STREET IMPROVEMENTS FOR
OLD TOWN - PHASE 2
PART 1 - BOARDWALK

MOSLEY: From the N.L. of First Street to S.L. of Second St.

PROJECT NUMBER 472-82374
INDEX CODE 705731
REVISED

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK - CITY ENGINEER

GENERAL NOTES

1. Traffic generated outside the project area and local business or residential traffic generated within the project area are to be carried through construction.

2. Underground utility service lines and overhead utility pole lines are to be adjusted by others if necessary prior to construction unless the plans specifically call for their adjustment by the Contractor or by thier owner. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agricultural permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

4. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are disturbed by his construction operations. Such irons shall be re-established by a licensed Land Surveyor in accordance with state laws.

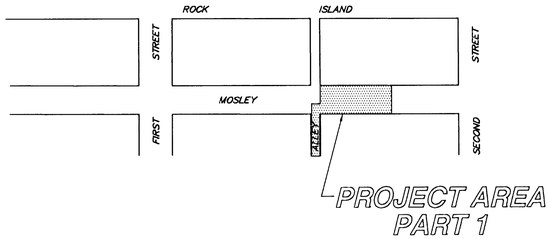
6. Contractor will be required to provide a minimum notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:

   Kansas One-Call 687-2470

7. No driveways are to be constructed with this project.

SRB

Scale 1" = 150'



INDEX OF SHEETS

1. TITLE & PROJECT AREA MAP
2. PROJECT NOTES
3. BOARDWALK DECK PLANS & DETAILS
4. BOARDWALK DECK DETAILS
5. HANDICAP ACCESS RAMP DETAILS
6.-7. MANHOLE DETAILS

BENCH MARKS

1. "□" cut on north end of curb return at NE corner of !st & Mosley; Elev. 109.21

2. "□" cut on west end of curb return at NW corner 2nd & Mosley; Elev. 111.16

Thomas C. Ruggles
11-30-9

REVISED 11-30-93 SHEETS 1-5; ADDED SHEETS 6-7

SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES REQUIRED TO COMPLETE THE WORK AS SPECIFIED HEREIN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL RAILS AND TIES WHEN RAILROAD TRACKS FALL WITHIN CONSTRUCTION LIMITS OF THE PROJECT. REMOVAL SHALL INCLUDE ANY CONCRETE SLAB OR FOOTING BELOW TRACTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE CLEARING AND PREPARATION.
4. ALL EXPOSED CONCRETE FOR THIS PROJECT SHALL BE AS FOLLOWS:
   (a) ALL PRECAST CONCRETE CAPS FOR SEATING WALLS TO BE "OLD TOWN COLOR MIX" BY KELLEY CAST STONE, OR APPROVED EQUAL.
   (b) ALL OTHER EXPOSED CONCRETE INCLUDING SUPPORT WALLS AND HEADERS TO BE "OLD TOWN COLOR MIX" BY ALLEN CONCRETE, OR APPROVED EQUAL.
5. ALL WORK SHALL CONFORM TO CITY OF WICHITA STANDARD SPECIFICATIONS FOR CONCRETE PAVEMENT.

CONCRETE WALL NOTES:

1. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATION PROVIDED VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.
2. ALL STRUCTURAL REGULAR WEIGHT CONCRETE SHALL ATTAIN A MIN. COMPRESSIVE STRENGTH OF 3500 PSI @ 28 DAYS. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST ACI 301 STANDARDS PUBLICATION.
3. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 40.
4. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 2" CLEAR FOR FORMED SURFACES, AND 3" CLEAR FOR FOOTINGS.
5. CONTROL JOINTS TO BE PLACED AT A MAX. OF 16 FT. ON CENTER.
6. THE MAXIMUM NET ALLOWABLE TOTAL LOAD SOIL BEARING PRESSURE DOES NOT EXCEED 2000 PSF FOR WALL FOOTINGS. FOOTINGS SHALL BEAR INTO UNDISTURBED NON-ORGANIC SOIL. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH PROJECT ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING STEEL SLEEVES FOR METAL RAILING WHEN FORMING CONC. WALL.
8. ALL EXPOSED CONCRETE SHALL BE "OLD TOWN COLOR MIX" OR APPROVED EQUAL. CURED CONCRETE COLOR TO BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
9. ALL EXPOSED VERTICAL FACES ON CONCRETE SUPPORT WALL TO HAVE A ROUGH BOARD FINISH. ROUGH BOARD FINISH TO MATCH APPROVED FINISH FOR OLD TOWN BREW PUB DECK IMPROVEMENTS ROUGH BOARD FORMS TO BE APPROVED BY THE PROJECT ENGINEER PRIOR TO START OF ANY CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OFF ANY IMPERFECTIONS ON FACE OF ROUGH BOARD FINISH WITH A LIGHT SANDBLAST. DO NOT EXPOSE ANY AGGREGATE WITH SANDBLASTING PROCEDURE.
11. EXTRA THICKNESS FOR WALL FOOTING REQUIRED FOR PROTECTION OF WATER MAIN OR STORM SEWER PIPE SHALL BE INCIDENTAL TO THE BID PRICE FOR CONCRETE WALL.
12. RECONSTRUCTION OF V.C.P. STORM OR SANITARY SEWER PIPE NECESSARY FOR WALL CONSTRUCTION SHALL BE INCIDENTAL TO THE BID PRICE FOR RELOCATING STORM OR SANITARY SEWER MANHOLE. ALL SANITARY AND STORM SEWER REMOVAL AND RECONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS.

BRICK WALL NOTES:

1. ALL EXPOSED BRICK IN RAISED SEATING WALLS TO BE GRADE SW HOLLOW MASONRY UNITS MEETING ASTM DESIGNATION C652 OR GRADE SW SOLID MASONRY UNITS MEETING ASTM SPEC C216-86.
2. TYPE N MORTAR SHALL BE USED FOR ALL EXPOSED BRICK. MORTAR THICKNESS TO BE 3/8". COLOR TO MATCH EXPOSED CONCRETE.
3. ALL EXPOSED CONCRETE SHALL BE "OLD TOWN COLOR MIX" OR APPROVED EQUAL. CURED CONCRETE COLOR SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.
4. BRICK USED IN RAISED SEATING WALLS SHALL BE "MIDLAND OXIDE RED" STANDARD SIZE BRICK MANUFACTURED BY GLEN GERRY OR APPROVED EQUAL.
5. ALL BRICK AND MORTAR WORK SHALL CONFORM TO THE 1991 UNIFORM BUILDING CODE, AS ADOPTED BY THE CITY OF WICHITA.

METAL RAILING NOTES:

1. ALL SURFACES SHALL BE SHOP PAINTED WITH ONE COAT PRIMER AND TWO COATS FLAT BLACK FINISH. PAINT SYSTEM TO BE USED SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION. ALL FIELD SCRATCHES SHALL BE TOUCHED UP AFTER ERECTION, USING SAME PAINT SYSTEM. PAINT BY KANSAS PAINT AND COLOR CO.. PRIMER TO BE #3240 LIGHT GRAY, RUST INHIBITING PRIMER. BLACK PAINT TO BE #15B004 FLAT BLACK (OR APPROVED EQUAL).
2. THE 2"X2" TUBE POST TO MEET ASTM A500 GRADE
3. THE CHANNEL RAILS, VERTICAL RAILS, AND ROLLED RAILS TO MEET ASTM A-36 STANDARDS.
4. THE NEWEL POST BALL FOR THE POST SHALL BE #118 OF THE LAWLER MACHINE AND FOUNDRY CO. INC., BIRMINGHAM, ALABAMA, OR APPROVED EQUAL.

WOOD CONSTRUCTION NOTES:

1. THE DESIGN LIVE LOAD FOR THE BOARDWALK, STAIRS, AND RAMP IS 100 PSF.
2. CONTRACTOR TO VERIFY FINISH FLOOR ELEVATION ON EACH BUILDING WHERE A BOARDWALK IS TO BE CONSTRUCTED, PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO MATCH PROPOSED FINISH FLOOR OF EACH BUILDING.
3. ALL WOOD SPECIFIED TO BE DIXIE CCA TREATED YELLOW PINE OR APPROVED EQUAL.
4. CCA TREATED WOOD SHALL BE PRESSURE IMPREGNATED IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF THE AWPB AND SHALL CARRY THE APPROPRIATE AMERICAN WOOD PRESERVERS BUREAU QUALITY ASSURANCE MARK INDICATING COMPLIANCE WITH THE APPROPRIATE AWPB QUALITY CONTROL STANDARDS.
5. ALL CCA TREATED LUMBER SHALL BE TREATED TO A MINIMUM RETENTION OF 0.25 LBS CCA PER CUBIC FOOT AND SHALL BEAR THE AWPB QUALITY MARK, LP-2 "ABOVE GROUND USE".
6. ALL JOIST HANGERS SHALL BE OF HOT DIPPED GALVANIZED STEEL, 18 GUAGE MATERIAL, MEETING FHA (HUD) MINIMUM PROPERTY STANDARDS.
7. ALL FASTENERS TO BE ZINC PLATED OR GALVANIZED.
8. PLACE 1/8" GAP BETWEEN DECK BOARDS.
9. ALL FRAMING AND ATTACHMENTS SHALL CONFORM TO 1991 UNIFORM BUILDING CODES, AS ADOPTED BY THE CITY OF WICHITA

11-30-93 REV. GENERAL NOTE #2 AND CONCRETE WALL NOTE #12

Gossen Livingston
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OLD TOWN STREET IMPROVEMENTS-PHASE 2
PROJECT NOTES

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SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

REVISED 11/30/93

PROJECT NUMBER 472-26-245-82374-000-000-001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM		TCR	11/3/93	TCR	70E

DWG FILE 70E\829-PN

SHEET 2 OF 7

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CowellArlington

OLD TOWN STREET IMPROVEMENTS
PROJECT NOTES

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FAX 652-7932
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

