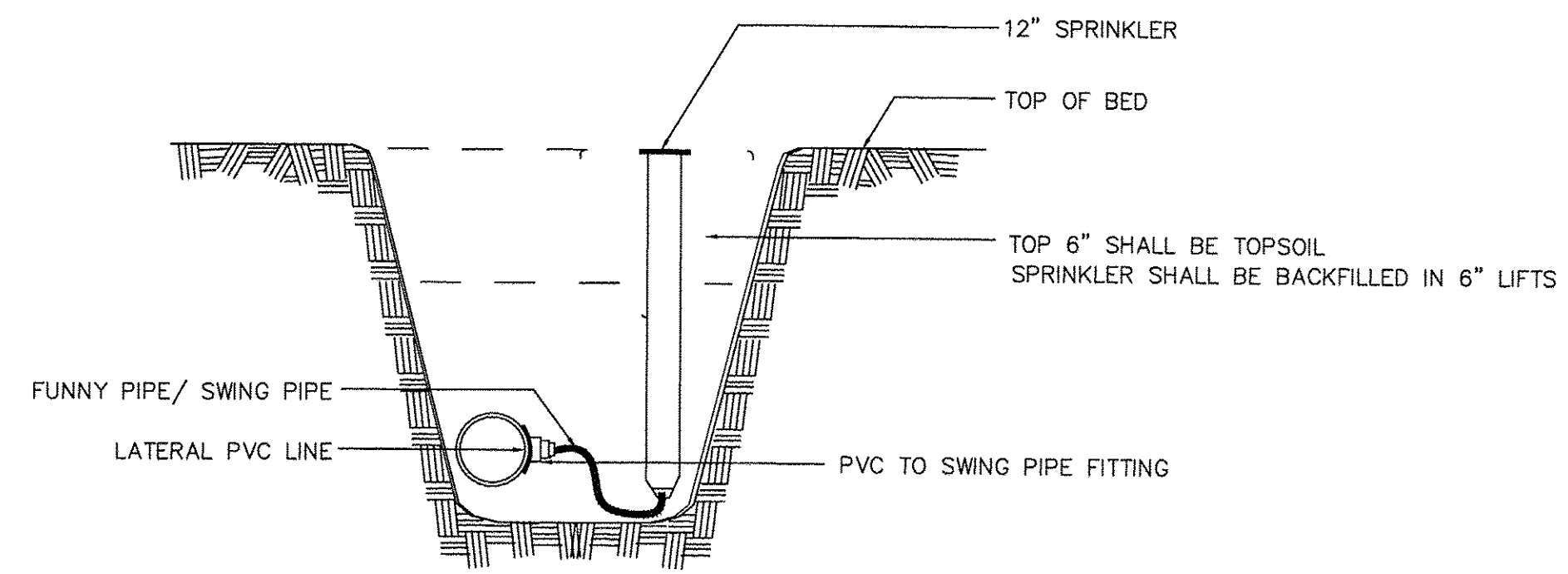
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST PLATFORM RECONSTRUCTION  
IRRIGATION PLAN**

SCALE: 1" = 10'

SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

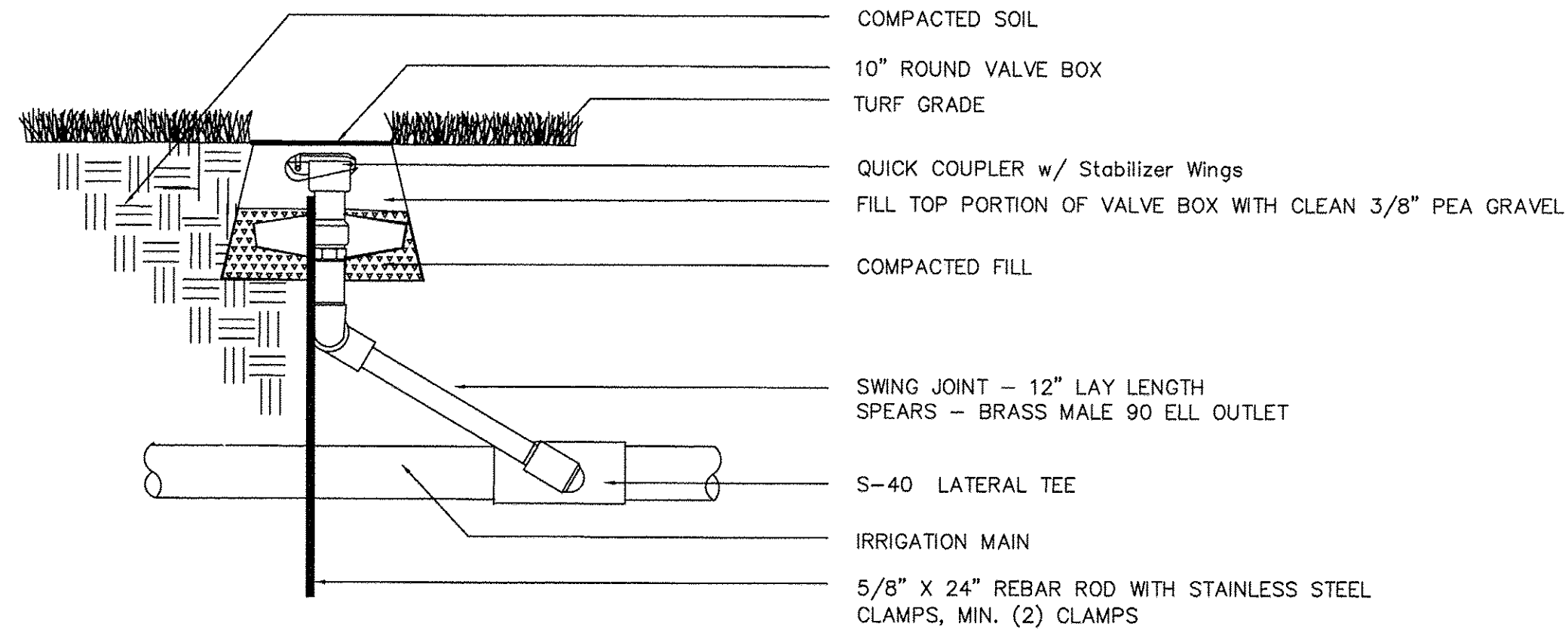
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	34
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				



Contractor may use pre-manufactured swing joints in place of flex piping

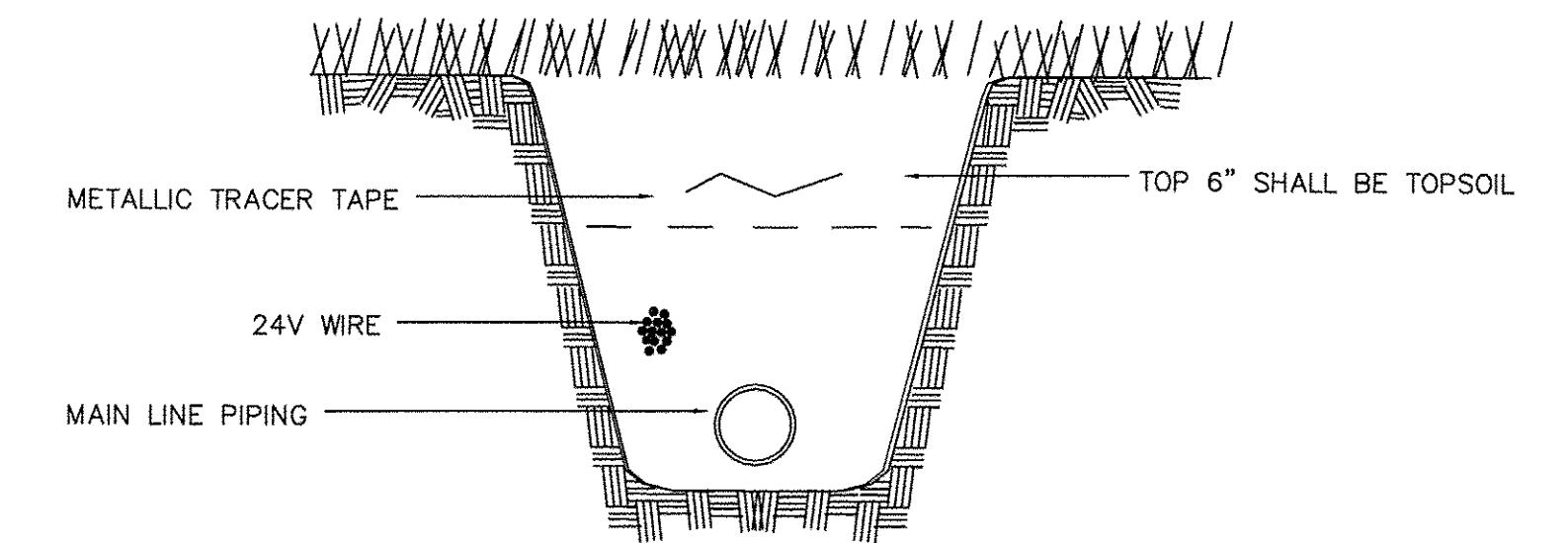
1 12" SPRAY HEAD

NO SCALE



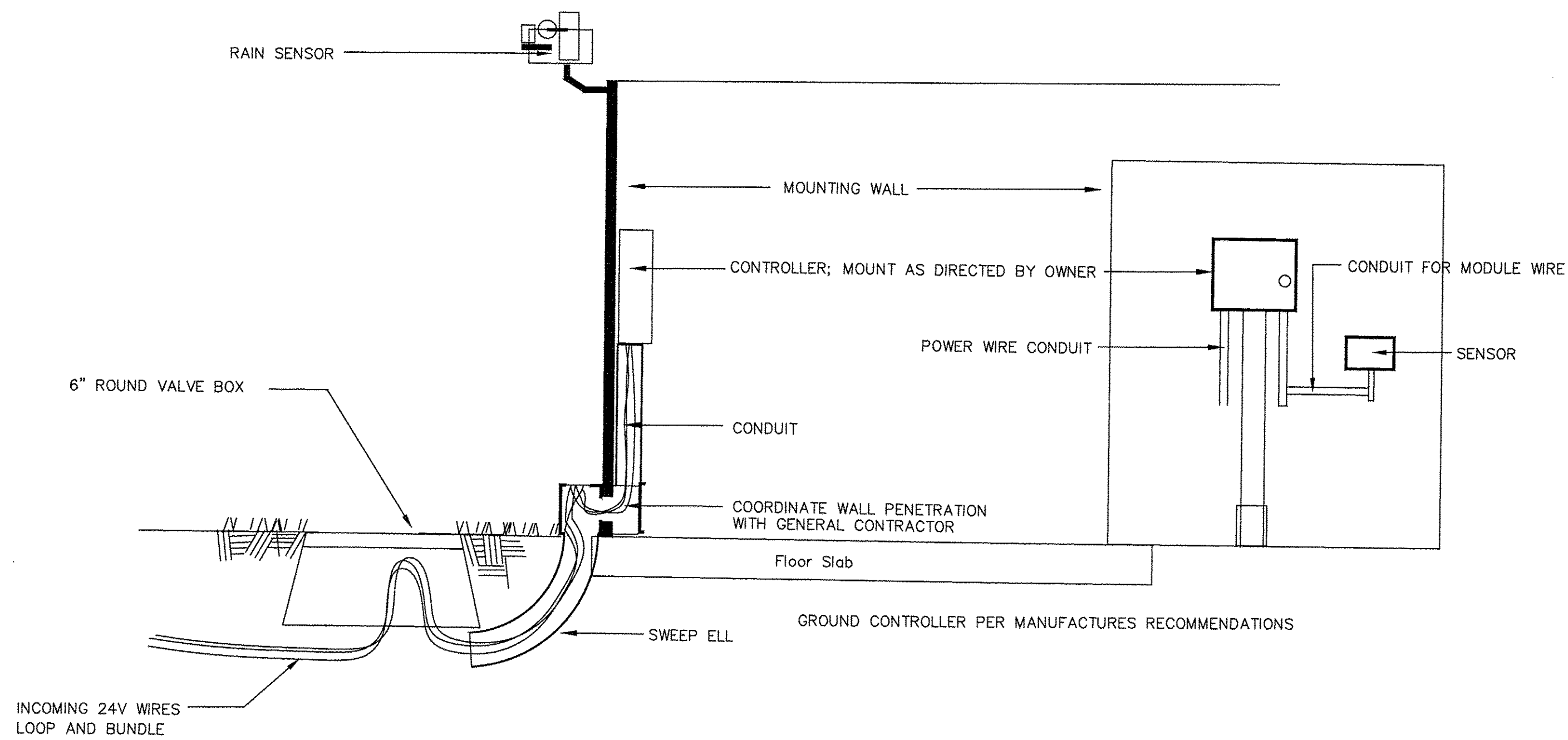
2 QUICK COUPLER VALVE

NO SCALE



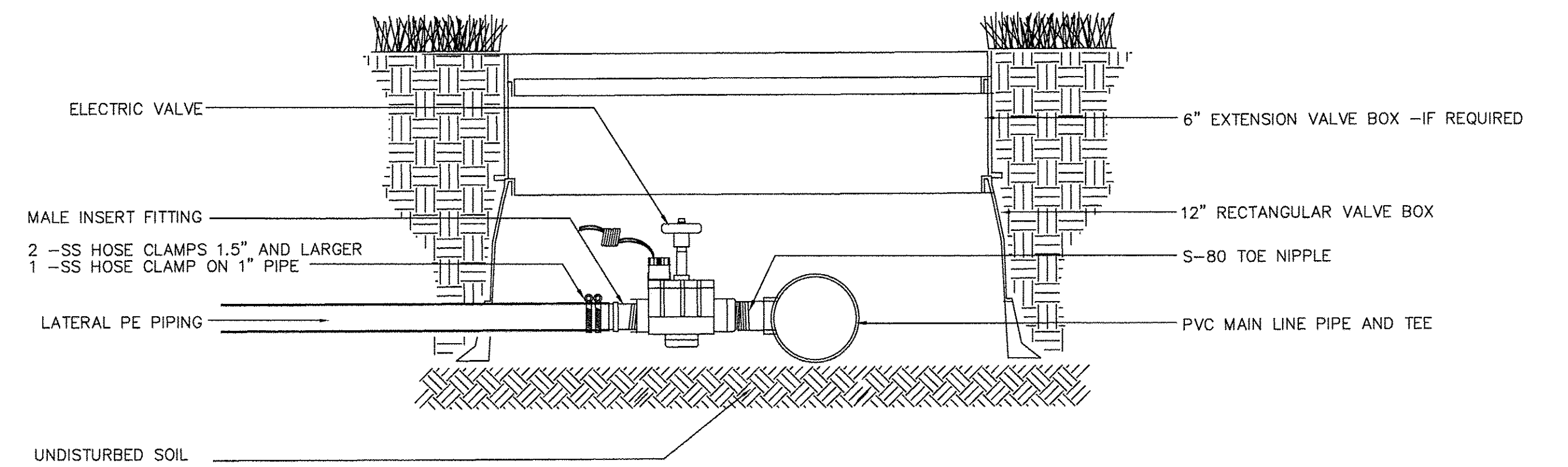
3 WIRE TRENCH

NO SCALE



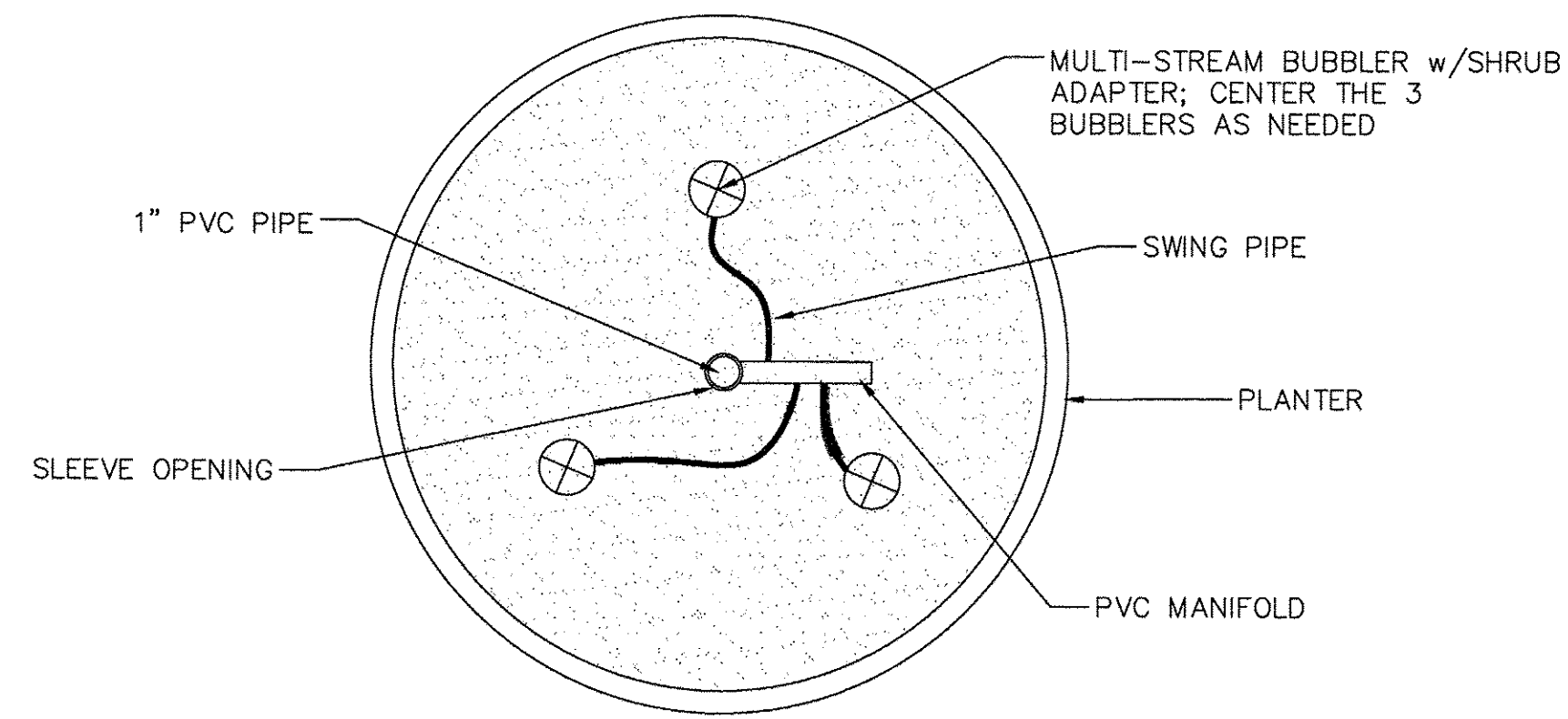
4 CONTROLLER MOUNT WITH RAIN SENSOR

NO SCALE

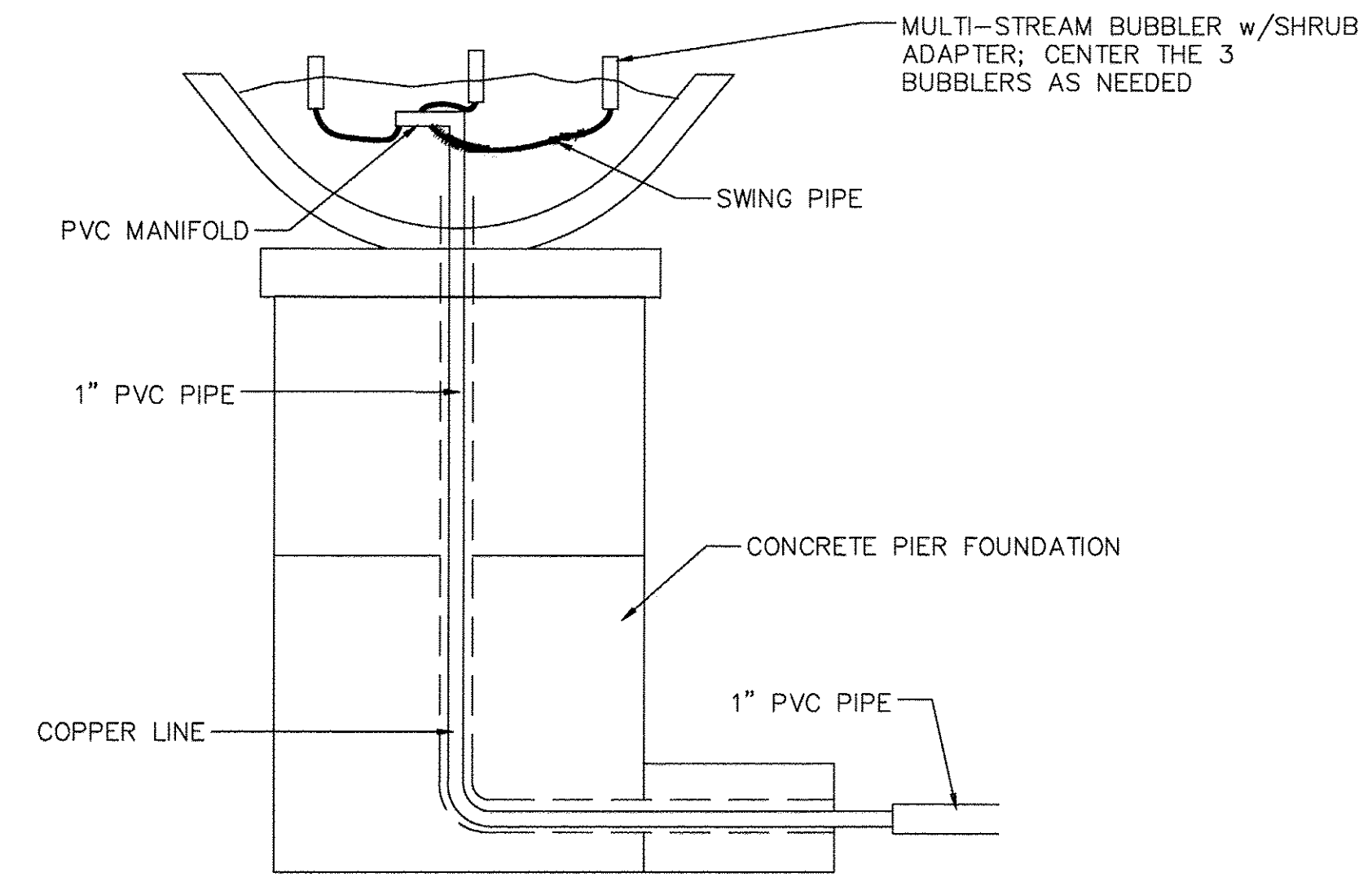


5 ELECTRIC VALVE

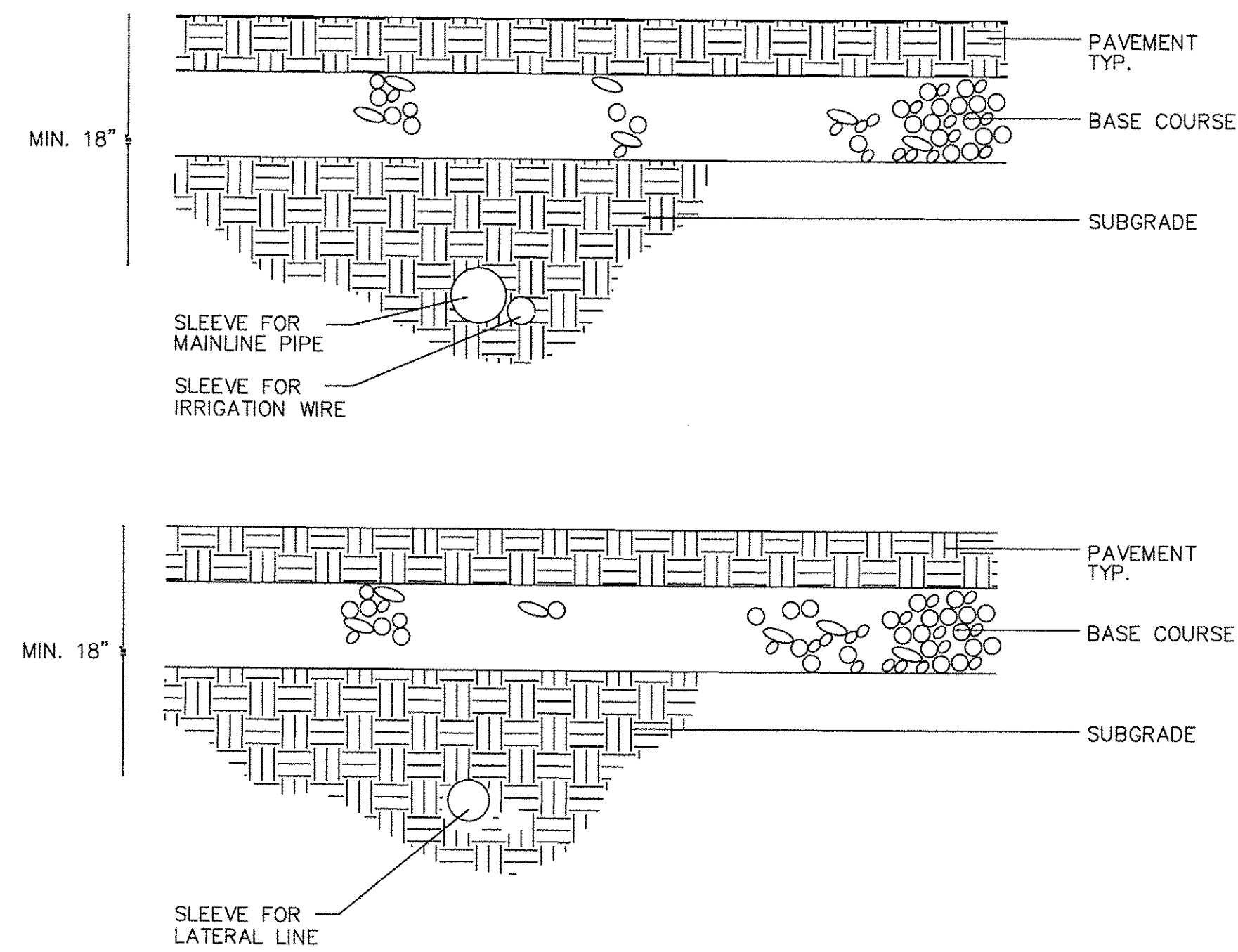
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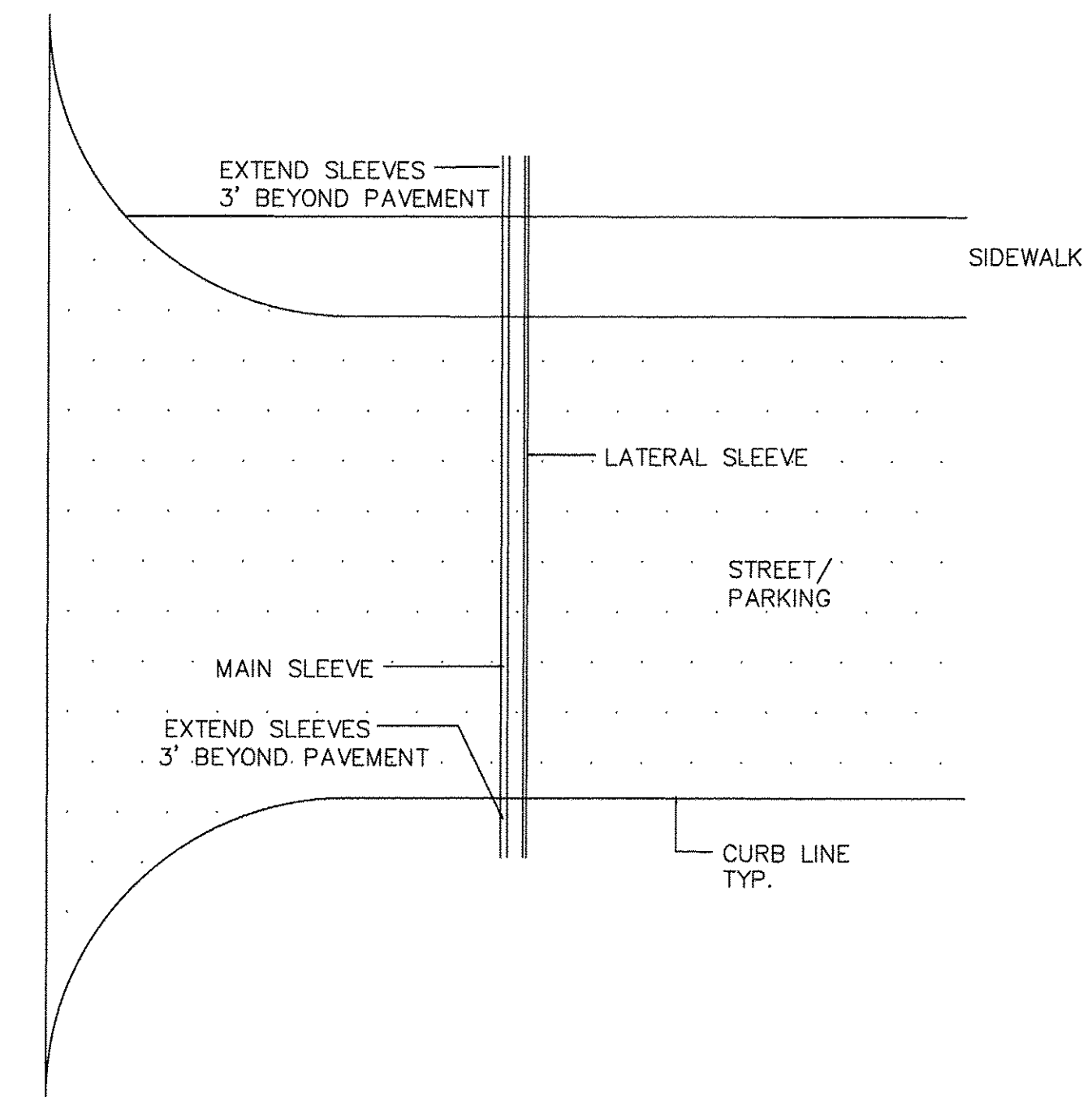
**1** **PLANTER PLAN VIEW** NO SCALE



**2** **PLANTER SIDE VIEW** NO SCALE



**3** **SLEEVING** NO SCALE

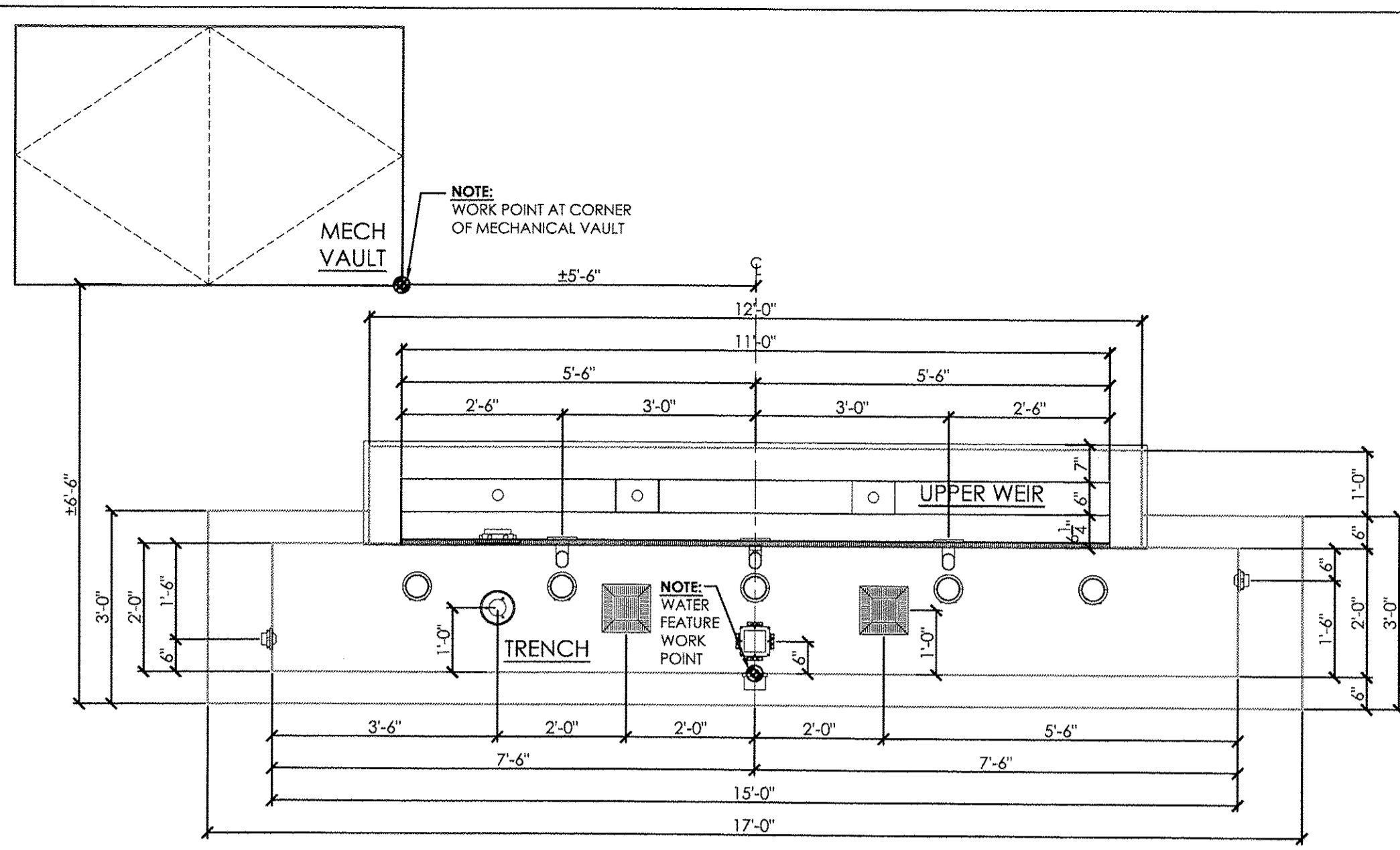


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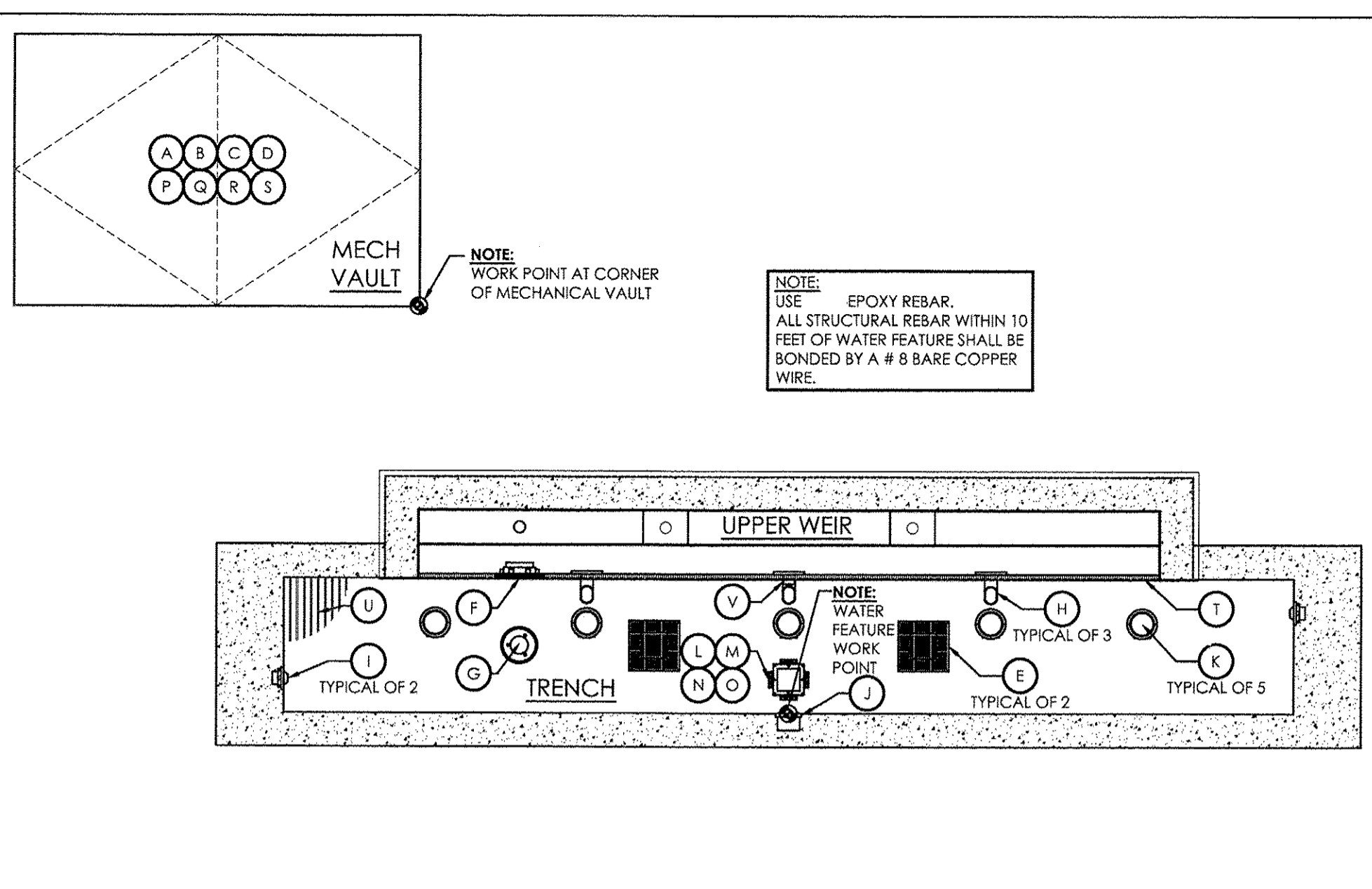
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	36
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

