

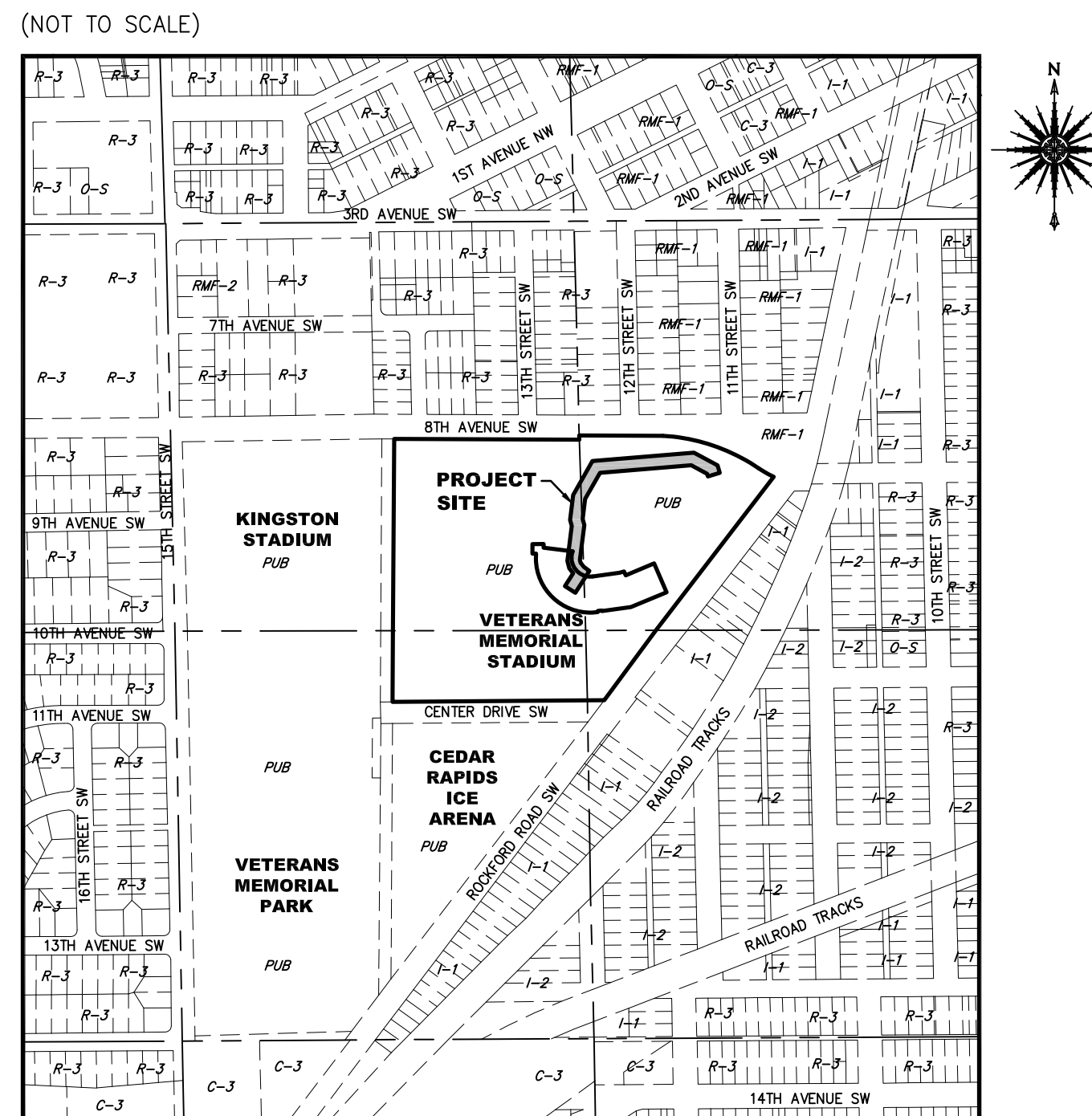
DRAWINGS OF PROPOSED PUBLIC SITE IMPROVEMENTS FOR VETERANS MEMORIAL STADIUM

2014 STORM SEWER IMPROVEMENTS - PHASE II

950 ROCKFORD ROAD SW, CEDAR RAPIDS, IOWA 52404

CONTRACT NO. XXXXXX-XX

PROJECT LOCATION MAP



DESIGN STANDARDS

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA DESIGN STANDARDS MANUAL EXCEPT AS LISTED BELOW:

- NO EXCEPTIONS.

OWNER

CITY OF CEDAR RAPIDS
101 FIRST STREET SE
CEDAR RAPIDS, IA 52401
CONTACT: MR. DOUG CARPER
PHONE: 319-286-5258
FAX: 319-286-5801
E-MAIL: D.Carper@cedar-rapids.org

SURVEY CONTROL

SURVEY CONTROL POINT #2: "PK" NAIL IN WALK. SEE SHEET C1.0 FOR LOCATION
N 3456401.93
E 5414145.32
ELEVATION=781.78

SURVEY CONTROL POINT #3: "PK" NAIL IN PARKING LOT. SEE SHEET C1.0 FOR LOCATION
N 3456355.00
E 5414393.74
ELEVATION=764.23

UTILITY & EMERGENCY PHONE NUMBERS

PUBLIC WORKS DEPARTMENT	(319)-286-5802	ALLIANT/ES INDUSTRIES (ELECTRIC, STEAM)	
POLICE DEPARTMENT	(319)-286-5491	INFORMATION, WEST SIDE	(319)-398-4540
EMERGENCY	911	INFORMATION, EAST SIDE	(319)-398-4555
FIRE DEPARTMENT	(319)-286-5200	MEDIACOM CABLE	
WATER DEPARTMENT	(319)-286-5910	BUSINESS	(319)-395-9699
SEWER MAINTENANCE DEPARTMENT	(319)-286-5815	LOCATIONS	(800)-292-8989
IOWA ONE CALL (UTILITIES)	(800)-292-8989	LINN COUNTY REC	(319)-377-1587
MID-AMERICAN ENERGY	(319)-298-5155	CEDAR RAPIDS AND IOWA CITY RAILWAY CO.	(319)-398-7745
CENTURY LINK		IOWA DEPARTMENT OF TRANSPORTATION	
ENGINEER, WEST SIDE	(319)-399-7665	DISTRICT ENGINEER	(319)-364-8189
ENGINEER, EAST SIDE	(319)-399-7209	MAINTENANCE GARAGES	(319)-336-9200
CENTURY LINK (TELEPHONE)	(319)-399-7495	LINN COUNTY ENGINEER	(319)-398-3445
		LINN COUNTY MAINTENANCE	(319)-398-3530