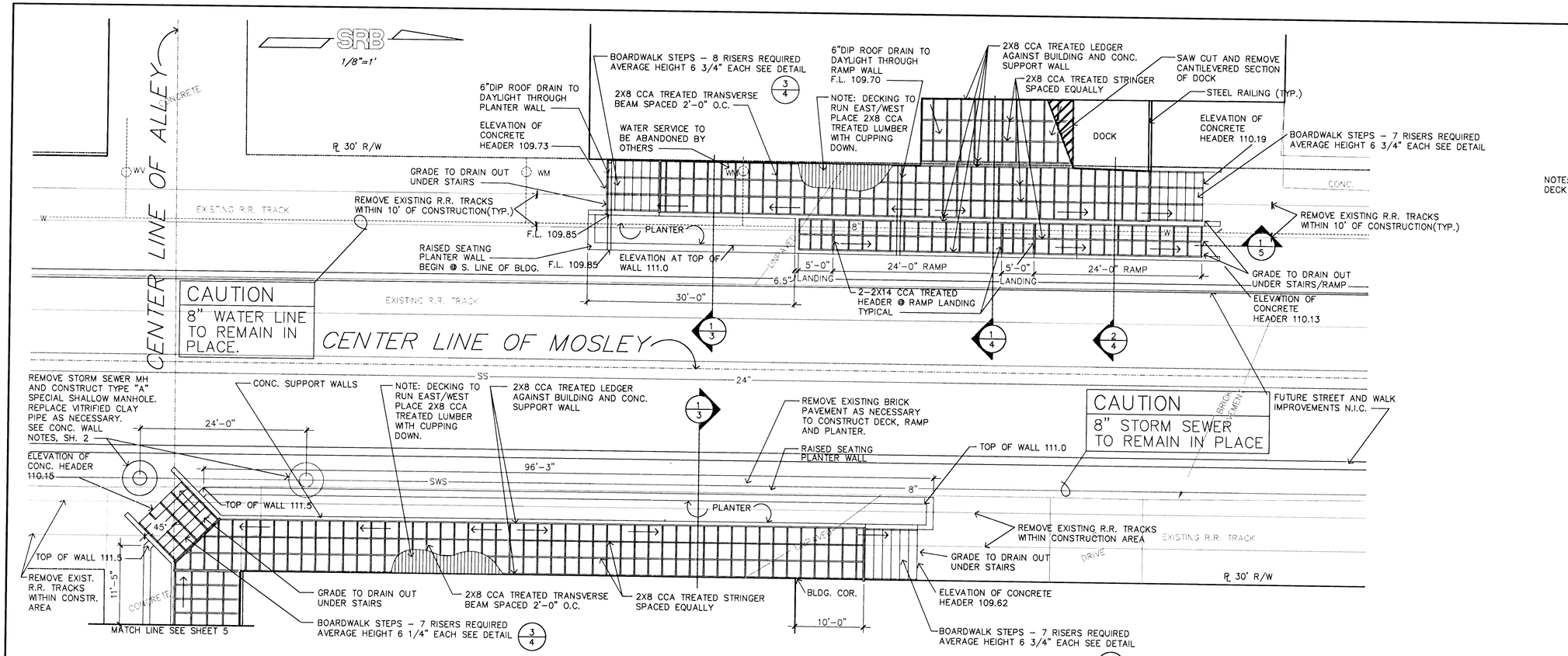
REVISED

PROJECT NUMBER
472-26-245-82374-000-000-001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM		TCR	11/3/93	TCR	70E

DWG. FILE 629-PN

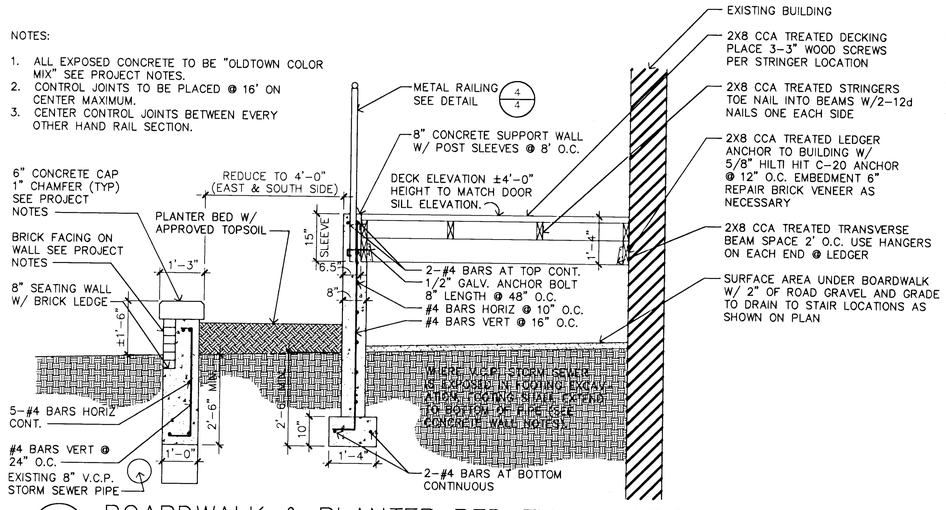
SHEET 2 OF 5



NOTE: REGRADE UNPAVED AREA AROUND DECK CONSTRUCTION TO MATCH EXISTING

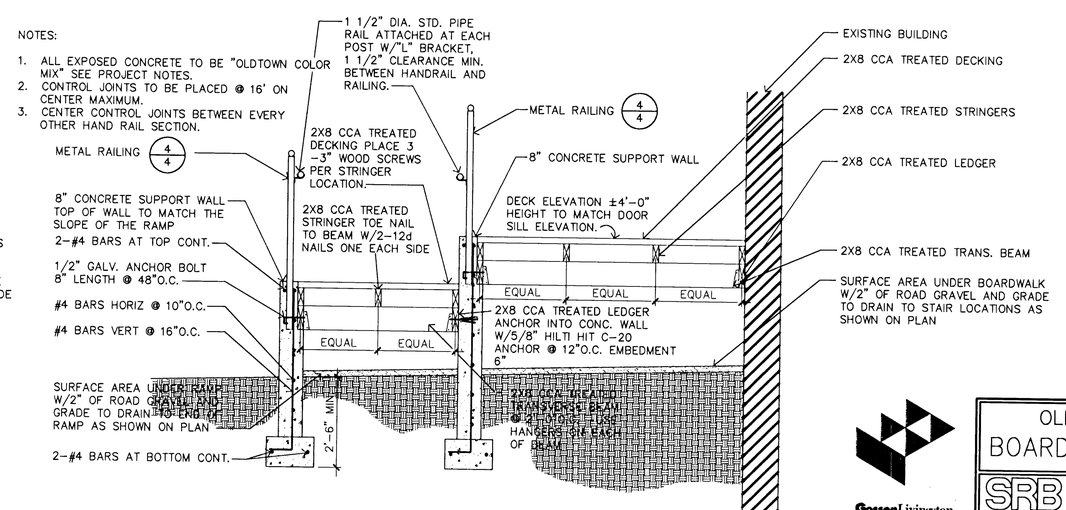
A BOARDWALK, RAMP & PLANTER PLANS

0' 4' 8' 12' 1/8"=1'-0"



1 BOARDWALK & PLANTER BED TYP. SECTION

0' 1' 2' 3' 1/2"=1'-0"



2 BOARDWALK & H.C. RAMP TYP. SECTION

0' 1' 2' 3' 1/2"=1'-0"

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OLD TOWN STREET IMPROVEMENTS
BOARDWALK DECK PLANS & DETAILS

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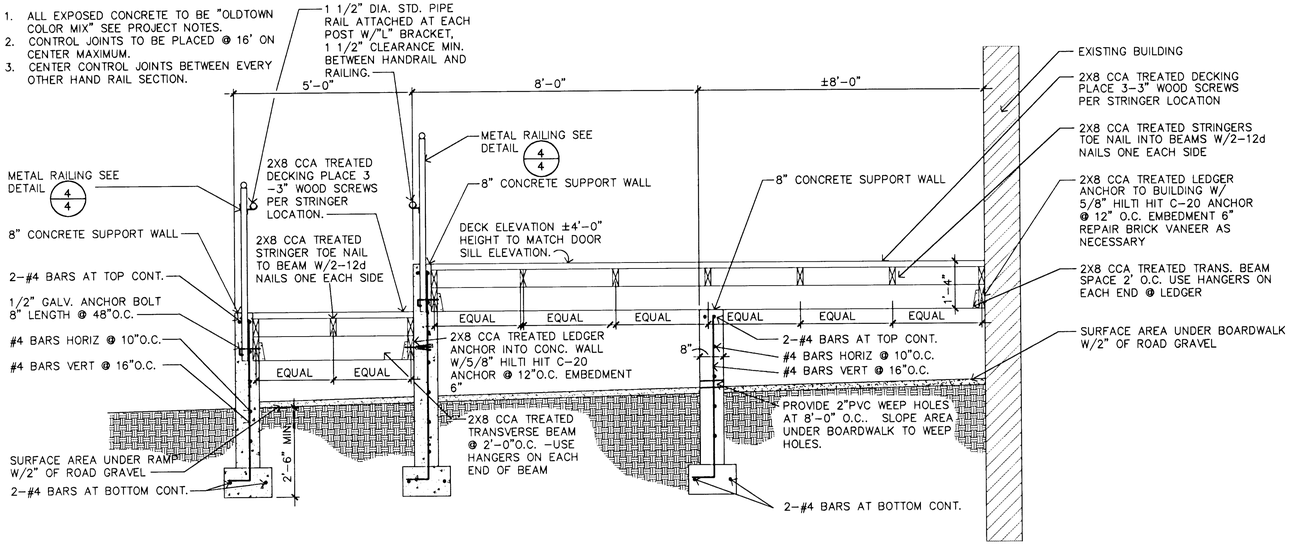
TDM		TCR	11/3/93	TCR	70E	829-DP	3	5

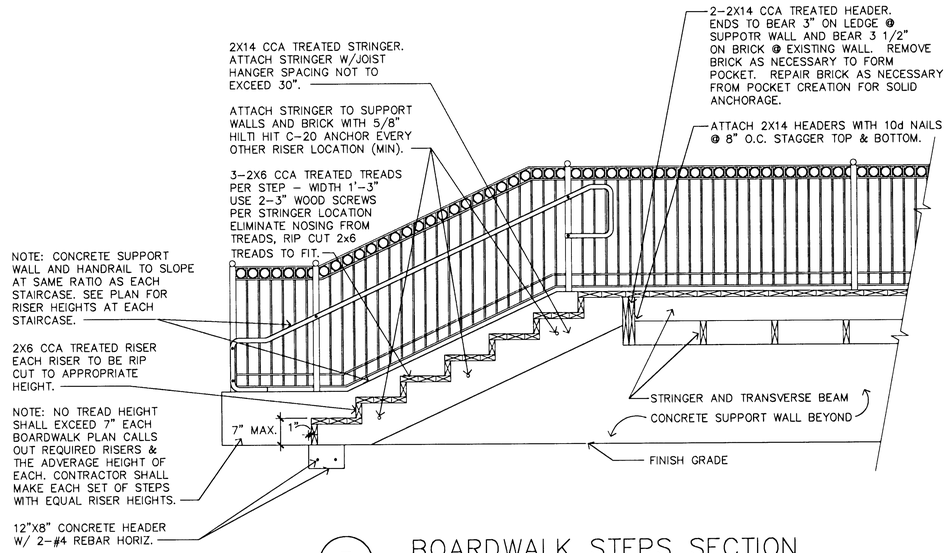
NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.