**WESTERN SPRINGS - SOUTH SIDE  
EQUIPMENT LIST**

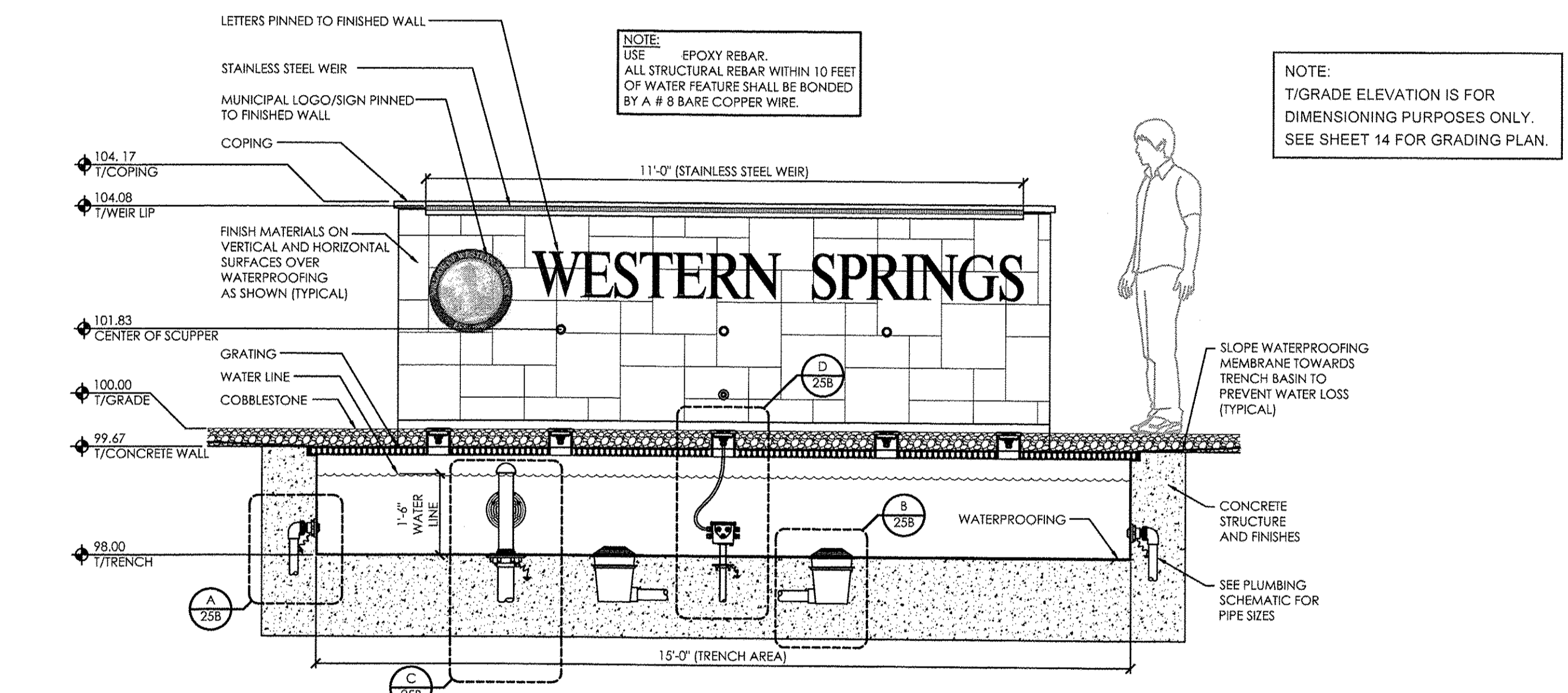
ITEM	DESCRIPTION	QTY.
A	4'-0" x 4'-0" DIRECT BURIAL HEAVY-DUTY FOAM CORE FIBERGLASS VAULT, UNIT TO BE SUPPLIED WITH 1/2 HP SUMP PUMP, NEMA 4 ENCLOSURE CONTROL PANEL, THERMOSTAT CONTROLLER, VENTILATION FAN (25 CFM PER HORSEPOWER), ALL REQUIRED PUMPS & FILTER, WITH UTILITY OUTLET AND (2) DOOR 36" x 48" ALUMINUM LOCKABLE HATCH LID. ALL PLUMBING & ELECTRICAL EQUIPMENT WILL BE PRE-WIRED & PRE-PLUMBED	1
B	1 HP FEATURE/FILTER PUMP, 208 VOLT, THREE PHASE, 4.5 FULL LOAD AMPS, BUILT-IN STRAINER POT AND VOLUTE, 11.5 GPM @ 25' HEAD	1
C	50 SQ FT CARTRIDGE FILTER, 50 GPM, FILTER EASY SPIN ON UNION VALVES.	1
D	EROSIONS STYLE CHEMICAL FEEDER, SIZED TO SUIT APPLICATION	1
E	9" x 9" BLACK MAIN SUCTION SUMP WITH SIDE PORT, BLACK FRAME AND VGB GRATE - CUSTOM FABRICATION - FAB, ACCORDING TO DETAIL	2
F	INLET SLEEVE FITTING WITH FLAT GRATE, CONSTRUCTION SHALL BE CAST BRONZE WITH STAINLESS STEEL FASTENERS, 3" INLET CONNECTION	1
G	COMBINATION OVERFLOW AND POOL DRAIN BODY WITH REVERSIBLE CLAMP COLLAR, ADJUSTABLE EXTENSION, TAPERED WATERTIGHT SLIP CONNECTION AND VENTED DOME SHALL ALL BE CAST BRONZE WITH COPPER STANDPIPE AND STAINLESS STEEL FASTENERS, 4" INLET CONNECTION	1
H	DECORATIVE SPOUT TYPE SCUPPER, CAST BRONZE WITH POLISHED NICKEL FINISH, 2 1/2" INLET FEMALE N.P.T. CONNECTION/W/ABS SOCKET	3
I	EYEBALL INLET FITTING, CONSTRUCTION SHALL BE CAST BRONZE WITH STAINLESS STEEL FASTENERS, 1 1/2" N.P.T. INLET CONNECTION	2
J	24V AC/DC WALL MOUNTED ELECTRONIC WATER LEVEL SENSOR, MONITORS QUICK FILL AND SAFE OFF FUNCTIONS, WITH WATERSTOP SUBSURFACE FLANGE, BOTTOM CONNECTION, LOW VOLTAGE, CAST BRONZE	1
K	12VDC / 30 WATT HIGH FIDELITY SUBMERSIBLE COMPACT LED LIGHT FIXTURE, COMES COMPLETE WITH PRE-ASSEMBLED 304 STAINLESS STEEL STAND; TILTS 45°; EQUIPPED WITH 3 GROUPS OF 3 LEDS COVERED BY AN OPTICAL CLEAR LENS; SUITABLE FOR WET LOCATIONS; 9FT 18/3 STW CABLE	5
L	12 POSITION JUNCTION BOX, BODY SHALL BE CAST BRONZE WITH NEOPRENE COVER GASKET, STAINLESS STEEL FASTENERS AND INTERNAL GROUND CONNECTION, BOTTOM HUB = 1 1/2", SIDE HUBS A=B=C=D=E=F=G=H=I=J=K=L=1 1/2"	1
M	ELECTRICAL STUB UP, STUB UP PIPE SHALL BE RED BRASS WITH CAST BRONZE FLANGE SOLDERED TO PIPE AND STAINLESS STEEL FASTENERS	1
N	CORD SEALS, THREADED CONNECTOR, COMPRESSION NUT AND FRICTION WASHER SHALL BE CAST BRONZE WITH NEOPRENE MOLDED COMPRESSION SEAL	5
O	POTTING COMPOUND, WATERPROOF GEL, WIRE CONNECTION SEALANT	8
P	3/4" FRESH WATER FILL ASSEMBLY W/ FILL SOLENOID VALVE AND ALL REQUIRED FITTINGS	1
Q	LED POWER / DATE SUPPLY	1
R	LED PLAYER/CONTROLLER	1
S	1 HP VARIABLE FREQUENCY SPEED DRIVE, 208 VOLT, THREE PHASE	1
T	11'-0" LONG, 12 GAUGE 304 STAINLESS STEEL TROUGH/WEIR W/ ALL REQUIRED FITTINGS AND BONDING LUG CONNECTION, #4 BRUSHED FINISH	1
U	ANTIMICROBIAL POLYESTER FIBERGLASS MOLDED GRATING	1
V	CLEAR STREAM JET THAT FALLS GRACEFULLY INTO POOLS USED FOR WALL MOUNTED APPLICATIONS, EXTRUDED BRASS WITH STAINLESS STEEL	1
	OWNER MANUALS	3



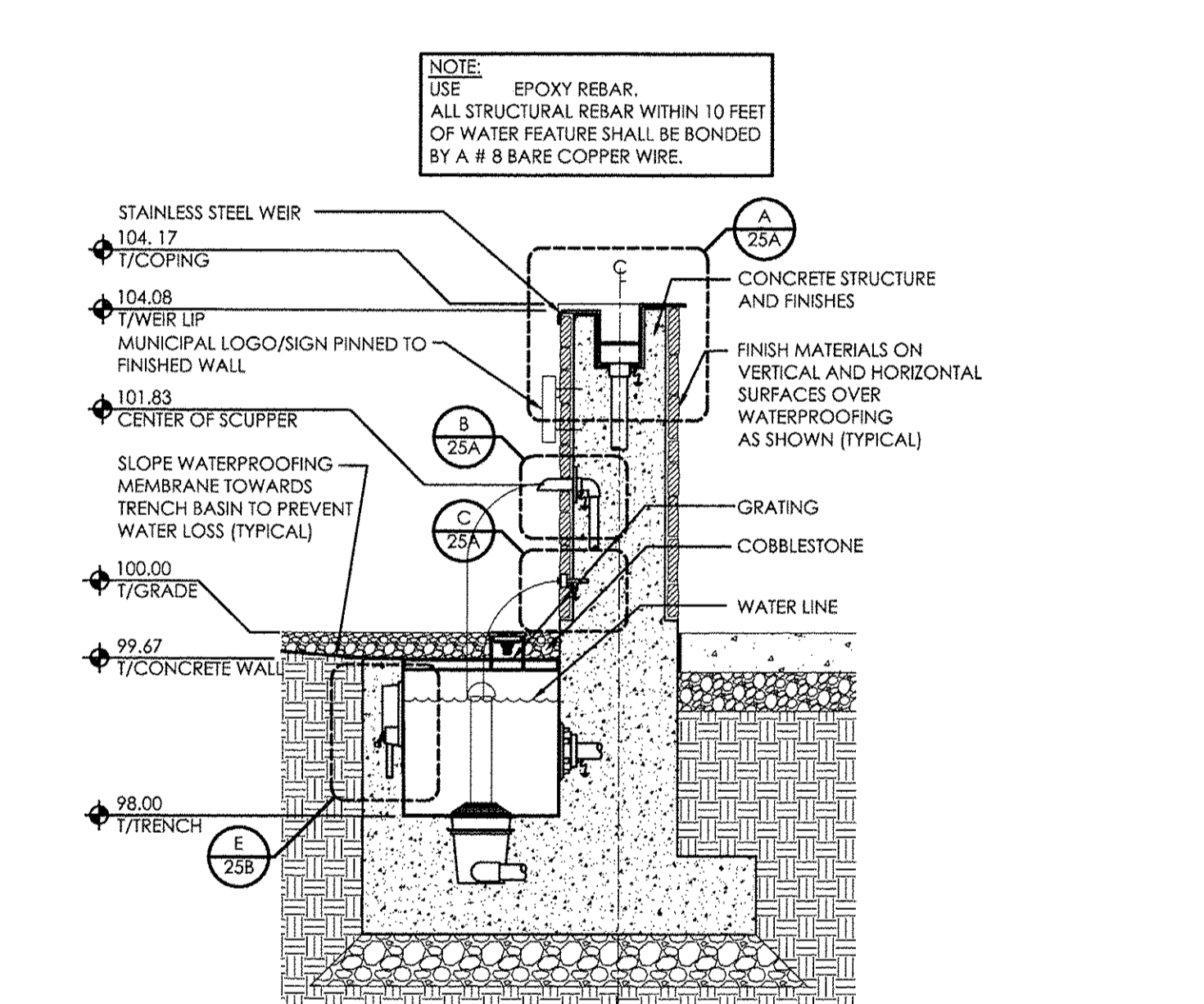
**2 DIMENSION LAYOUT PLAN**  
SCALE: 1/2" = 1'-0"



**1 EQUIPMENT LAYOUT PLAN**  
SCALE: 1/2" = 1'-0"

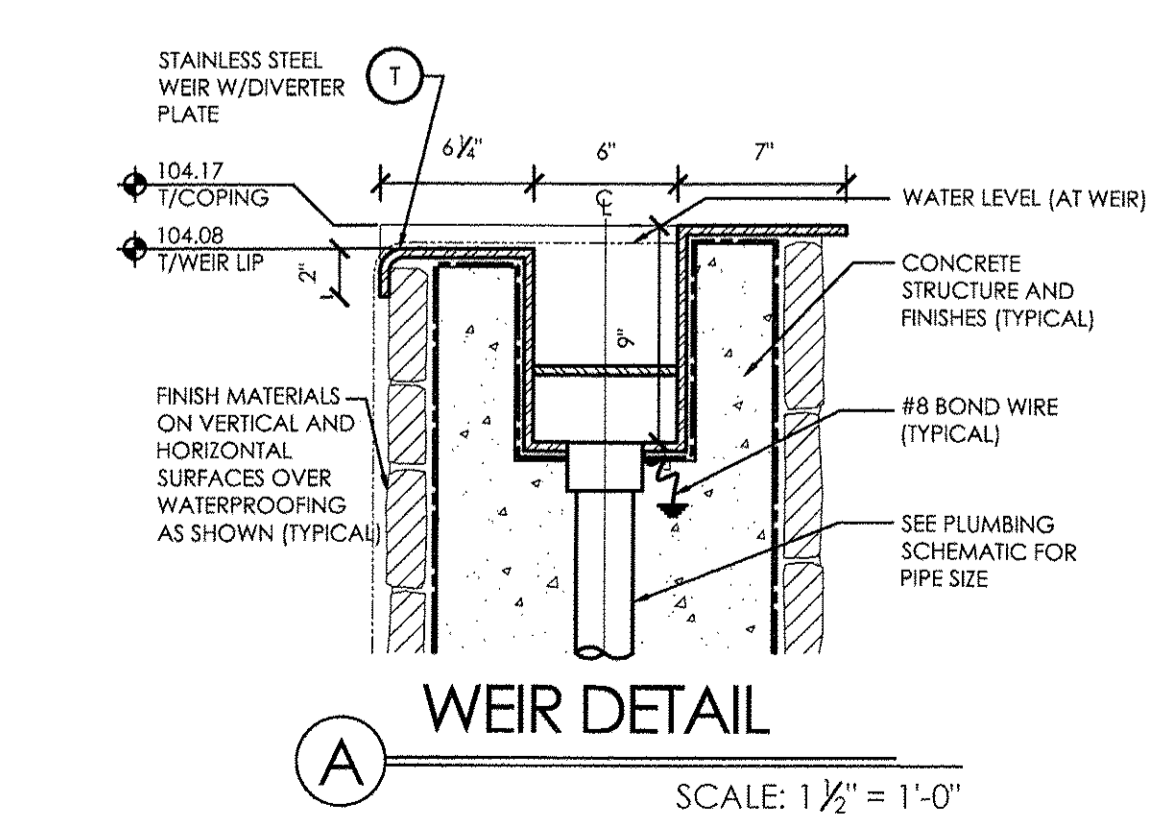


**SECTION 3A**

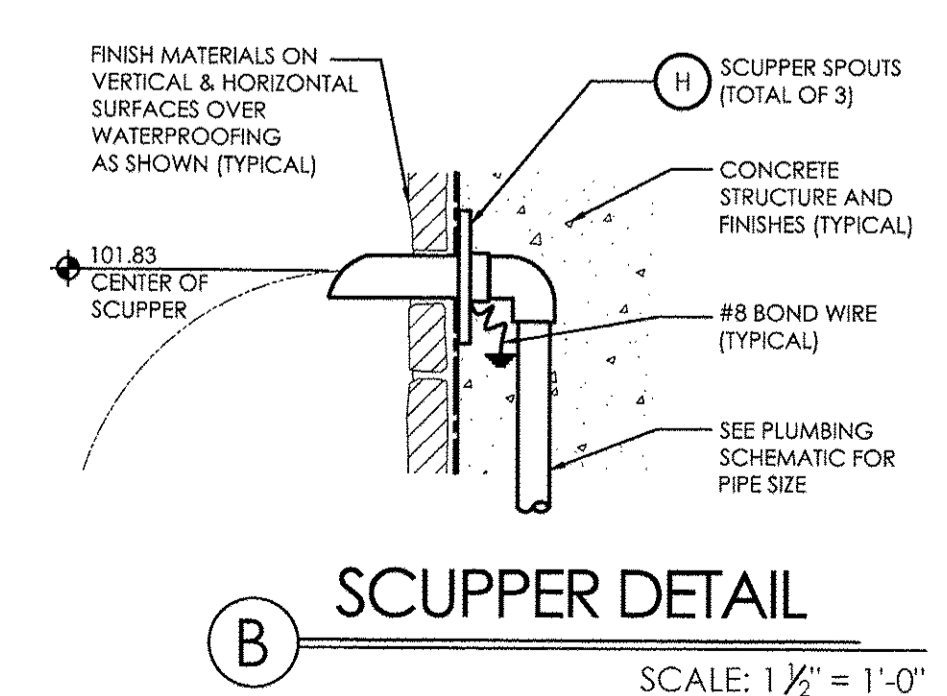


**SECTION 3B**

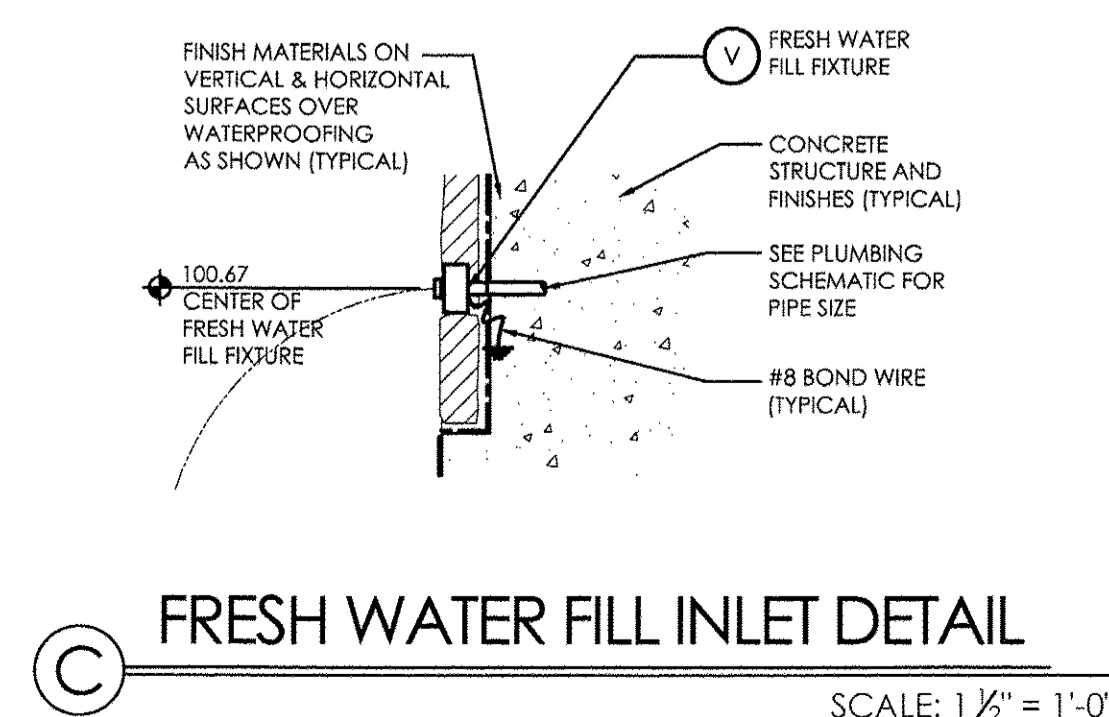
**3 ARCHITECTURAL SECTIONS**  
SCALE: 1/2" = 1'-0"



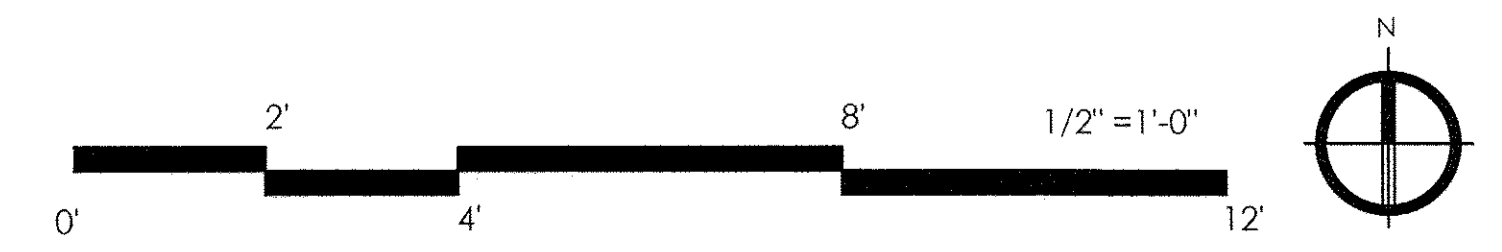
**A WEIR DETAIL**  
SCALE: 1 1/2" = 1'-0"



**B SCUPPER DETAIL**  
SCALE: 1 1/2" = 1'-0"

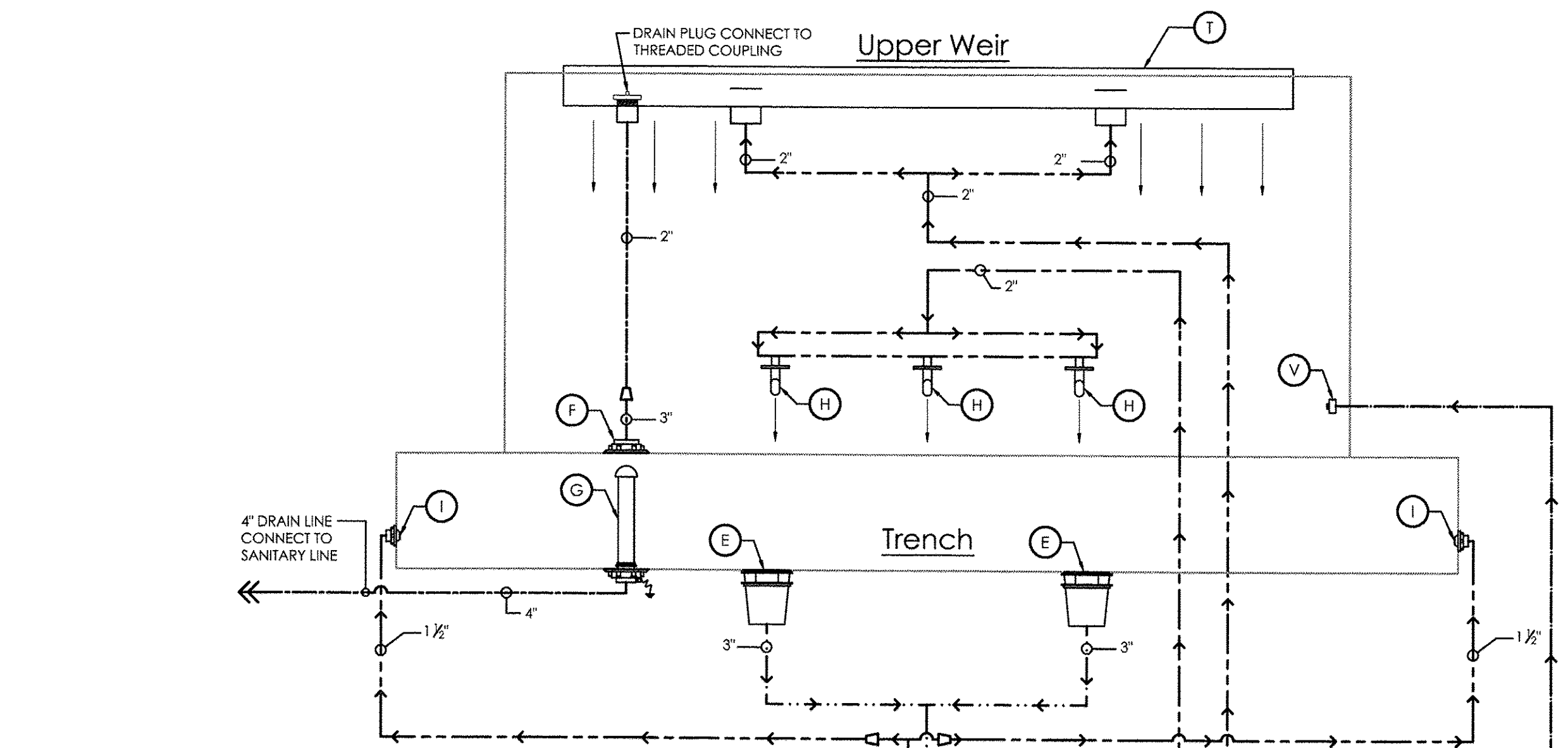


**C FRESH WATER FILL INLET DETAIL**  
SCALE: 1 1/2" = 1'-0"



USER NAME =	DESIGNED -- MIA	REVISED -- 30% 1-06-2016
PLOT SCALE =	DRAWN -- MIA	REVISED -- 60% 2-02-2016
PLOT DATE =	CHECKED -- RJV	REVISED -- 90% 3-04-2016
	DATE -- 6-17-2016	REVISED -- 95% 4-27-2016

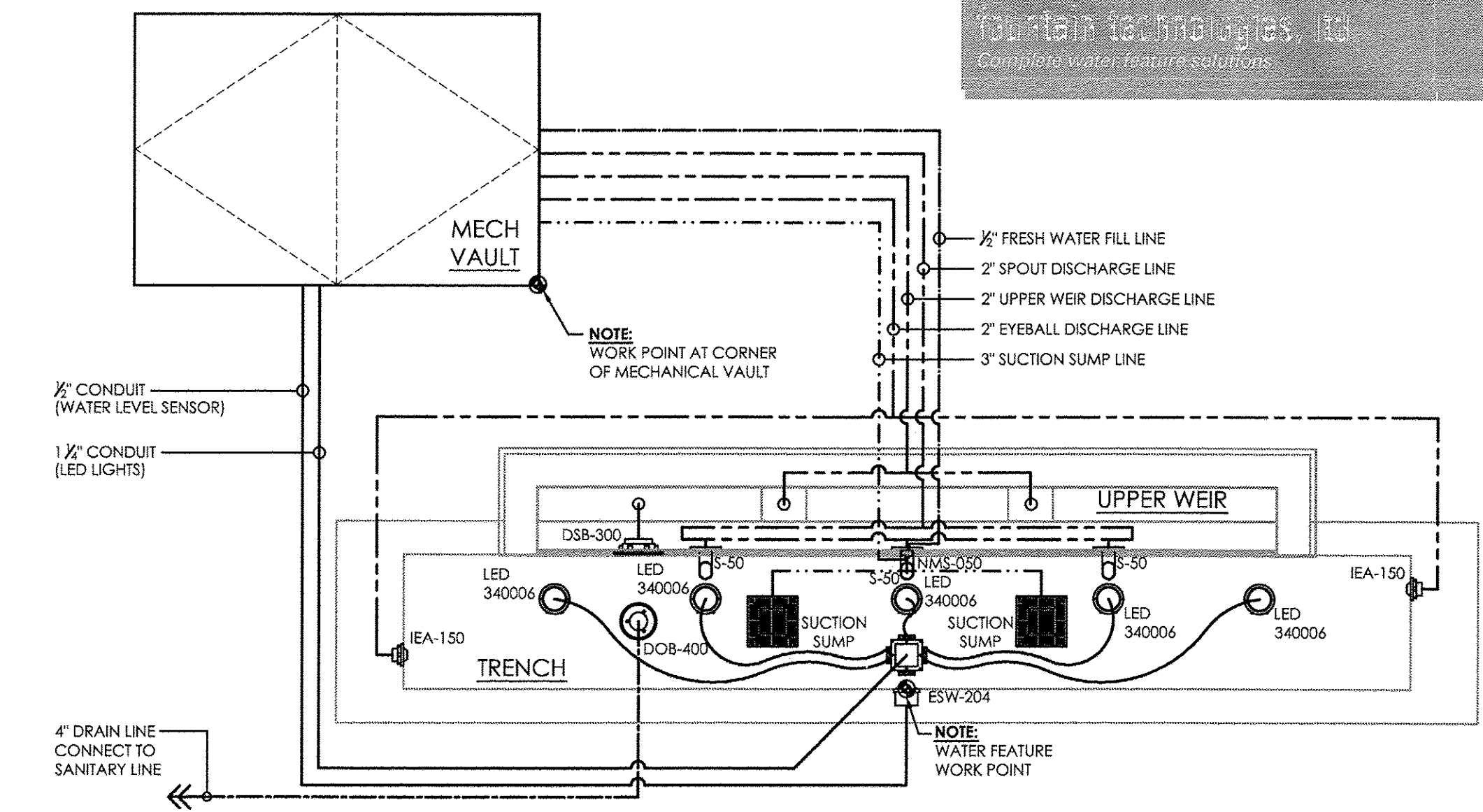
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	37
				CONTRACT NO. 61D18
ILLINOIS FED. AID PROJECT				



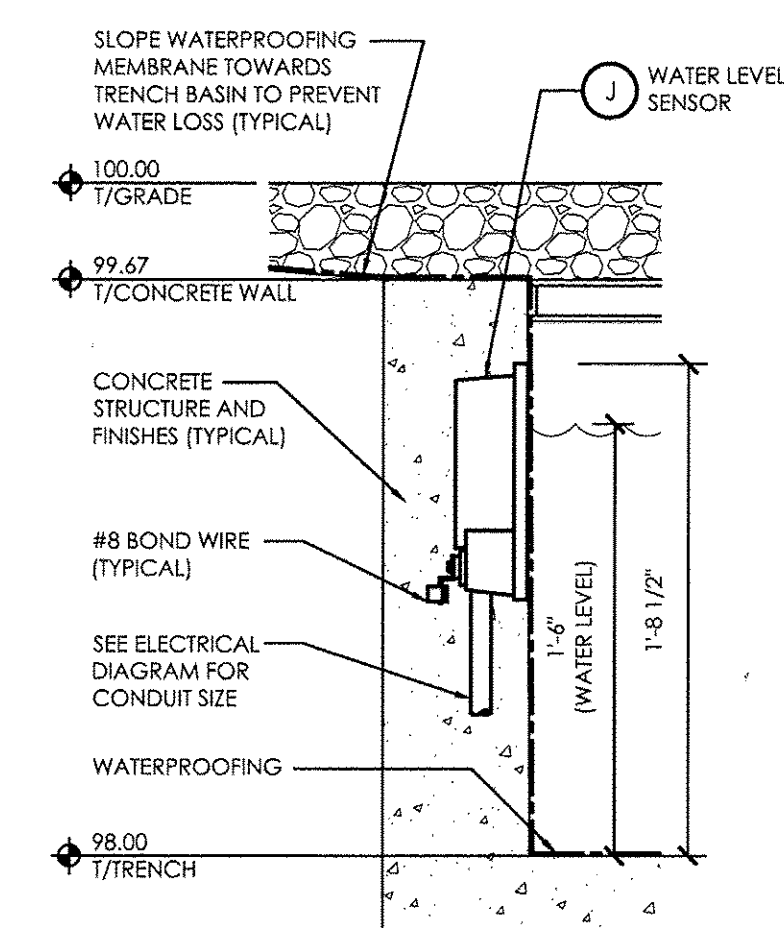
**NOTE:**  
3/4" COPPER FRESH WATER FILL ASSEMBLY (TYPE L FOR ABOVE GROUND, TYPE K FOR BELOW GROUND)  
**NOTE:**  
INCOMING WATER PRESSURE NOT TO EXCEED 50 PSI  
**NOTE:**  
BACKFLOW PREVENTER TO BE PROVIDED IF REQUIRED

**NOTE:**  
PLUMBING CONTRACTOR TO CHECK WITH LOCAL PLUMBING CODES FOR THIS CONNECTION

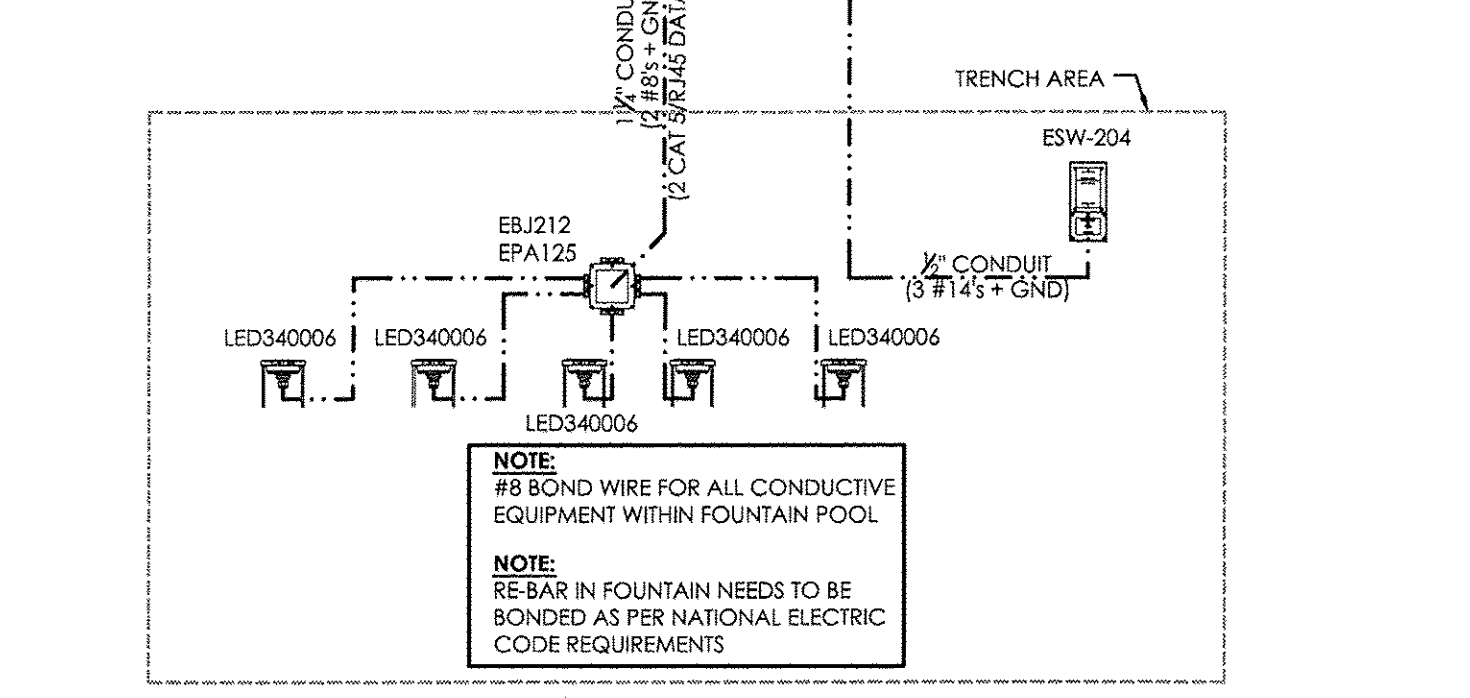
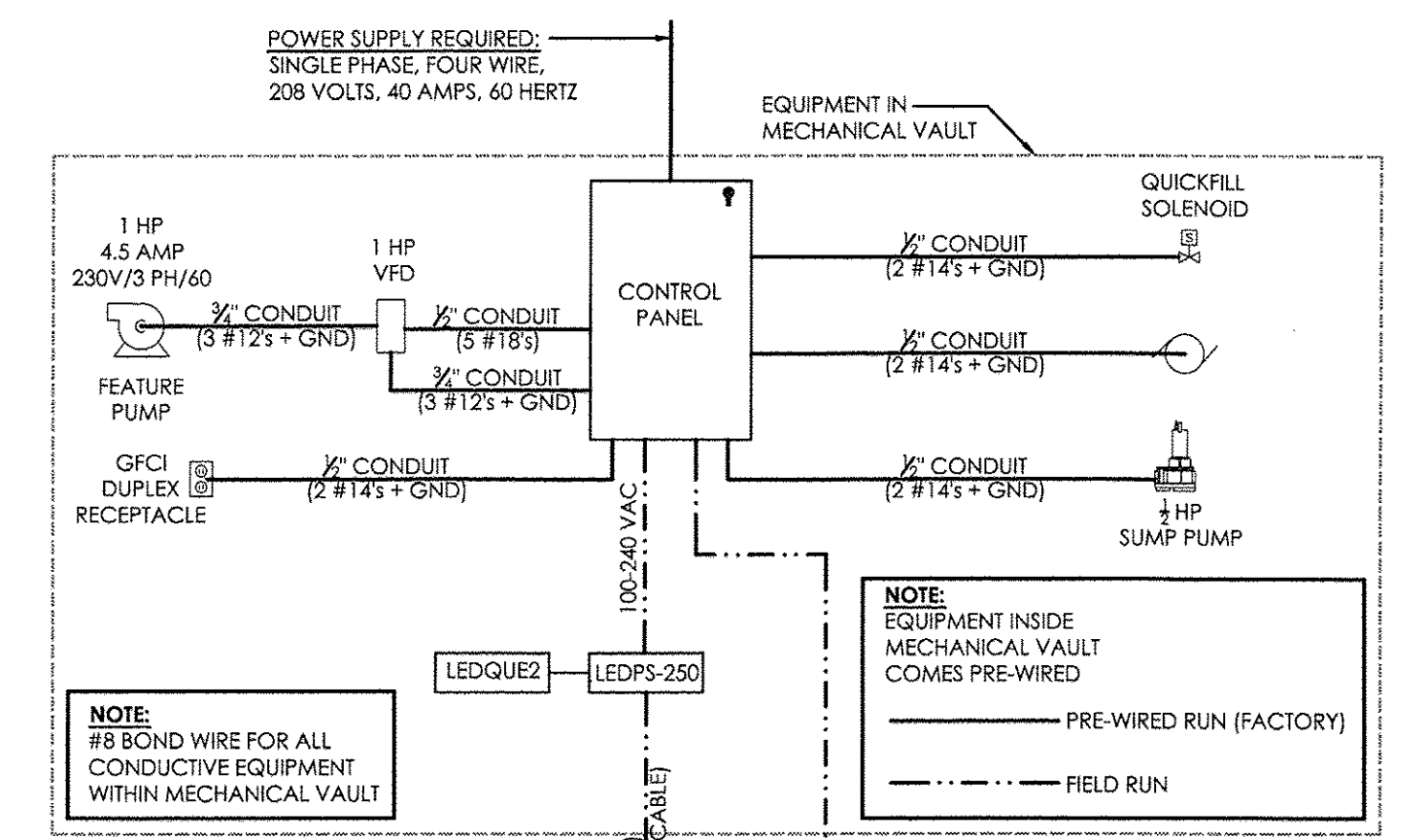
SCHEMATIC SYMBOLS LEGEND	
DISCHARGE PIPING	(Solid line)
SUCTION PIPING	(Dashed line)
BALL VALVE	(Circle with vertical line)
TRUE UNION BALL VALVE	(Circle with horizontal line)
BUTTERFLY VALVE	(Circle with diagonal line)
GEAR OPERATED VALVE	(Circle with cross)
CHECK VALVE	(Circle with arrow)
SOLENOID VALVE	(Circle with 'S')
BOILER DRAIN VALVE	(Circle with 'B')
REDUCER FITTING	(Circle with 'R')
REDUCER - CONCENTRIC	(Circle with 'C')
REDUCER - ECCENTRIC	(Circle with 'E')
FLOW METER	(Circle with 'F')
PRESSURE GAUGE 0-60 PSI	(Circle with 'G')
VACUUM GAUGE 0-30"	(Circle with 'V')
UNION	(Circle with 'U')
PRESSURE REGULATOR	(Circle with 'P')