STANDARD LEGEND

	APPROXIMATE SECTION LINE		PORTLAND CEMENT CONCRETE
	APPROXIMATE PROPERTY LINE		ASPHALTIC CEMENT CONCRETE
	ADJOINING LOT LINE		HOT MIX ASPHALT
	EASEMENT LINE		ELECTRIC TRANSFORMER
	YARD SETBACK LINE		REINFORCED CONCRETE PIPE
	SET 5/8" IRON REBAR		HIGH DENSITY POLYETHYLENE PIPE
	W/ORANGE CAP NO. 13480		CORRUGATED METAL PIPE
	FOUND CUT "X"		VITRIFIED CLAY PIPE
	FOUND IRON REBAR		PIPE INVERT ELEVATION
	SURVEY CONTROL POINT		EXISTING
	EXISTING GRADE CONTOUR LINE		AUDITOR'S PLAT
	EXISTING OVERHEAD ELECTRIC LINE		FINISH FLOOR ELEVATION
	EXISTING GAS LINE		GUTTER
	EXISTING WATER LINE		TOP OF CURB
	EXISTING PRIVATE FIRE LINE		TOP OF SLAB
	EXISTING UNDERGROUND TELEPHONE LINE		TOP OF FINISH GRADE (I.E. TOP OF SOD, TOP OF TOPSOIL, TOP OF MULCH - DEPENDING UPON TYPE OF LAND COVER IN A PARTICULAR AREA)
	EXISTING UNDERGROUND ELECTRIC LINE		OVERHEAD DOOR
	EXISTING UNDERGROUND FIBER OPTICS LINE		NOT IN CONTRACT
	EXISTING STORM SEWER LINE		ON CENTER
	EXISTING SANITARY SEWER LINE		REFER TO
	EXISTING SANITARY SEWER FORCE MAIN		TOP OF WALL
	EXISTING UNDERGROUND TRAFFIC SIGNAL WIRING		FINISH SURFACE
	EXISTING STEAM LINE		PROPOSED FIRE HYDRANT
	EXISTING TRAFFIC SIGNAL HANDHOLES		PROPOSED WATER VALVE
	EXISTING TRAFFIC SIGNAL POLE, BASE, SIGNS & SIGNAL HEADS		PROPOSED WATER LINE
	EXISTING STEAM MANHOLE/VAULT		PROPOSED SANITARY SEWER MANHOLE
	EXISTING MANHOLE		PROPOSED SANITARY SEWER CLEANOUT
	EXISTING CIRCULAR STORM INTAKE		PROPOSED SANITARY SEWER
	EXISTING RA STORM INTAKE		PROPOSED STORM SEWER INTAKE
	EXISTING CURB & GUTTER INTAKE		PROPOSED STORM SEWER MANHOLE
	EXISTING SQUARE STORM INTAKE		PROPOSED STORM SEWER
	EXISTING FLARED END SECTION		PROPOSED HANDICAPPED PARKING
	EXISTING CLEAN OUT		PROPOSED SILT FENCE
	EXISTING SANITARY SEWER MANHOLE		PROPOSED FINISH GRADE CONTOUR
	EXISTING STORM SEWER MANHOLE		PROPOSED UNDERGROUND TELECOMMUNICATIONS LINE
	EXISTING TELEPHONE MANHOLE		PROPOSED UNDERGROUND ELECTRIC LINE
	EXISTING TELEPHONE PEDESTAL		PROPOSED OVERHEAD ELECTRIC LINE
	EXISTING CABLE BOX		PROPOSED UNDERGROUND GAS LINE
	EXISTING FIRE HYDRANT		PROPOSED SIGN
	EXISTING WATER VALVE		PROPOSED SINGLE FIXTURE LIGHT POLE
	EXISTING LIGHT POLE		PROPOSED DOUBLE FIXTURE LIGHT POLE
	EXISTING POWER POLE		PROPOSED BOLLARD
	EXISTING UTILITY POLE WITH GUY ANCHOR		PROPOSED CHAIN LINK FENCE
	EXISTING GAS VALVE		PROPOSED CONFIFEROUS TREE
	EXISTING ELECTRIC BOX		PROPOSED SHADE TREE
	EXISTING ELECTRIC METER		PROPOSED ORNAMENTAL TREE
	EXISTING HANDHOLE		PROPOSED BUSH OR SHRUB
	EXISTING LANDSCAPING ROCK		
	EXISTING TREE OR SHRUB LINE		
	EXISTING DECIDUOUS TREE		
	EXISTING CONFIFEROUS TREE		
	EXISTING DECIDUOUS BUSH		
	EXISTING CONFIFEROUS SHRUB		
	EXISTING WOOD FENCE		
	EXISTING CHAIN LINK FENCE		
	EXISTING BARBED WIRE FENCE		
	EXISTING TRAFFIC SIGN		
	EXISTING AIR CONDITIONING UNIT		
	EXISTING BOLLARD		
	EXISTING MAIL BOX		
	EXISTING RAILROAD TRACKS		

CONSTRUCTION STANDARDS

REFERENCED CEDAR RAPIDS METROPOLITAN AREA STANDARD DETAILS FOR PUBLIC IMPROVEMENTS	
DETAIL NO.	DETAIL TITLE
1300-020	SILT FENCE
1300-030	SLOPE PROTECTION DETAILS (WOOD EXCELSIOR MAT)
2200-020	STANDARD PIPE ENVELOPES FOR CIRCULAR PIPE
2200-031	STANDARD TRENCH SECTION IN SOIL
2400-040	MANHOLE AND PIPE SIZES
2400-041	STANDARD STORM SEWER MANHOLE
2700-021	TRANSVERSE CONTRACTION JOINTS
2700-022	LONGITUDINAL CONTRACTION JOINTS
2700-023	EXPANSION JOINTS

NOTE: ALL CEDAR RAPIDS METROPOLITAN AREA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS SHALL APPLY TO THE CONSTRUCTION OF THIS PROJECT.