1 EXPANDED BOARDWALK & H.C. RAMP SECTION

0' 1' 2' 3' 1/2"=1'-0"



3 BOARDWALK STEPS SECTION

0' 1' 2' 3' 1/2"=1'-0"

NOTES:

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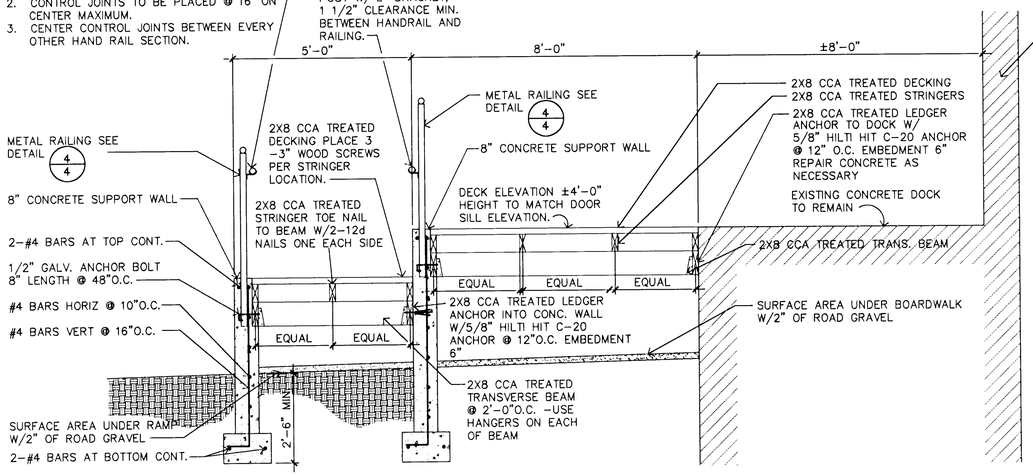
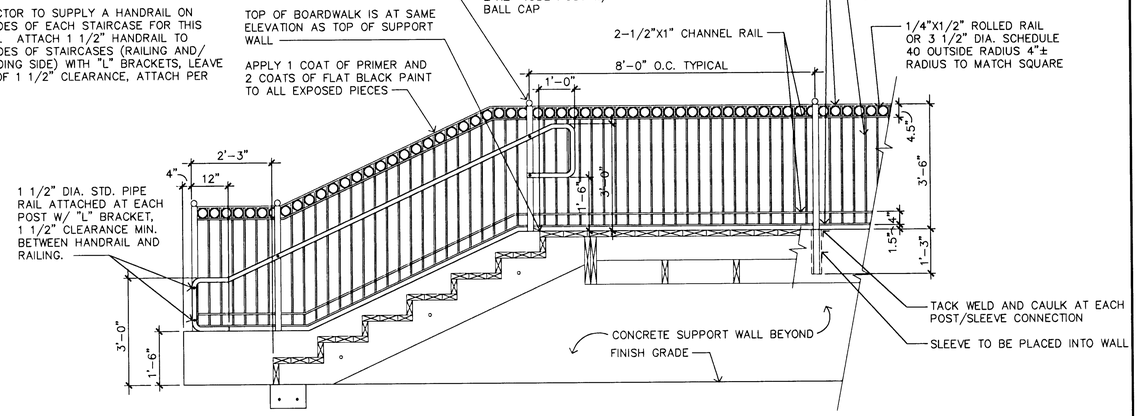


2 EXPANDED BOARDWALK @ EXISTING CONC. DOCK

0' 1' 2' 3' 1/2"=1'-0"

NOTE:
CONTRACTOR TO SUPPLY A HANDRAIL ON BOTH SIDES OF EACH STAIRCASE FOR THIS PROJECT. ATTACH 1 1/2" HANDRAIL TO BOTH SIDES OF STAIRCASES (RAILING AND/ OR BUILDING SIDE) WITH "L" BRACKETS, LEAVE A MIN. OF 1 1/2" CLEARANCE, ATTACH PER CODE.



4 METAL RAILING ELEVATION - TYPICAL

0' 1' 2' 3' 1/2"=1'-0"

GossenLivingston

OLD TOWN STREET IMPROVEMENTS
BOARDWALK DECK DETAILS

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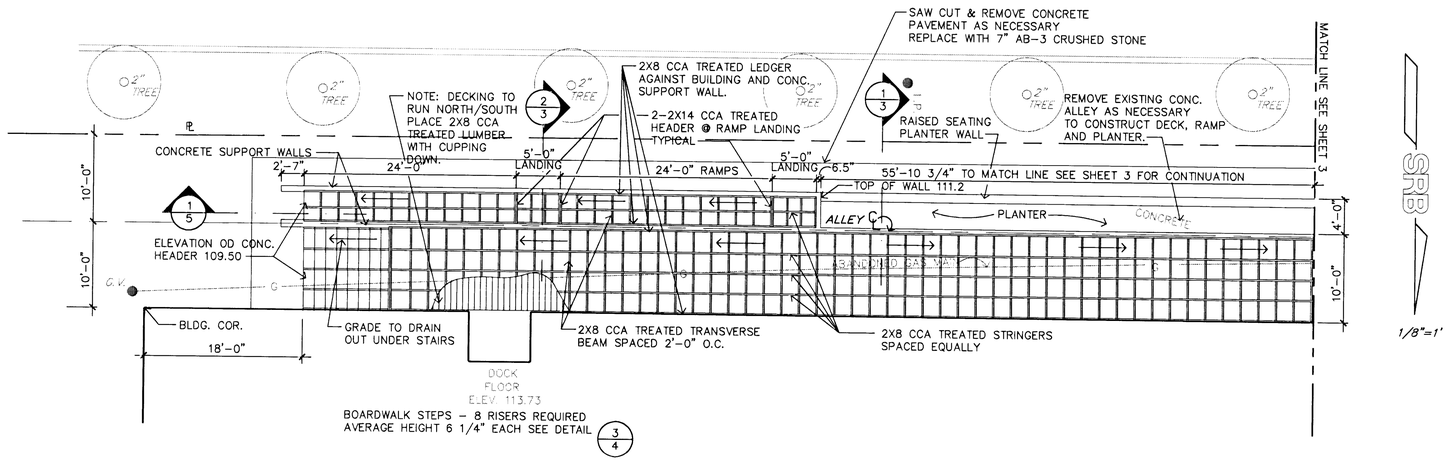
TDM		TCR	11/3/95	TCR	70E

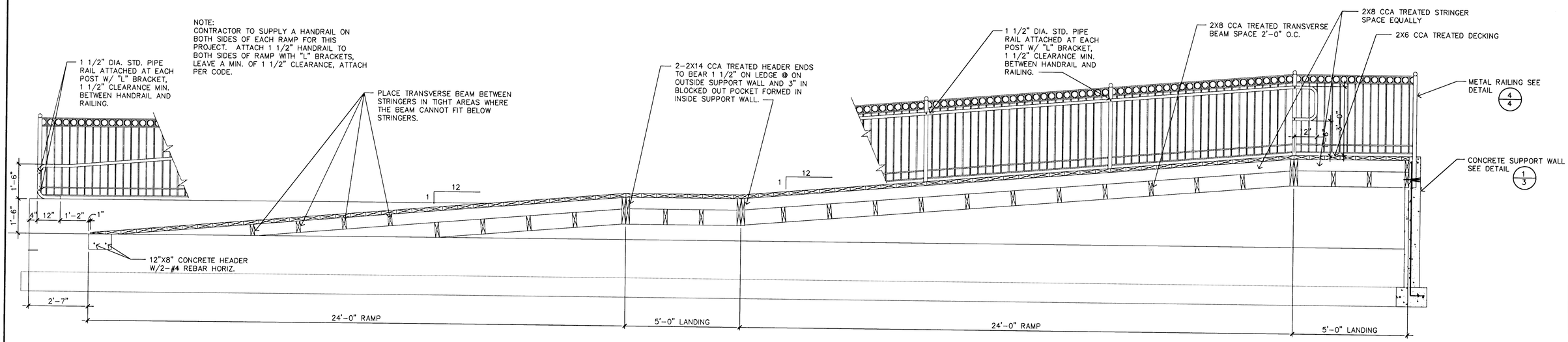
DWG. FILE 829-DD

SHEET 4 OF 5



1 BOARDWALK, RAMP AND PLANTER PLAN

0' 4' 8' 12' 1/8"=1'-0"



2 HANDICAP ACCESS RAMP ELEVATION

0' 1' 2' 3' 1/2"=1'-0"