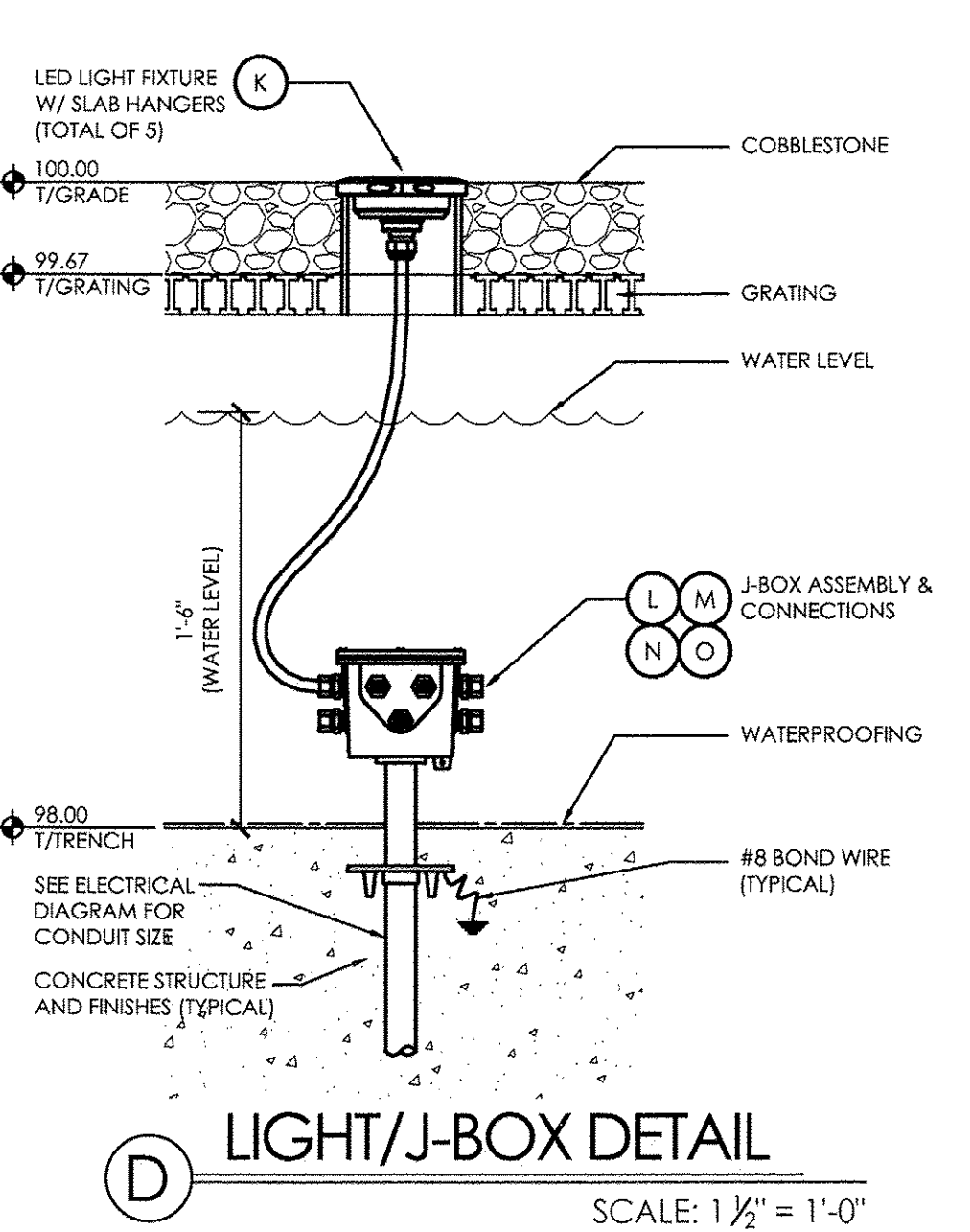
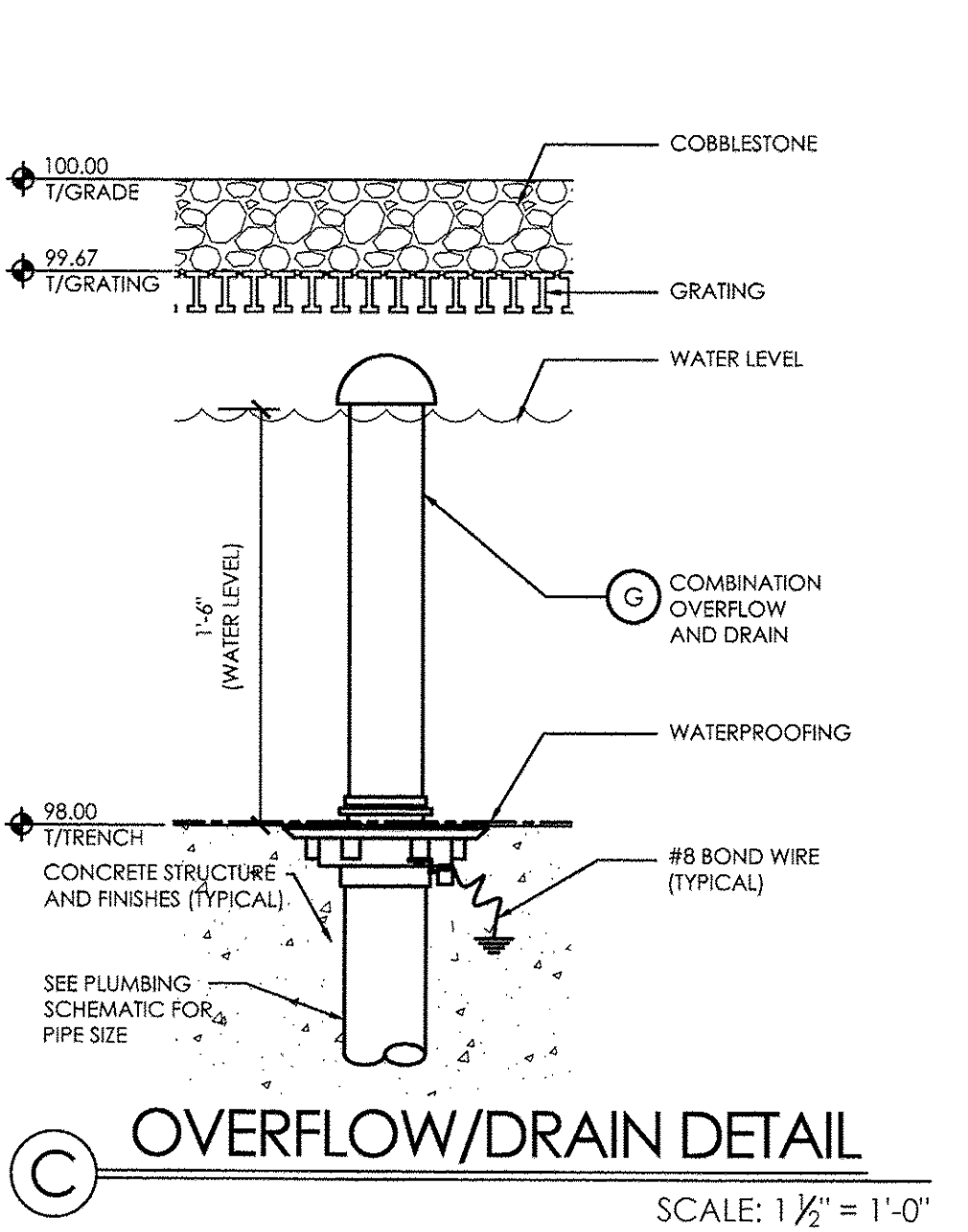
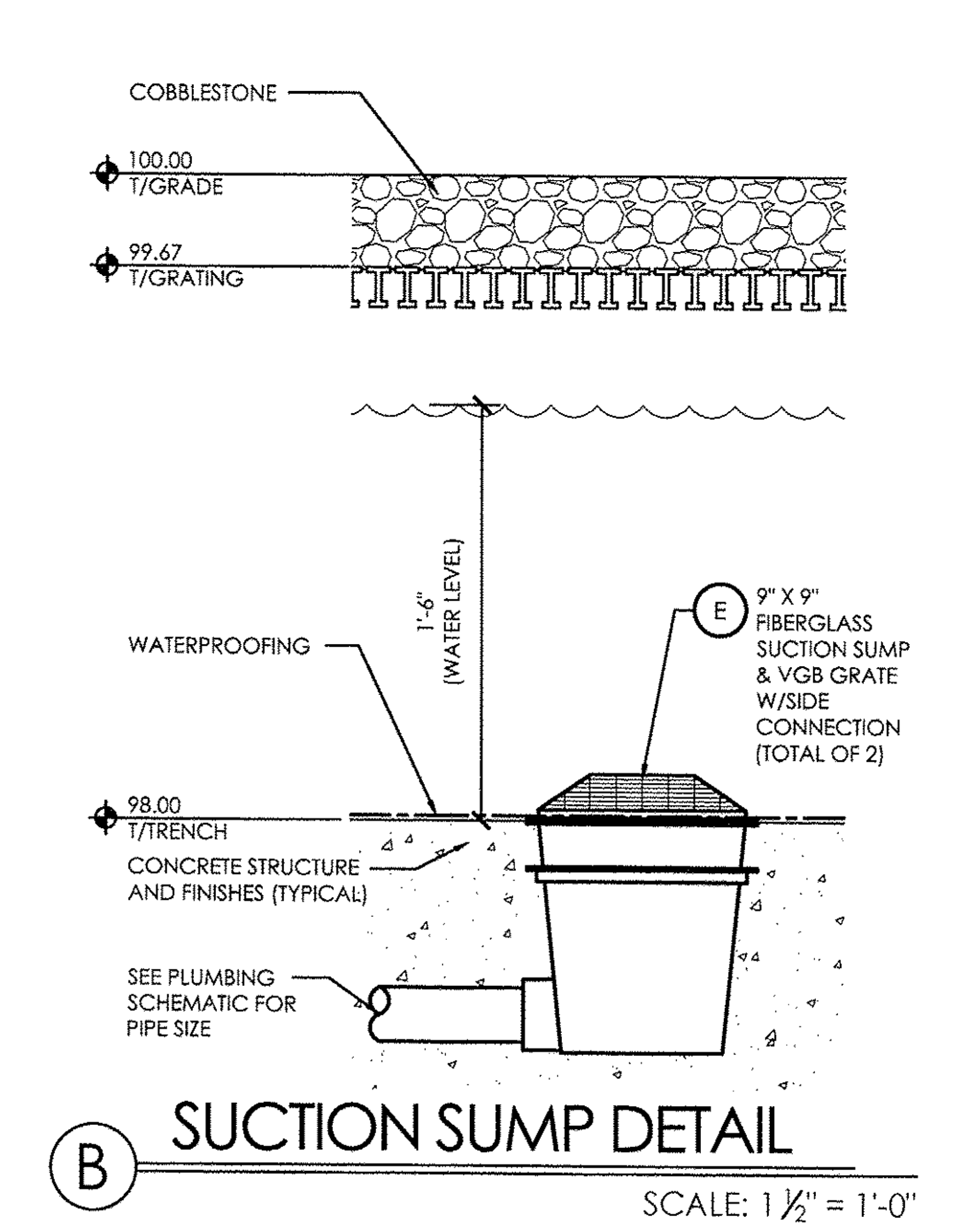
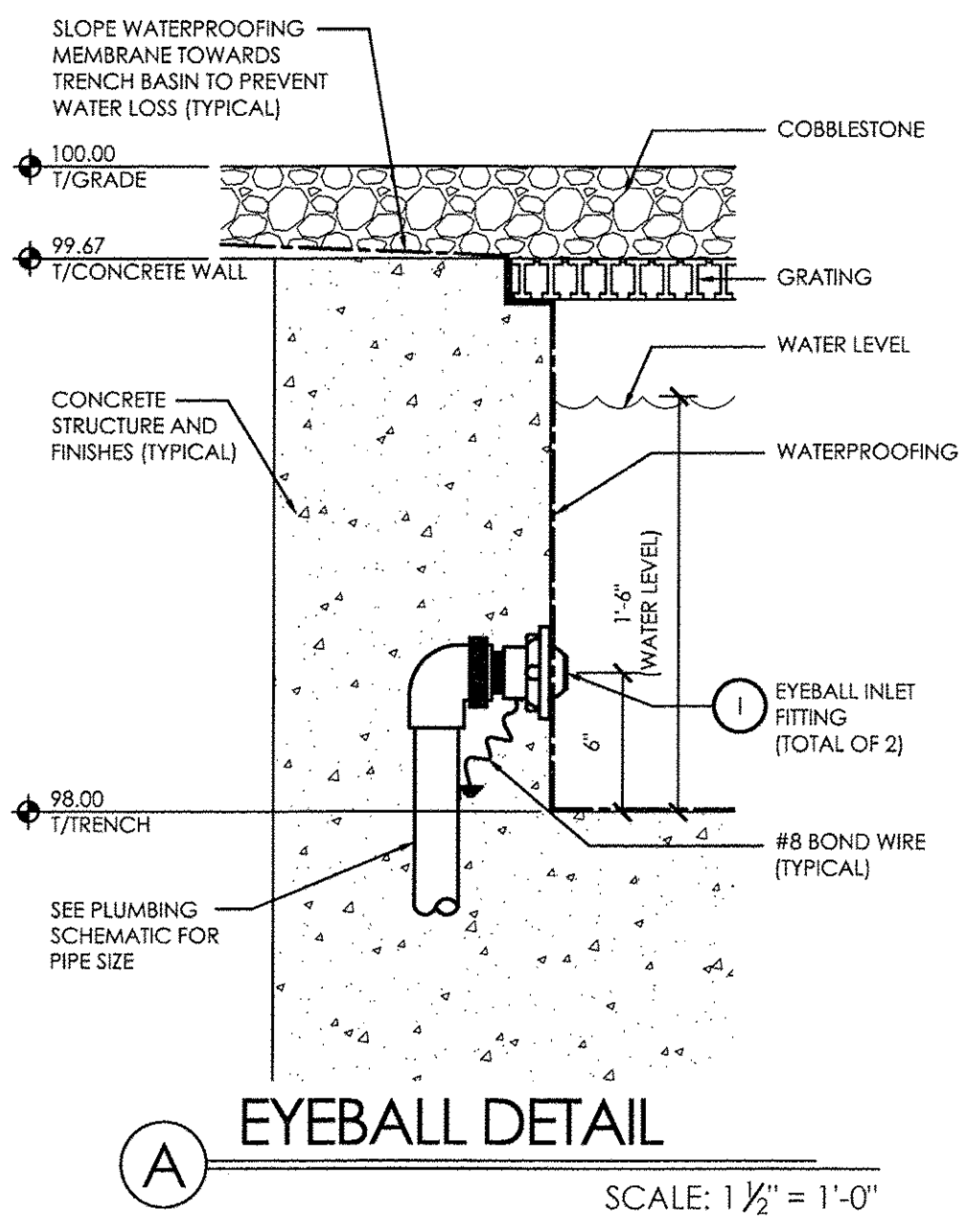
**1** SUCTION, DISCHARGE, DRAINAGE AND ELECTRICAL PIPING PLAN  
SCALE: 1/2" = 1'-0"



**E** WATER LEVEL SENSOR DETAIL  
SCALE: 1 1/2" = 1'-0"



**3** ELECTRICAL DIAGRAM  
SCALE: NONE  
**NOTE:**  
T/GRADE ELEVATION IS FOR DIMENSIONING PURPOSES ONLY. SEE SHEET 14 FOR GRADING PLAN.



**A** EYEBALL DETAIL  
SCALE: 1 1/2" = 1'-0"

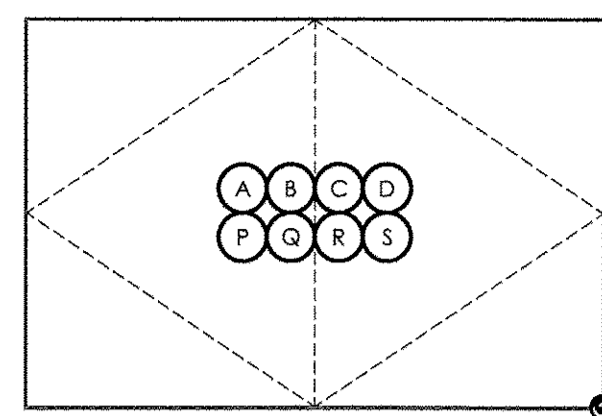
**B** SUCTION SUMP DETAIL  
SCALE: 1 1/2" = 1'-0"

**C** OVERFLOW/DRAIN DETAIL  
SCALE: 1 1/2" = 1'-0"

**D** LIGHT/J-BOX DETAIL  
SCALE: 1 1/2" = 1'-0"

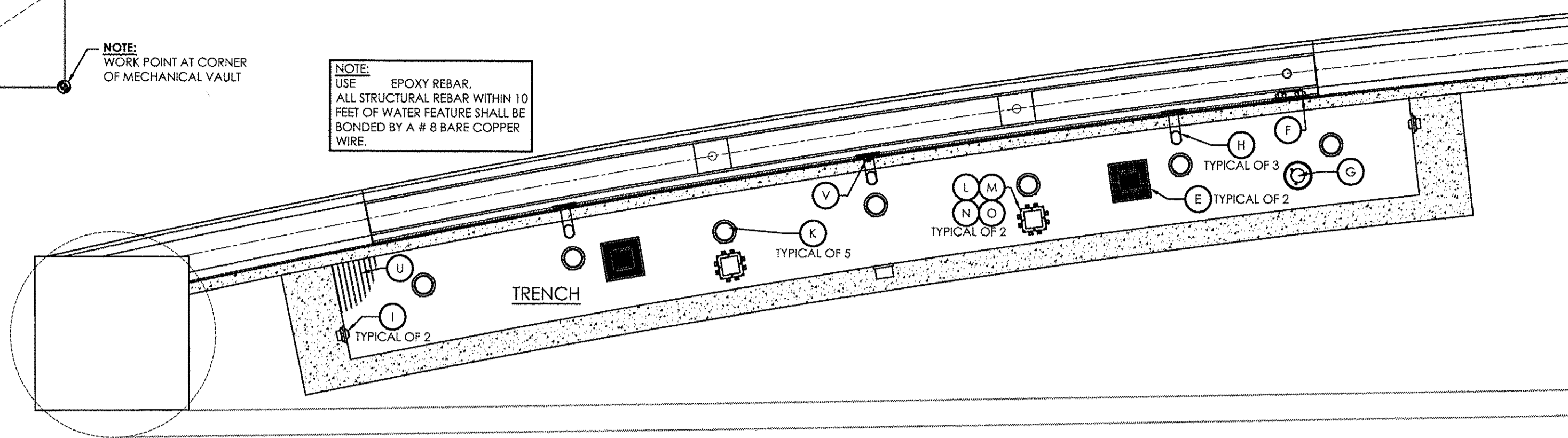
WESTERN SPRINGS - NORTH SIDE  
EQUIPMENT LIST

ITEM	DESCRIPTION	QTY.
A	4'-0" x 6'-0" DIRECT BURIAL HEAVY-DUTY FOAM CORE FIBERGLASS VAULT, UNIT TO BE SUPPLIED WITH 1/2 HP SUMP PUMP, NEMA 4 ENCLOSURE CONTROL PANEL, THERMOSTAT CONTROLLER, VENTILATION FAN (25 CFM PER HORSEPOWER); ALL REQUIRED PUMPS & FILTER, WITH UTILITY OUTLET AND (2) DOOR 35" x 45" ALUMINUM LOCKABLE HATCH LID. ALL PLUMBING & ELECTRICAL EQUIPMENT WILL BE PRE-WIRED & PRE-PLUMBED	1
B	3 HP FEATURE/FILTER PUMP, 208 VOLT, THREE PHASE, 11 FULL LOAD AMPS, BUILT-IN STRAINER POT AND VOLUTE, 153 GPM @ 25' HEAD	1
C	50 SQ FT CARTRIDGE FILTER, 50 GPM, FILTER EASY SPIN ON UNION VALVES.	1
D	EROSIONS STYLE CHEMICAL FEEDER, SIZED TO SUIT APPLICATION	1
E	9' x 9' BLACK MAIN SUCTION SUMP WITH SIDE PORT, BLACK FRAME AND VGB GRATE - CUSTOM FABRICATION - FAB. ACCORDING TO DETAIL	2
F	INLET SLEEVE FITTING WITH FLAT GRATE, CONSTRUCTION SHALL BE CAST BRONZE WITH STAINLESS STEEL FASTENERS, 3" INLET CONNECTION	1
G	COMBINATION OVERFLOW AND POOL DRAIN BODY WITH REVERSIBLE CLAMP COLLAR, ADJUSTABLE EXTENSION, TAPERED WATER TIGHT SLIP CONNECTION AND VENTED DOME SHALL ALL BE CAST BRONZE WITH COPPER STANDPIPE AND STAINLESS STEEL FASTENERS, 4" INLET CONNECTION	1
H	DECORATIVE SPOUT TYPE SCUPPER, CAST BRONZE WITH POLISHED NICKEL FINISH, 2 1/2" INLET FEMALE N.P.T. CONNECTION W/ ABS SOCKET	3
I	EYEBALL INLET FITTING, CONSTRUCTION SHALL BE CAST BRONZE WITH STAINLESS STEEL FASTENERS, 1 1/2" N.P.T. INLET CONNECTION	2
J	24V AC/DC WALL MOUNTED ELECTRONIC WATER LEVEL SENSOR, MONITORS QUICK FILL AND SAFE OFF FUNCTIONS, WITH WATERSTOP SUBSURFACE FLANGE, BOTTOM CONNECTION, LOW VOLTAGE, CAST BRONZE	1
K	12VDC / 30 WATT HIGH FIDELITY SUBMERSIBLE COMPACT LED LIGHT FIXTURE, COMES COMPLETE WITH PRE-ASSEMBLED 304 STAINLESS STEEL STAND; TILTS 45°; EQUIPPED WITH 3 GROUPS OF 3 LEDS COVERED BY AN OPTICAL CLEAR LENS; SUITABLE FOR WET LOCATIONS; 9FT 18/5 STW CABLE	7
L	8 POSITION JUNCTION BOX, BODY SHALL BE CAST BRONZE WITH NEOPRENE COVER GASKET, STAINLESS STEEL FASTENERS AND INTERNAL GROUND CONNECTION, BOTTOM HUB = 1 1/2", SIDE HUBS A=B=C=D=E=F=G=H= 1/2"	2
M	ELECTRICAL STUB UP, STUB UP PIPE SHALL BE RED BRASS WITH CAST BRONZE FLANGE SOLDERED TO PIPE AND STAINLESS STEEL FASTENERS	2
N	CORD SEALS, THREADED CONNECTOR, COMPRESSION NUT AND FRICTION WASHER SHALL BE CAST BRONZE WITH NEOPRENE MOLDED COMPRESSION SEAL	5
O	POTTING COMPOUND, WATERPROOF GEL, WIRE CONNECTION SEALANT	8
P	3/4" FRESH WATER FILL ASSEMBLY W/ FILL SOLENOID VALVE AND ALL REQUIRED FITTINGS	1
Q	LED POWER / DATE SUPPLY	1
R	LED PLAYER/CONTROLLER	1
S	3 HP VARIABLE FREQUENCY SPEED DRIVE, 208 VOLT, THREE PHASE	1
T	18'-9" LONG, 12 GAUGE 304 STAINLESS STEEL TROUGH/WEIR W/ ALL REQUIRED FITTINGS AND BONDING LUG CONNECTION, #4 BRUSHED FINISH	1
U	ANTIMICROBIAL POLYESTER FIBERGLASS MOLDED GRATING	2
V	CLEAR STREAM JET THAT FALLS GRACEFULLY INTO POOLS USED FOR WALL MOUNTED APPLICATIONS, EXTRUDED BRASS WITH STAINLESS STEEL	1
	OWNER MANUALS	3



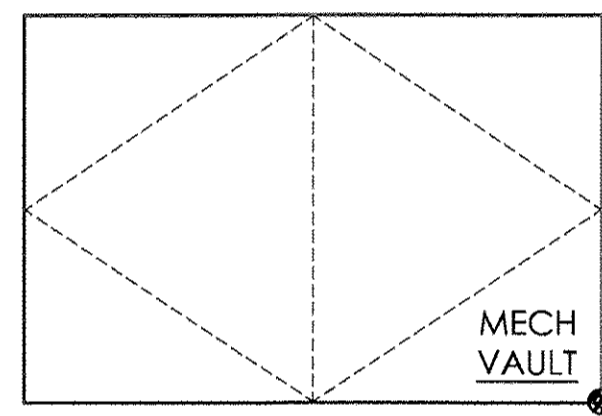
NOTE:  
WORK POINT AT CORNER  
OF MECHANICAL VAULT

NOTE:  
USE EPOXY REBAR.  
ALL STRUCTURAL REBAR WITHIN 10  
FEET OF WATER FEATURE SHALL BE  
BONDED BY A # 8 BARE COPPER  
WIRE.

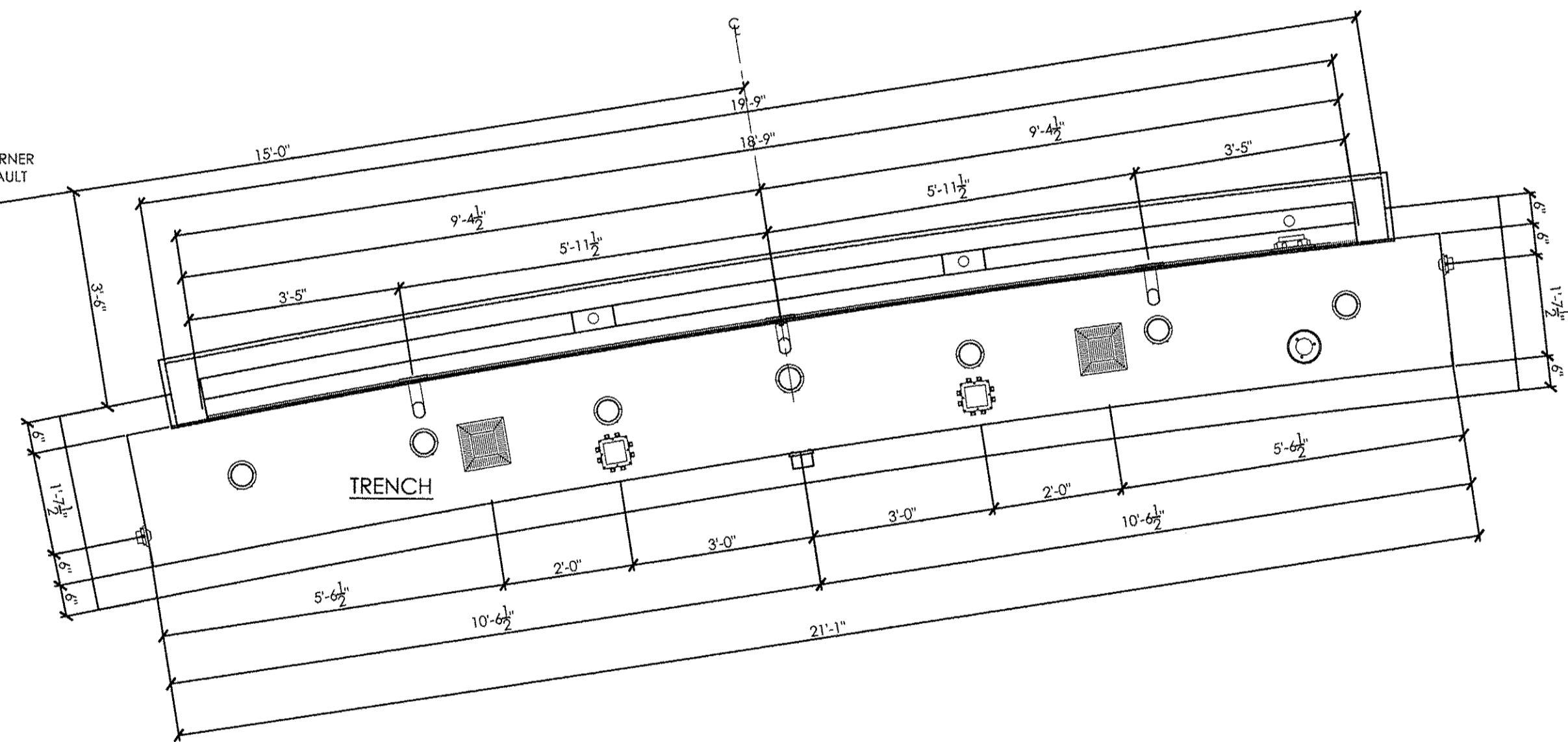


1 EQUIPMENT LAYOUT PLAN

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

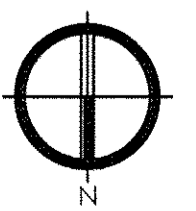


NOTE:  
WORK POINT AT CORNER  
OF MECHANICAL VAULT



2 DIMENSION LAYOUT PLAN

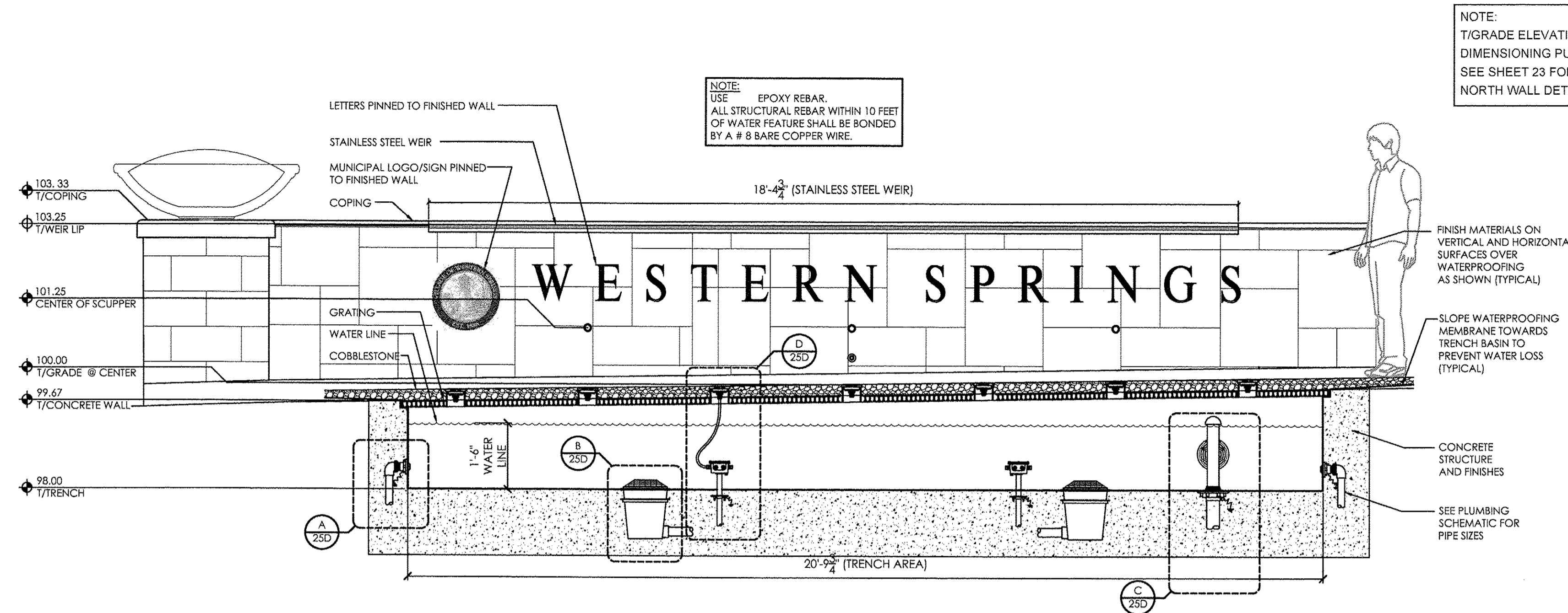
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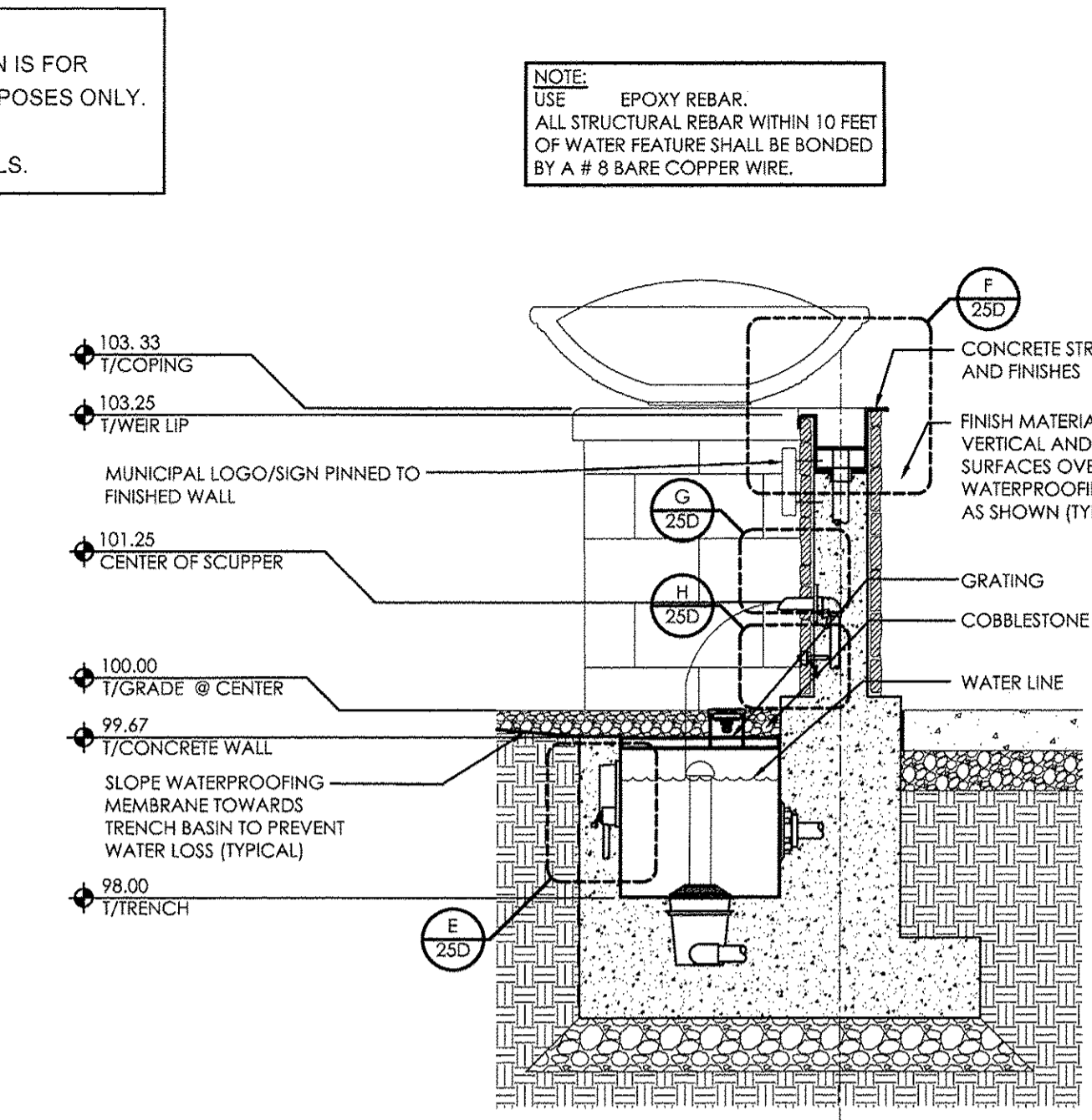
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PLOT SCALE =	DRAWN — MIA	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — RJW	REVISED — 90% 3-04-2016
	DATE — 6-17-2016	REVISED — 95% 4-27-2016