PLAN SHEET INDEX

C0.0	COVER SHEET
C1.0	SITE TOPOGRAPHIC SURVEY PLAN
C2.0	OVERALL SITE LAYOUT & GRAPHIC SHEET INDEX PLAN
C3.1	SITE REMOVALS PLAN
C3.2	SITE REMOVALS PLAN
C3.3	SITE REMOVALS PLAN
C3.4	SITE REMOVALS PLAN
C4.1	STORM SEWER PLAN & PROFILE
C4.2	STORM SEWER PLAN & PROFILE
C4.3	STORM SEWER PLAN & PROFILE
C4.4	STORM SEWER PLAN & PROFILE
C5.1	SITE CONSTRUCTION NOTES
C5.2	SITE CONSTRUCTION NOTES
C6.0	SITE CONSTRUCTION DETAILS

CERTIFICATIONS

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	SIGNATURE: _____ NAME: TRED L. SCHNOOR DATE: XX/XX/2014 MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2015 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: C0.0, C1.0, C2.0, C3.1, C3.2, C3.3, C3.4, C4.1, C4.2, C4.3, C4.4, C5.1, C5.2 & C6.0

CITY OF CEDAR RAPIDS	
THIS ENGINEERING DOCUMENT IS APPROVED.	
CITY ENGINEER APPROVED	DATE

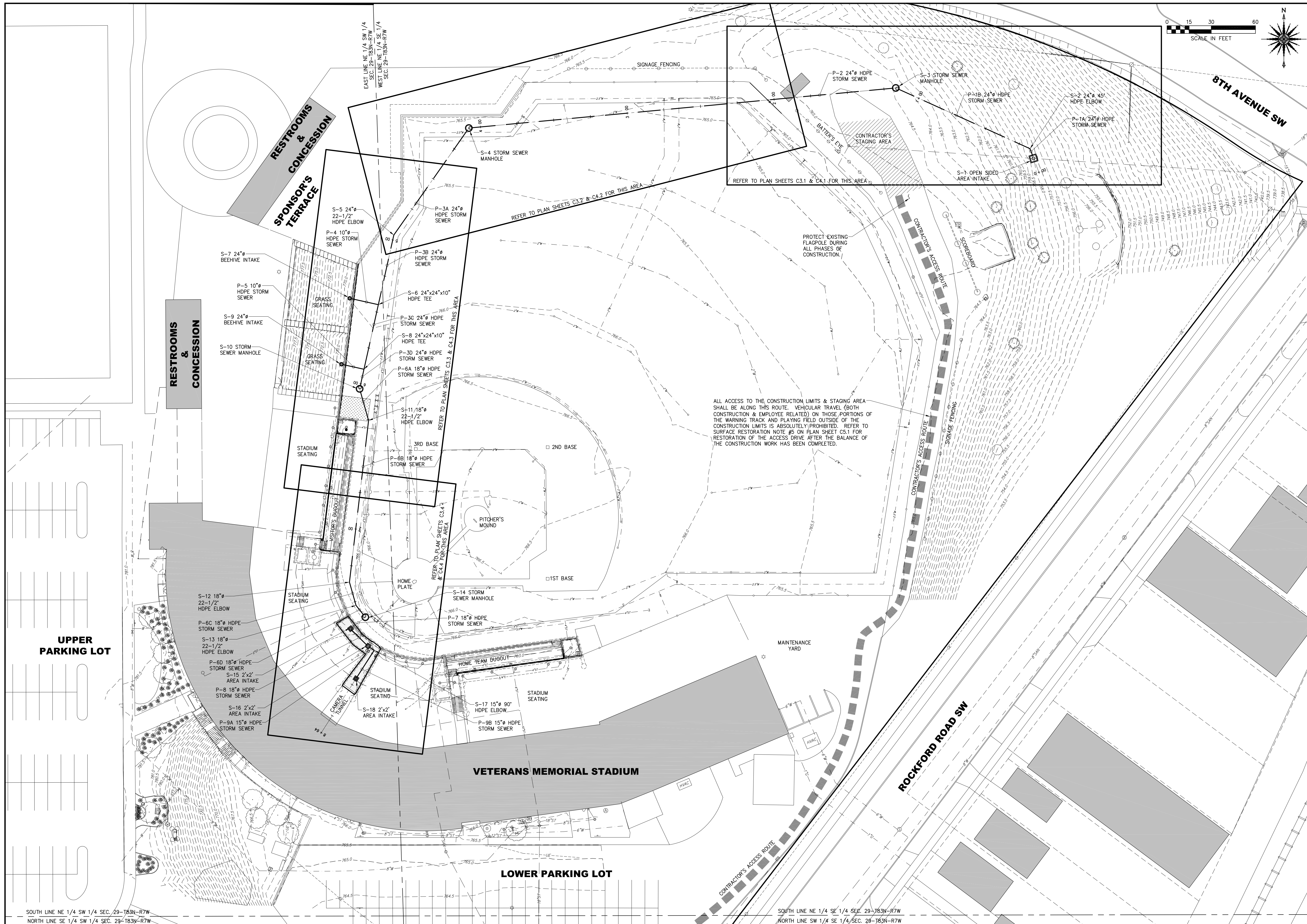
ISSUE DATE

MARCH 29, 2013

98% REVIEW

	SCHNOOR-BONIFAZI ENGINEERING & SURVEYING, LC 431 FIFTH AVENUE SW CEDAR RAPIDS, IA 52404 (319) 298-8888 (PHONE) (319) 298-8889 (FAX) s-b-engineering.com
	Engineering & Surveying

VETERANS MEMORIAL STADIUM 2014 STORM SEWER IMPROVEMENTS - PHASE II



ALL ACCESS TO THE CONSTRUCTION LIMITS & STAGING AREA SHALL BE ALONG THIS ROUTE. VEHICULAR TRAVEL (BOTH CONSTRUCTION & EMPLOYEE RELATED) ON THOSE PORTIONS OF THE WARNING TRACK AND PLAYING FIELD OUTSIDE OF THE CONSTRUCTION LIMITS IS ABSOLUTELY PROHIBITED. REFER TO SURFACE RESTORATION NOTE #9 ON PLAN SHEET C5.1 FOR RESTORATION OF THE ACCESS DRIVE AFTER THE BALANCE OF THE CONSTRUCTION WORK HAS BEEN COMPLETED.