Gossen Livingston

OLD TOWN STREET IMPROVEMENTS
HANDICAP ACCESS RAMP DETAILS

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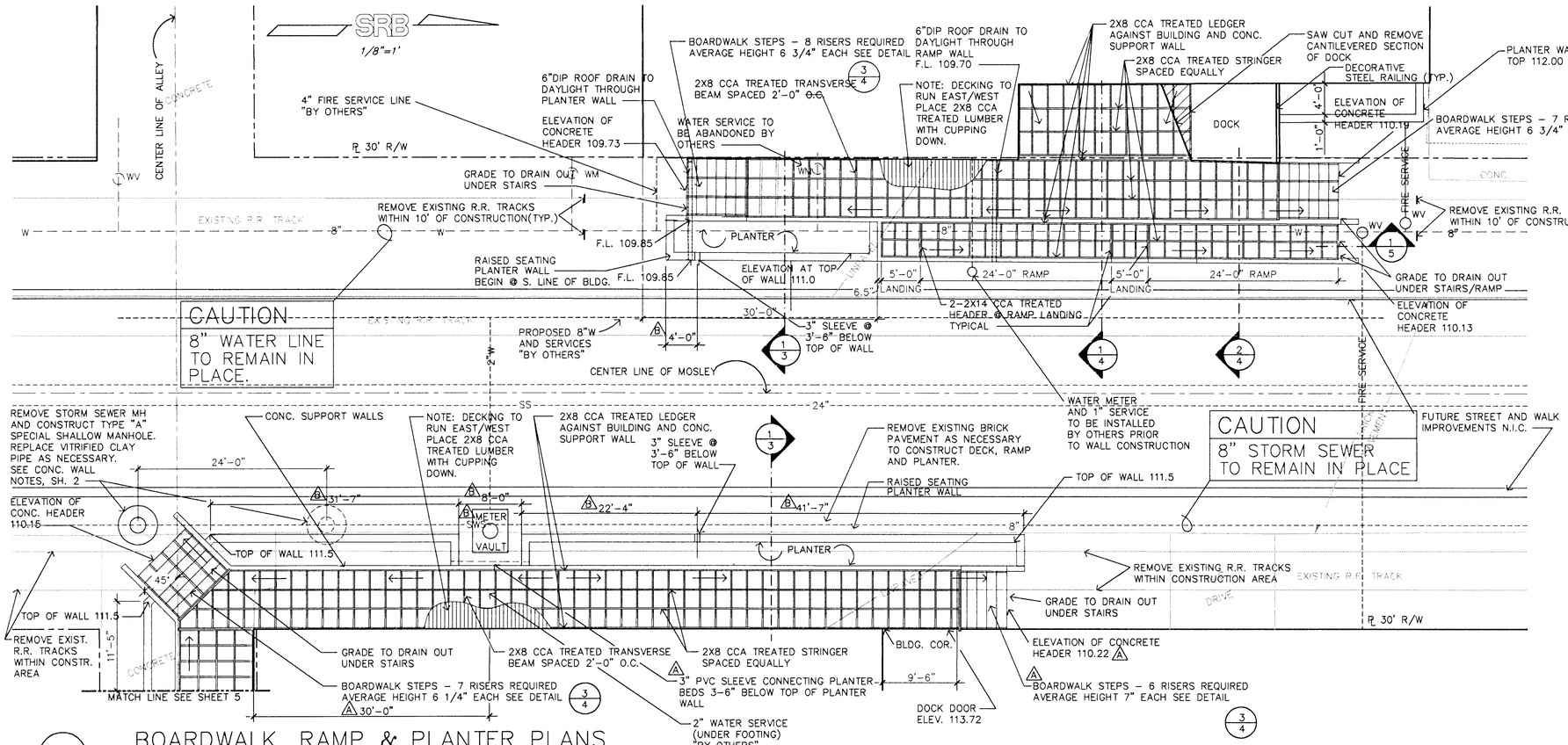
TDM		TCR	11/3/93	TCR	70E

DOT FILE 829-HR

SHEET 5 OF 5



A BOARDWALK, RAMP & PLANTER PLANS

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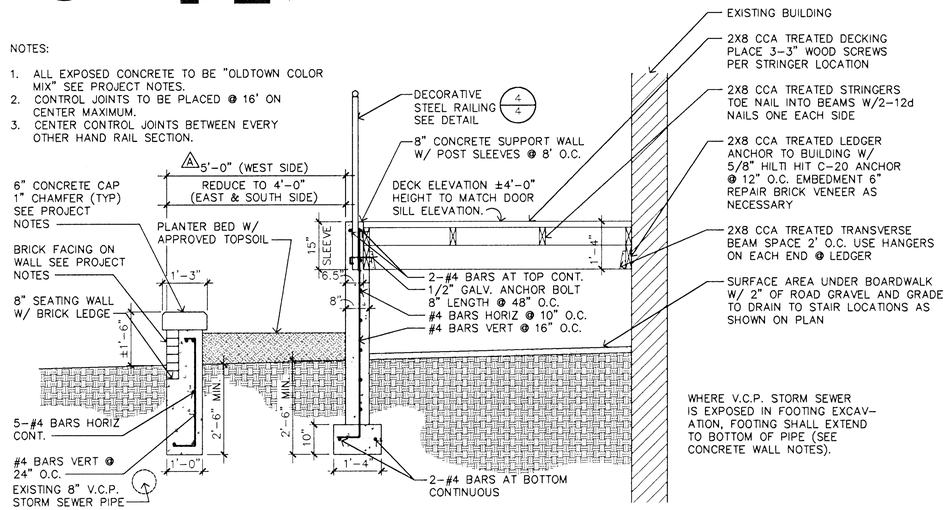

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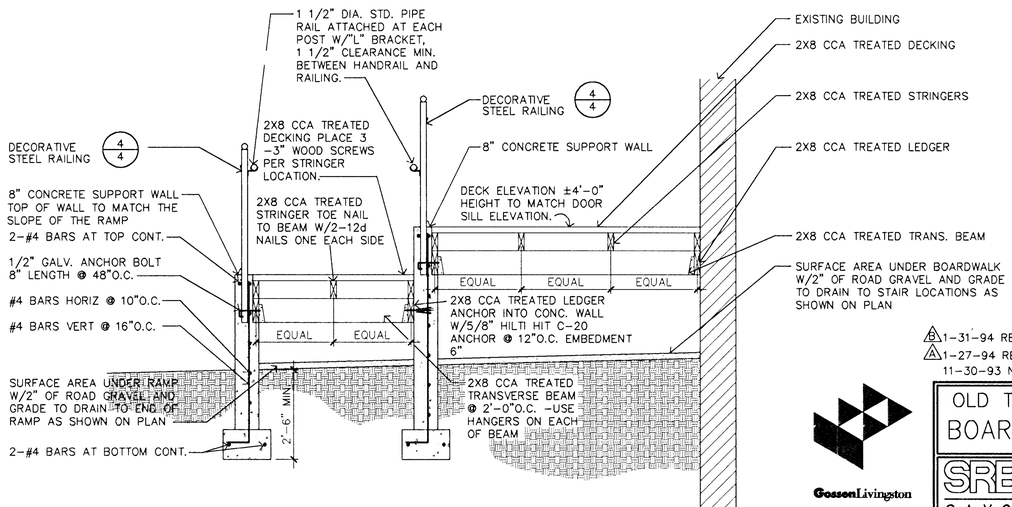

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0' 1' 2' 3' 1/2"=1'-0"

NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.

A 1-31-94 REVISED WALL DIMENSION AND WATER METER VAULT LOCATION.
A 1-27-94 REVISED WALL DIMENSION AND STAIRS, ADDED SLEEVE
11-30-93 NO REVISION

GossenLivingston
Architecture
125 Sath Church
Wichita, KS 67202
P. (316) 262-1252
Fax (316) 262-1264

OLD TOWN STREET IMPROVEMENTS-PHASE 2
BOARDWALK DECK PLANS & DETAILS

SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

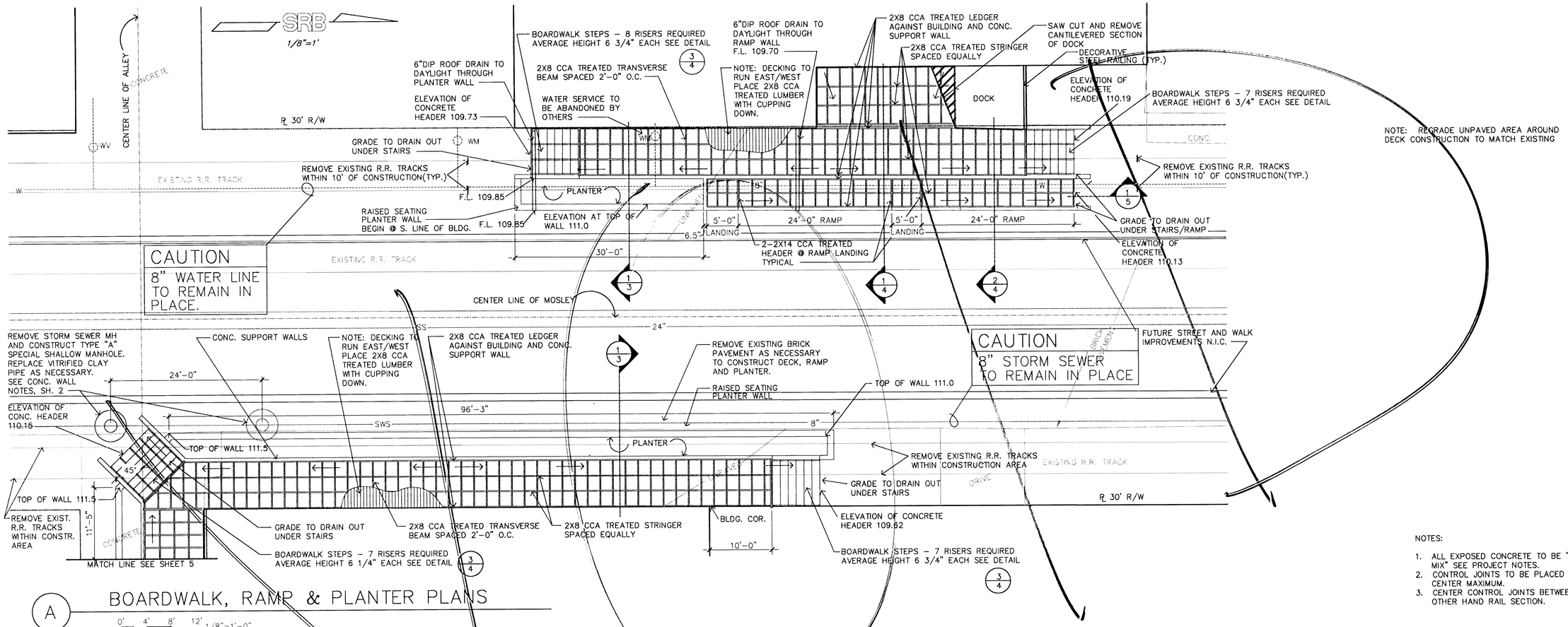
REVISED

PROJECT NUMBER 472-26-245-82374-000-000-001

DRAWING FILE 70E\829-DP | SHEET 3 OF 7

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM/TEB	TDM	TCR	11/3/93	TCR	70E

C:\WLAST\WLDATA.DWG Mon Jun 14 09:06:00 1994



A BOARDWALK, RAMP & PLANTER PLANS

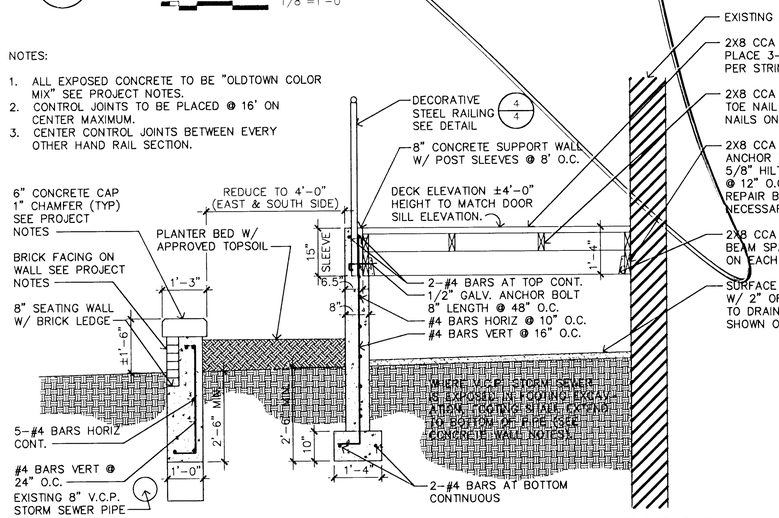
0' 4' 8' 12' 1/8"=1'-0"

NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.