EAST PLATFORM RECONSTRUCTION WATER FEATURE - NORTH	
SCALE: N/A	SHEET NO. ___ OF ___ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	39
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	

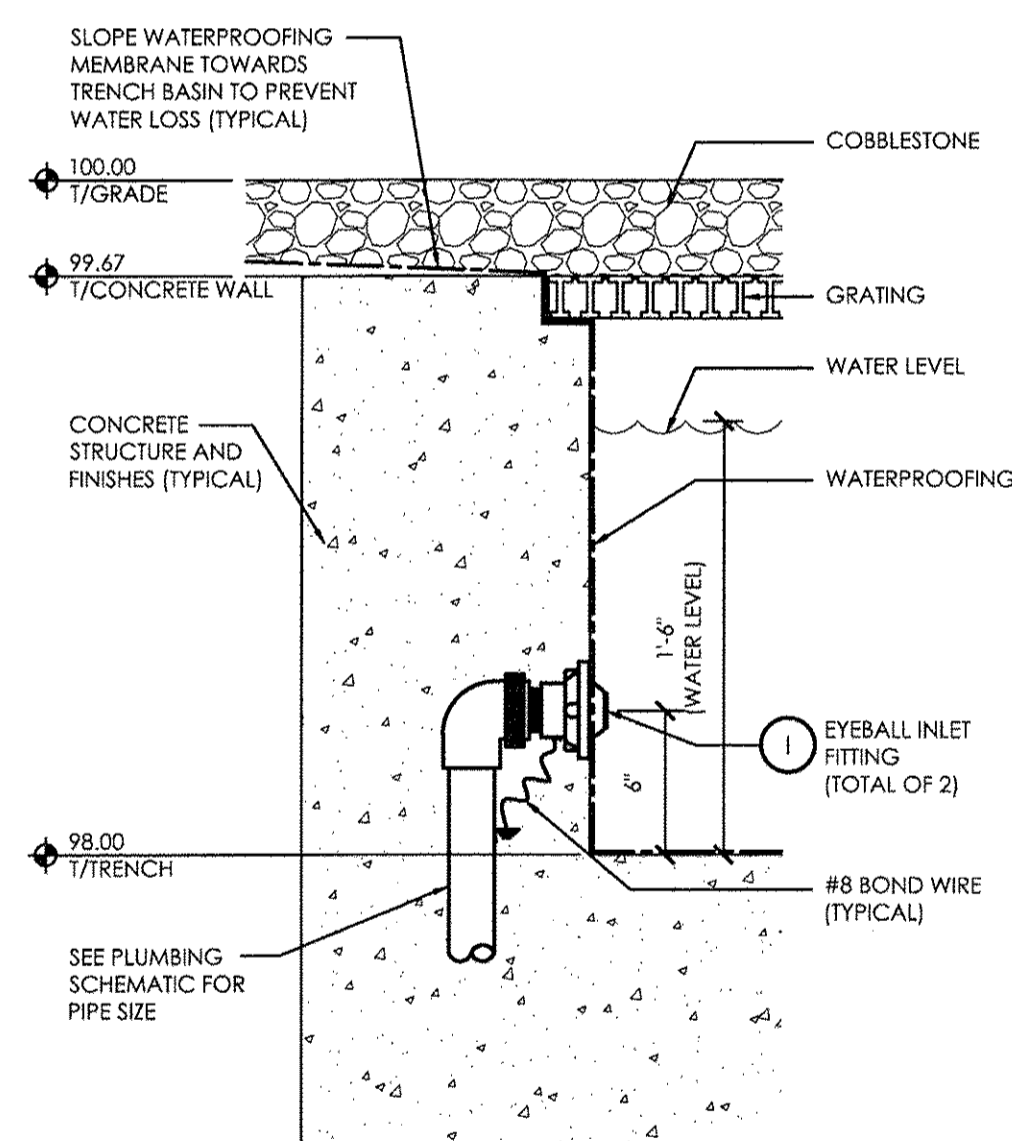


SECTION 1A

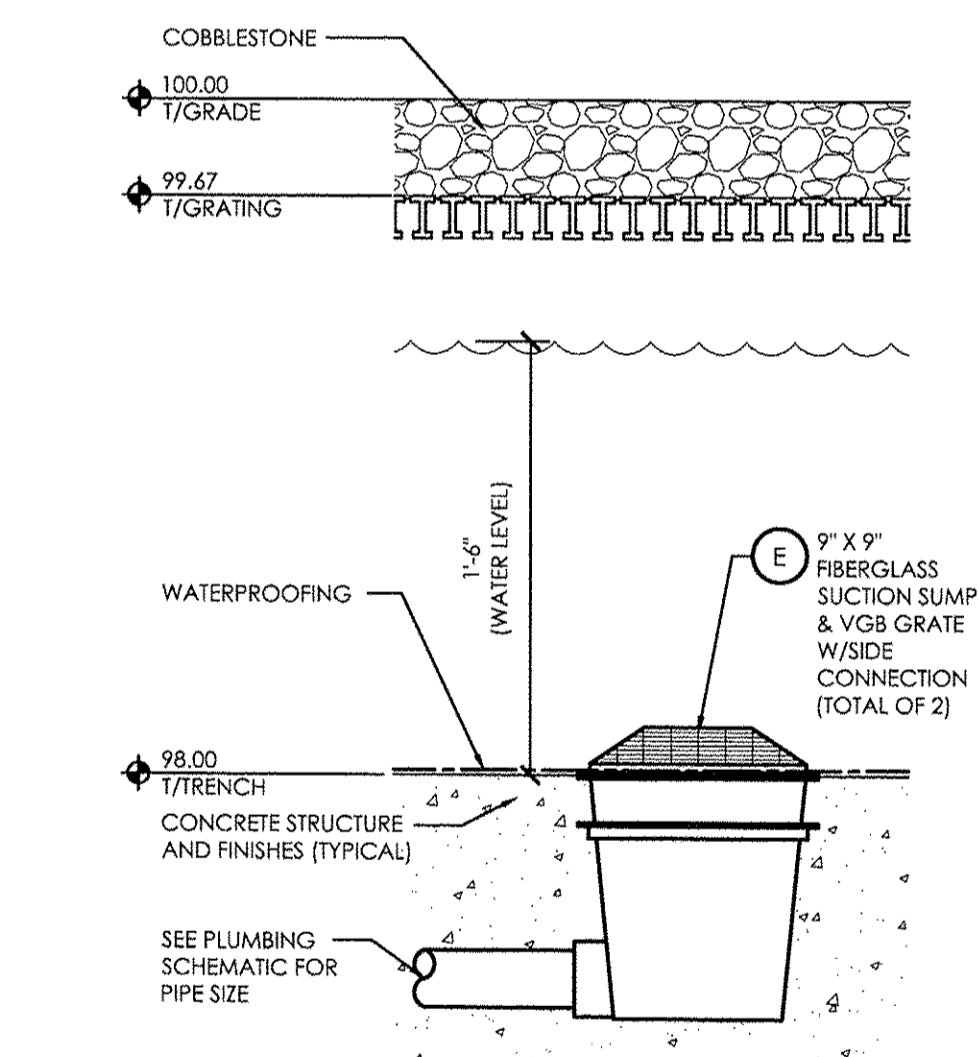


SECTION 1B

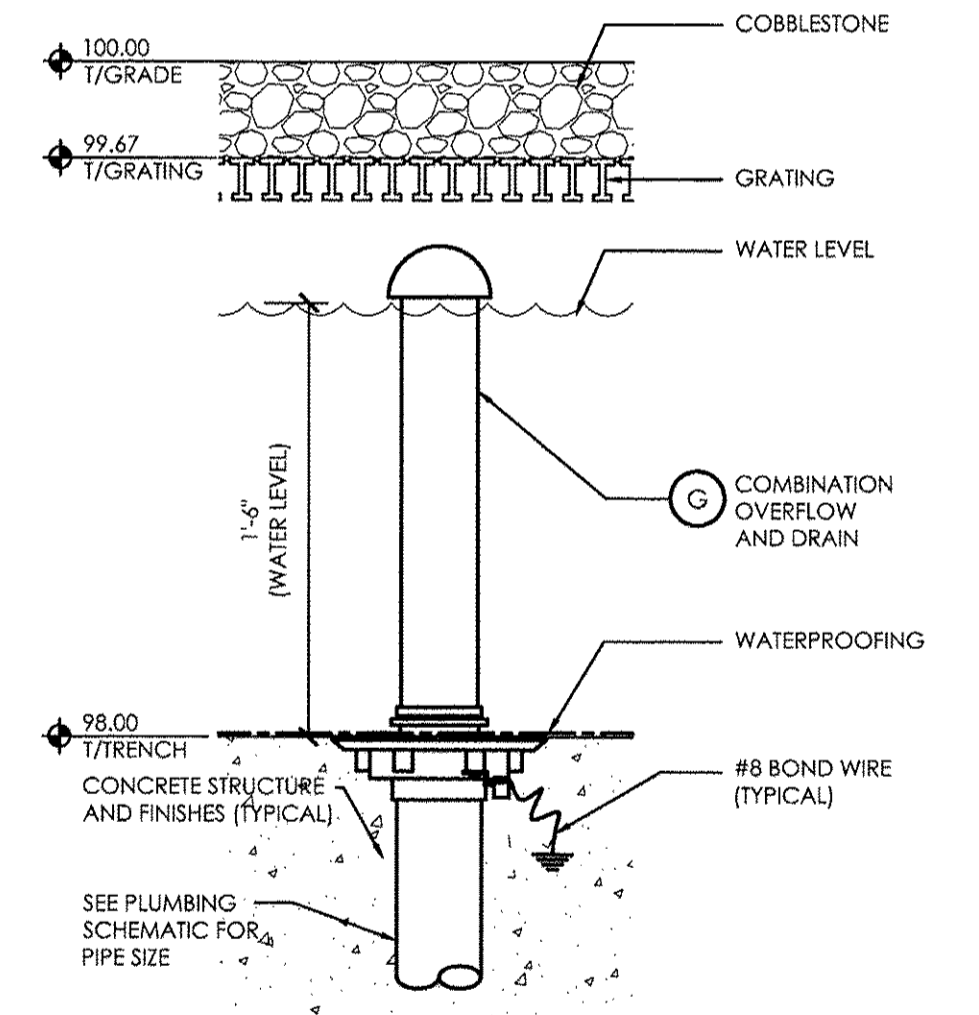
1 ARCHITECTURAL SECTIONS  
SCALE: 1/2" = 1'-0"



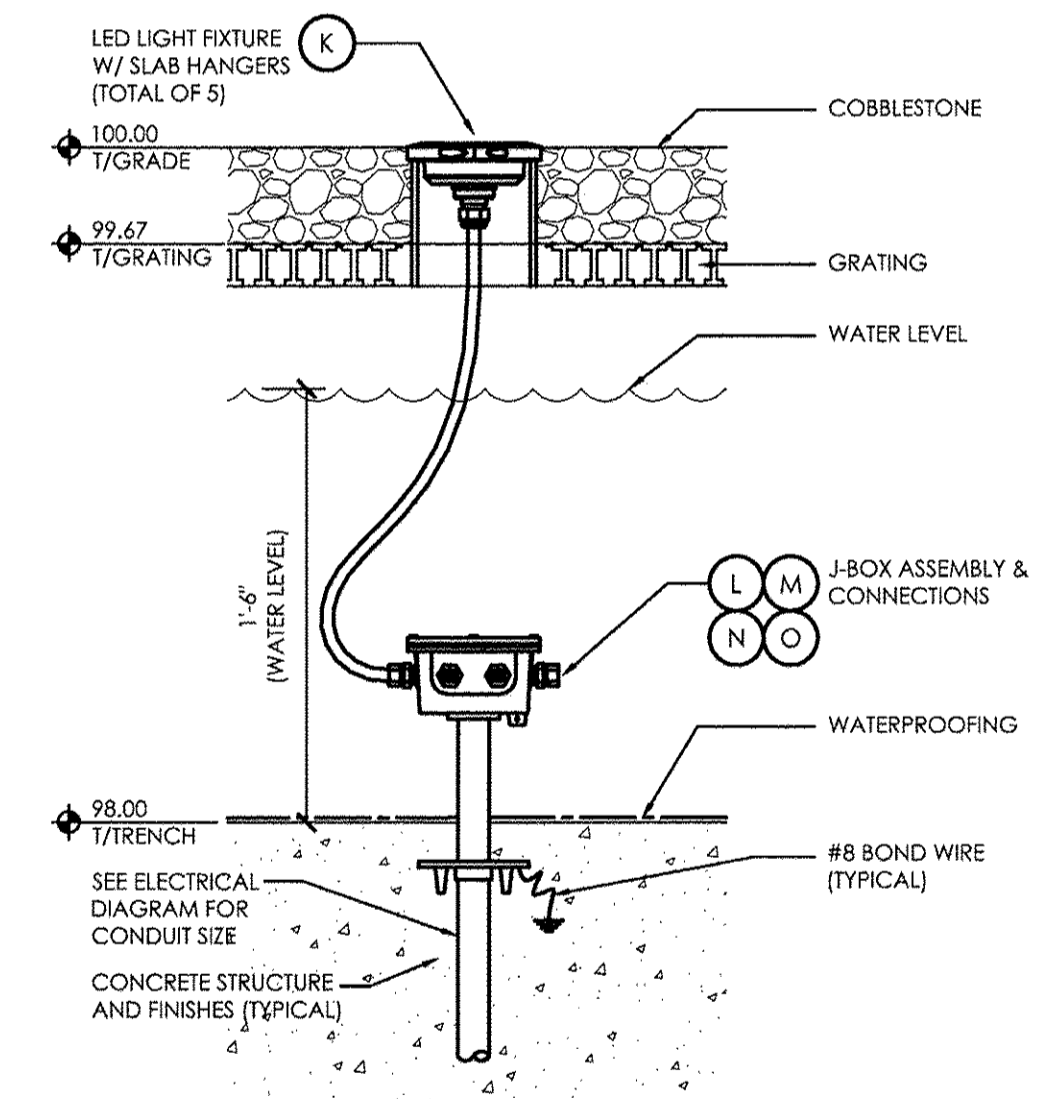
A EYEBALL DETAIL  
SCALE: 1 1/2" = 1'-0"



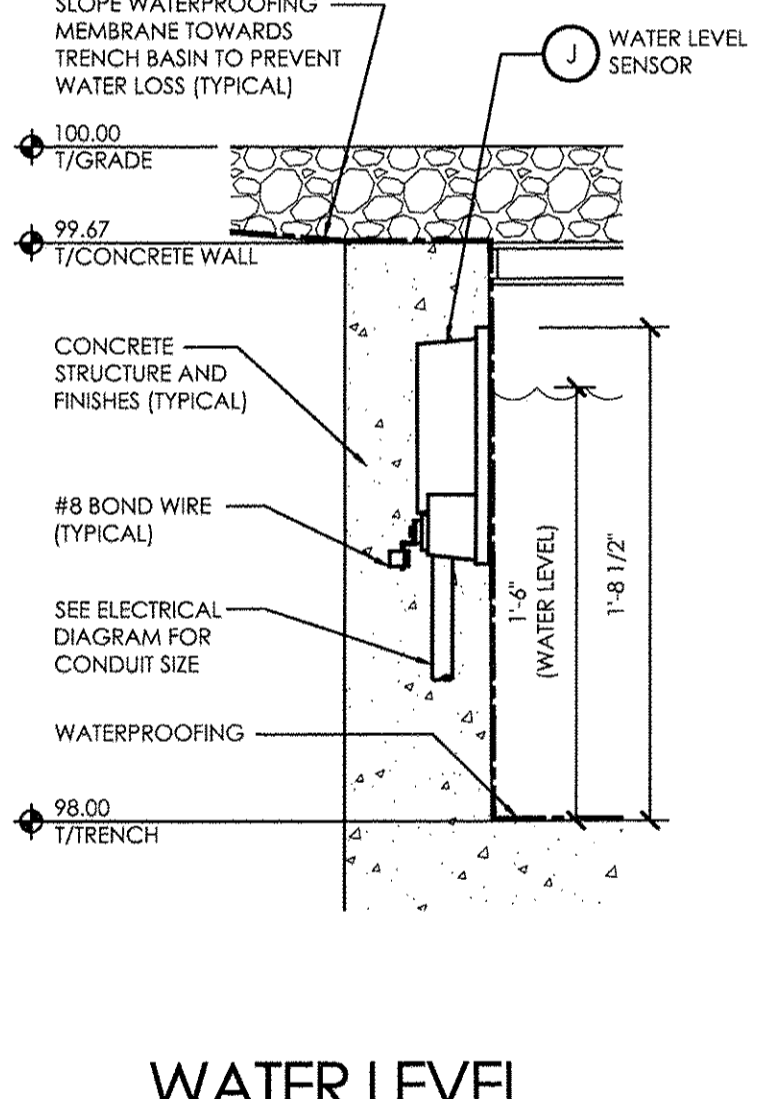
B SUCTION SUMP DETAIL  
SCALE: 1 1/2" = 1'-0"



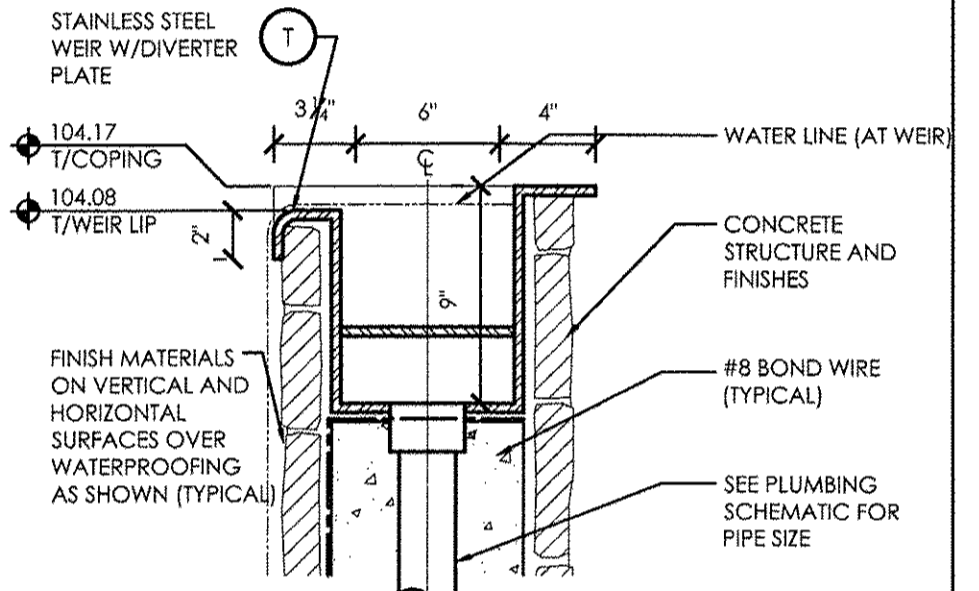
C OVERFLOW/DRAIN DETAIL  
SCALE: 1 1/2" = 1'-0"



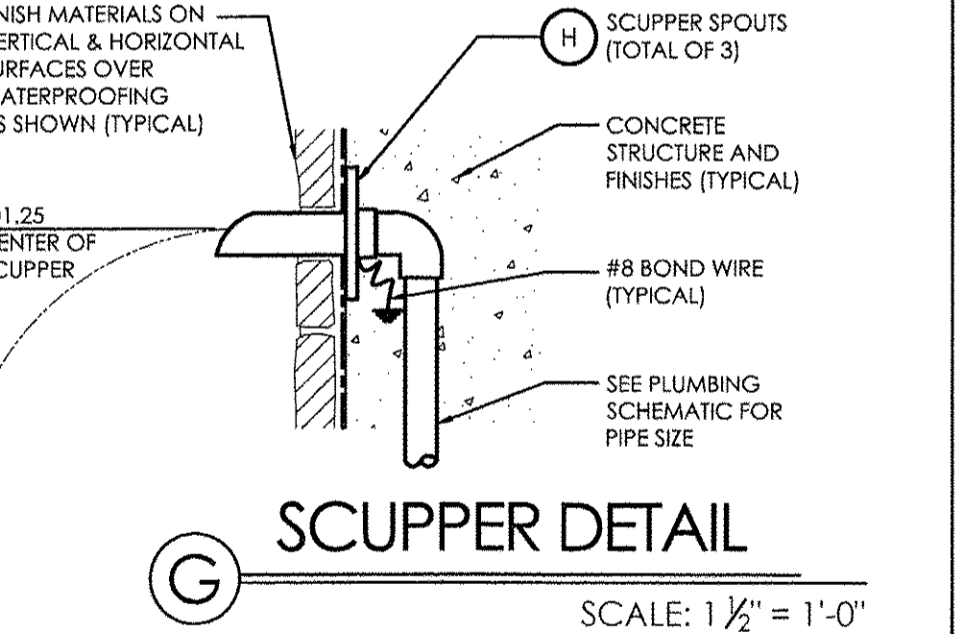
D LIGHT/J-BOX DETAIL  
SCALE: 1 1/2" = 1'-0"



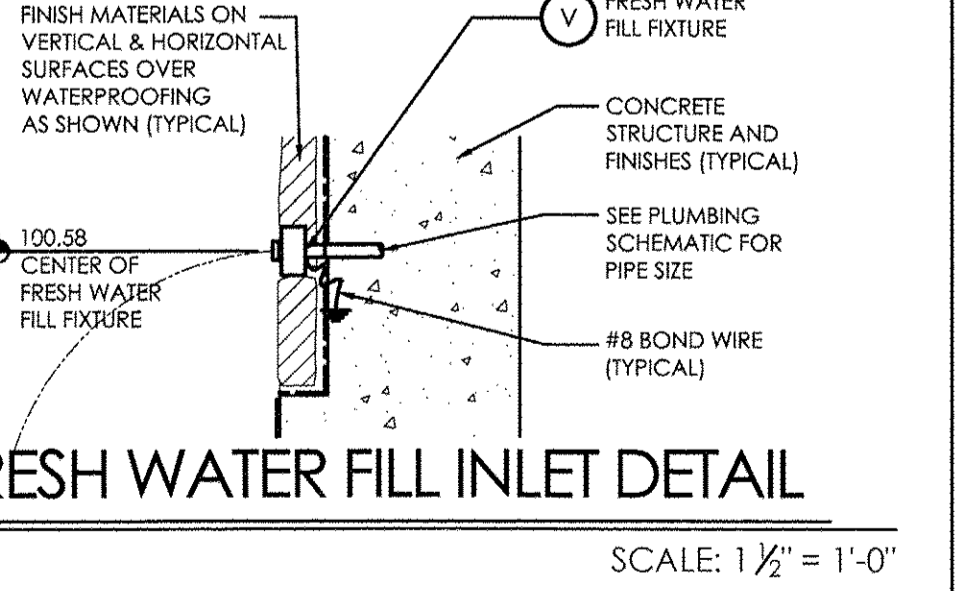
E WATER LEVEL SENSOR DETAIL  
SCALE: 1 1/2" = 1'-0"



F WEIR DETAIL  
SCALE: 1 1/2" = 1'-0"



G SCUPPER DETAIL  
SCALE: 1 1/2" = 1'-0"



H FRESH WATER FILL INLET DETAIL  
SCALE: 1 1/2" = 1'-0"

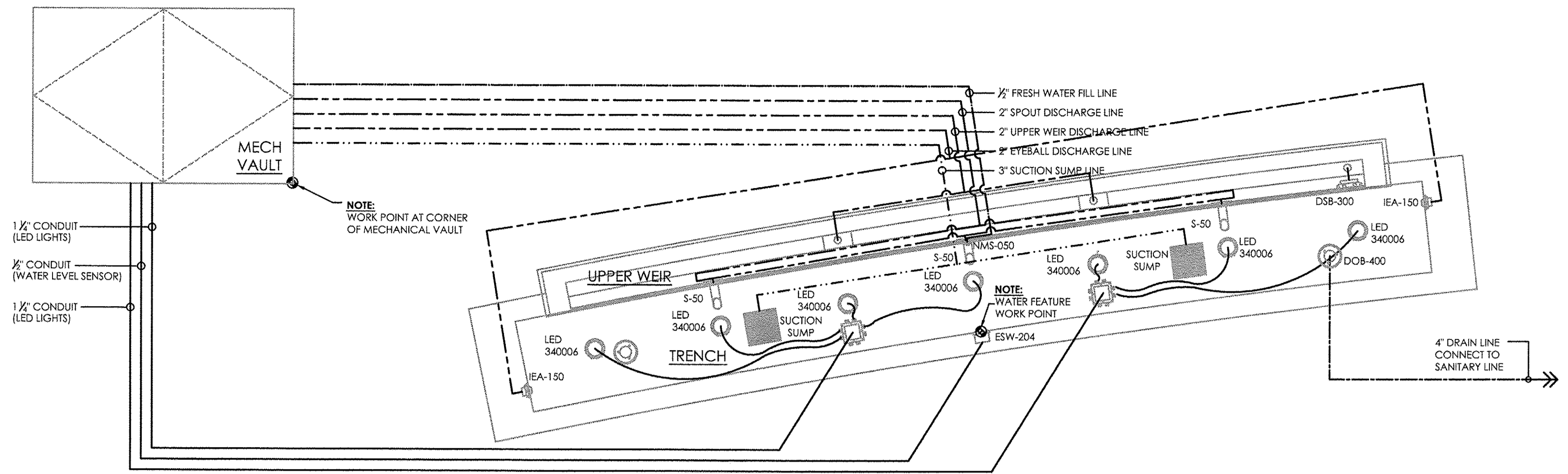


USER NAME =	DESIGNED — MIA	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — MIA	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — RJW	REVISED — 90% 3-04-2016
	DATE — 6-17-2016	REVISED — 95% 4-27-2016

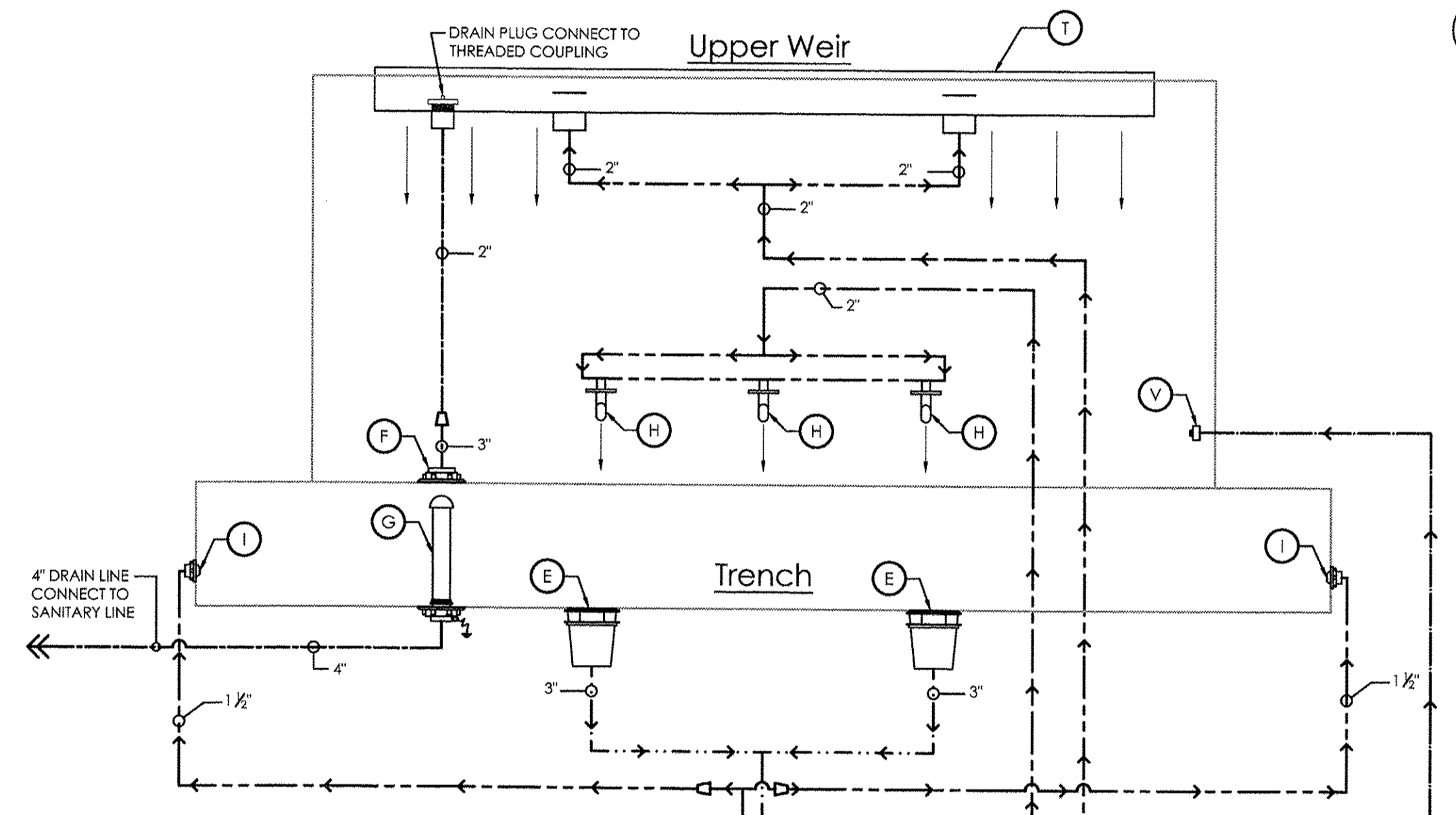
EAST PLATFORM RECONSTRUCTION WATER FEATURE - NORTH	
SCALE: N/A	SHEET NO. ___ OF ___ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	40
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	

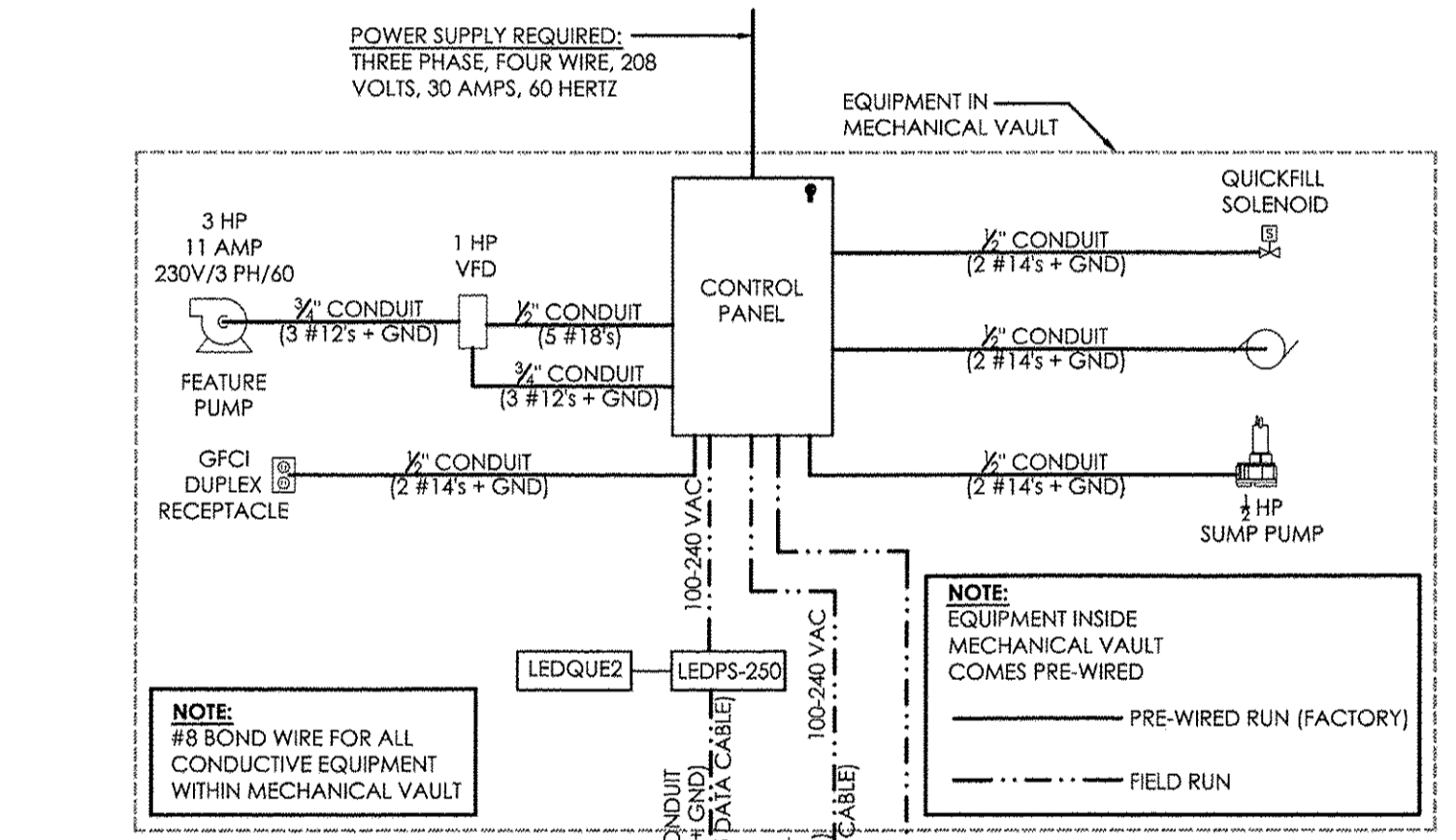




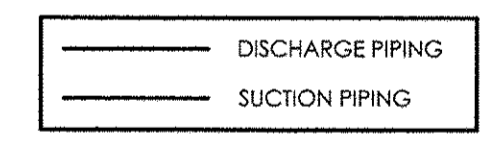
1 SUCTION, DISCHARGE, DRAINAGE AND ELECTRICAL PIPING PLAN  
SCALE: 1/2" = 1'-0"