SOUTH LINE NE 1/4 SW 1/4 SEC. 29-183N-R7W
NORTH LINE SE 1/4 SW 1/4 SEC. 29-183N-R7W

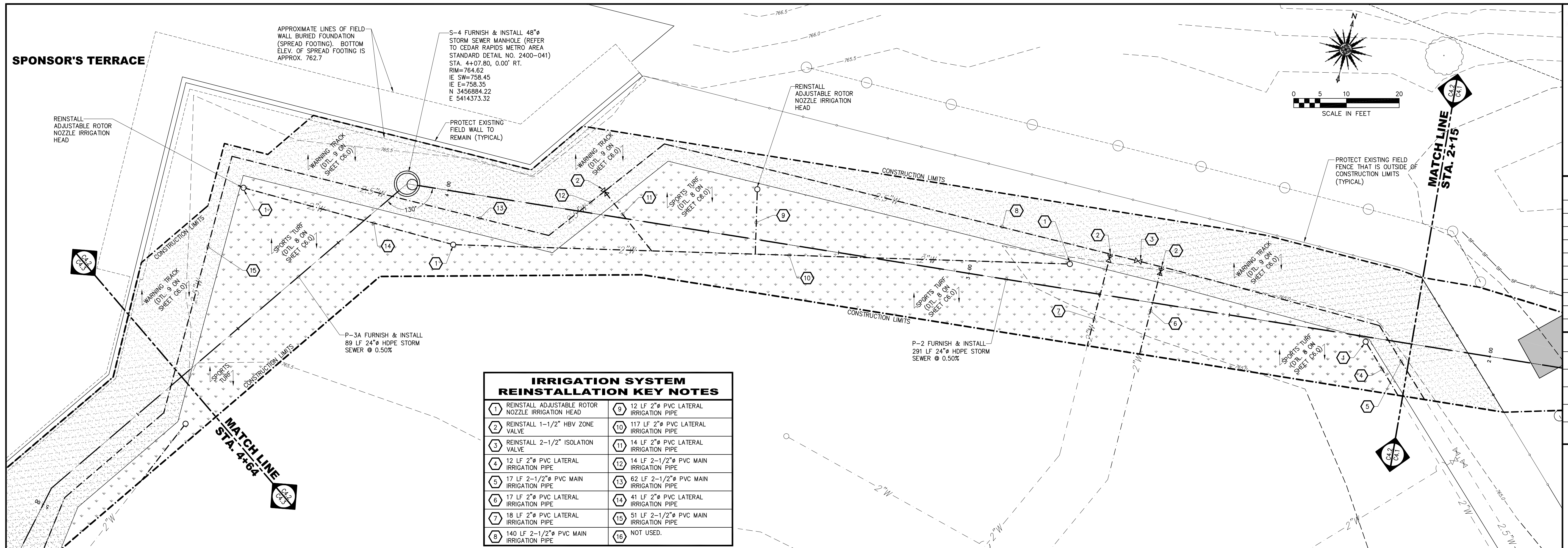
SOUTH LINE NE 1/4 SE 1/4 SEC. 29-183N-R7W
NORTH LINE SW 1/4 SE 1/4 SEC. 29-183N-R7W

REVISIONS

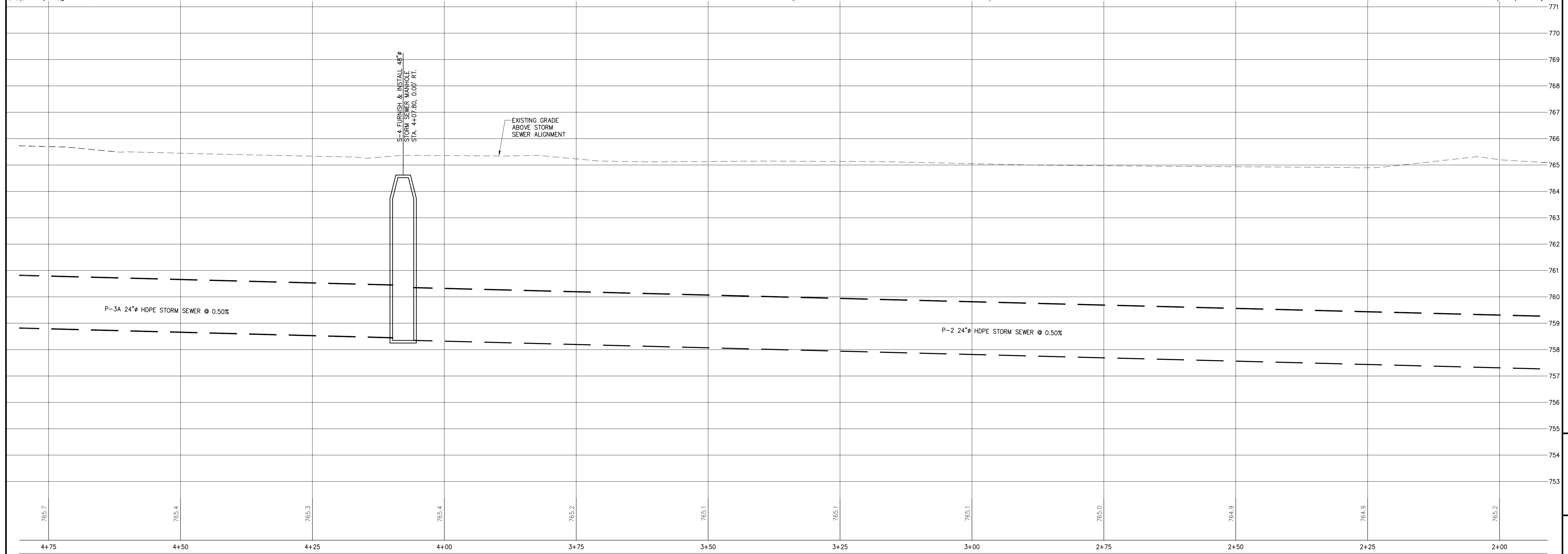
DRAWN: TRED SCHNOOR
APPROVED: TRED SCHNOOR
ISSUED FOR: 98% REVIEW
DATE: 03/29/2014
S-B PROJECT NO.: 12150
C.I.P. NO.: XXXXXX-XX