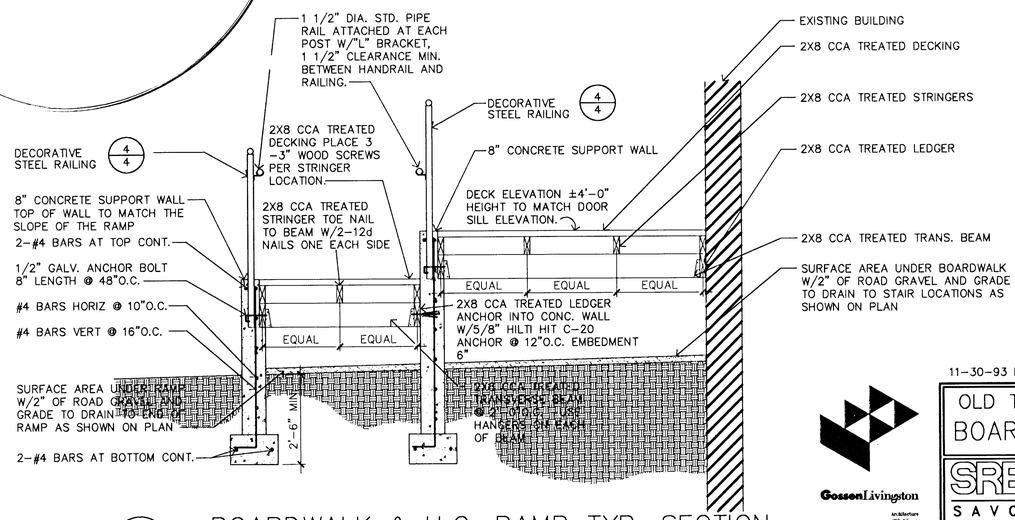
NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.



1 BOARDWALK & PLANTER BED TYP. SECTION

0' 1' 2' 3' 1/2"=1'-0"



2 BOARDWALK & H.C. RAMP TYP. SECTION

0' 1' 2' 3' 1/2"=1'-0"

11-30-93 NO REVISION

GossenLivingston
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Addison, TX 75001
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OLD TOWN STREET IMPROVEMENTS-PHASE 2

BOARDWALK DECK PLANS & DETAILS

SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

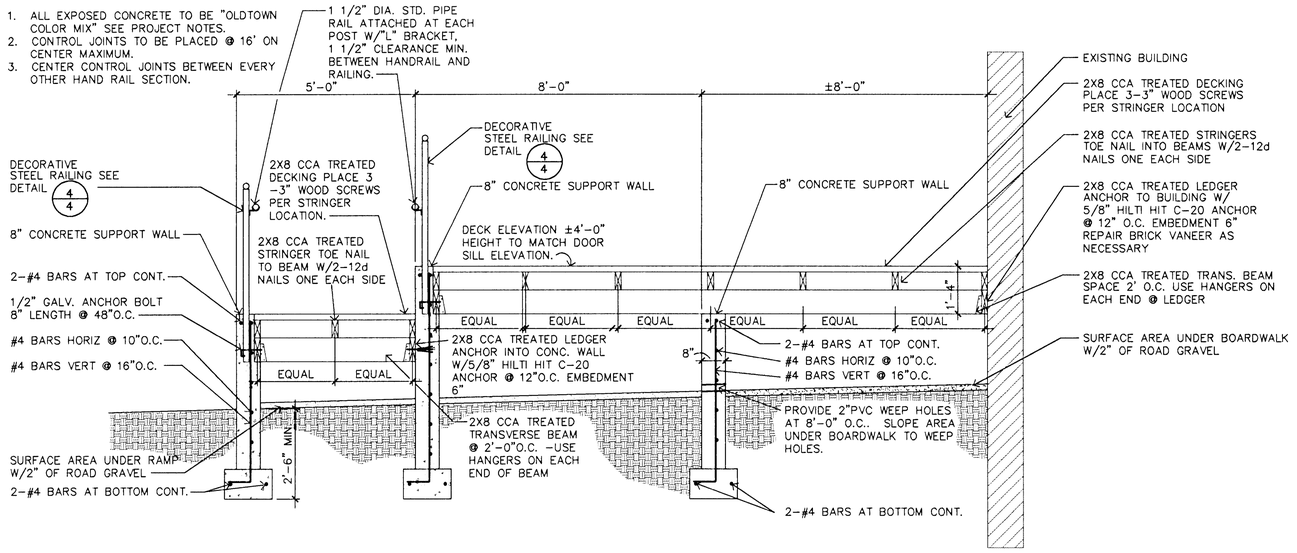
REVISED

PROJECT NUMBER
472-26-245-82374-000-000-001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB	DWG. FILE	SHEET
TDM	TDM	TCR	11/3/93	TCR	70E	70E\829-DP	3 OF 7

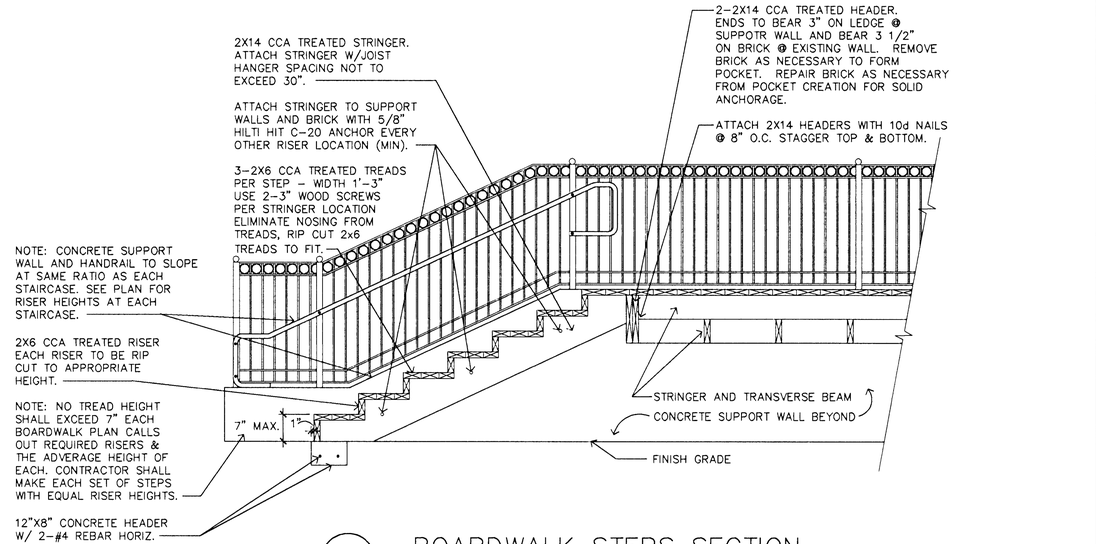
NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.



1 EXPANDED BOARDWALK & H.C. RAMP SECTION

0' 1' 2' 3' 1/2"=1'-0"

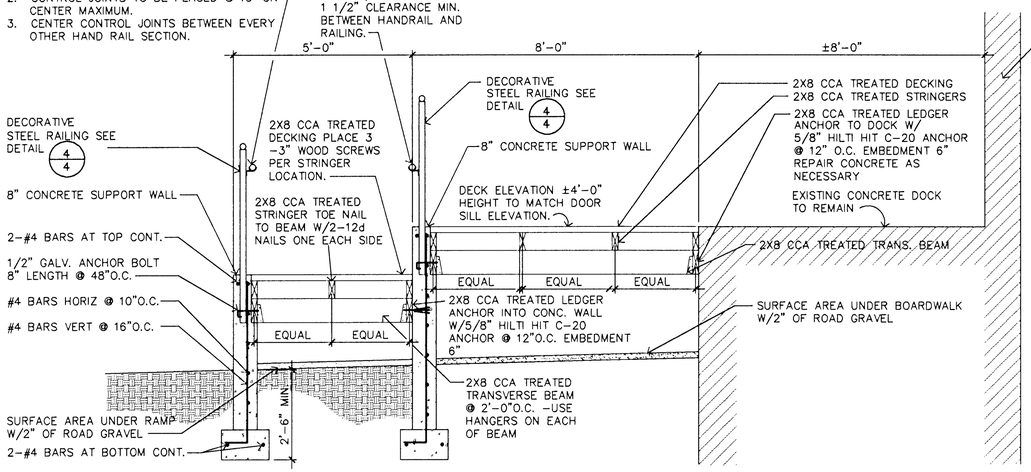


3 BOARDWALK STEPS SECTION

0' 1' 2' 3' 1/2"=1'-0"

NOTES:

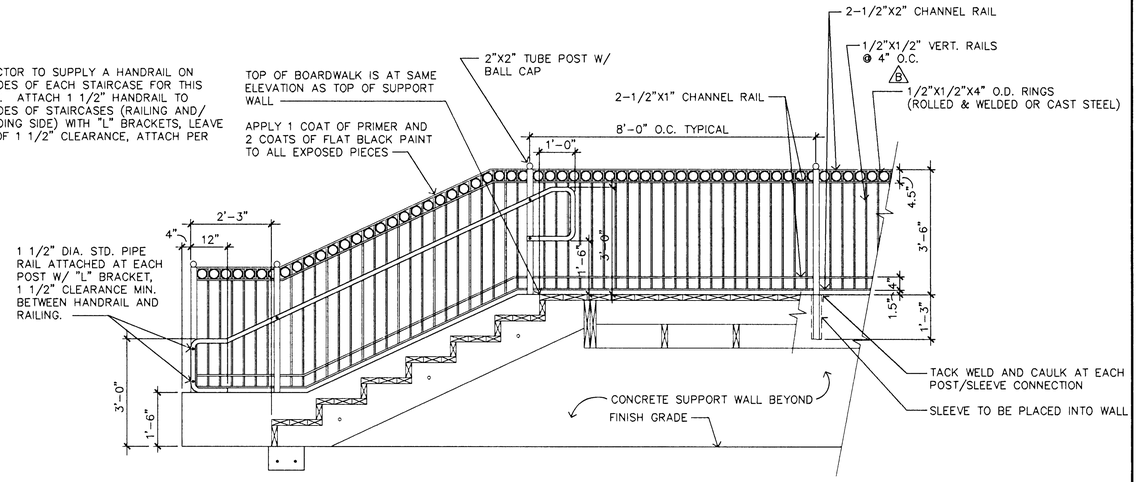
1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.