2 PLUMBING SCHEMATIC  
SCALE: NONE



3 ELECTRICAL DIAGRAM  
SCALE: NONE



NOTE:  
3/4\"/>

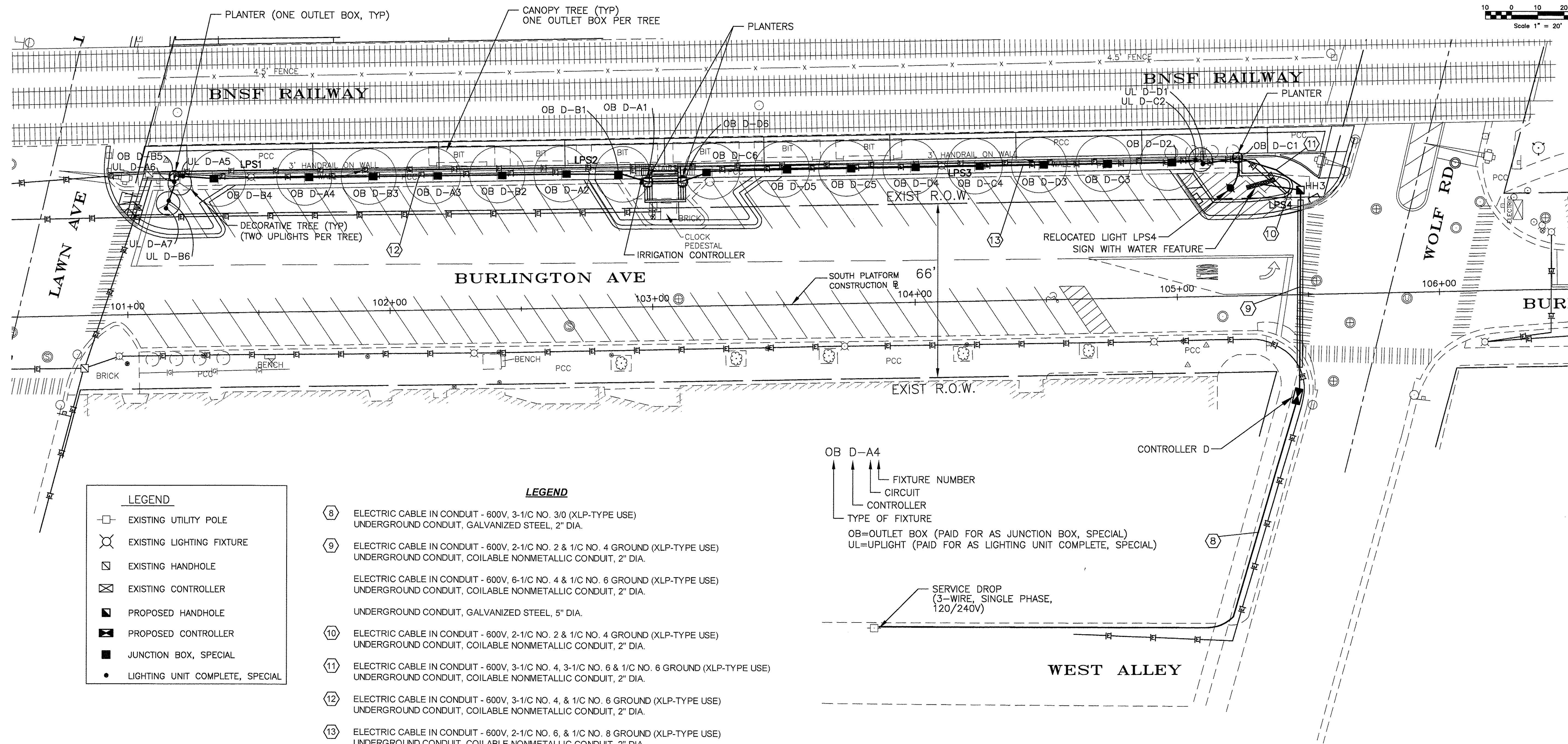
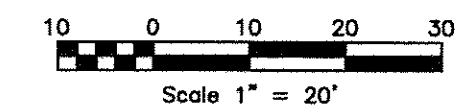
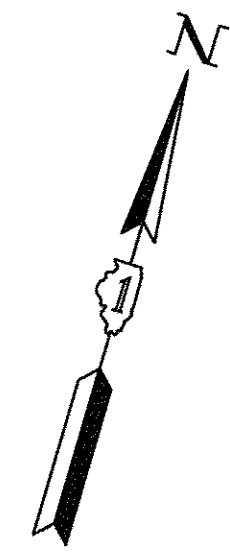
NOTE:  
PLUMBING CONTRACTOR TO CHECK WITH LOCAL PLUMBING CODES FOR THIS CONNECTION



USER NAME =	DESIGNED — MIA	REVISED — 30% 1-06-2016
PLOT SCALE =	DRAWN — MIA	REVISED — 60% 2-02-2016
PLOT DATE =	CHECKED — RJV	REVISED — 90% 3-04-2016
	DATE — 6-17-2016	REVISED — 95% 4-27-2016

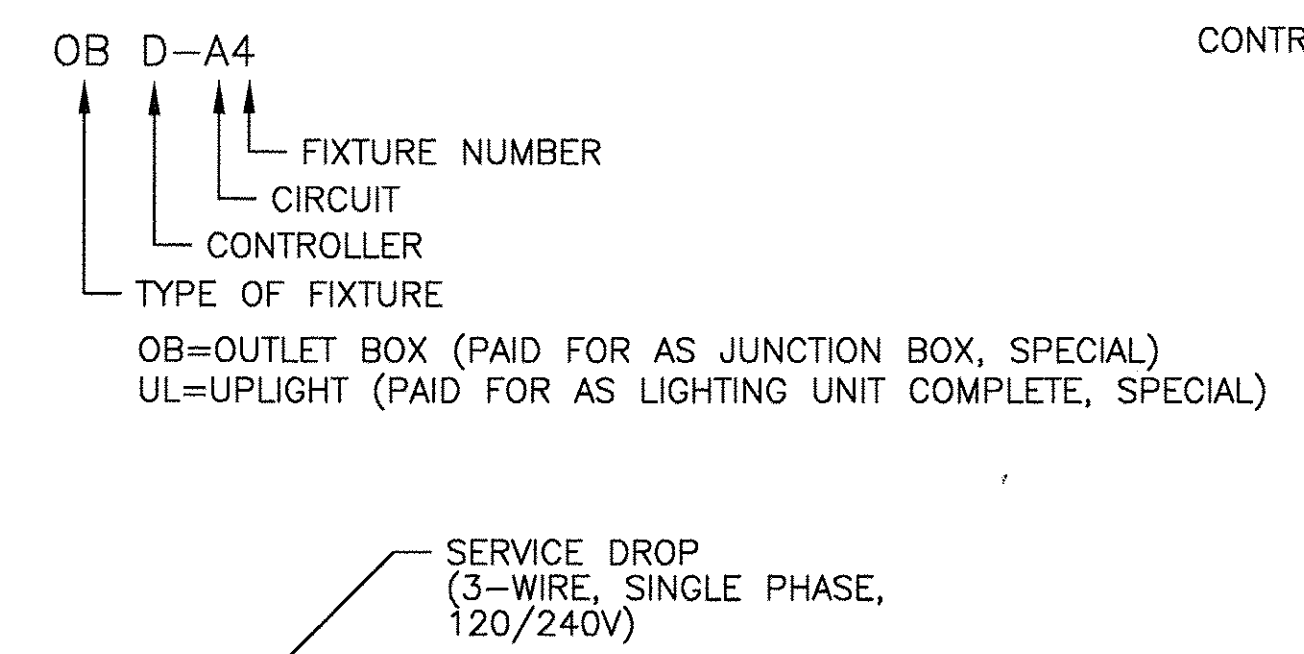


FOR CONTINUATION TO NORTH, SEE SHEET 42



LEGEND	
	EXISTING UTILITY POLE
	EXISTING LIGHTING FIXTURE
	EXISTING HANDHOLE
	EXISTING CONTROLLER
	PROPOSED HANDHOLE
	PROPOSED CONTROLLER
	JUNCTION BOX, SPECIAL
	LIGHTING UNIT COMPLETE, SPECIAL

LEGEND	
	ELECTRIC CABLE IN CONDUIT - 600V, 3-1/C NO. 3/0 (XLP-TYPE USE) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
	ELECTRIC CABLE IN CONDUIT - 600V, 2-1/C NO. 2 & 1/C NO. 4 GROUND (XLP-TYPE USE) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
	ELECTRIC CABLE IN CONDUIT - 600V, 6-1/C NO. 4 & 1/C NO. 6 GROUND (XLP-TYPE USE) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
	ELECTRIC CABLE IN CONDUIT - 600V, 3-1/C NO. 4, 3-1/C NO. 6 & 1/C NO. 6 GROUND (XLP-TYPE USE) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
	ELECTRIC CABLE IN CONDUIT - 600V, 3-1/C NO. 4, & 1/C NO. 6 GROUND (XLP-TYPE USE) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
	ELECTRIC CABLE IN CONDUIT - 600V, 2-1/C NO. 6, & 1/C NO. 8 GROUND (XLP-TYPE USE) UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.



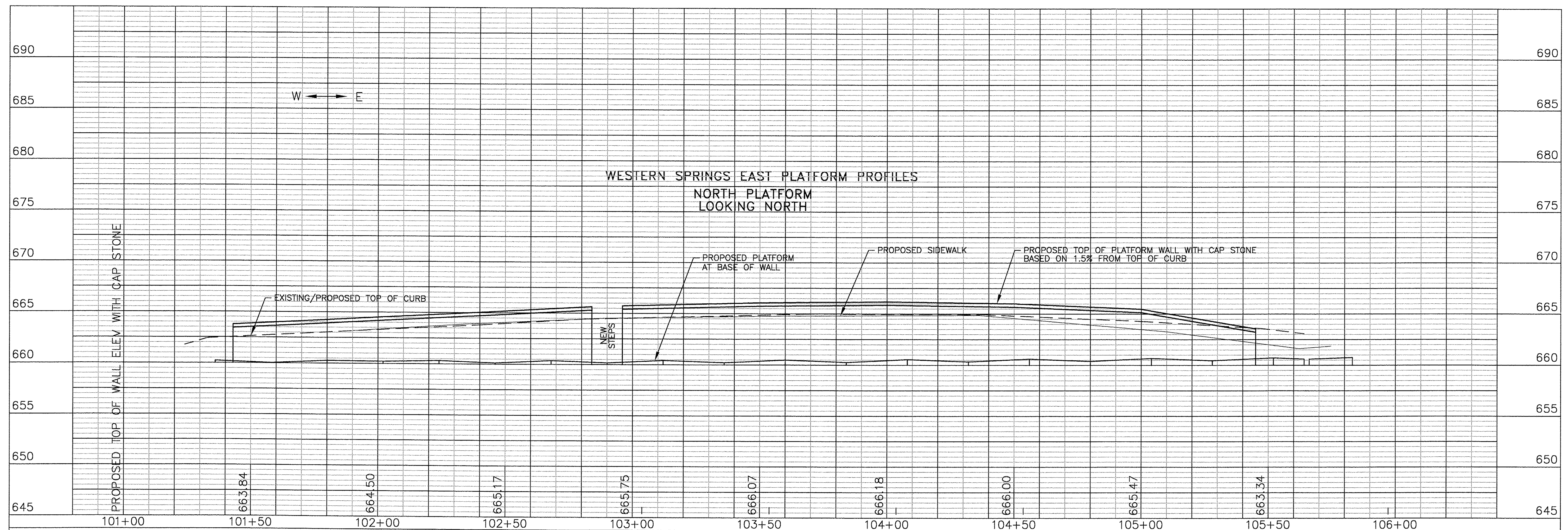
**JJB** JAMES J. BENES & ASSOCIATES, INC.  
950 Warrenville Road, Suite 101, Lake, Illinois 60532  
Tel. (630) 719-7570 - Fax (630) 719-7589

USER NAME =	DESIGNED -- DHS	REVISED -- 30% 1-06-2016
PLOT SCALE =	DRAWN -- BCD	REVISED -- 60% 2-02-2016
PLOT DATE =	CHECKED -- JCZ	REVISED -- 90% 3-04-2016
	DATE -- 6-17-2016	REVISED -- 95% 4-27-2016

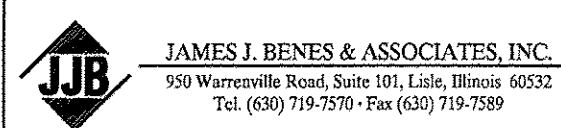
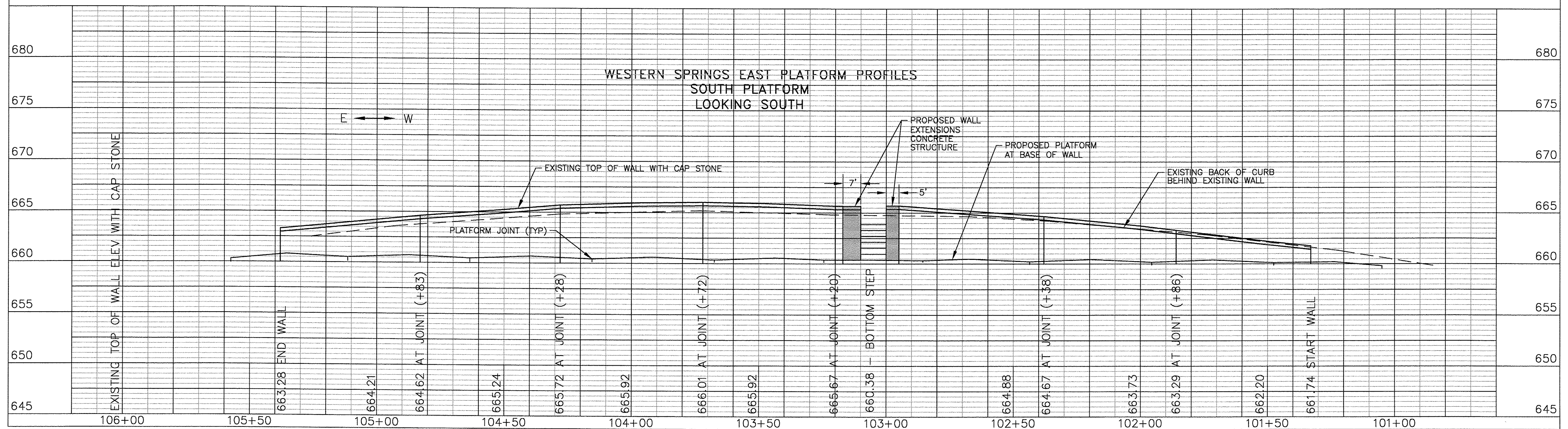
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION LIGHTING PLAN - SOUTH SIDE		
SCALE: 1"=20'	SHEET NO. ___ OF ___ SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	43
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				



SCALES:  
1" = 20' HOR  
1" = 5' VER



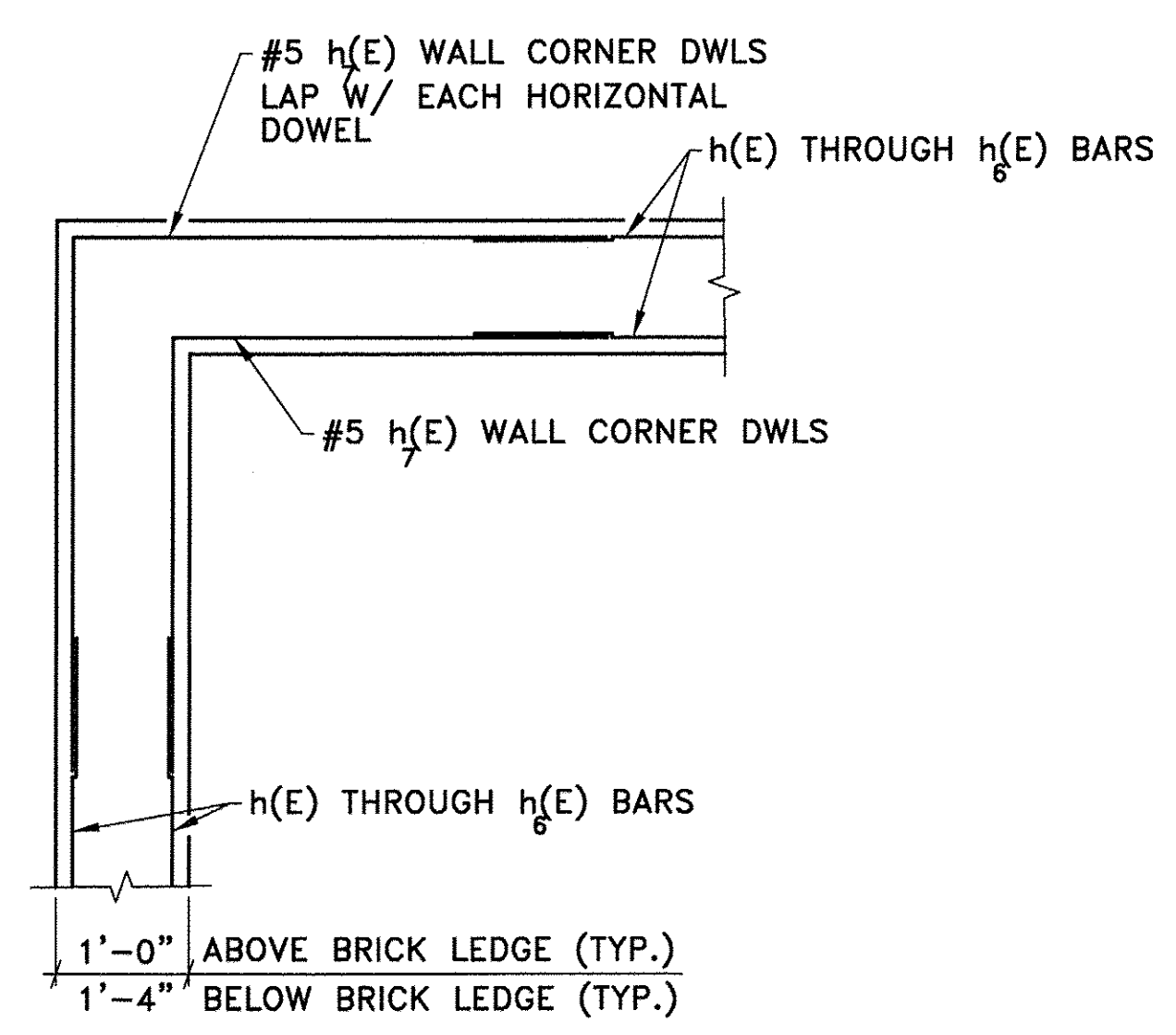
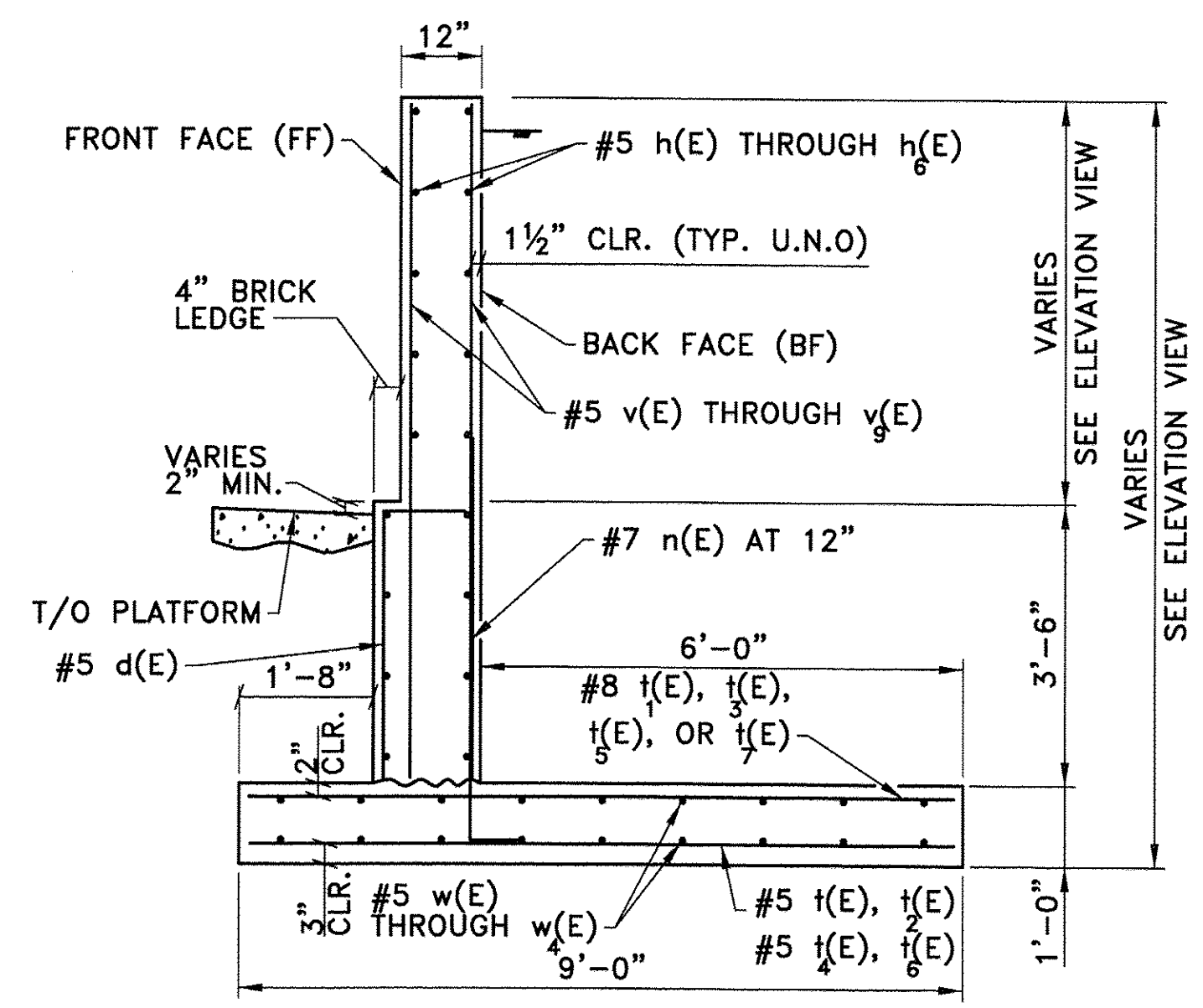
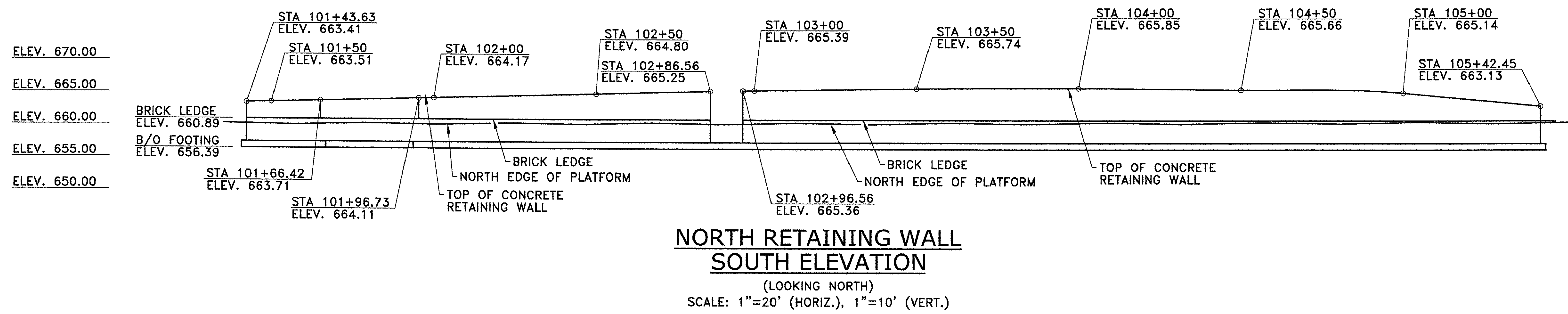
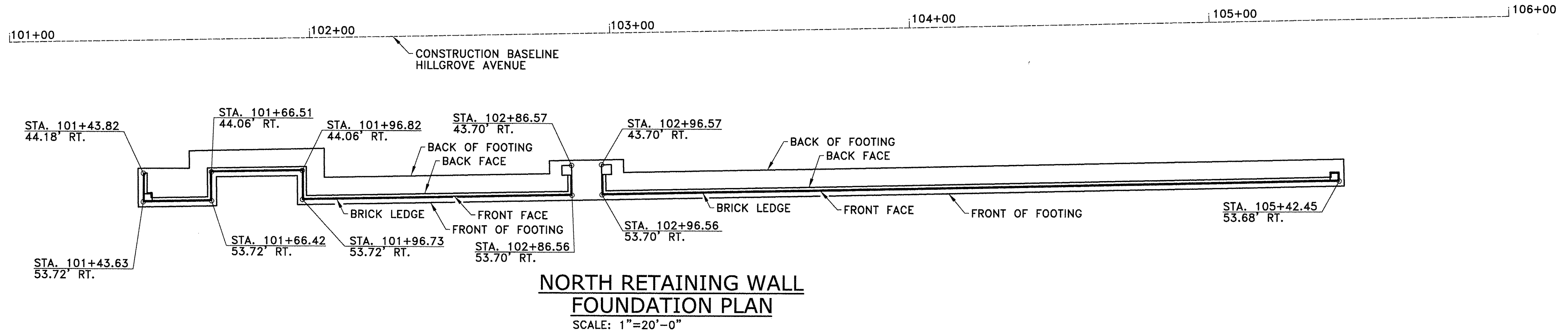
USER NAME =	DESIGNED - DHS	REVISED - 30% 1-06-2016
	DRAWN - SMP	REVISED - 60% 2-02-2016
PLOT SCALE =	CHECKED - JCZ	REVISED - 90% 3-04-2016
PLOT DATE =	DATE - 6-17-2016	REVISED - 95% 4-27-2016

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
WALL PROFILES

1"=20' HOR.  
SCALE: 1"=5' VERT. SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	44
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION (SHOWING DIMENSIONS & REINFORCEMENT)**  
SCALE: 1/2"=1'-0"

**TYPICAL WALL CORNER DETAIL**  
SCALE: 3/4"=1'-0"



USER NAME = kah	DESIGNED - RDP	REVISED -
PLOT SCALE = 0:1' 4" / in.	DRAWN - KAH	REVISED -
PLOT DATE = 7/12/2016	CHECKED - RDP	REVISED -
	DATE - 2016-07-11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION PLAN, ELEVATION AND DETAILS			
SCALE: AS SHOWN	SHEET ___ OF ___ SHEETS	STA. _____	TO STA. _____

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 45
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

# STRUCTURAL GENERAL NOTES

## DESIGN CRITERIA

### 1. REFERENCES:

- A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2016, ILLINOIS DEPARTMENT OF TRANSPORTATION.
- B. "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED APRIL 1, 2016, ILLINOIS DEPARTMENT OF TRANSPORTATION.
- C. "MANUAL FOR RAILWAY ENGINEERING, CHAPTER 8 CONCRETE STRUCTURES AND FOUNDATIONS," 2015, AMERICAN RAILWAY AND MAINTENANCE OF WAY ASSOCIATION.
- D. "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES," 2002 PLUS INTERIMS, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

### 2. RETAINING WALL LOADING:

- A. UNIT WEIGHT OF BACKFILL = 120 POUNDS PER CUBIC FOOT.
- B. FRICTION ANGLE OF BACKFILL = 30 DEGREES.
- C. COHESION OF BACKFILL = 0.
- D. EARTH PRESSURE DETERMINED BASED UPON RANKINE "AT-REST" STATE.
- E. SURCHARGE BASED UPON 2' OF OVERFILL BEHIND WALL (240 PSF).
- F. NET MAXIMUM ALLOWABLE SOIL BEARING PRESSURE = 2,000 PSF

### 3. RETAINING WALL PROPERTIES:

- A. REINFORCEMENT BARS: ASTM A-615 GRADE 60, EPOXY COATED.
- B. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4000 PSI.
- C. ALL CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF REFERENCE 1C ABOVE. THIS INCLUDES EXCAVATION, FORMWORK, BACKFILL, CONCRETE, REINFORCEMENT BARS, ETC. IF CERTAIN ARTICLES OF REFERENCES 1A, 1B, OR 1D ARE MORE RESTRICTIVE, THEY SHALL ALSO APPLY.
- D. BRICK: SHALL CONFORM TO ASTM C62, CURRENT EDITION. SEE LANDSCAPE ARCHITECT'S DOCUMENTS FOR MORE INFORMATION.
- E. FLASHINGS AND LIMESTONE CAPS: SEE LANDSCAPE ARCHITECT'S DOCUMENTS FOR MORE INFORMATION. ATTACH CAPS TO CONCRETE WALL WITH STAINLESS STEEL ANCHORS.

## GENERAL

- 1. ALL WORKERS SHALL COMPLY WITH ALL SAFETY REQUIREMENTS OF METRA AND BNSF. THIS INCLUDES OBTAINING PROPER CERTIFICATIONS REGARDING SAFETY TRAINING, ETC.
- 2. A RAILROAD FLAGGER WILL BE REQUIRED TO BE ON SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- 3. THE PLATFORM WILL BE CLOSED DURING ALL WORK. THE CONTRACTOR SHALL ERECT SIGNING AND BARRICADES TO KEEP THE GENERAL PUBLIC AWAY FROM THE WORK AREA. OPEN HOLES SHALL BE COVERED AND/OR ROPED OFF TO PREVENT ACCIDENTS.
- 4. THE FLAGGER MAY REQUIRE THAT CERTAIN OPERATIONS CEASE DURING THE APPROACH AND PASSING OF TRAINS. CONTRACTOR SHALL TAKE NOTE OF THIS AND CONSIDER IT IN HIS PRICING.
- 5. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WORK.

## EXCAVATION


- 1. ALL EXCAVATIONS SHALL BE KEPT DEWATERED UNTIL AFTER BACKFILLING AND COMPACTION OPERATIONS ARE COMPLETE.
- 2. UPON COMPLETION OF EXCAVATION FOR ALL FOUNDATIONS, NOTIFY THE ENGINEER THAT THE SUBGRADE IS READY FOR INSPECTION. NO FOUNDATION CONCRETE MAY BE POURED UNTIL AFTER THE SUBGRADE HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ENGINEER. SUCH APPROVAL MAY BE SUBJECT TO CORRECTIVE MEASURES AS OUTLINED HEREIN.
- 3. WHERE FOUNDATION SUBGRADE IS INADVERTENTLY OVER EXCAVATED, REMOVE ALL DISTURBED SOIL AND REPLACE TO PROPER GRADE WITH LEAN CONCRETE OR GRANULAR FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 4. WHERE THE ENGINEER FINDS UNSUITABLE SOIL UNDER FOUNDATIONS, OVER EXCAVATE UNSUITABLE MATERIAL AS DIRECT BY THE ENGINEER AND REPLACE WITH LEAN CONCRETE OR GRANULAR FILL COMPACTED TO 95% STANDARD PROCTOR DENSITY.

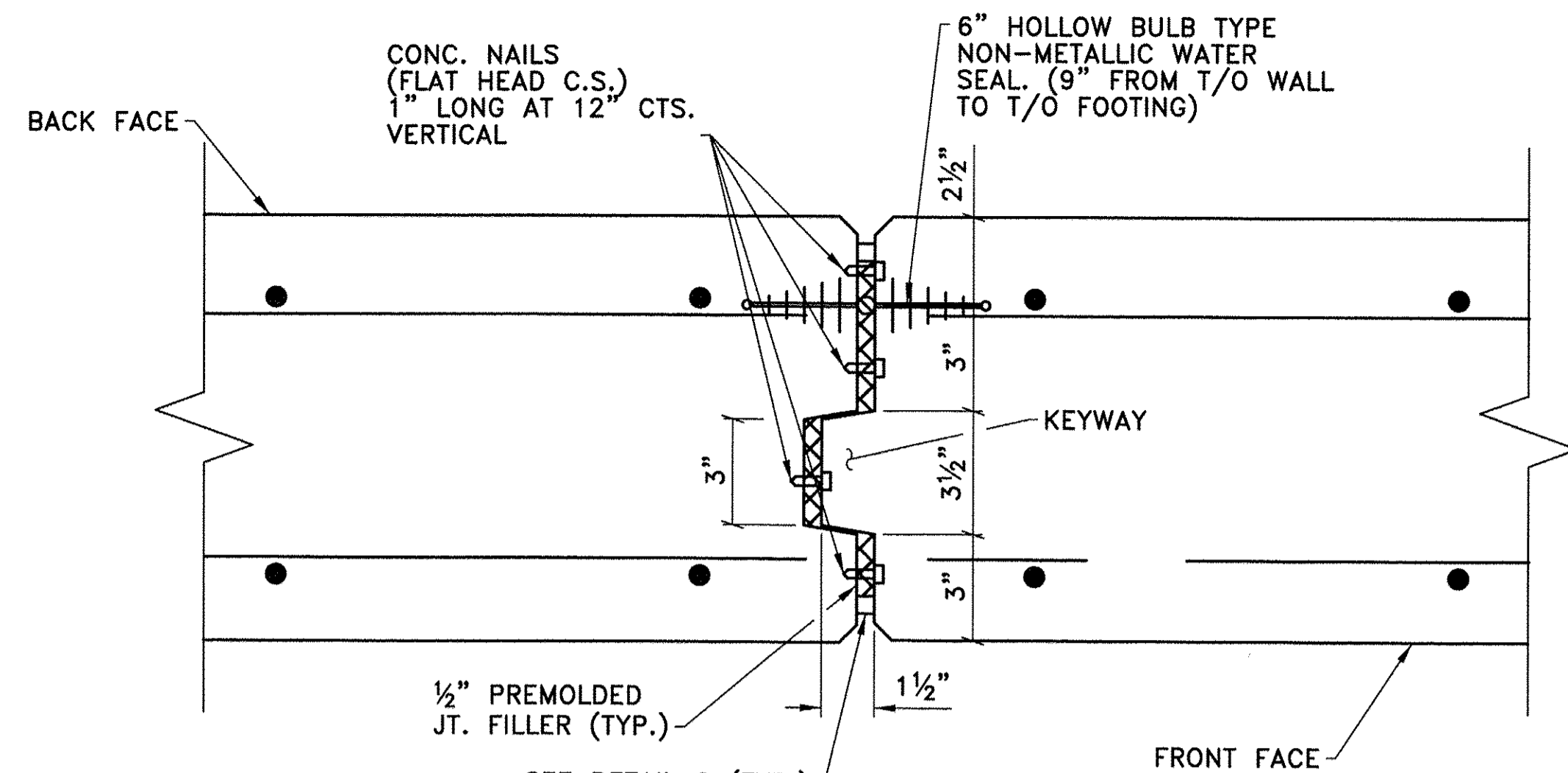
## NEW CONCRETE

- 1. MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE 1½" UNLESS NOTED OTHERWISE.
- 2. ALL REINFORCEMENT SHALL BE PLACED AND SOLIDLY TIED IN PLAN POSITION BEFORE CONCRETE IS POURED.
- 3. HEATING OR WELDING OF REINFORCEMENT WILL NOT BE PERMITTED.
- 4. DO NOT USE CALCIUM CHLORIDE IN CONCRETE.
- 5. AIR ENTRAINMENT SHALL RESULT IN TOTAL AIR CONTENT BETWEEN 5% AND 8%.
- 6. ALL EXPOSED CONCRETE EDGES SHALL RECEIVE ¼"x¼" CHAMFERS.
- 7. SUBMIT CONCRETE MIX DESIGN FOR ENGINEER'S REVIEW.

## CONCRETE REPAIRS

- 1. THE EXISTING BRICK FASCIA ON THE SOUTH WALL IS TO BE REMOVED AND REPLACED.
- 2. CARE SHALL BE EXERCISED DURING BRICK REMOVAL TO MINIMIZE DAMAGE TO EXISTING BRICK TIES AND CONCRETE BACK-UP. NEW BRICK TIES SHALL BE PROVIDED TO REPLACE THOSE DAMAGED BY REMOVAL OPERATIONS. ALSO, SOME SOUND CONCRETE MAY COME OFF WITH THE BRICK. IF SO, CONTRACTOR SHALL PATCH THESE AREAS WITH MORTAR AS THE NEW BRICK IS BEING PLACED.
- 3. THE ENGINEER WILL INSPECT THE CONCRETE BACK-UP AFTER BRICK REMOVAL OPERATIONS ARE COMPLETE. IF AREAS OF UNSOUND CONCRETE ARE FOUND, THEY SHALL BE REPAIRED AS FOLLOWS:
  - A. THE ENGINEER WILL MARK THE PERIMETER OF AREAS TO BE REMOVED. REPAIR CONFIGURATIONS WILL BE KEPT SIMPLE, WITH SQUARED CORNERS.
  - B. THE REPAIR PERIMETER SHALL BE SAWED TO A ½ INCH DEPTH. IF SAWING CAUSES A CONCRETE BREAK BEYOND THE ORIGINAL REPAIR PERIMETER, A NEW PERIMETER SHALL BE RE-SAWN.
  - C. NEXT, USING CHIPPING HAMMERS OR OTHER MEANS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL LOOSE, UNSOUND CONCRETE FROM THE REPAIR AREAS.
  - D. IF REINFORCEMENT BARS ARE ENCOUNTERED AND EXPOSED WITHIN THE REMOVAL LIMITS, THE REMOVAL SHALL CONTINUE TO AT LEAST ¾" BEHIND THE BACK FACE OF THE BAR IN QUESTION, OR TO LIMITS OF THE UNSOUND CONCRETE, WHICHEVER IS DEEPER. REMOVAL MUST PROCEED UNTIL SOUND CONCRETE IS ENCOUNTERED. OBTAIN THE ENGINEER'S APPROVAL PRIOR TO REMOVING TO A DEPTH GREATER THAN 5 INCHES.
  - E. ALL EXPOSED REINFORCEMENT SHALL BE CLEANED OF CONCRETE AND CORROSION BY BLAST CLEANING.
  - F. THE NEW CONCRETE SHALL BE ANCHORED TO THE EXISTING WALL WITH ¾" DIAMETER HOOK BOLTS FOR ALL REPAIR AREAS WHERE THE REMOVAL DEPTH IS GREATER THAN 8 INCHES.
  - G. THE CONCRETE PATCH SHALL BE FORMED PER ARTICLES 503.05 AND 503.06 OF REFERENCE 1.
  - H. THE CONCRETE SHALL MEET THE REQUIREMENTS OF CLASS SI CONCRETE, PLACED AND CONSOLIDATED IN ACCORDANCE WITH ARTICLE 503.07 OF REFERENCE 1.
  - I. THIS ITEM SHALL BE PAID FOR AT THE CONTRACT UNIT BID PRICE PER SQUARE FOOT FOR STRUCTURAL REPAIR OF CONCRETE.