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VETERANS MEMORIAL STADIUM
2014 STORM SEWER
IMPROVEMENTS - PHASE II
950 ROCKFORD ROAD SW, CEDAR RAPIDS, IOWA 52404**

**STORM SEWER
PLAN &
PROFILE**



IRRIGATION SYSTEM REINSTALLATION KEY NOTES	
1 REINSTALL ADJUSTABLE ROTOR NOZZLE IRRIGATION HEAD	9 12 LF 2" PVC LATERAL IRRIGATION PIPE
2 REINSTALL 1-1/2" HBV ZONE VALVE	10 117 LF 2" PVC LATERAL IRRIGATION PIPE
3 REINSTALL 2-1/2" ISOLATION VALVE	11 14 LF 2" PVC LATERAL IRRIGATION PIPE
4 12 LF 2" PVC LATERAL IRRIGATION PIPE	12 14 LF 2-1/2" PVC MAIN IRRIGATION PIPE
5 17 LF 2-1/2" PVC MAIN IRRIGATION PIPE	13 62 LF 2-1/2" PVC MAIN IRRIGATION PIPE
6 17 LF 2" PVC LATERAL IRRIGATION PIPE	14 41 LF 2" PVC LATERAL IRRIGATION PIPE
7 18 LF 2" PVC LATERAL IRRIGATION PIPE	15 51 LF 2-1/2" PVC MAIN IRRIGATION PIPE
8 140 LF 2-1/2" PVC MAIN IRRIGATION PIPE	16 NOT USED.



SPORTS TURF, WARNING TRACK AND IRRIGATION SYSTEM SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. SPORTS TURF.
- B. WARNING TRACK.
- C. IRRIGATION SYSTEM.

1.02 DESCRIPTION OF WORK

- A. SPORTS TURF – INCLUDES FURNISHING AND INSTALLING PEA GRAVEL SUBBASE, SAND/PEAT BASE AND SOD TO REPLACE SPORT TURF THAT HAS BEEN DAMAGED AND/OR REMOVED DURING STORM SEWER INSTALLATION OPERATIONS.
- B. WARNING TRACK – INCLUDES FURNISHING AND INSTALLING PEA GRAVEL SUBBASE, SAND BASE AND CRUSHED BRICK CHIP SURFACE TO REPLACE WARNING TRACK THAT HAS BEEN DAMAGED AND/OR REMOVED DURING STORM SEWER INSTALLATION OPERATIONS.
- C. IRRIGATION SYSTEM – INCLUDES FURNISHING AND INSTALLING PVC IRRIGATION PIPE TO REPLACE IRRIGATION PIPE THAT HAS BEEN DAMAGED AND/OR REMOVED DURING STORM SEWER INSTALLATION OPERATIONS. ALSO INCLUDES SALVAGING EXISTING VALVES AND SPRINKLER HEADS THAT ARE WITHIN THE PROJECT'S CONSTRUCTION LIMITS, AND REINSTALLING THEM AFTER THE STORM SEWER INSTALLATION IS COMPLETED.

1.03 SUBMITTALS

- A. SUBMIT SAMPLE OF SPORTS TURF SOD BY SEPTEMBER FOR OWNER APPROVAL TO INSURE PROPER COLOR MATCH WITH THE EXISTING SOD AND ACCEPTABLE QUALITY.
- B. SUBMIT SAMPLE OF WARNING TRACK BRICK CHIPS BY SEPTEMBER FOR APPROVAL TO INSURE PROPER COLOR MATCH WITH THE EXISTING WARNING TRACK AND ACCEPTABLE QUALITY.
- C. SUBMIT CERTIFICATE OF COMPLIANCE INDICATING THAT THE SAND, PEAT AND PEA GRAVEL TO BE INCORPORATED INTO THE WORK COMPLY WITH THESE SPECIFICATIONS.
- D. SUBMIT CERTIFICATE OF COMPLIANCE INDICATING THAT THE FERTILIZER TO BE INCORPORATED INTO THE WORK COMPLIES WITH THESE SPECIFICATIONS.
- E. SUBMIT PROOF OF EXPERIENCE AND REFERENCES TO COMPLY WITH EXPERIENCE REQUIREMENT OUTLINED IN 'SPECIAL REQUIREMENTS'.

1.04 DELIVERY, STORAGE AND HANDLING

- A. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND IN LOCATIONS WHICH WILL MINIMIZE THE INTERFERENCE WITH OPERATIONS, MINIMIZE ENVIRONMENTAL DAMAGE AND PROTECT ADJACENT AREAS FROM FLOODING, RUNOFF AND SEDIMENT DISPOSITION.
- B. STORE MIXED ROOTZONE MATERIAL (SAND/PEAT MIX) IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM F2396 – 11.

1.05 SPECIAL REQUIREMENTS

- A. THE SPORTS TURF AND WARNING TRACK INSTALLER MUST HAVE PREVIOUSLY PROVIDED SOD TO THREE (3) MAJOR LEAGUE OR MINOR LEAGUE BALLPARKS. THE CONTRACTOR SHALL PRESENT PROOF AND THREE (3) REFERENCES THAT SHOW COMPLIANCE WITH THE ABOVE EXPERIENCE REQUIREMENT. BUSH TURF IS A PRE-APPROVED CONTRACTOR FOR THIS WORK. BUSH TURF'S CONTACT PHONE NUMBER IS (309) 787-2676.
- B. CONTRACTOR SHALL GUARANTEE SOD UNTIL ROOTS HAVE TAKEN HOLD INTO THE SOIL AND CANNOT BE PULLED UP, AT WHICH TIME, THE WORK WILL BE DEEMED COMPLETE.
- C. CONTRACTOR SHALL PROVIDE A TWELVE (12) MONTH WARRANTY THAT THE SOD IS POA FREE.