2 EXPANDED BOARDWALK @ EXISTING CONC. DOCK

0' 1' 2' 3' 1/2"=1'-0"

NOTE:
CONTRACTOR TO SUPPLY A HANDRAIL ON BOTH SIDES OF EACH STAIRCASE FOR THIS PROJECT. ATTACH 1 1/2" HANDRAIL TO BOTH SIDES OF STAIRCASES (RAILING AND/ OR BUILDING SIDE) WITH "L" BRACKETS, LEAVE A MIN. OF 1 1/2" CLEARANCE, ATTACH PER CODE.



4 DECORATIVE STEEL RAILING ELEVATION - TYPICAL

0' 1' 2' 3' 1/2"=1'-0"

B REVISED 1-31-94 DECORATIVE RINGS IN RAILING
REVISED 11-30-93 CHANNEL RAIL QUANTITY (DETAIL 4)

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OLD TOWN STREET IMPROVEMENTS-PHASE 2
BOARDWALK DECK DETAILS

SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

REVISED

PROJECT NUMBER
472-76-245-82374-000-000-001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM/TEB		TCR	11/3/93	TCR	70E

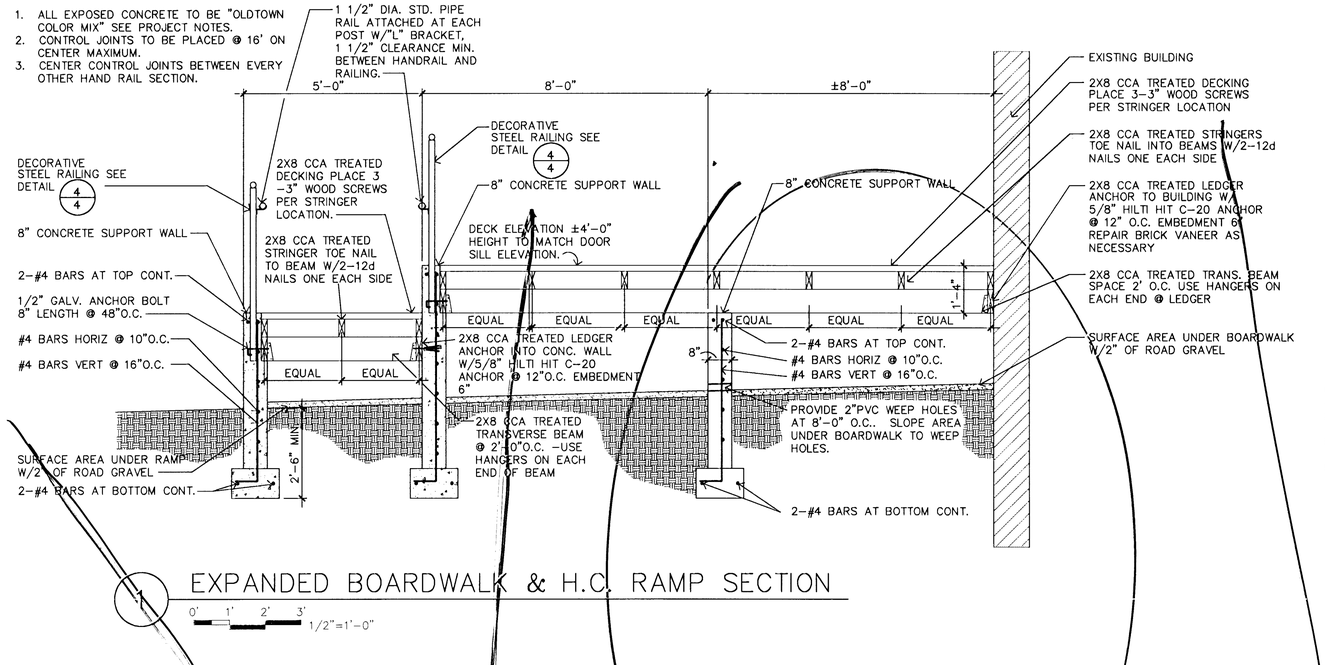
DWG FILE 70E\829-DD

SHEET 4 OF 7

D:\SAVOY\70E\829-DD Mon Jan 17 15:20:20 1994

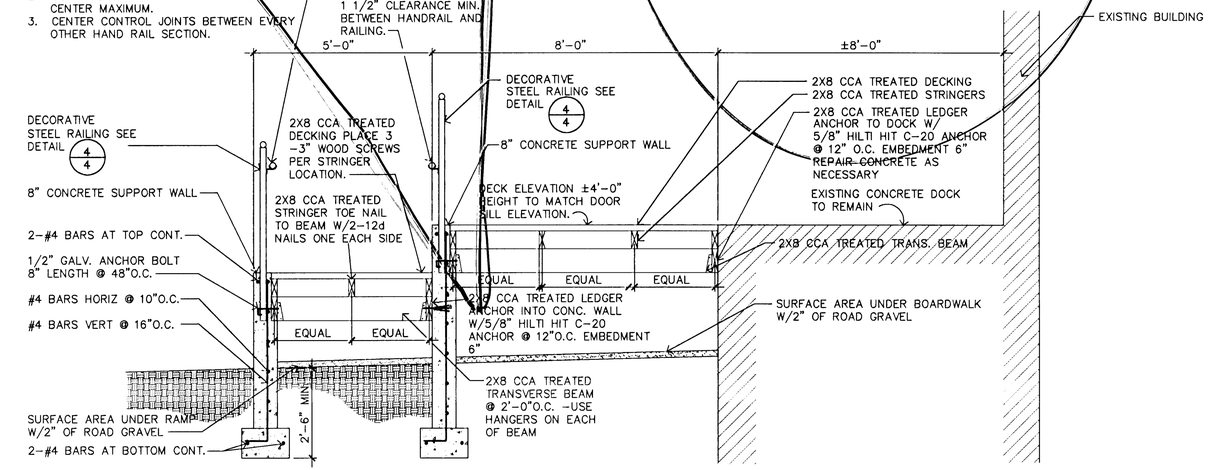
NOTES:

1. ALL EXPOSED CONCRETE TO BE "OLDTOWN COLOR MIX" SEE PROJECT NOTES.
2. CONTROL JOINTS TO BE PLACED @ 16' ON CENTER MAXIMUM.
3. CENTER CONTROL JOINTS BETWEEN EVERY OTHER HAND RAIL SECTION.



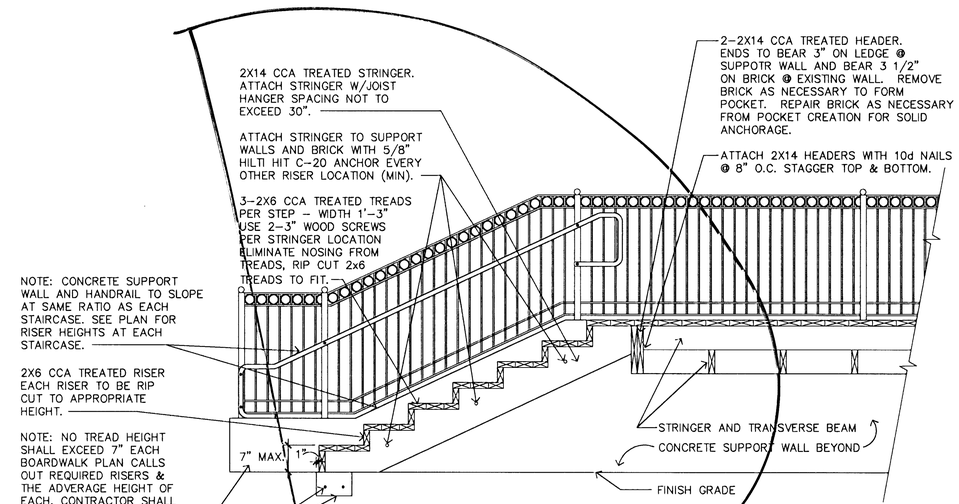
1 EXPANDED BOARDWALK & H.C. RAMP SECTION

0' 1' 2' 3' 1/2"=1'-0"



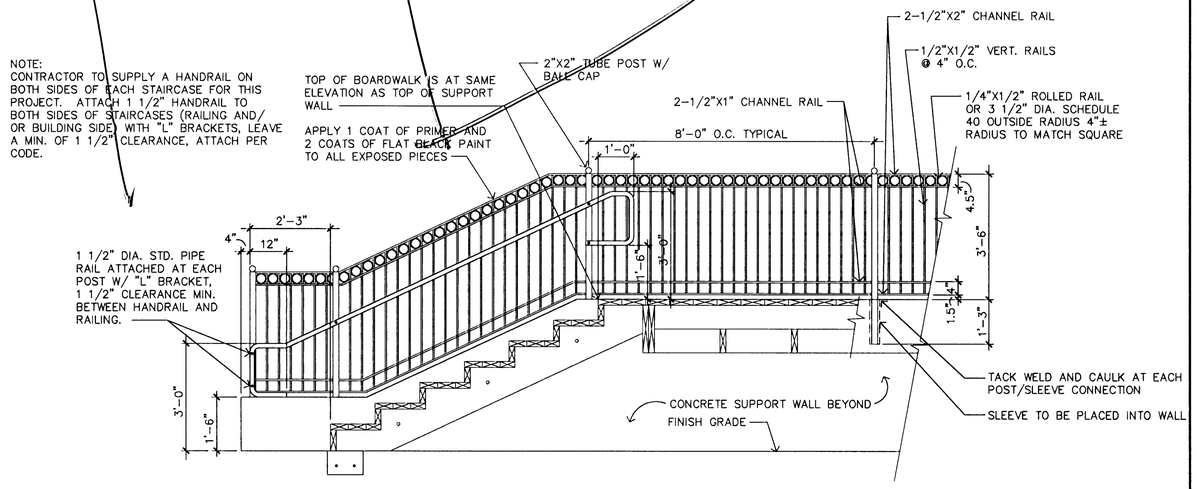
2 EXPANDED BOARDWALK @ EXISTING CONC. DOCK

0' 1' 2' 3' 1/2"=1'-0"