	USER NAME = kah	DESIGNED - RDP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST PLATFORM RECONSTRUCTION STRUCTURAL GENERAL NOTES	F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 46	CONTRACT NO. 61D18 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 0.1" = 1'-0"	CHECKED - RDP	REVISED -			SCALE: AS SHOWN	SHEET ___ OF ___ SHEETS	STA. _____	TO STA. _____		
	PLOT DATE = 7/12/2016	DATE - 2016-07-11	REVISED -								



CONC. NAILS (FLAT HEAD C.S.) 1" LONG AT 12" CTS. VERTICAL

6" HOLLOW BULB TYPE NON-METALLIC WATER SEAL. (9" FROM T/O WALL TO T/O FOOTING)

2 1/2"

3"

3"

3 1/2"

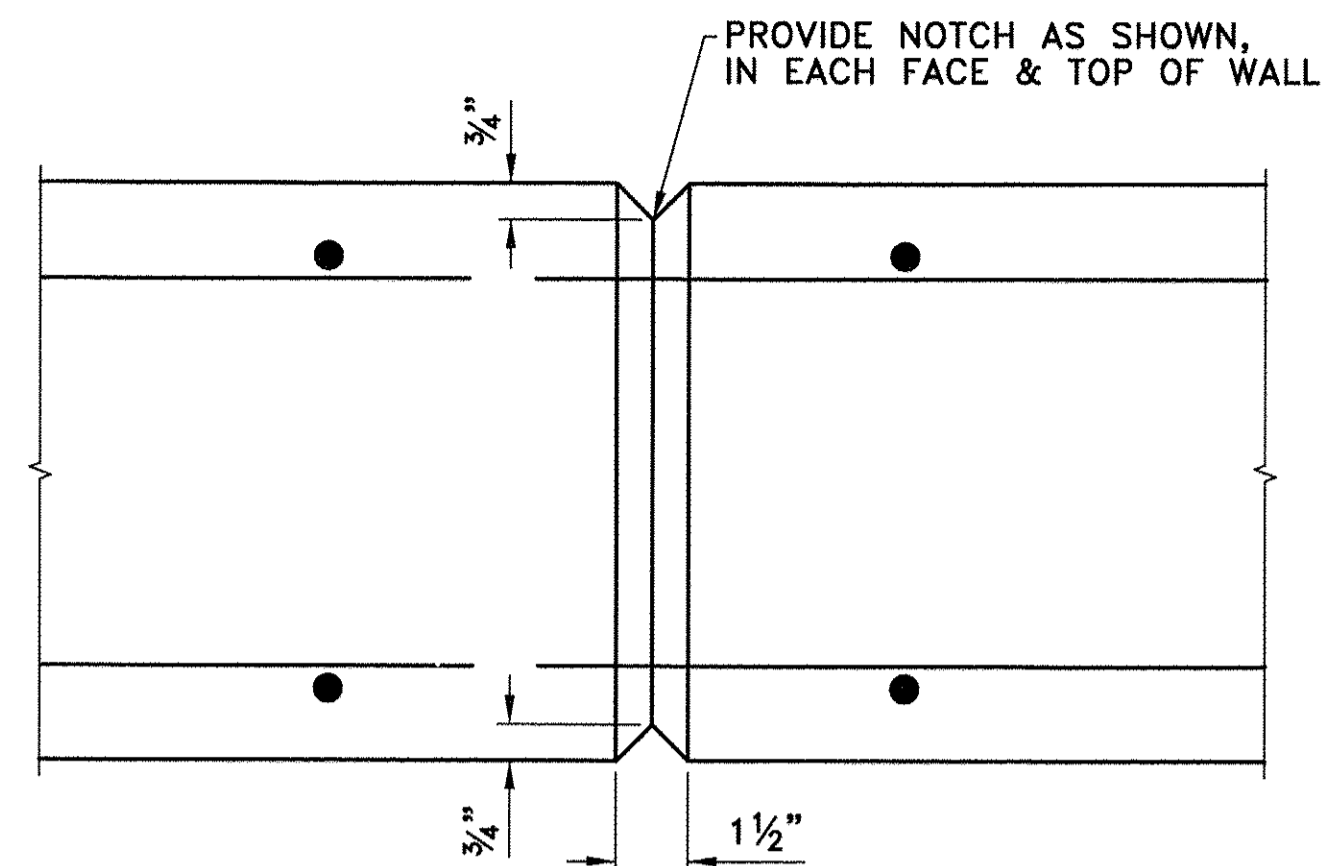
3"

1 1/2"

1/2" PREMOLDED JT. FILLER (TYP.)

SEE DETAIL 2 (TYP.)

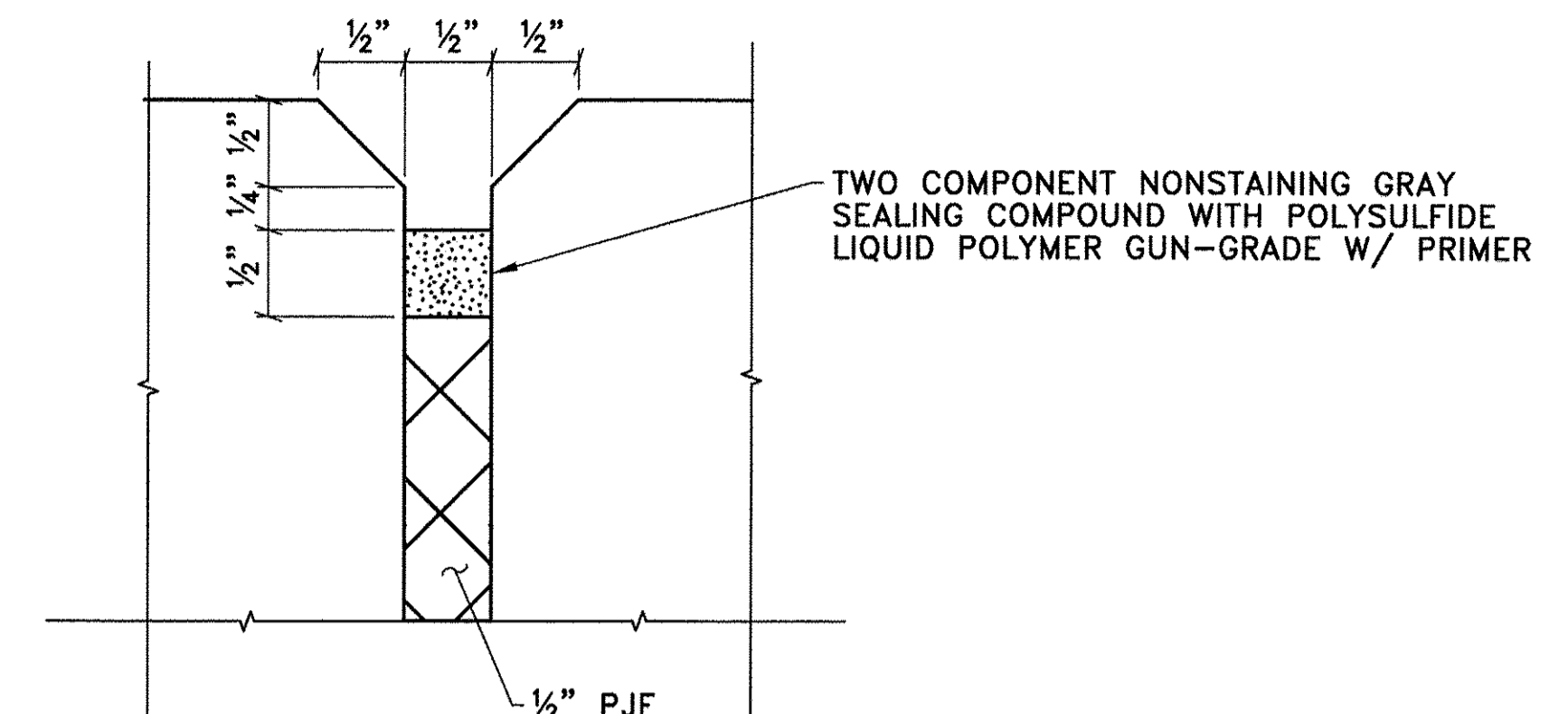
**NEW RET. WALL EXPANSION JOINT DETAIL**  
SCALE: 1 1/2"=1'-0"



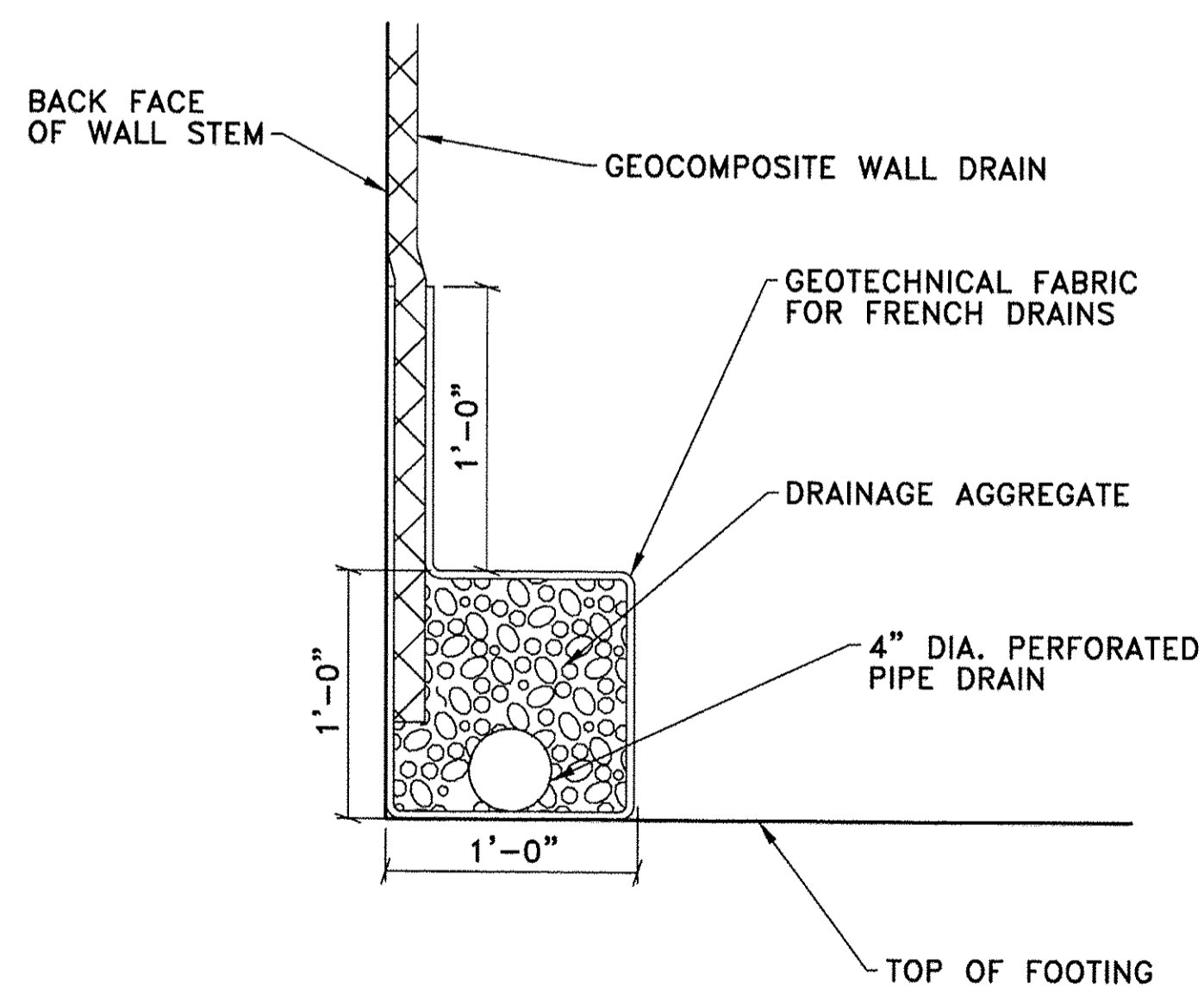
NOTES

1. REINF. CONTINUOUS THROUGH JOINT
2. SPACE AT 20' MAX. CENTERS

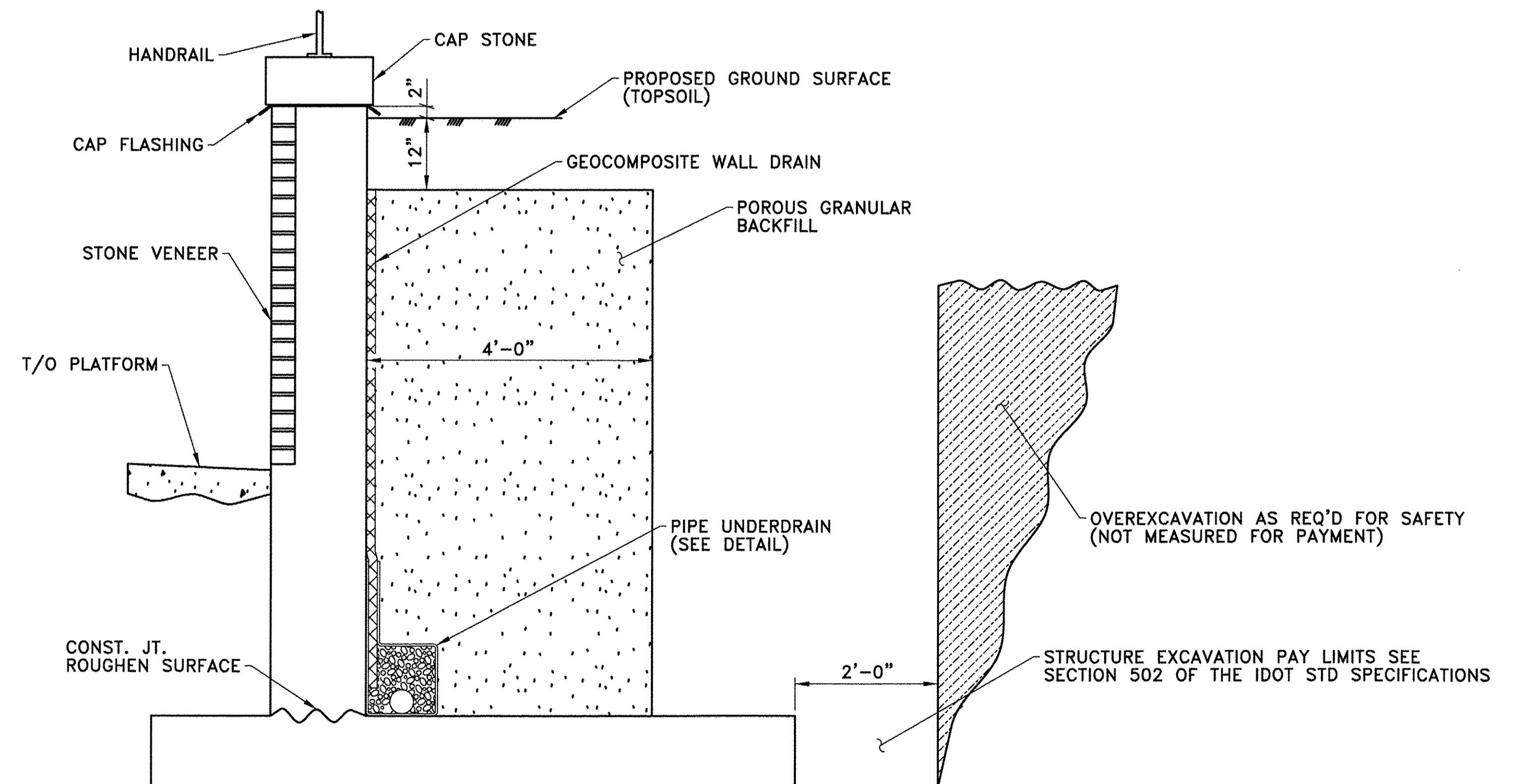
**NEW RET. WALL CONTROL JOINT DETAIL**  
SCALE: 3"=1'-0"



**DETAIL 2**  
NO SCALE



**PIPE UNDERDRAIN DETAIL**  
SCALE: 1 1/2"=1'-0"



**TYPICAL SECTION (SHOWING DRAINAGE)**  
SCALE: 3/4"=1'-0"



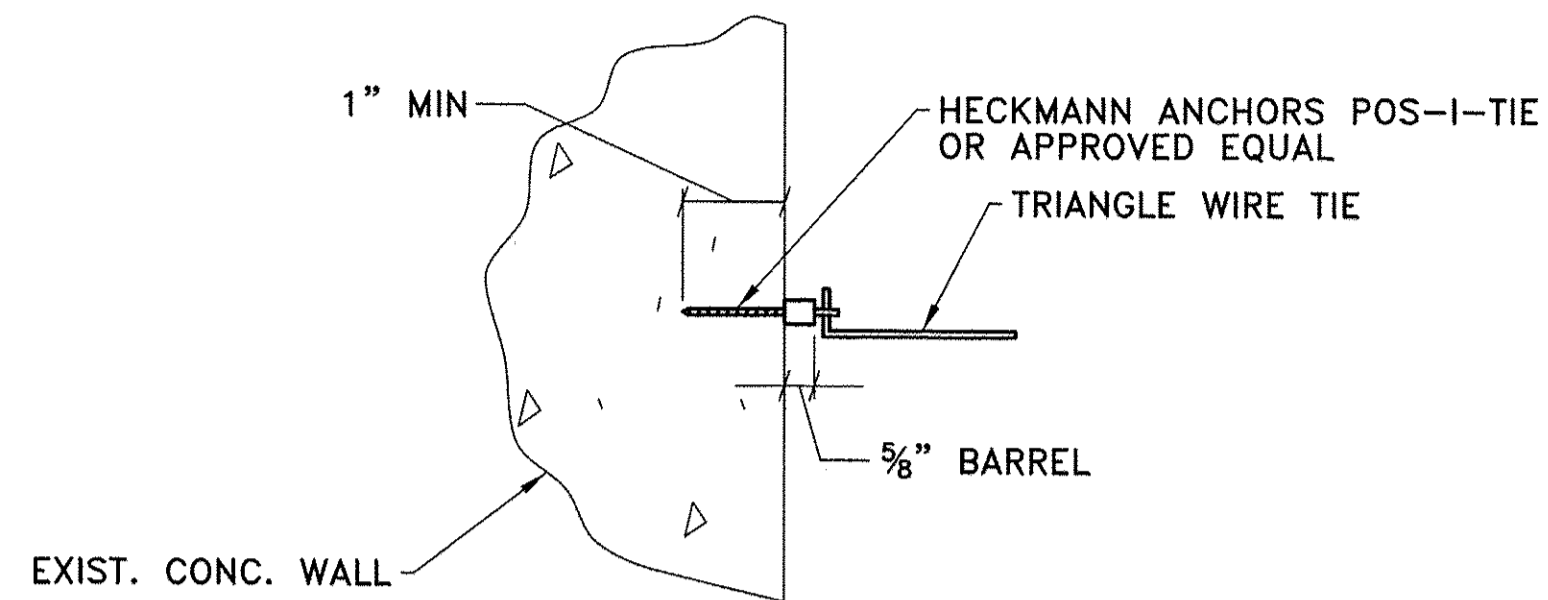
USER NAME = kah	DESIGNED - RDP	REVISED -
PLOT SCALE = 1/4" = 1'-0"	DRAWN - KJA	REVISED -
PLOT DATE = 7/12/2016	CHECKED - RDP	REVISED -
	DATE - 2016-07-11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

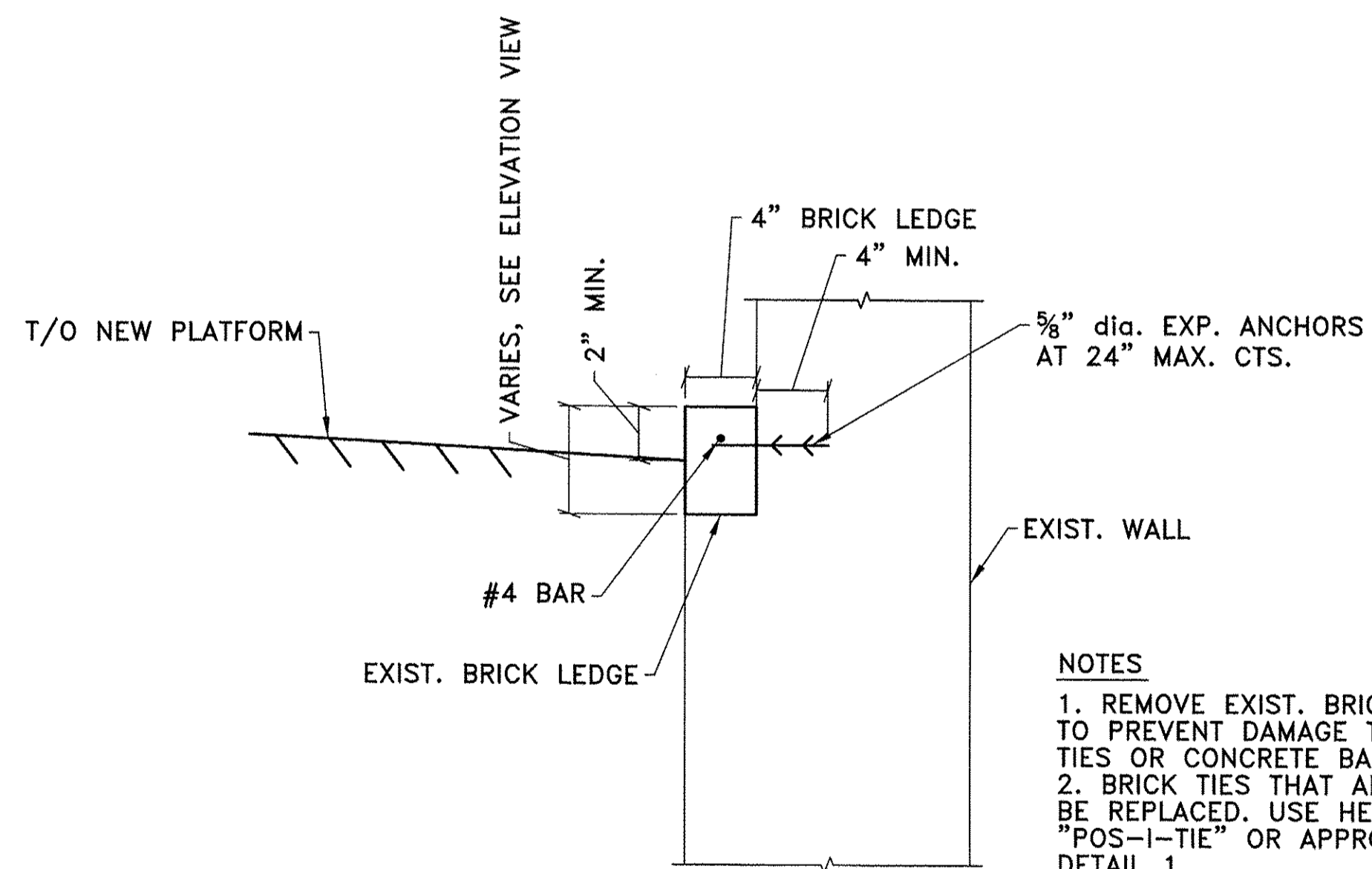
EAST PLATFORM RECONSTRUCTION  
STRUCTURAL DETAILS

SCALE: AS SHOWN SHEET \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE. 3783	SECTION 09-00091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 47
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				

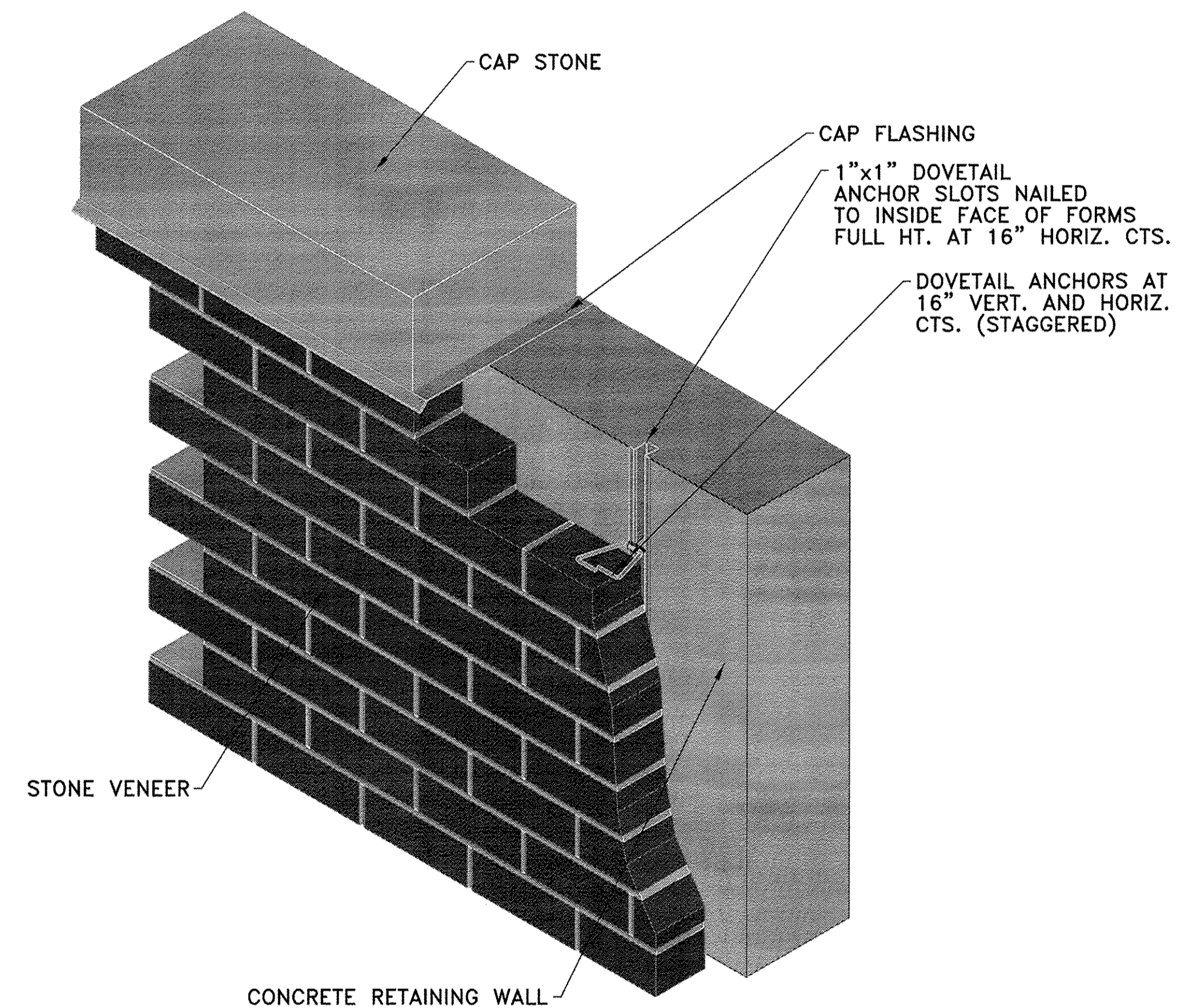


**DETAIL 1**  
SCALE: 3"=1'-0"



**SOUTH WALL BRICK LEDGE DETAIL**  
SCALE: 1 1/2"=1'-0"

**NOTES**  
1. REMOVE EXIST BRICK, EXERCISING CARE TO PREVENT DAMAGE TO EXISTING BRICK TIES OR CONCRETE BACK-UP.  
2. BRICK TIES THAT ARE DAMAGED SHALL BE REPLACED. USE HECKMANN ANCHORS "POS-I-TIE" OR APPROVED EQUAL. SEE DETAIL 1.



**NEW WALL BRICK TIE DETAIL**  
NO SCALE



USER NAME = kah	DESIGNED - RDP	REVISED -
PLOT SCALE = 0:1 1/4" / 1in.	DRAWN - KAH/KJA	REVISED -
PLOT DATE = 7/12/2016	CHECKED - RDP	REVISED -
	DATE - 2016-07-11	REVISED -

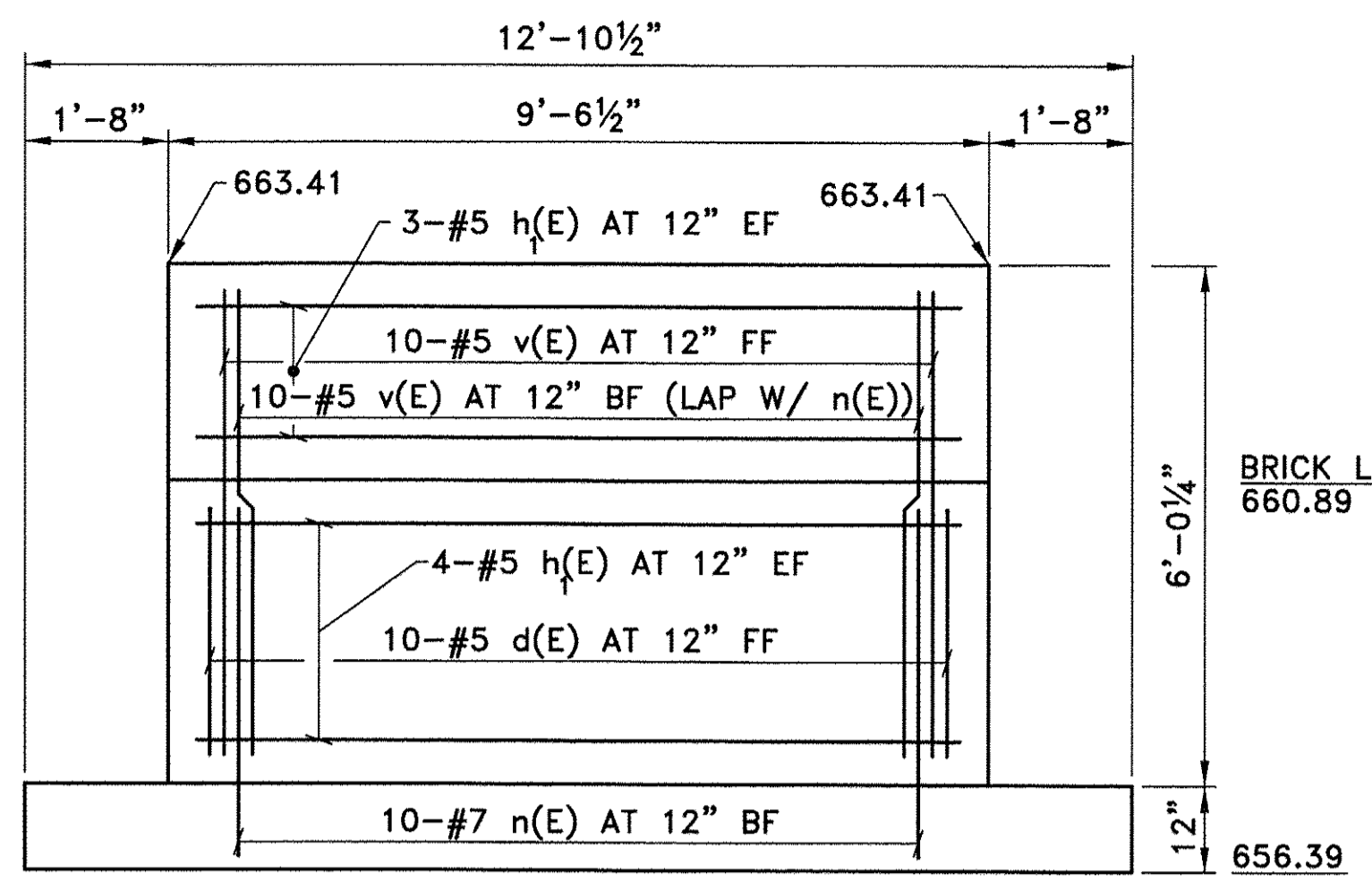
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
STRUCTURAL DETAILS

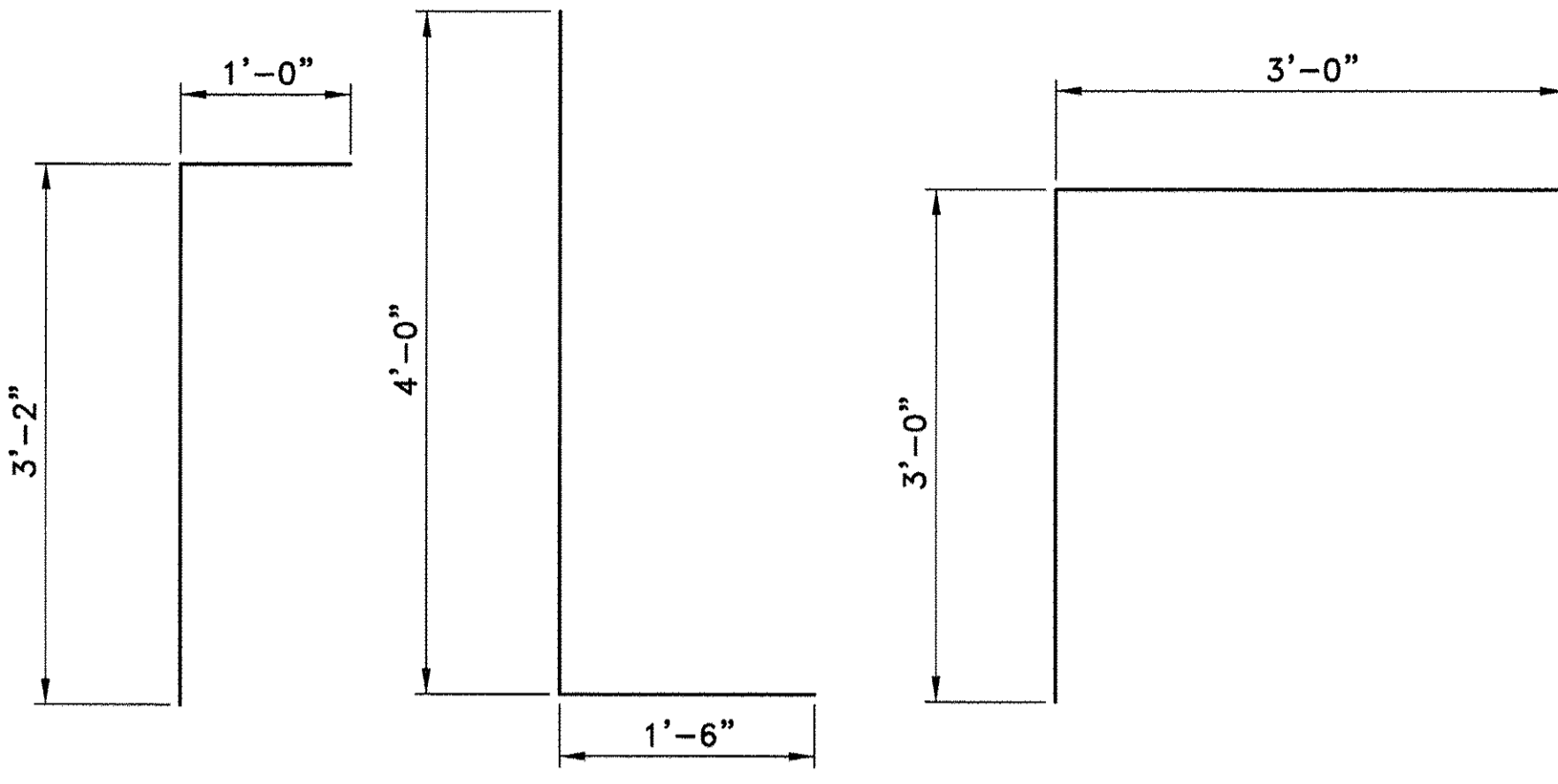
SCALE: AS SHOWN SHEET \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	48
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				





**SECTION A-A**  
SCALE: 1/2"=1'-0"



**BAR d(E) BAR n(E) BAR h(E)**

**NOTES**  
 1. BF = BACK FACE  
 2. FF = FRONT FACE  
 3. EF = EACH FACE  
 4. CAP STONE NOT SHOWN

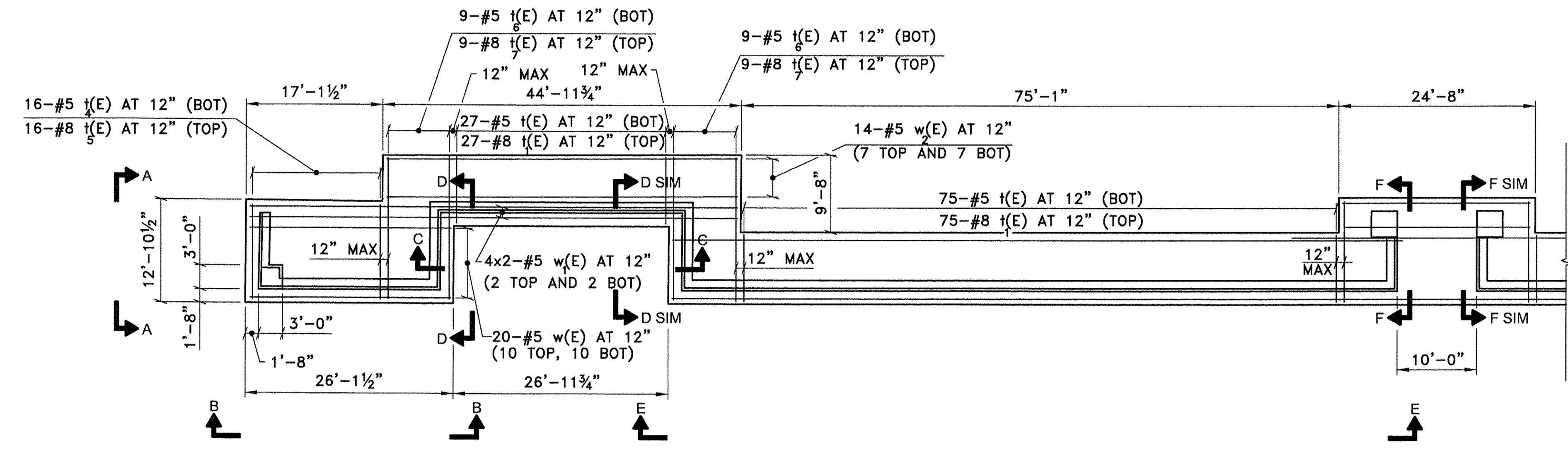
FOR SECTIONS OF WALL, SEE SHEETS S-5 TO S-7.