1.05 REFERENCED DOCUMENTS

- A. ASTM STANDARDS
 - 1. F2396 – 11 CONSTRUCTION OF HIGH PERFORMANCE SAND BASED ROOTZONES FOR ATHLETIC FIELDS. A COPY OF THIS STANDARD CAN BE FOUND IN THE PROJECT MANUAL.

PART 2 PRODUCTS

2.01 SOD

- A. BLUEGRASS, LOW-MOW SPORTS TURF SOD GROWN ON 90% SAND MATCHING THE EXISTING PLAYING FIELD SPORTS TURF SOD. THE PLAYING SURFACE IS A SAND BASED FIELD.
- B. COMPLY WITH ASTM F2396 – 11.

2.02 SAND

- A. COMPLY WITH ASTM F2396 – 11.

2.03 PEAT

- A. COMPLY WITH ASTM F2396 – 11.

2.04 PEA GRAVEL

- A. COMPLY WITH ASTM F2396 – 11.
- B. SOFT GRAVEL MINERALS (SUCH AS LIMESTONE, SANDSTONE OR SHALE) ARE NOT ACCEPTABLE FOR USE.

2.05 BRICK CHIPS

- A. MATCH EXISTING WARNING TRACK BRICK CHIP MATERIAL IN SIZE AND COLOR.

2.06 FERTILIZER

- A. A COMMERCIAL "STARTER" FERTILIZER, WITH GUARANTEED ANALYSIS OF 17-23-6, OR AS RECOMMENDED BY LOCAL GRASS SUPPLIER, FOR RAPID GERMINATION AND ROOT DEVELOPMENT.

2.07 IRRIGATION PIPE

- A. POLYVINYL CHLORIDE MATCHING EXISTING IRRIGATION PIPE.

2.08 IRRIGATION SYSTEM VALVES AND SPRINKLER HEADS

- A. SALVAGE EXISTING VALVES AND HEADS. ANY VALVES AND HEADS DAMAGED AND UNSUITABLE FOR REINSTALLATION SHALL MATCH EXISTING COMPONENTS.

PART 3 EXECUTION

3.01 SPORTS TURF

- A. CONSTRUCT IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM F2396 – 11.
- B. ROOTZONE MATERIAL BLEND SHALL CONSIST OF 90% SAND AND 10% PEAT.
- C. FERTILIZE SPORTS TURF WITH COMMERCIAL "STARTER" FERTILIZER AS DIRECTED BY THE OWNER'S REPRESENTATIVE FOR RAPID GERMINATION AND ROOT DEVELOPMENT
- D. THE OWNER SHALL BE RESPONSIBLE FOR WATERING WITH THE REINSTALLED IRRIGATION SYSTEM.

3.02 WARNING TRACK

- A. CONSTRUCT SUBGRADE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM F2396 – 11.
- B. PRIOR TO PLACING PEA GRAVEL DRAINAGE LAYER, FIRST INSTALL IRRIGATION SYSTEM, OBTAIN OWNER APPROVAL OF IRRIGATION SYSTEM LAYOUT AND PERFORM IRRIGATION SYSTEM PRESSURE CHECK.
- C. AFTER OBTAINING OWNER APPROVAL AND PASSING PRESSURE CHECK FOR THE IRRIGATION SYSTEM, CONSTRUCT PEA GRAVEL DRAINAGE LAYER IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM F2396 – 11.
- D. PLACE SAND BASE MATERIAL OVER ROLLED AND UNIFORMLY SHAPED PEA GRAVEL DRAINAGE AREA. COMPACT AND SHAPE THE FINISHED SURFACE OF THE SAND BASE MATERIAL. CORRECT ANY IRREGULARITIES AND DEPRESSIONAL AREAS BEFORE PLACING BRICK CHIP SURFACE.
- E. PLACE BRICK CHIP SURFACE. ONCE THE MATERIAL IS LEVELED, THE AREA SHOULD BE ROLLED AND THE FINAL GRADE ESTABLISHED SO AS TO PROVIDE AN EVEN GRADE TRANSITION FROM THE PLAY AREA TO THE WARNING TRACK. THE SMOOTH TRANSITION IS IMPERATIVE TO LOWER THE POTENTIAL FOR TRIPPING OR STUMBLING. CORRECT ANY IRREGULARITIES AND DEPRESSIONAL AREAS.

SPORTS TURF, WARNING TRACK AND IRRIGATION SYSTEM SPECIFICATIONS

(CONTINUED)