3 BOARDWALK STEPS SECTION

0' 1' 2' 3' 1/2"=1'-0"



4 DECORATIVE STEEL RAILING ELEVATION - TYPICAL

0' 1' 2' 3' 1/2"=1'-0"

REVISED 11-30-93 CHANNEL RAIL QUANTITY (DETAIL 4)

GossenLivingston

OLD TOWN STREET IMPROVEMENTS-PHASE 2

BOARDWALK DECK DETAILS

SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

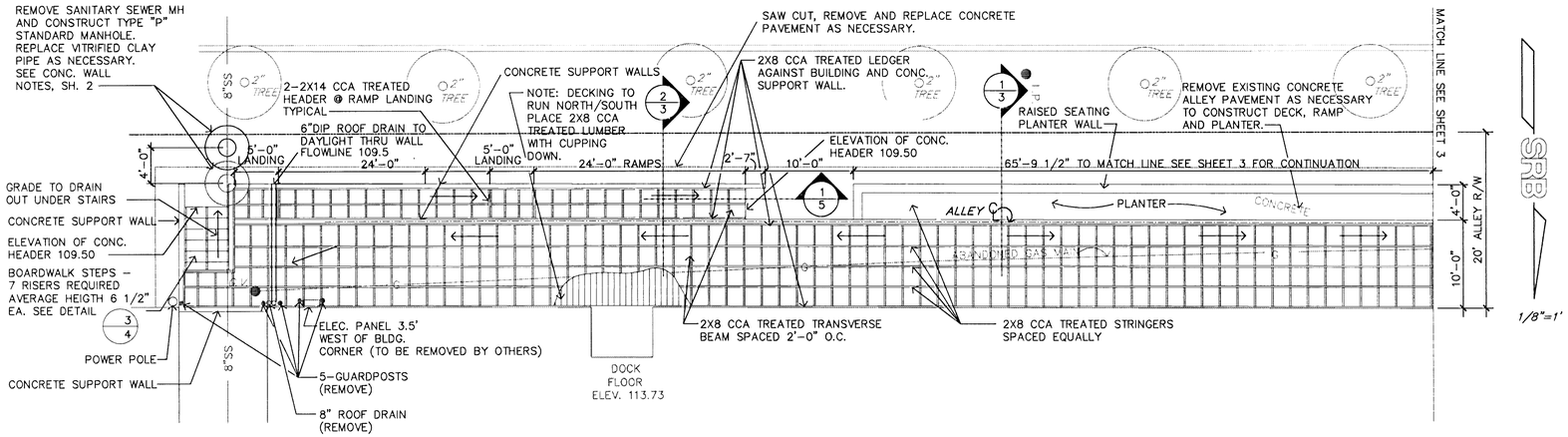
REVISED

PROJECT NUMBER 472-76-245-82374-000-000-001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM		TCR	11/3/93	TCR	70E

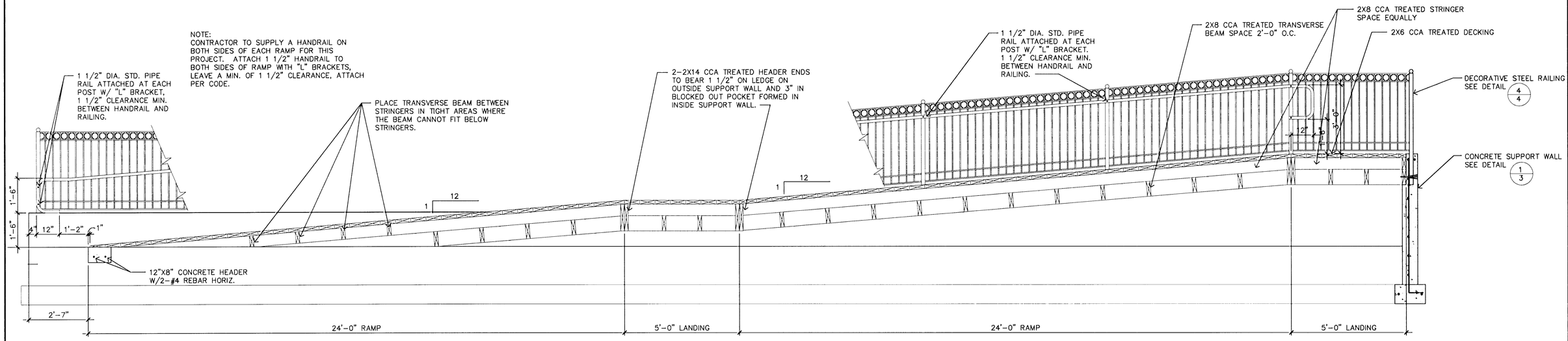
SRC FILE 829-00 70E

SHEET 4 OF 7



1 BOARDWALK, RAMP AND PLANTER PLAN

0' 4' 8' 12' 1/8"=1'-0"



2 HANDICAP ACCESS RAMP ELEVATION

0' 1' 2' 3' 1/2"=1'-0"

REV. 11-30-93 EXTENDED BOARDWALK & RELOCATED MANHOLE

GossenLivingston

OLD TOWN STREET IMPROVEMENTS-PHASE 2

HANDICAP ACCESS RAMP DETAILS

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SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

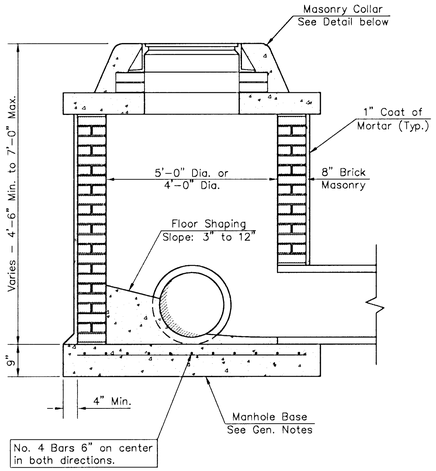
PROJECT NUMBER 472-76-245-82374-000-000-0001

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TDM	TDM	TCR	10/21/93	TCR	70E

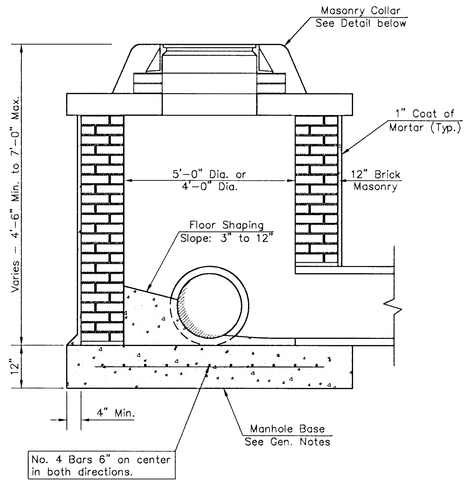
REVISED 11-30-93

DWG FILE 70E/829-HR

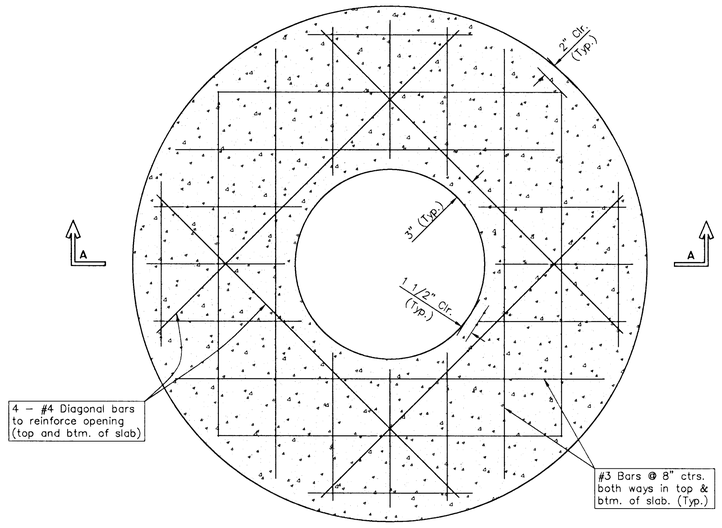
SHEET 5 OF 7



SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE



PLAN

GENERAL NOTES

1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4'. Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5'. Completed manhole shall be without leaks and water tight.

2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.

3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.

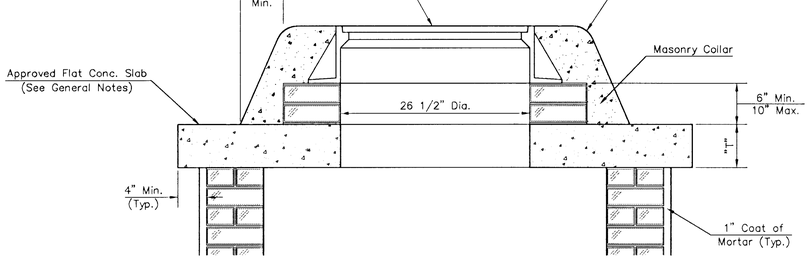
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.

5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.

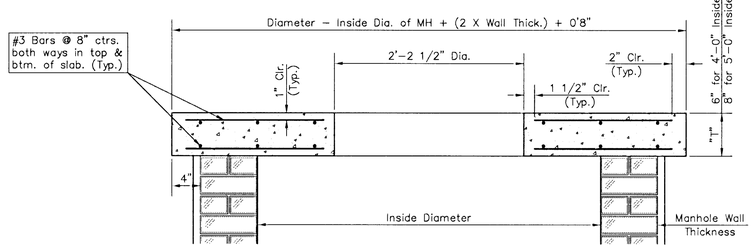
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.

7. Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.