BARS INDICATED THUS 1x2-#4 ETC. INDICATES 1 LINE OF BARS WITH 2 LENGTHS PER LINE

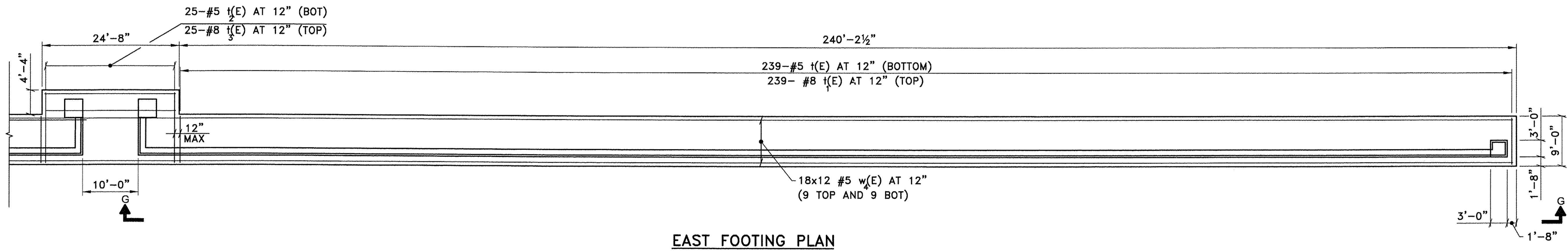
**BAR LAPS**  
 #5..... 3'-0"

**NORTH RETAINING WALL  
BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	452	#5	4'-2"	U
h(E)	14	#5	22'-5"	U
h <sub>1</sub> (E)	42	#5	9'-2"	U
h <sub>2</sub> (E)	14	#5	30'-0"	U
h <sub>3</sub> (E)	30	#5	14'-6"	U
h <sub>4</sub> (E)	34	#5	9'-8"	U
h <sub>5</sub> (E)	144	#5	28'-0"	U
h <sub>6</sub> (E)	48	#5	16'-0"	U
h <sub>7</sub> (E)	104	#5	6'-0"	U
n(E)	452	#7	5'-6"	L
t(E)	343	#5	8'-8"	U
t <sub>1</sub> (E)	343	#8	8'-8"	U
t <sub>2</sub> (E)	25	#5	13'-0"	U
t <sub>3</sub> (E)	25	#8	13'-0"	U
t <sub>4</sub> (E)	16	#5	12'-6"	U
t <sub>5</sub> (E)	16	#8	12'-6"	U
t <sub>6</sub> (E)	18	#5	18'-4"	U
t <sub>7</sub> (E)	18	#8	18'-4"	U
v(E)	66	#5	5'-10"	U
v <sub>1</sub> (E)	80	#5	6'-2"	U
v <sub>2</sub> (E)	60	#5	6'-6"	U
v <sub>3</sub> (E)	40	#5	6'-9"	U
v <sub>4</sub> (E)	40	#5	7'-0"	U
v <sub>5</sub> (E)	40	#5	7'-3"	U
v <sub>6</sub> (E)	30	#5	7'-6"	U
v <sub>7</sub> (E)	148	#5	7'-7"	U
v <sub>8</sub> (E)	108	#5	7'-9"	U
v <sub>9</sub> (E)	216	#5	8'-1"	U
w(E)	20	#5	25'-9"	U
w <sub>1</sub> (E)	8	#5	32'-6"	U
w <sub>2</sub> (E)	14	#5	44'-6"	U
w <sub>3</sub> (E)	6	#5	24'-4"	U
w <sub>4</sub> (E)	216	#5	31'-10"	U
STRUCTURE EXCAVATION	CU YDS	865		
CONCRETE STRUCTURES	CU YDS	289		
POROUS GRANULAR BACKFILL	CU YDS	480		
REINFORCEMENT BARS EPOXY COATED	LBS	45004		
GEOCOMPOSITE WALL DRAIN	SQ YDS	171		
PIPE UNDERDRAIN FOR STRUCTURES	LIN FT	439		

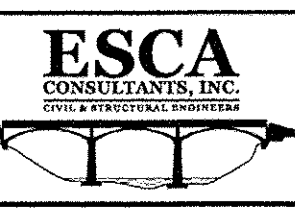


**WEST FOOTING PLAN**



**EAST FOOTING PLAN**

**FOOTING PLAN (SHOWING REINFORCEMENT)**  
SCALE: 1"=10'

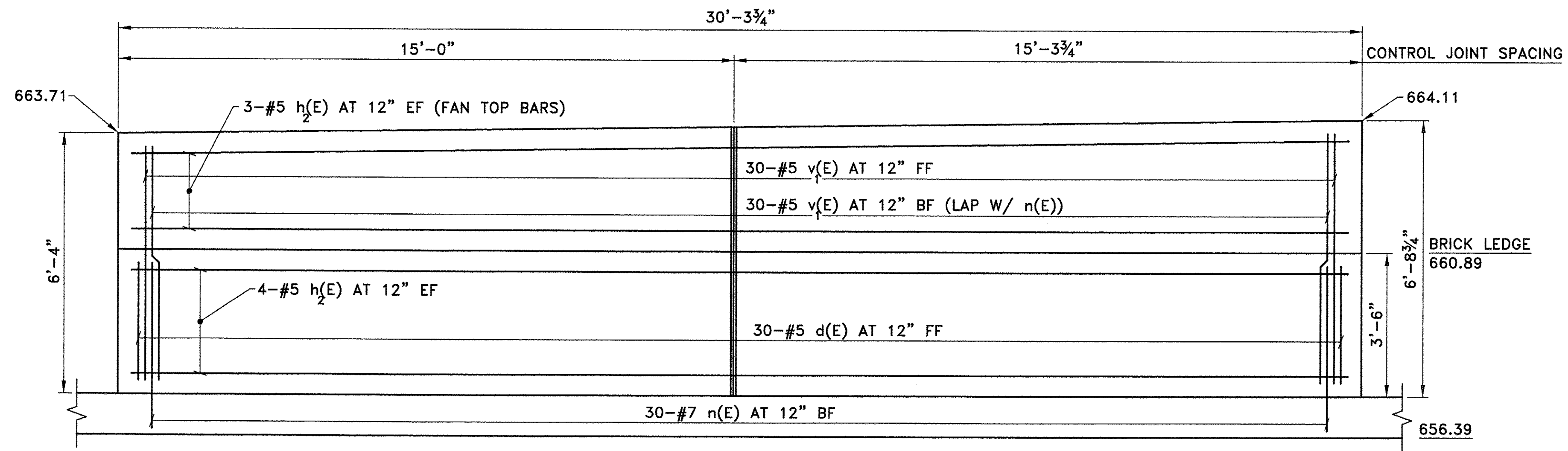


USER NAME = kah	DESIGNED - RDP	REVISED -
PLOT SCALE = 8:1 '1' / 16"	DRAWN - KAH	REVISED -
PLOT DATE = 7/12/2016	CHECKED - RDP	REVISED -
	DATE - 2016-07-11	REVISED -

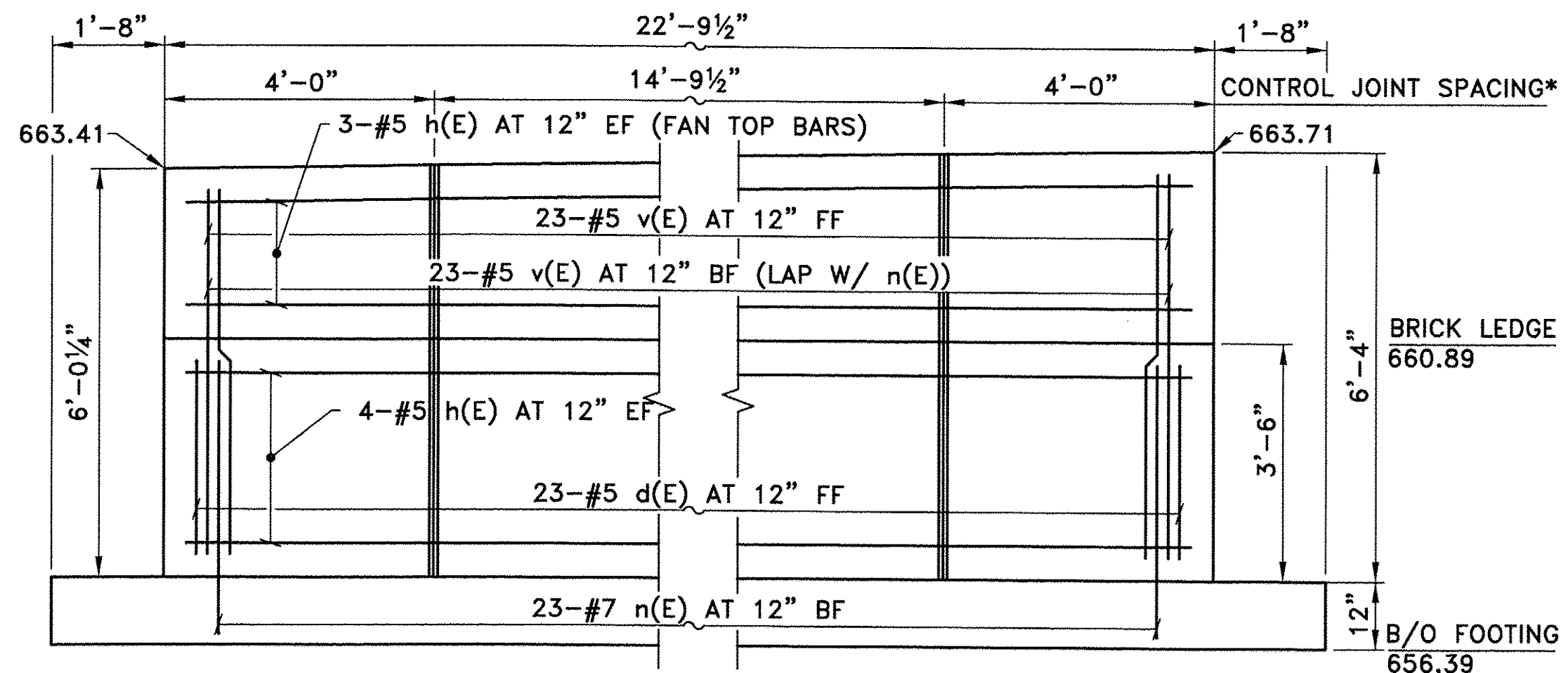
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION PLAN, ELEVATION AND DETAILS			
SCALE: AS SHOWN	SHEET ___ OF ___ SHEETS	STA. _____	TO STA. _____

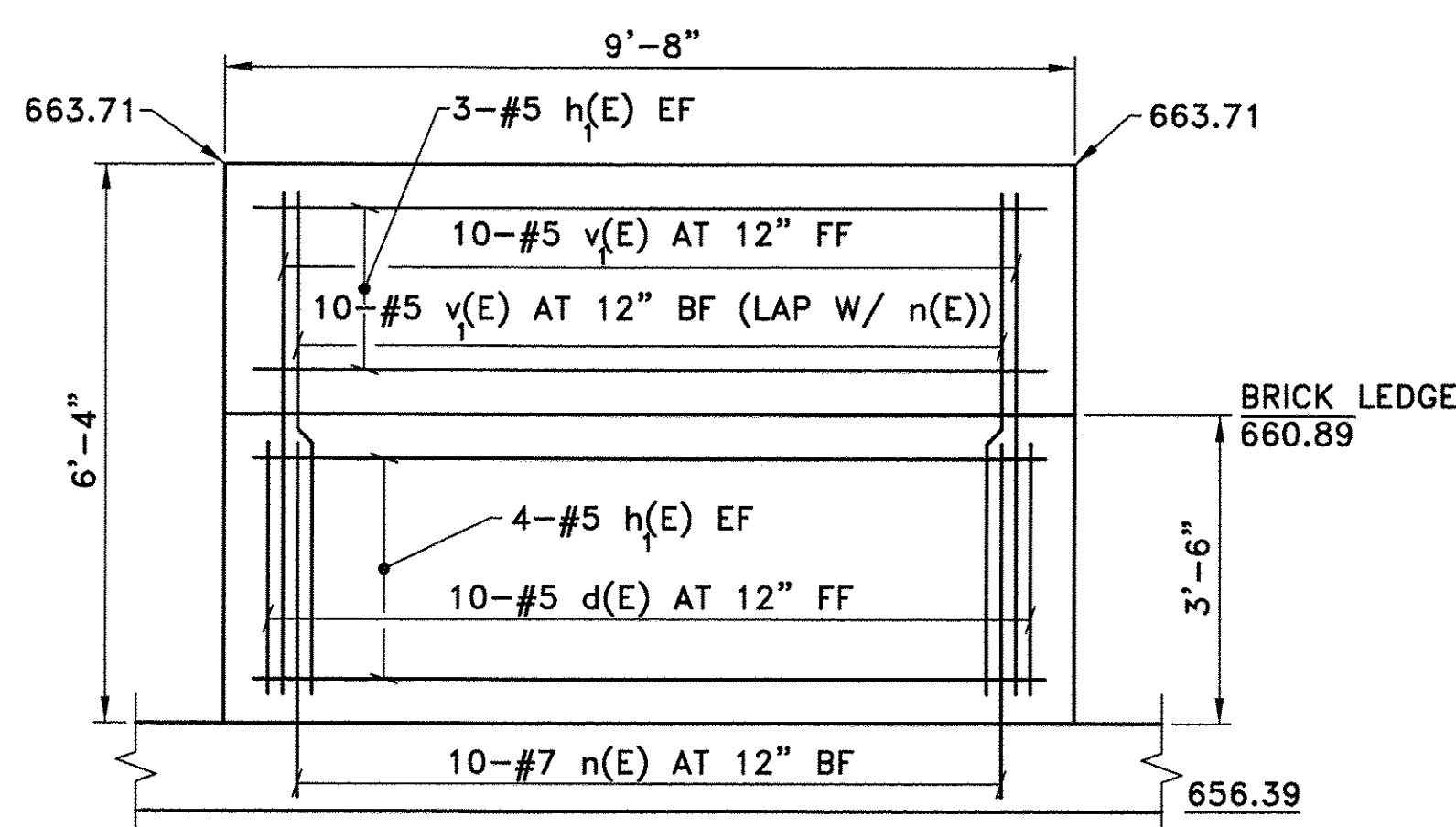
F.A.U. RTE. 3783	SECTION 09-0091-00-MS	COUNTY COOK	TOTAL SHEETS 58	SHEET NO. 49
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				



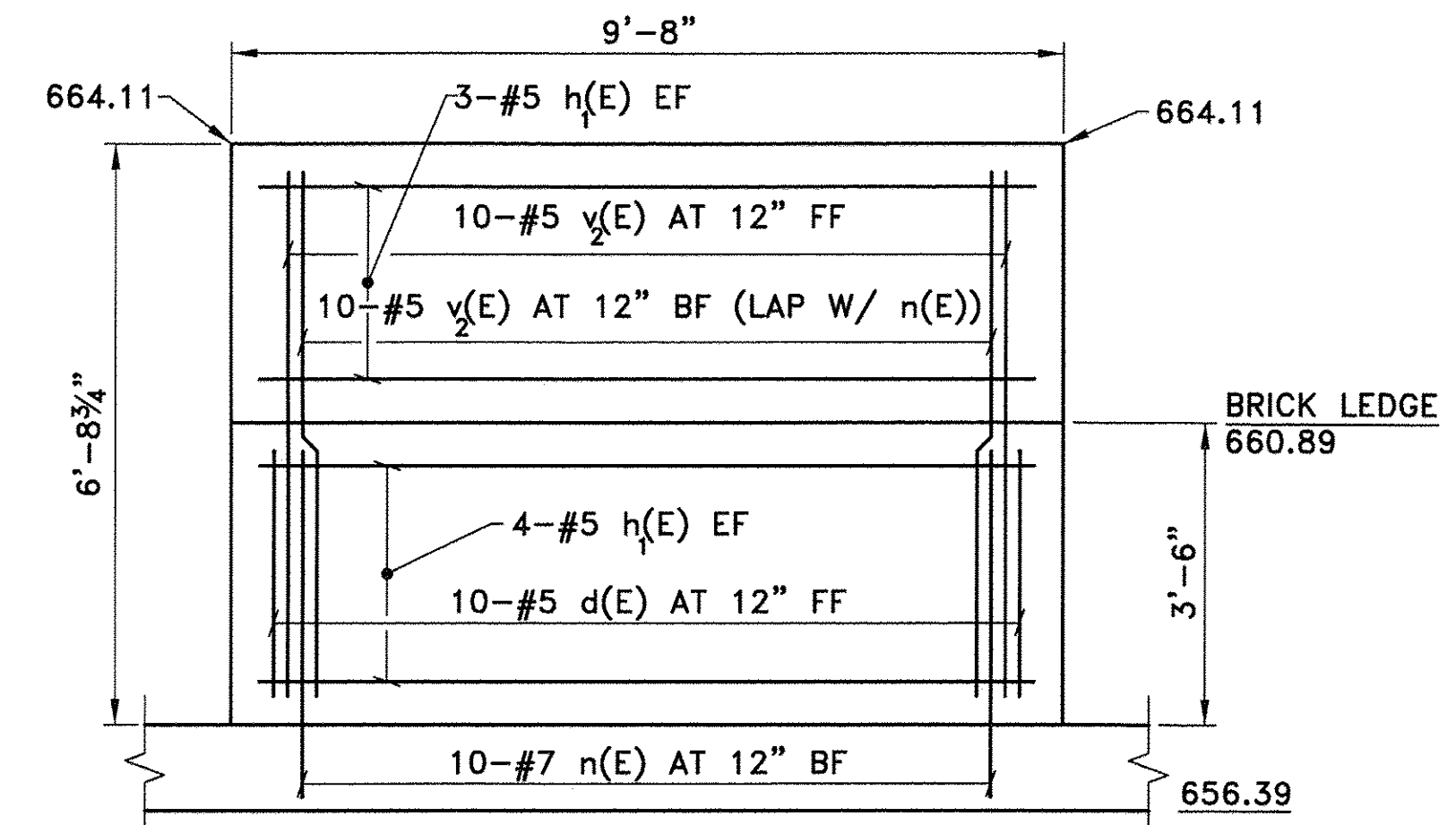
**SECTION C-C**  
SCALE: 1/2"=1'-0"



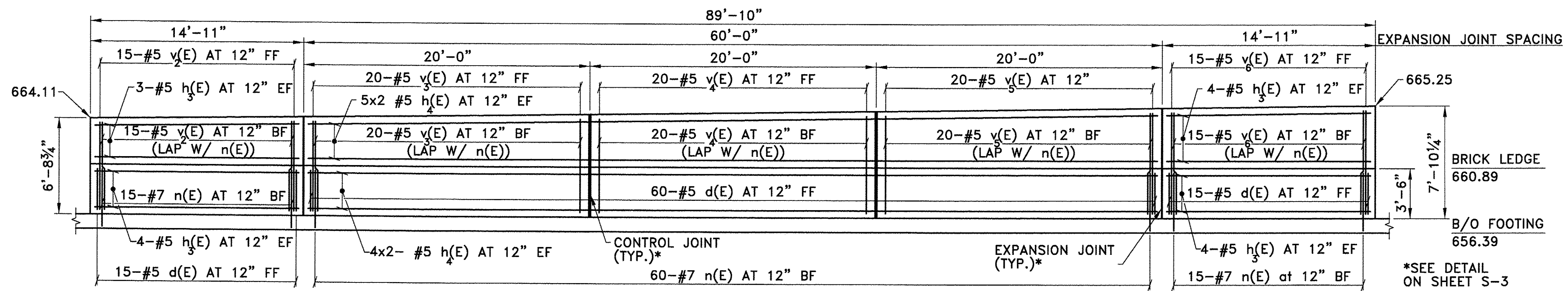
**SECTION B-B**  
SCALE: 1/2"=1'-0"



**SECTION D-D**  
SCALE: 1/2"=1'-0"



**SECTION D-D SIM**  
SCALE: 1/2"=1'-0"



**SECTION E-E**  
SCALE: 1"=5'-0"



USER NAME = kah  
PLOT SCALE = 0:1' / 1/8"  
PLOT DATE = 7/12/2016

DESIGNED - RDP  
DRAWN - KAH  
CHECKED - RDP  
DATE - 2016-07-11

REVISED -  
REVISED -  
REVISED -  
REVISED -

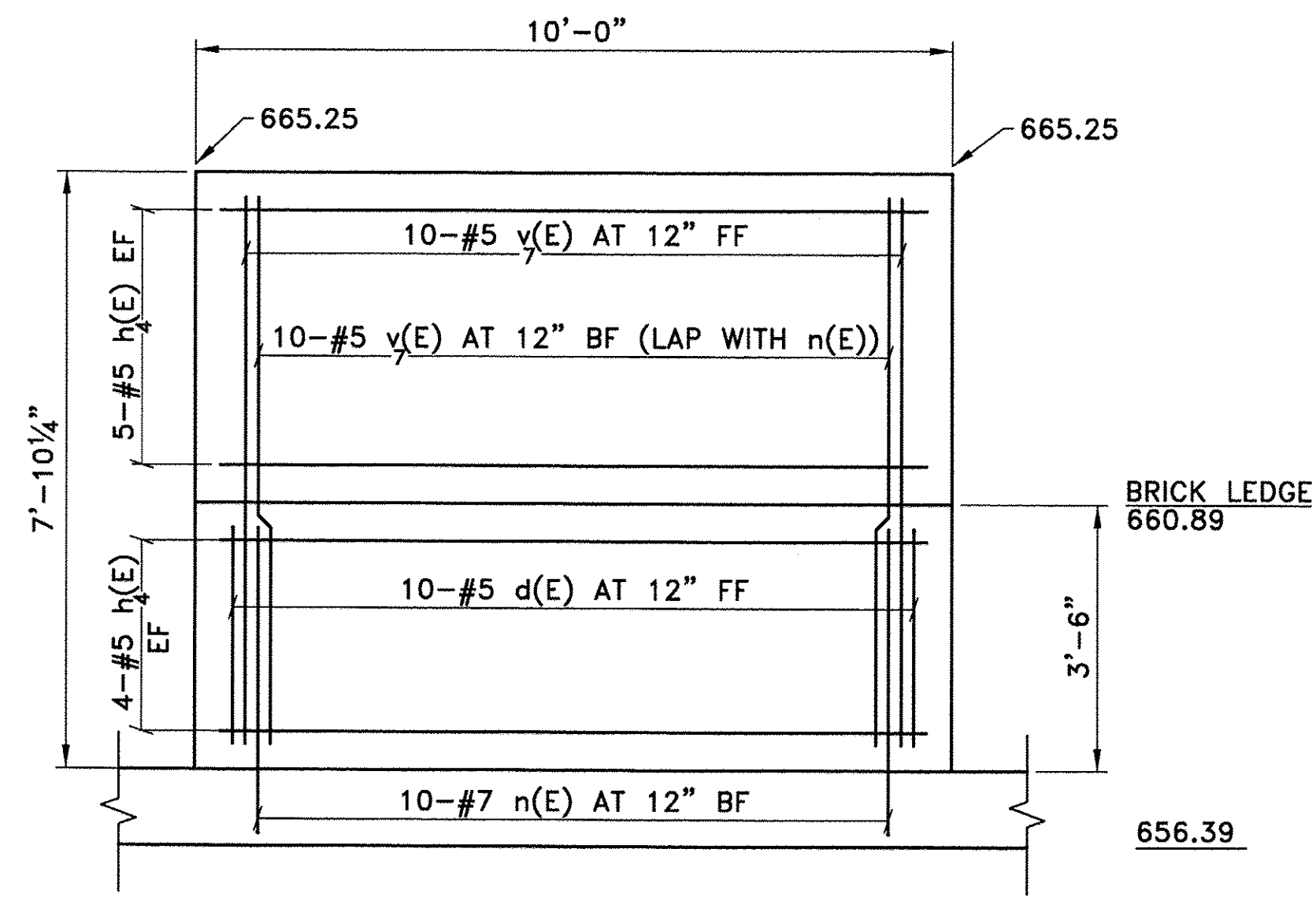
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
PLAN, ELEVATION AND DETAILS

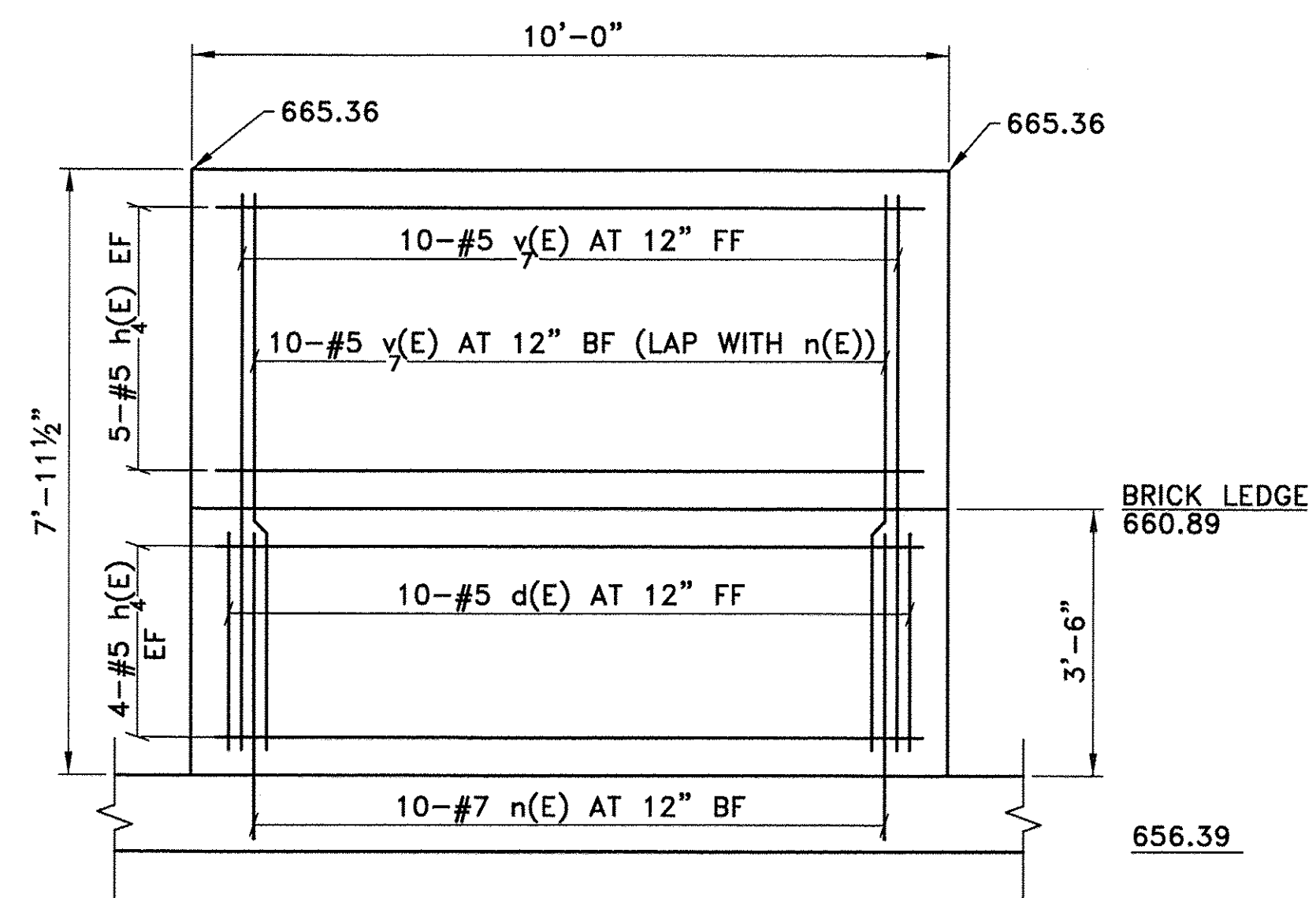
SCALE: AS SHOWN SHEET \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	50
CONTRACT NO. 61D18				

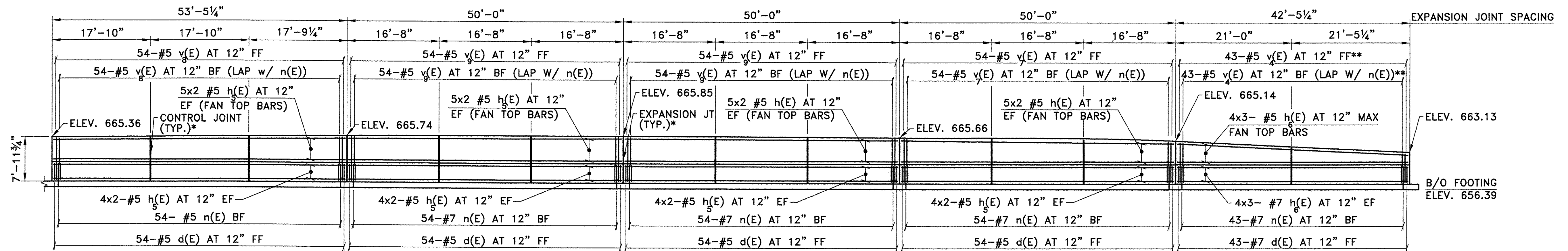
ILLINOIS FED. AID PROJECT



**SECTION F-F**  
SCALE: 1/2"=1'-0"



**SECTION F-F SIM**  
SCALE: 1/2"=1'-0"



\*SEE DETAIL ON SHEET S-3

\*\*FIELD CUT TO FIT

**SECTION G-G**  
SCALE: 1"=10'



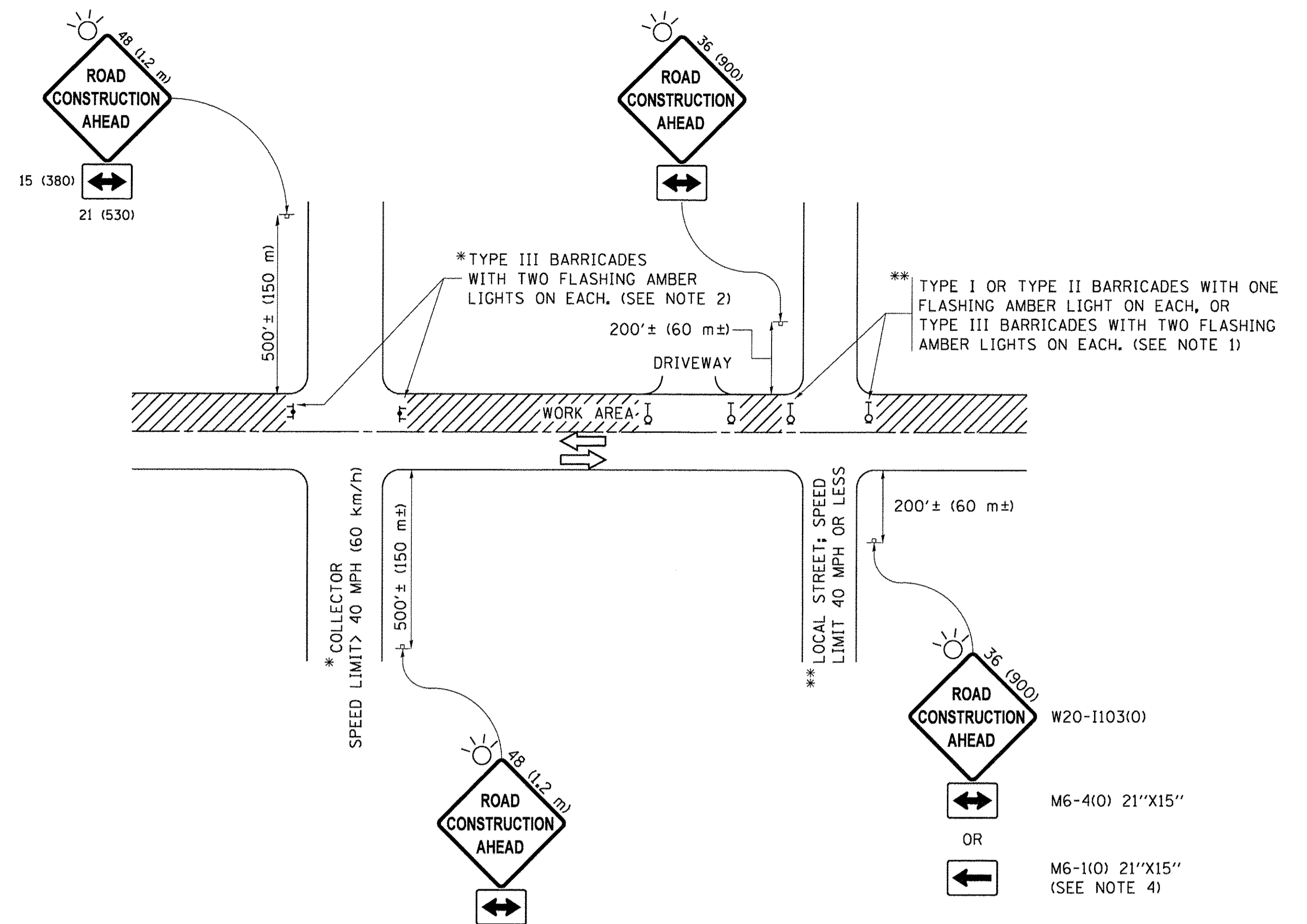
USER NAME = kah	DESIGNED - RDP	REVISED -
PLOT SCALE = 0:1' / 1/8"	DRAWN - KAH	REVISED -
PLOT DATE = 7/12/2016	CHECKED - RDP	REVISED -
	DATE - 2016-07-11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST PLATFORM RECONSTRUCTION  
PLAN, ELEVATION AND DETAILS

SCALE: AS SHOWN SHEET \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	51
CONTRACT NO. 61D18				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11084EBIDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist	Documents\DOT Offices\District 1\Projects\Dist	DRAWN CADData\CADsheets\tc10.dgn	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

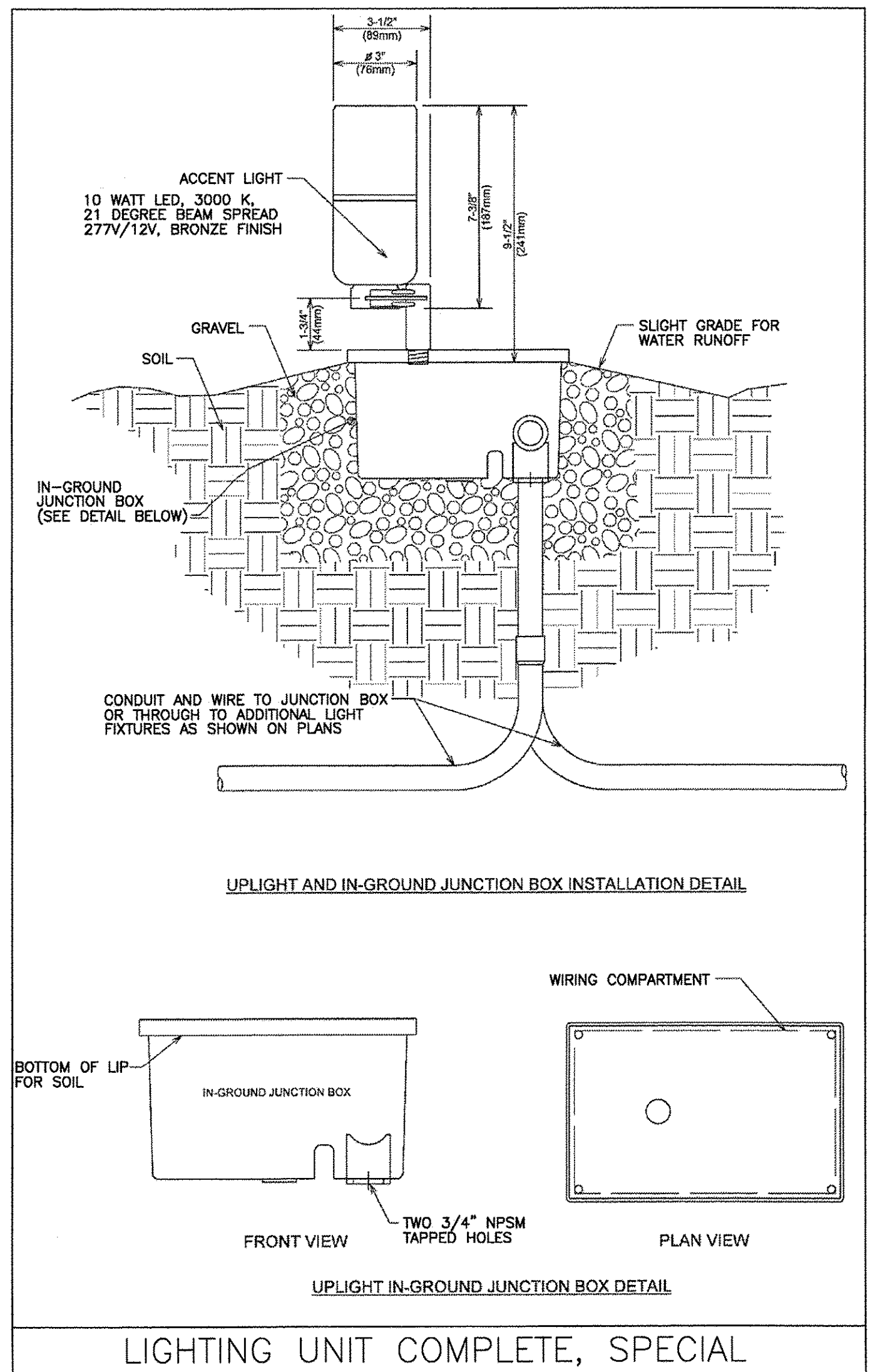
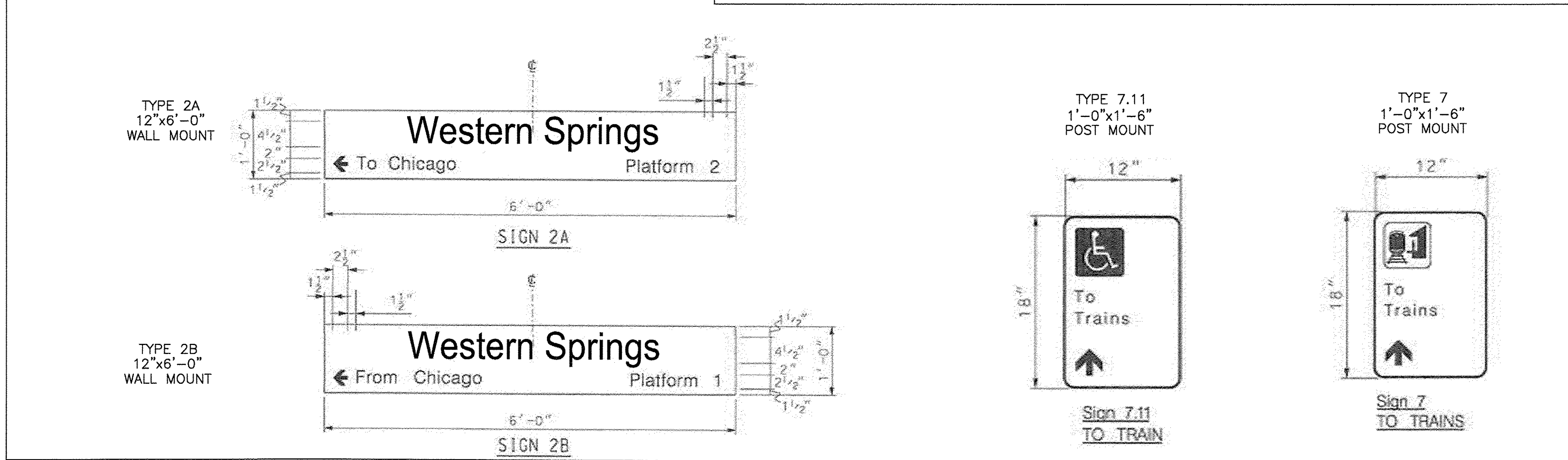
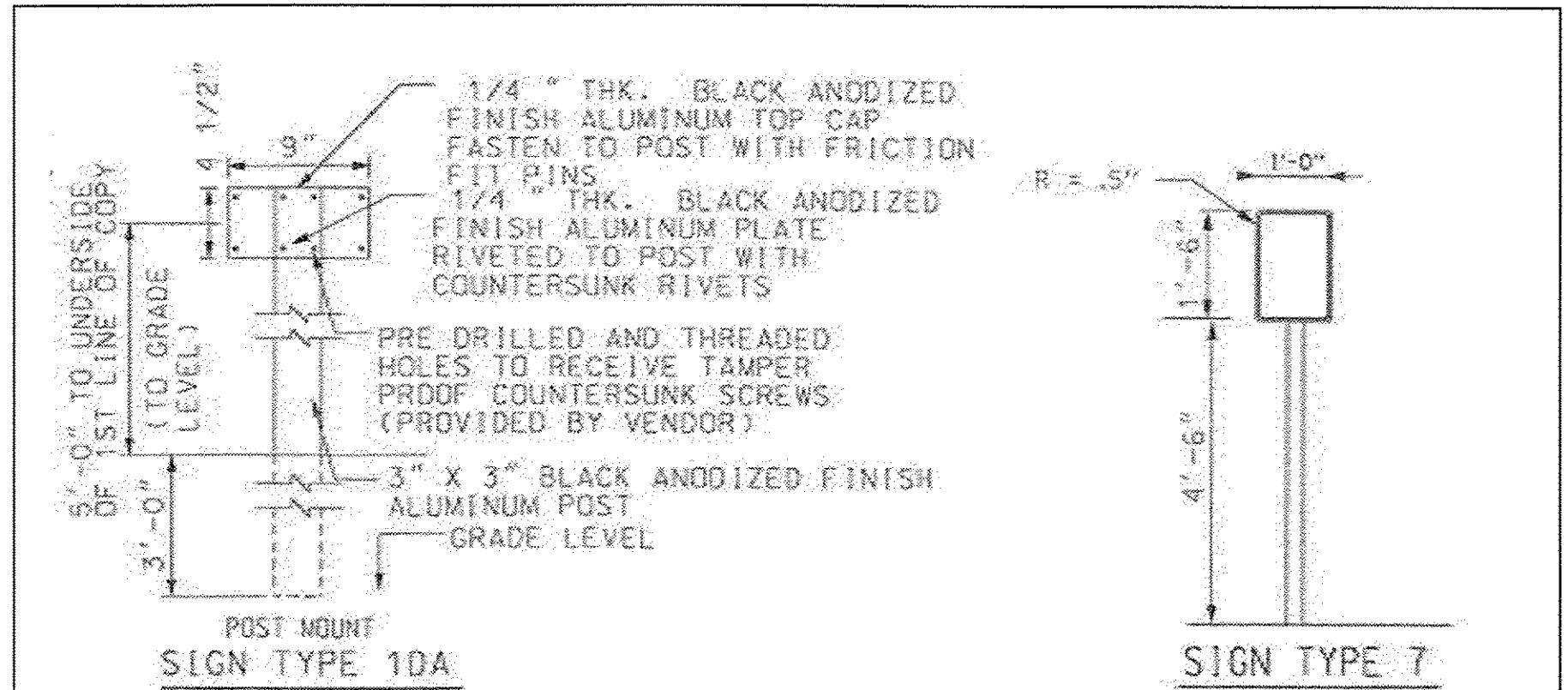
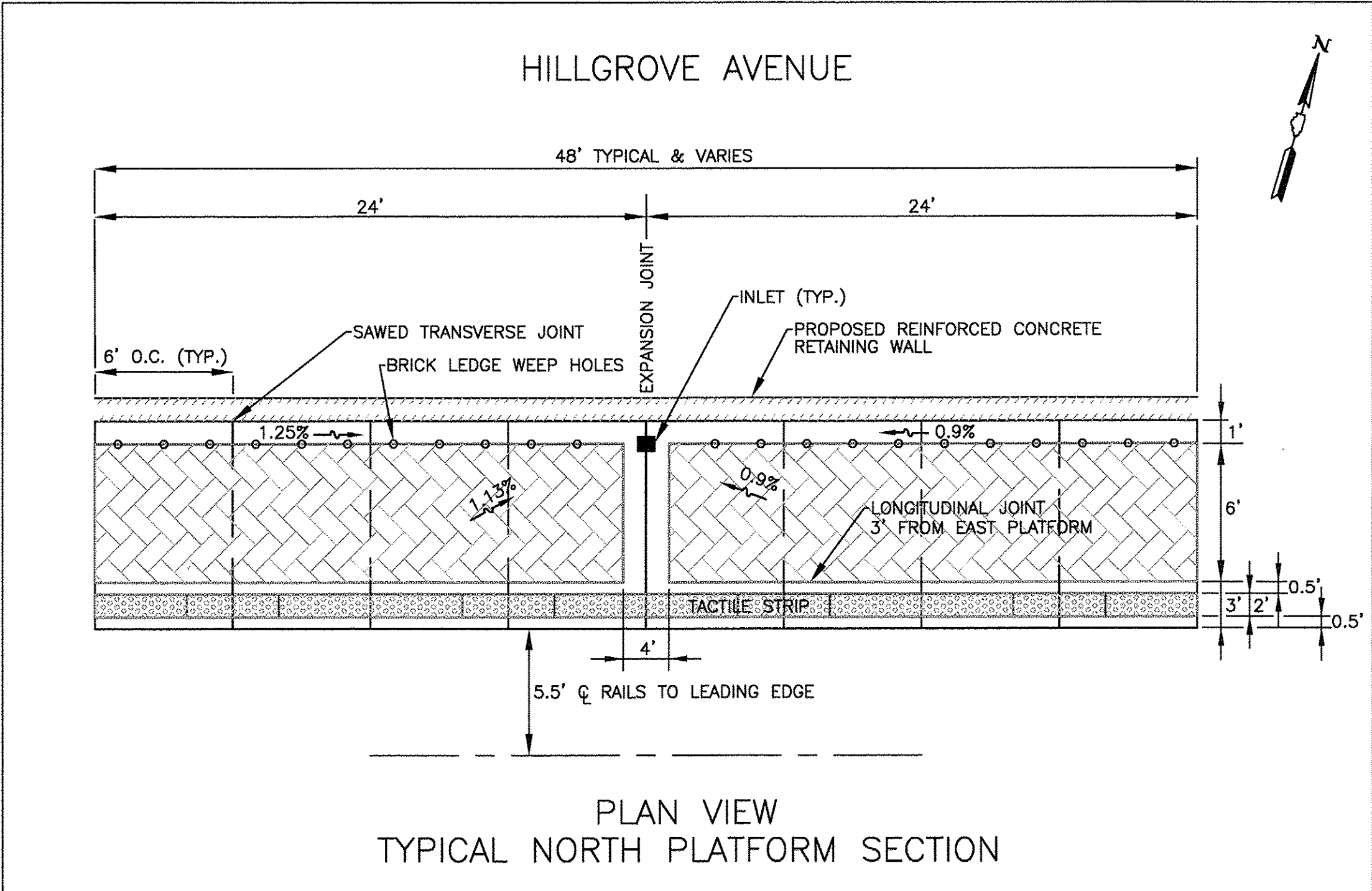
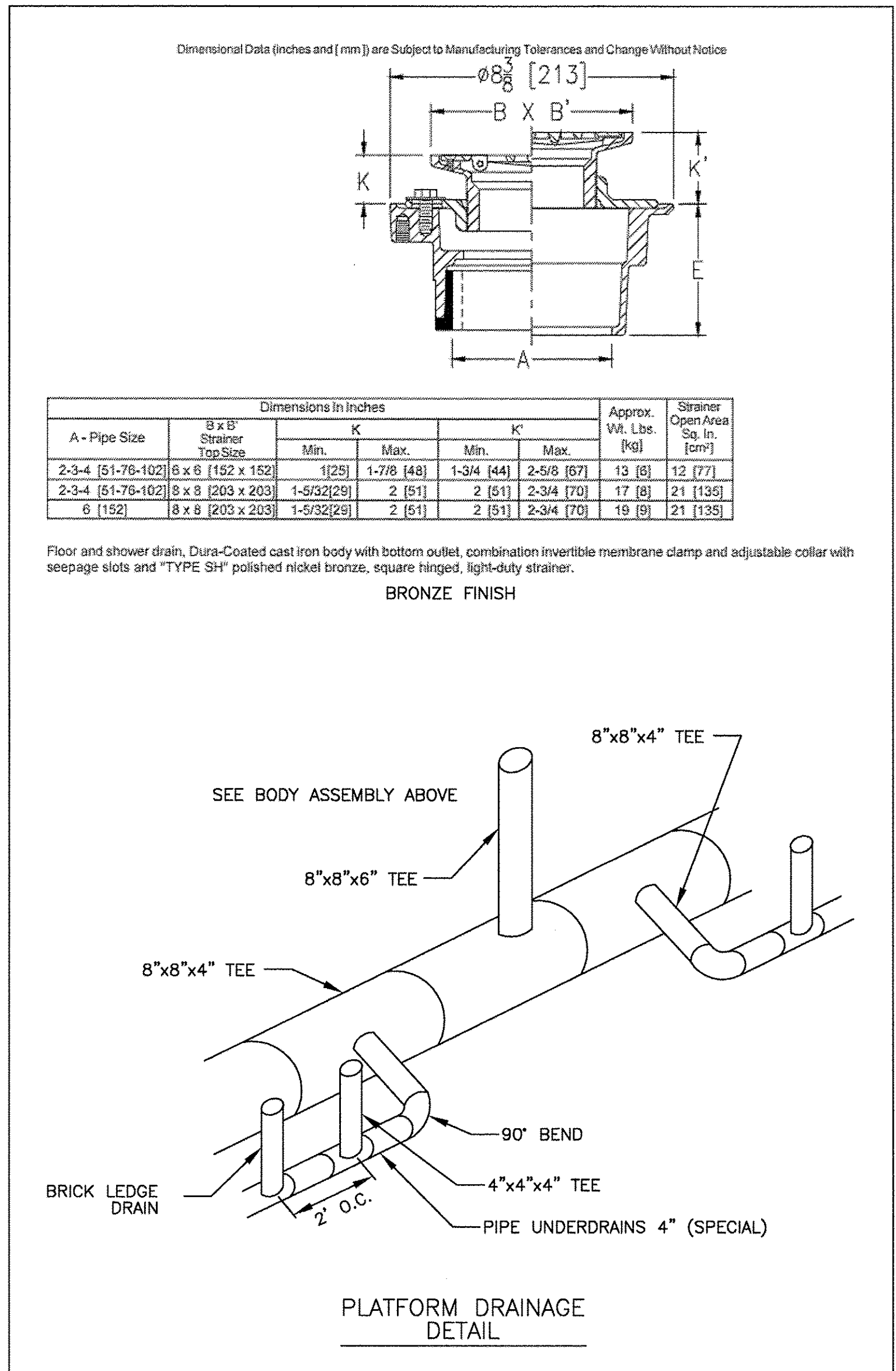
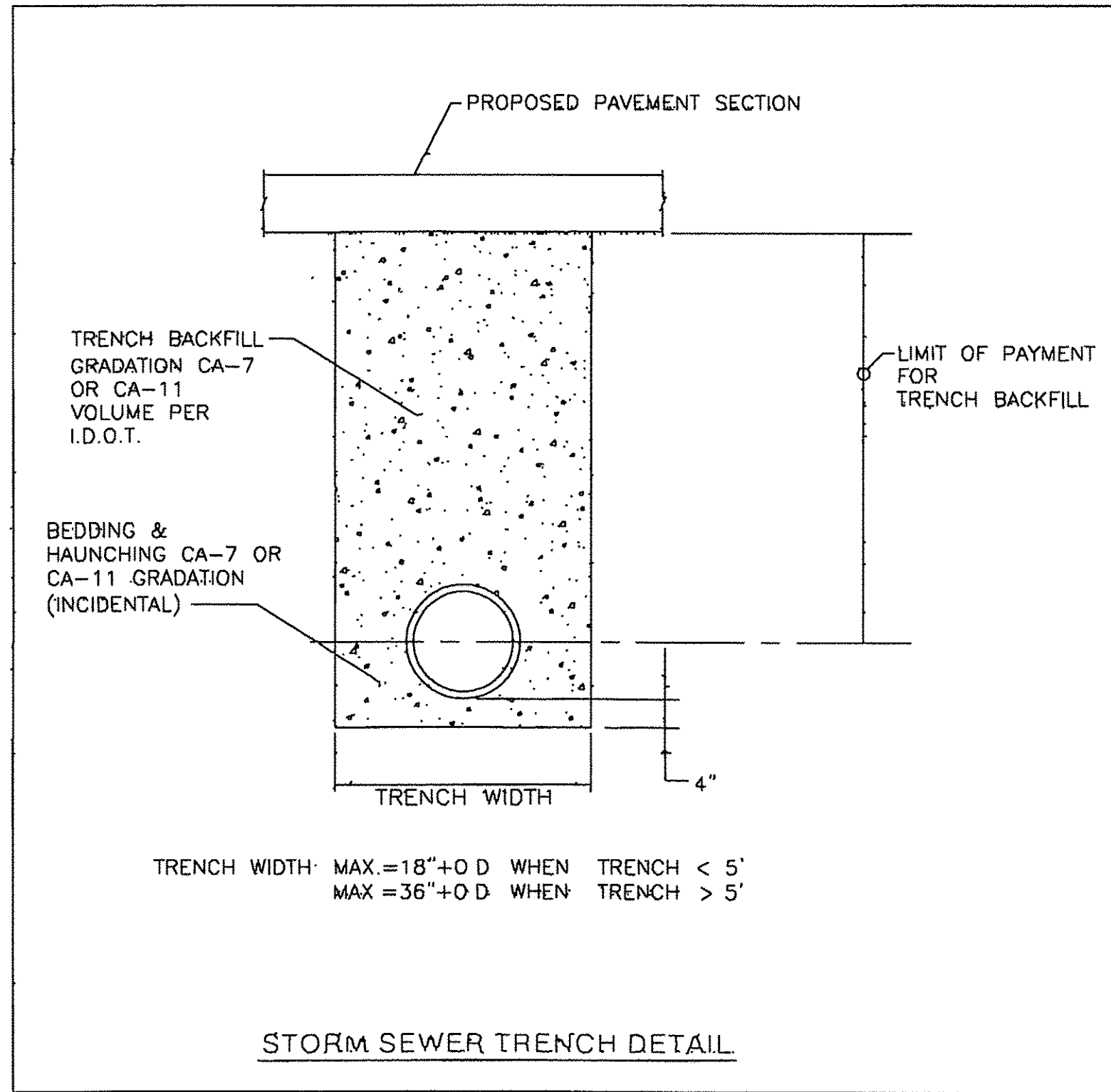
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

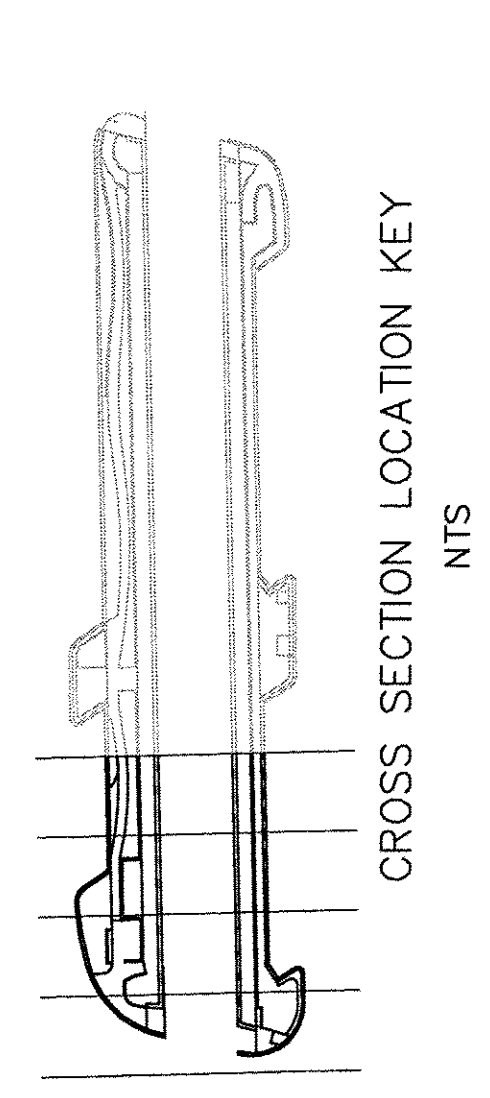
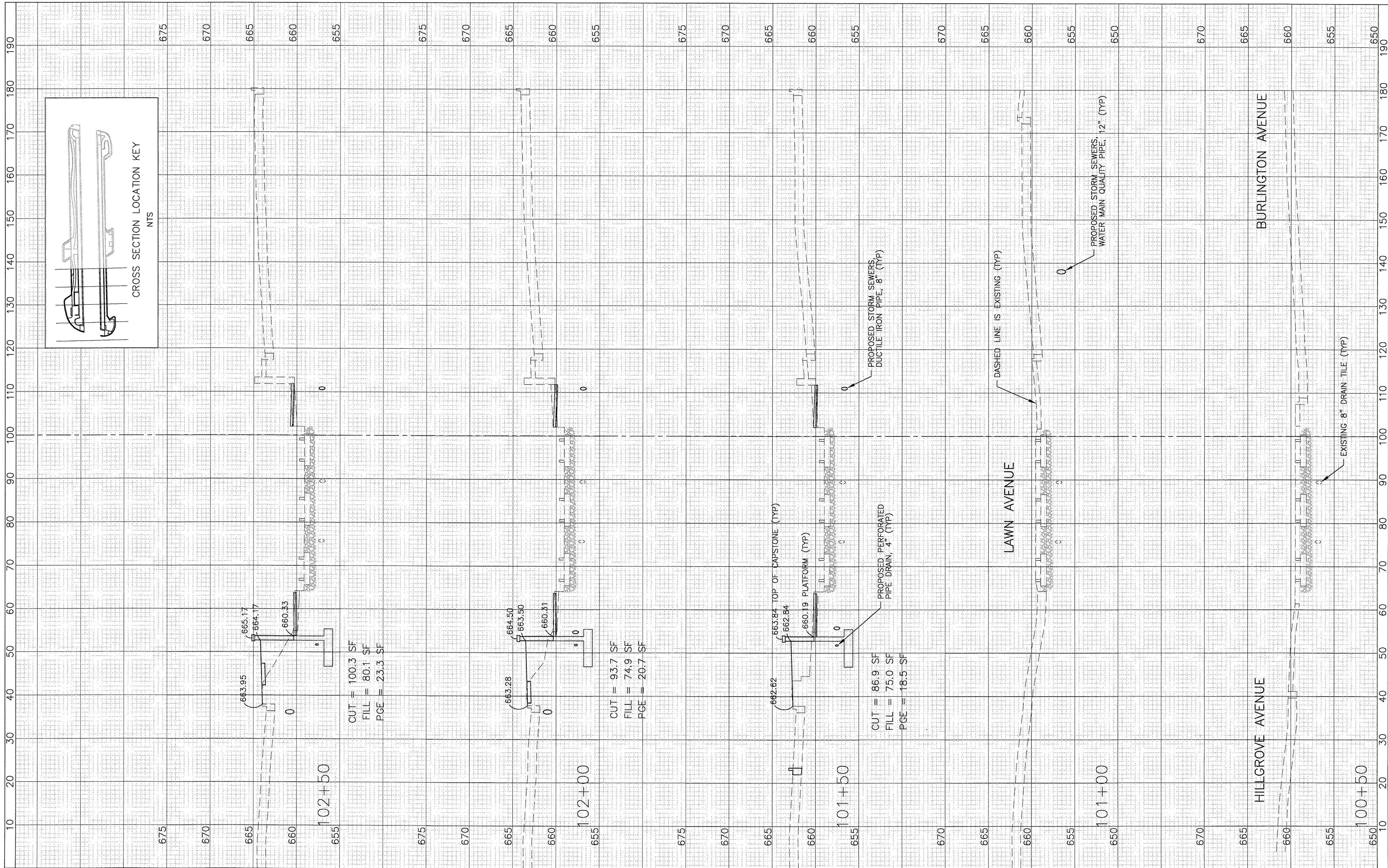
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	52
<b>TC-10</b>			CONTRACT NO. 61D18	
ILLINOIS FED. AID PROJECT				









CUT = 100.3 SF  
FILL = 80.1 SF  
PGE = 23.3 SF

CUT = 93.7 SF  
FILL = 74.9 SF  
PGE = 20.7 SF

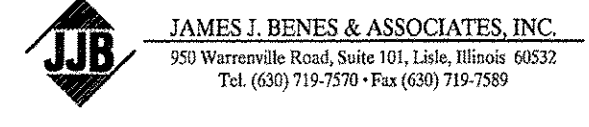
CUT = 86.9 SF  
FILL = 75.0 SF  
PGE = 18.5 SF

PROPOSED STORM SEWERS,  
DUCTILE IRON PIPE, 8" (TYP)

PROPOSED STORM SEWERS,  
WATER MAIN QUALITY PIPE, 12" (TYP)

DASHED LINE IS EXISTING (TYP)

EXISTING 8" DRAIN TILE (TYP)



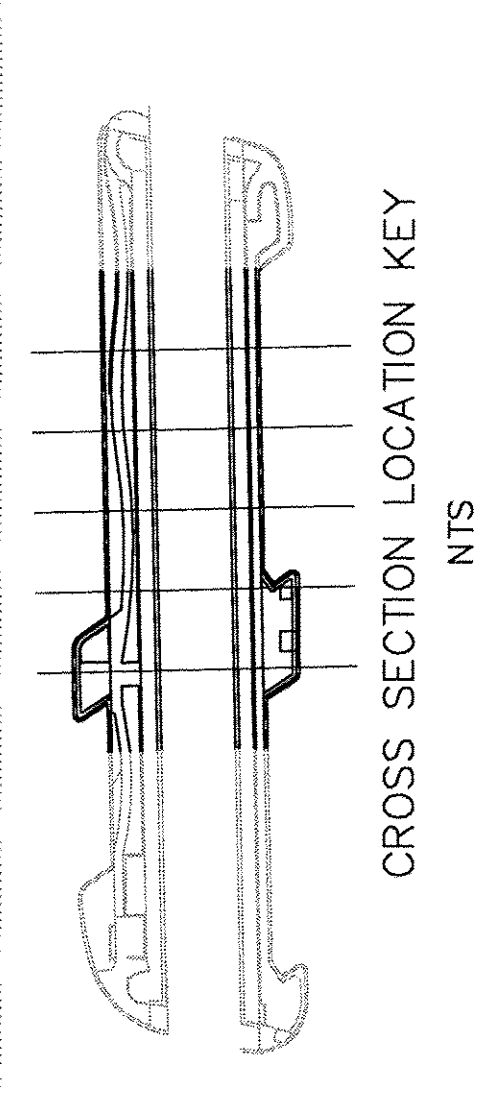
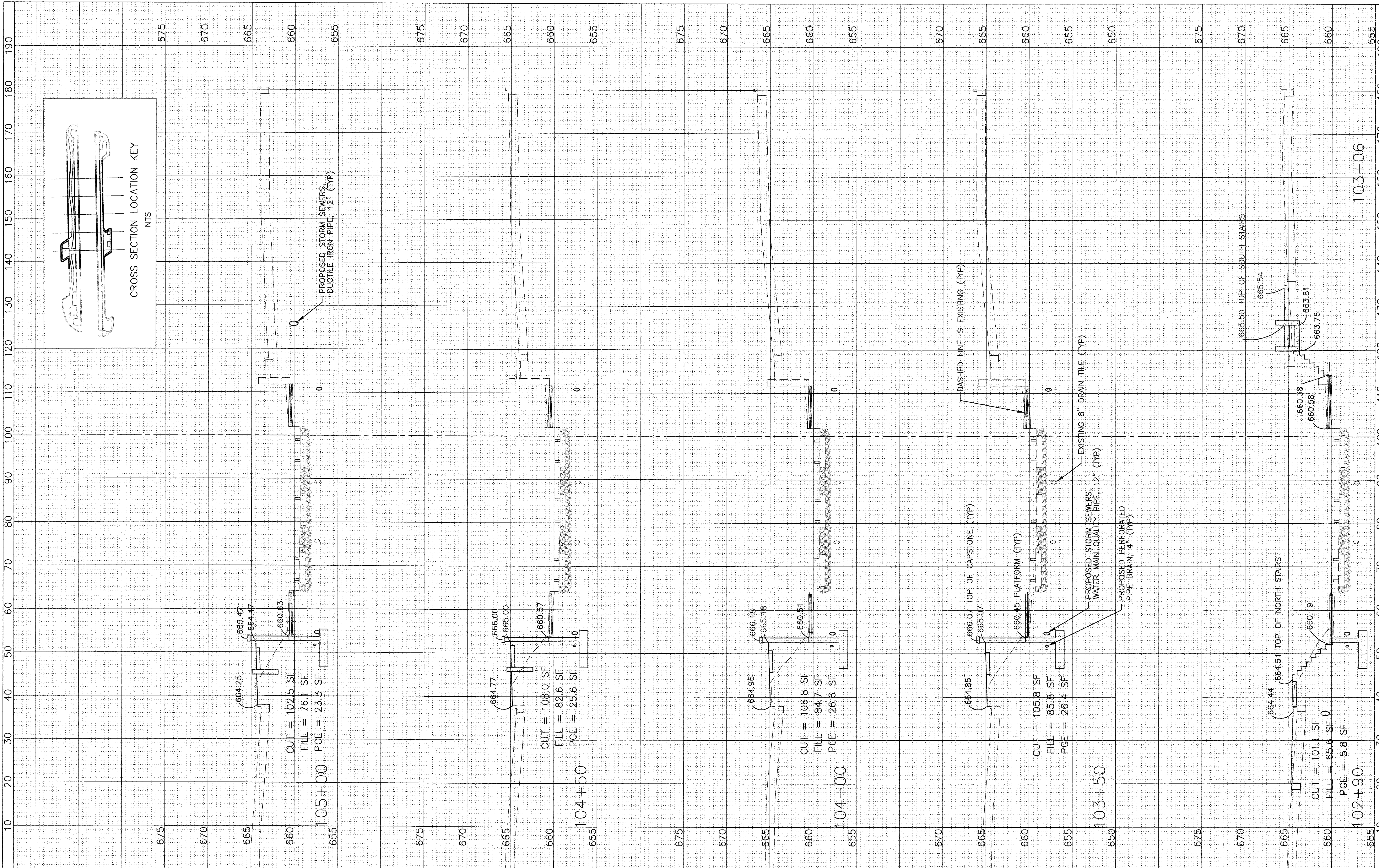
USER NAME =	DESIGNED -- BDH	REVISED -- 30% 1-06-2016
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN -- BCD	REVISED -- 60% 2-02-2016
PLOT DATE =	CHECKED -- BDH	REVISED -- 90% 3-04-2016
	DATE -- 6/17/2016	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

1"=10' HOR. SCALE: 1"=5' VERT.		CROSS SECTIONS EAST PLATFORM	
SHEET NO.	OF SHEETS	STA. 100+50 TO STA. 102+50	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	56
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	





CROSS SECTION LOCATION KEY  
NTS



USER NAME =	DESIGNED - BDH	REVISED - 30% 1-06-2016
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN - BCD	REVISED - 60% 2-02-2016
PLOT DATE =	CHECKED - BDH	REVISED - 90% 3-04-2016
	DATE - 6/17/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

1"=10' HOR.  
SCALE: 1"=5' VERT.

CROSS SECTIONS  
EAST PLATFORM

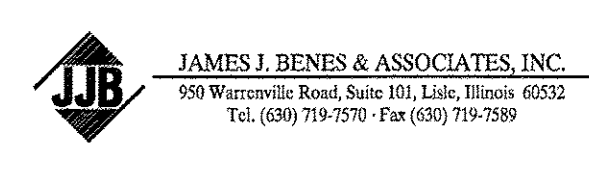
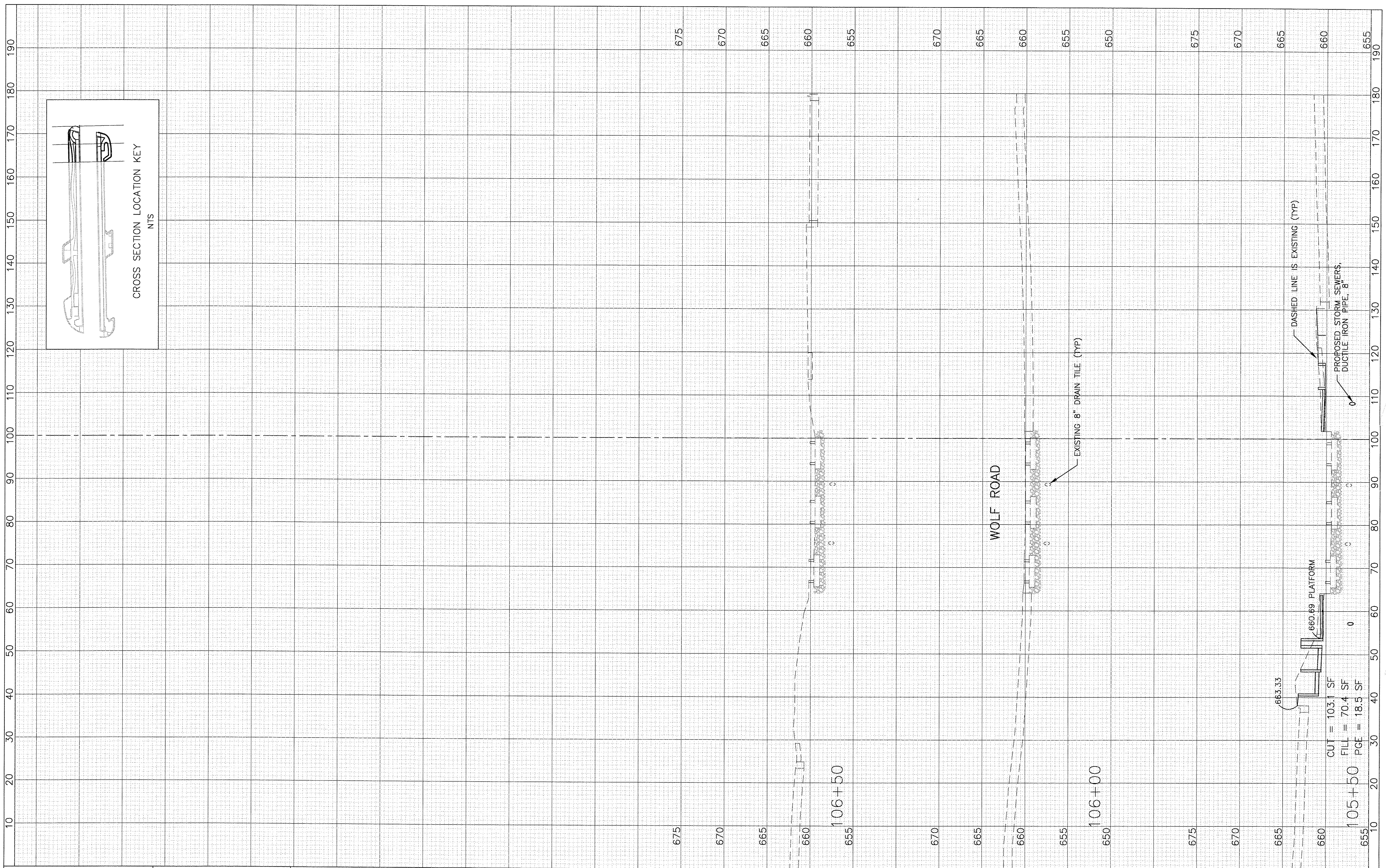
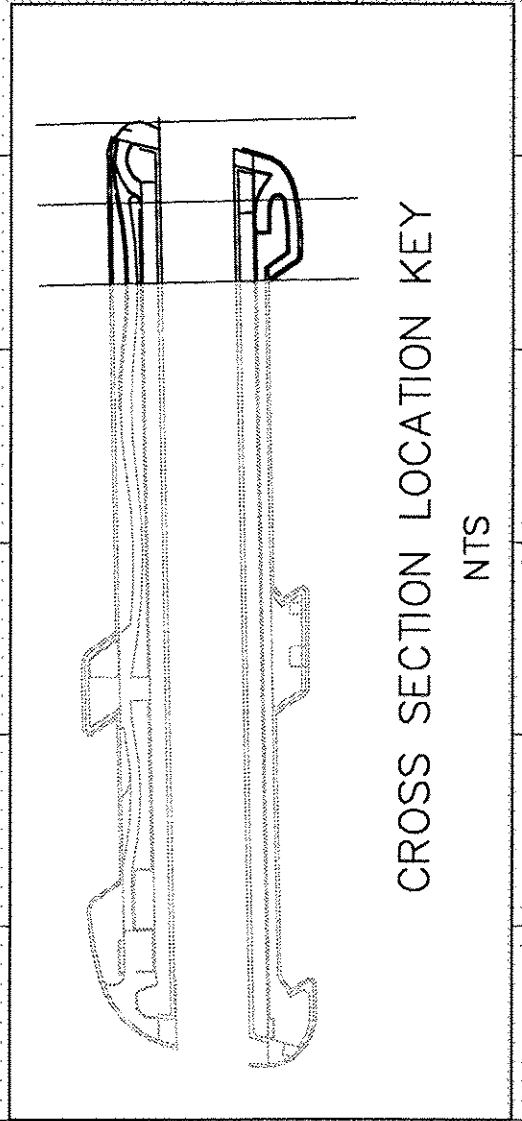
SHEET NO. OF SHEETS STA. 103+00 TO STA. 105+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	57
CONTRACT NO. 61D18			ILLINOIS FED. AID PROJECT	

103+06

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



USER NAME =	DESIGNED -- BDH	REVISED -- 30% 1-02-2016
	DRAWN -- BCD	REVISED -- 60% 2-02-2016
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	CHECKED -- BDH	REVISED -- 90% 3-04-2016
PLOT DATE =	DATE -- 11/18/2016	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS EAST PLATFORM</b>	
1"=10' HOR. SCALE: 1"=5' VERT.	SHEET NO. OF SHEETS
STA. 105+50 TO STA. 106+50	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3783	09-00091-00-MS	COOK	58	58
CONTRACT NO. 61D18				ILLINOIS FED. AID PROJECT