3.03 IRRIGATION

- A. PRIOR TO REMOVING ANY IRRIGATION PIPE, VALVES, SPRINKLER HEADS OR OTHER APPURTENANCES, THE CONTRACTOR SHALL MEASURE AND DOCUMENT THE EXACT LOCATION OF THE IRRIGATION FEATURE SO THAT IT CAN BE REINSTALLED AT THE EXACT SAME LOCATION THAT WAS MEASURED AND DOCUMENTED. THE IRRIGATION SYSTEM PIPE, VALVES & SPRINKLER HEAD LOCATIONS SHOWN ON THESE PLANS WERE GENERALLY TAKEN FROM ORIGINAL IRRIGATION SYSTEM CONSTRUCTION PLANS AND COULD NOT BE FIELD VERIFIED. THIS MAKES MEASUREMENT & DOCUMENTATION OF THE IRRIGATION SYSTEM COMPONENT LOCATIONS BY THE CONTRACTOR A CRITICAL TASK SO THE IRRIGATION SYSTEM CAN BE RESTORED TO WORKING CONDITION AFTER THE STORM SEWER WORK IS COMPLETED.
- B. AFTER STORM SEWER INSTALLATIONS HAVE BEEN COMPLETED AND THE RESULTING SUBGRADE HAS BEEN SHAPED AND COMPACTED, INSTALL THE REPLACEMENT IRRIGATION PIPING AND SALVAGED VALVES AND APPURTENANCES. IN PARTICULAR, VALVES, SPRINKLER HEADS, AND OTHER APPURTENANCES SHALL BE REINSTALLED AT THE EXACT SAME LOCATION AS THEY WERE ORIGINALLY LOCATED PRIOR TO BEING REMOVED. ANY VARIATION FROM PRE-CONSTRUCTION CONDITIONS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- C. INSTALL REPLACEMENT IRRIGATION PIPING AND SALVAGED VALVES AND OTHER APPURTENANCES TO MATCH THE CONDITION OF THE EXISTING IRRIGATION SYSTEM (PRIOR TO ANY WORK BEING DONE ON THE SPORTS TURF OR WARNING TRACK).
- D. IRRIGATION COMPONENTS AND LAYOUT SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF PEA GRAVEL DRAINAGE LAYER.
- E. IRRIGATION COMPONENTS AND LAYOUT SHALL BE PRESSURE CHECKED (24 HOUR STATIC PRESSURE) PRIOR TO PLACEMENT OF PEA GRAVEL DRAINAGE LAYER.
- F. AFTER OWNER APPROVAL AND PASSING PRESSURE CHECK TESTING, PLACE PEA GRAVEL DRAINAGE LAYER AS SPECIFIED, TAKING CARE NOT TO DAMAGE ANY IRRIGATION PIPES.

3.04 ACCEPTANCE

- A. SPORTS TURF ACCEPTANCE SHALL BE BASED ON THE FOLLOWING CRITERIA:
 - 1. ALL REQUIREMENTS FOR THE COMPLETED INSTALLATION AND MAINTENACE HAVE BEEN PROVIDED.
 - 2. ALL SOD AREAS PLACED ARE HEALTHY.
 - 3. EVEN-COLORED VIABLE SPORTS TURF IS ESTABLISHED.
 - 4. FREE OF WEEDS, UNDESIRABLE GRASS SPECIES, DISEASE AND INSECTS.
 - 5. SOD IS 'KNIT DOWN' TO THE ROOTZONE MATERIAL SO THAT IT CANNOT BE PULLED UP.
 - 6. ALL SOD AREAS PLACED ARE WITHOUT SCATTERED BARE SPOTS, DEAD OR DORMANT SOD.
 - 7. CLEAN-UP OPERATIONS ARE COMPLETED.
- B. WARNING TRACK ACCEPTANCE SHALL BE BASED ON THE FOLLOWING CRITERIA:
 - 1. ALL REQUIREMENTS FOR THE COMPLETED INSTALLATION HAVE BEEN PROVIDED.
 - 2. THE SLOPES OF THE ROLLED AND FINISHED WARNING TRACK AREAS PLACED SHALL BE EVEN AND SMOOTH.
 - 3. ALL ROLLED AND FINISHED WARNING TRACK AREAS SHALL NOT HAVE ANY IRREGULARITIES OR DEPRESSIONAL AREAS.
- C. IRRIGATION SYSTEM ACCEPTANCE SHALL BE BASED ON THE FOLLOWING CRITERIA:
 - 1. ALL PORTIONS OF THE IRRIGATION SYSTEM THAT WERE EITHER REMOVED TO ACCOMMODATE THE CONSTRUCTION, OR DAMAGED BY CONSTRUCTION OPERATIONS HAVE BEEN REINSTALLED.
 - 2. THE PORTIONS OF THE IRRIGATION SYSTEM THAT WERE REPLACED PASS A 24-HOUR STATIC PRESSURE CHECK.
 - 3. THE PORTIONS OF THE IRRIGATION SYSTEM THAT WERE REPLACED ARE FULLY FUNCTIONAL.



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REVISIONS

DRAWN: TRED SCHNOOR

APPROVED: TRED SCHNOOR

ISSUED FOR: 98% REVIEW

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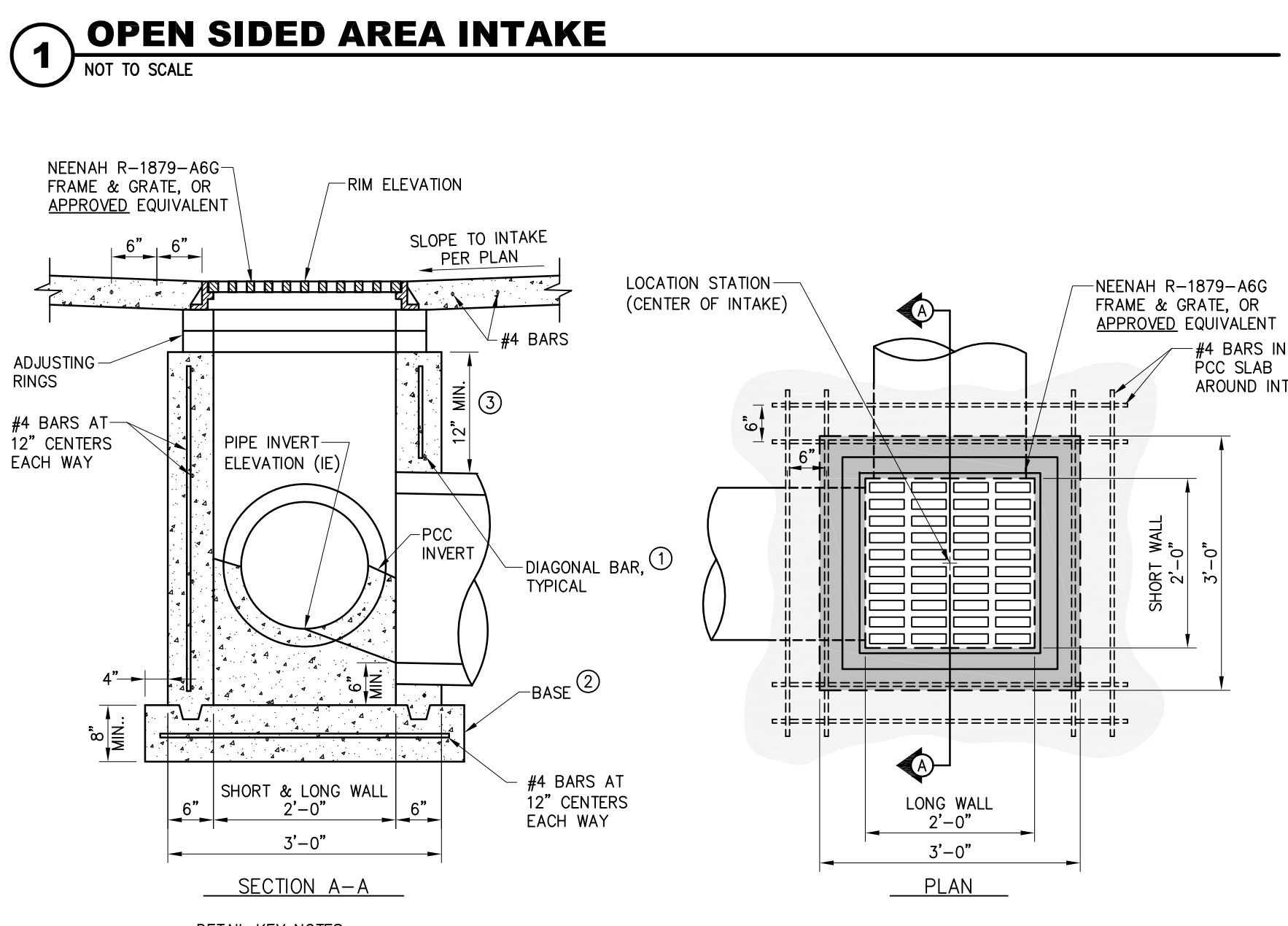
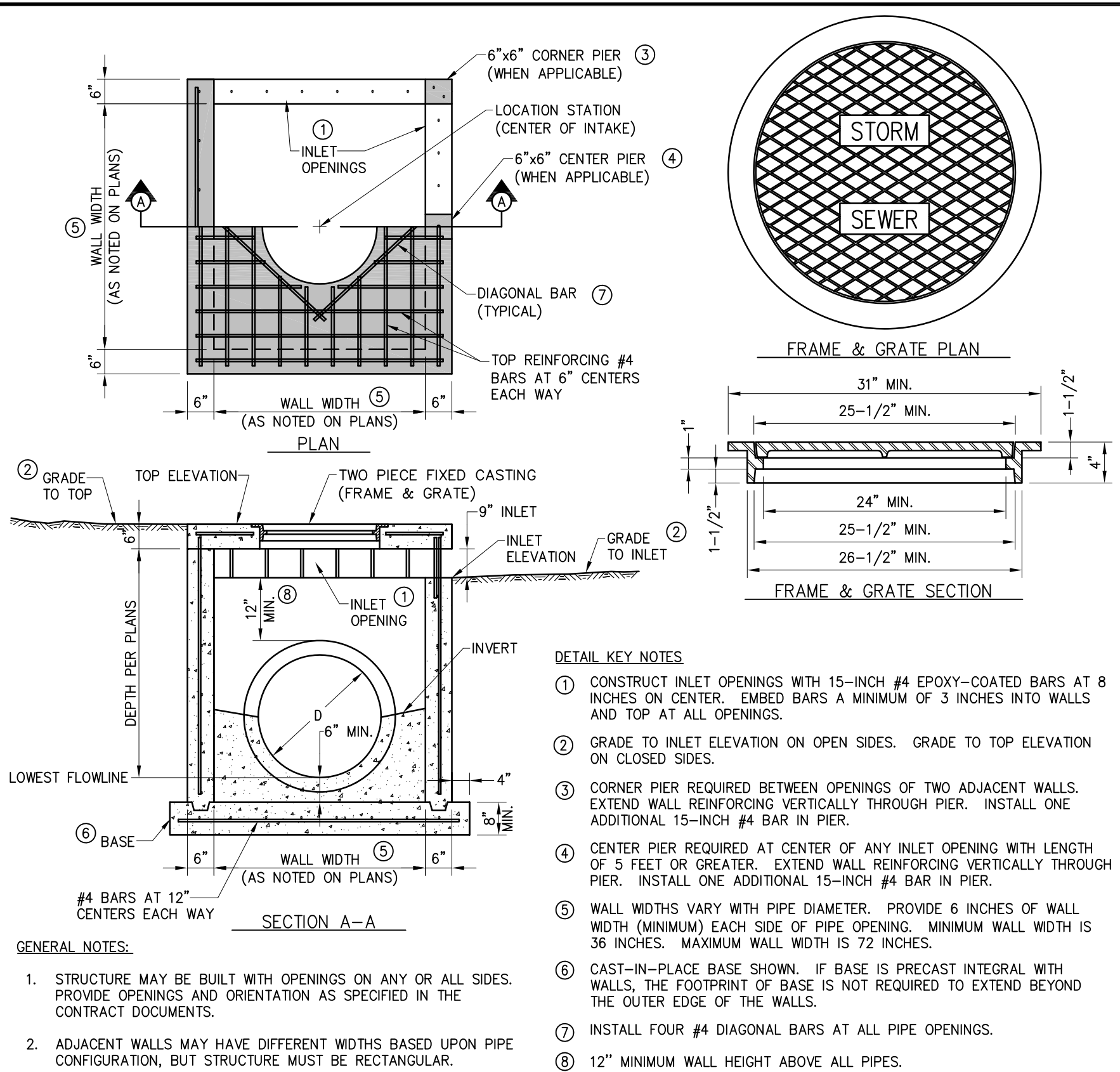
S-B PROJECT NO.: 12150

C.I.P. NO.: 314338-03

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VETERANS MEMORIAL STADIUM
2014 STORM SEWER
IMPROVEMENTS - PHASE II
950 ROCKFORD ROAD SW, CEDAR RAPIDS, IOWA 52404**

SITE CONSTRUCTION NOTES

C5.2



PIPE LOCATION	MAXIMUM PIPE DIAMETERS	
	PRECAST STRUCTURE	CAST-IN-PLACE STRUCTURE
SHORT WALL	15"	18"
LONG WALL	24"	30"