8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

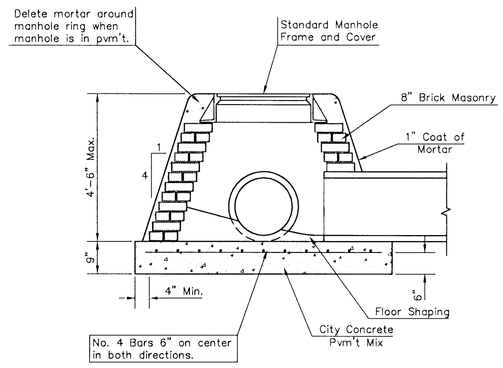


MASONRY COLLAR DETAIL

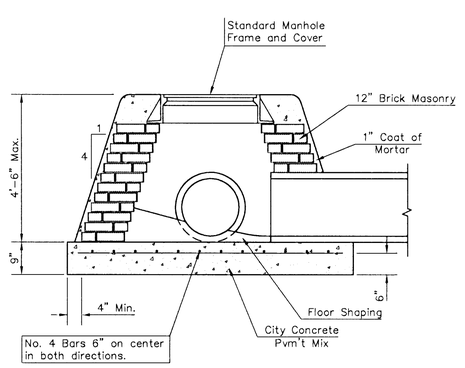


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

OLD TOWN STREET IMPROVEMENTS-PHASE 2
SHALLOW MANHOLE DETAIL

SRB
841 SOUTH HILLSIDE
WICHITA, KANSAS 67211
316-652-7754
FAX 652-7932
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

REVISED

PROJECT NUMBER
472-26-245-82374-000-000-001

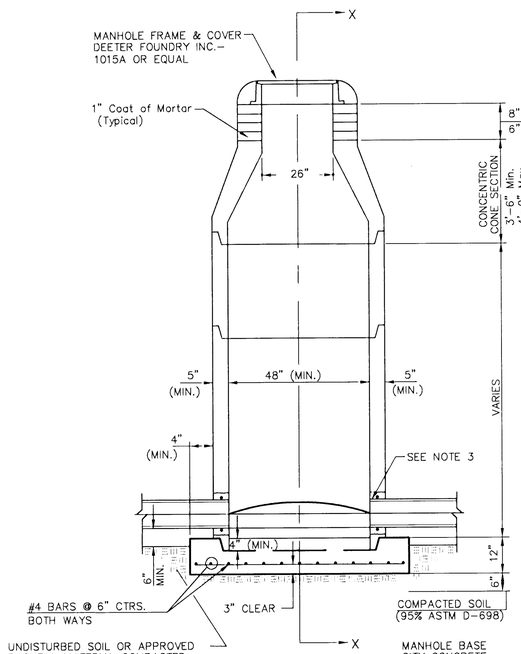
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
T. Brooks	T. Ruggles	T. Ruggles	11/30/93		70E

DWG. TITLE 70E1SHLMAN

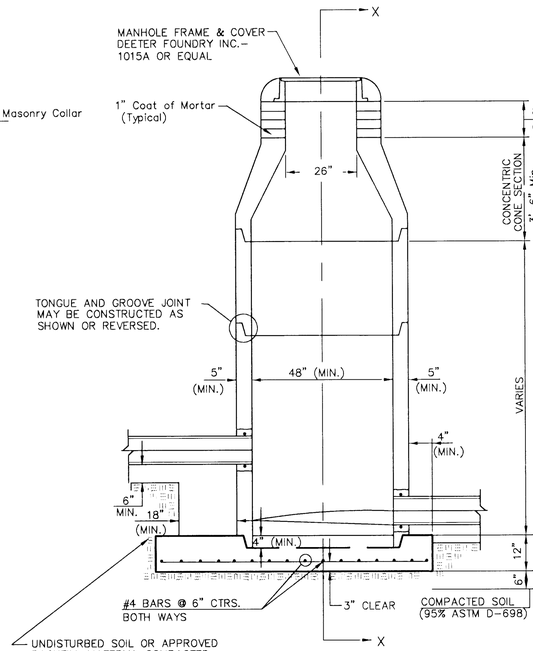
6

7

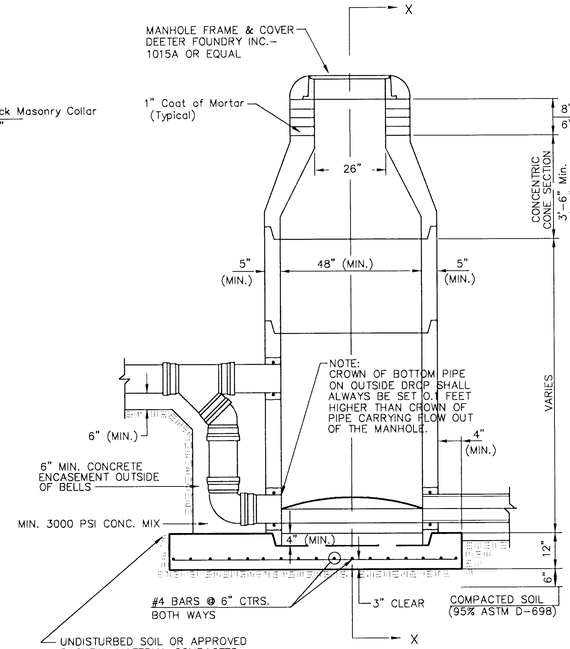
SEWER APPURTENANCES DETAILS



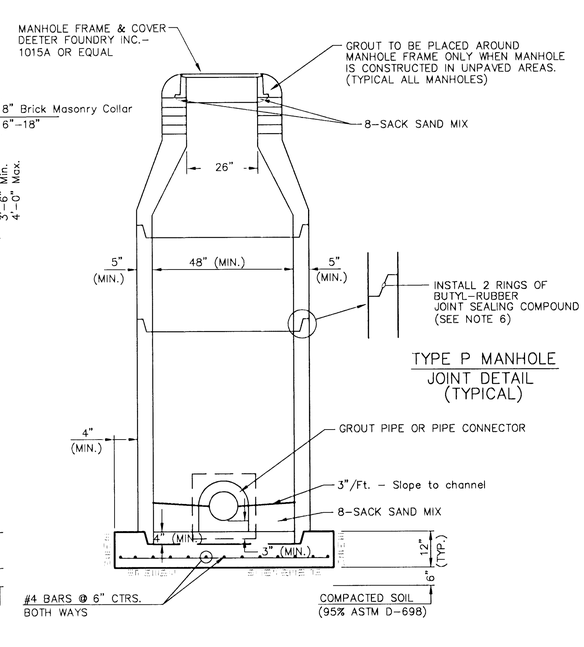
TYPE P
STANDARD MANHOLE



TYPE P
INSIDE DROP MANHOLE



TYPE P
OUTSIDE DROP MANHOLE



SECTION X
(TYPICAL)

GENERAL NOTES

PRECAST MANHOLE NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON–SHRINK GROUT SHALL BE NON–METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN A.B.S. COMPOSITE PIPE OR P.V.C. PIPE IS USED. FOR OTHER TYPES OF PIPE THE SEWER SHALL BE GROUTED IN PLACE WITH NON–SHRINK GROUT. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED WITH 2 COATS TNEMEC SERIES 66 HI–BUILD EPOXOLINE, DRY THICKNESS OF 8 MILS (MIN.)
5. EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT MOBILARMA 633 BITUMINOUS COATING.
6. JOINT SEALING COMPOUND SHALL BE KENT SEAL NO. 2 OR APPROVED EQUAL.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE.
8. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
9. LIFTING HOLES SHALL BE FILLED WITH NON–SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
10. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
11. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
12. OPENINGS SHALL BE CUT INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS CUT INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. AND A.B.S. COMPOSITE PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
13. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS EXCEPT FOR INSIDE DROP MANHOLES. FLOW CHANNELS FOR INSIDE DROP MANHOLES SHALL BE CONSTRUCTED AS INDICATED BY THE DRAWING. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
14. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MAHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
16. THE VERTICAL DROP IN INSIDE DROP MANHOLES SHALL NOT EXCEED 2' FOR INFLOWING PIPES SIZED 12" OR SMALLER AND 2' FOR INFLOWING PIPES LARGER THAN 12". THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
17. STANDARD MANHOLES AND STANDARD INSIDE DROP MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
18. A BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE–CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.

PROJECT NO.
472-26-245-82374-000-000-001

STANDARD MANHOLE DETAILS SEWER APPURTENANCES DETAILS CITY OF WICHITA, KANSAS	SHEET TITLE 70E/PMH	7 7

05-1-1-81

STREET IMPROVEMENTS FOR
OLD TOWN - PHASE 2
PART 1 - BOARDWALK

MOSLEY: From the N.L. of First Street to S.L. of Second St.

PROJECT NUMBER 472-82374
INDEX CODE 705731

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK - CITY ENGINEER

GENERAL NOTES

1. Traffic generated outside the project area and local business or residential traffic generated within the project area are to be carried through construction.

2. Underground utility service lines and overhead utility pole lines are to be adjusted by others if necessary prior to construction unless the plans specifically call for their adjustment by the Contractor or by thier owner. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agricultural permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

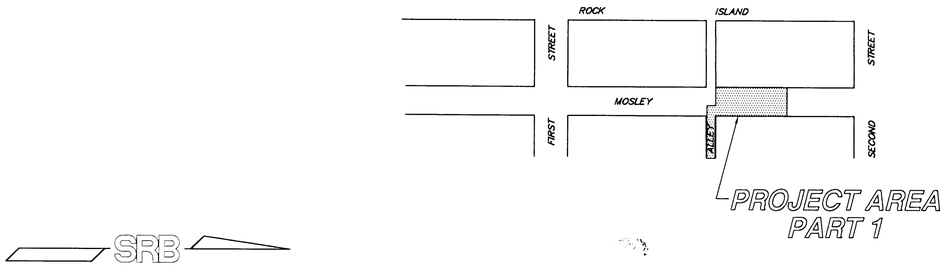
4. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are disturbed by his construction operations. Such irons shall be re-established by a licensed Land Surveyor in accordance with state laws.

6. Contractor will be required to provide a minimum notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:

   Kansas One-Call 687-2470

7. No driveways are to be constructed with this project.



SRB

Scale 1" = 150'

INDEX OF SHEETS

1. TITLE & PROJECT AREA MAP
2. PROJECT NOTES
3. BOARDWALK DECK PLANS & DETAILS
4.-5. BOARDWALK DECK DETAILS
6. HANDICAP ACCESS RAMP DETAILS

BENCH MARKS

1. "□" cut on north end of curb return at NE corner of 1st & Mosley; Elev. 109.21

2. "□" cut on west end of curb return at NW corner 2nd & Mosley; Elev. 111.16



SRB 841 SOUTH HILLSIDE WICHITA, KANSAS 67211 316-652-7754 FAX 652-7932
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING