EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT
CARSON CITY, NEVADA
NDOT PROJECT NO. 73757, FEDERAL PROJECT NO. MS-0025(023)

BOARD OF SUPERVISORS

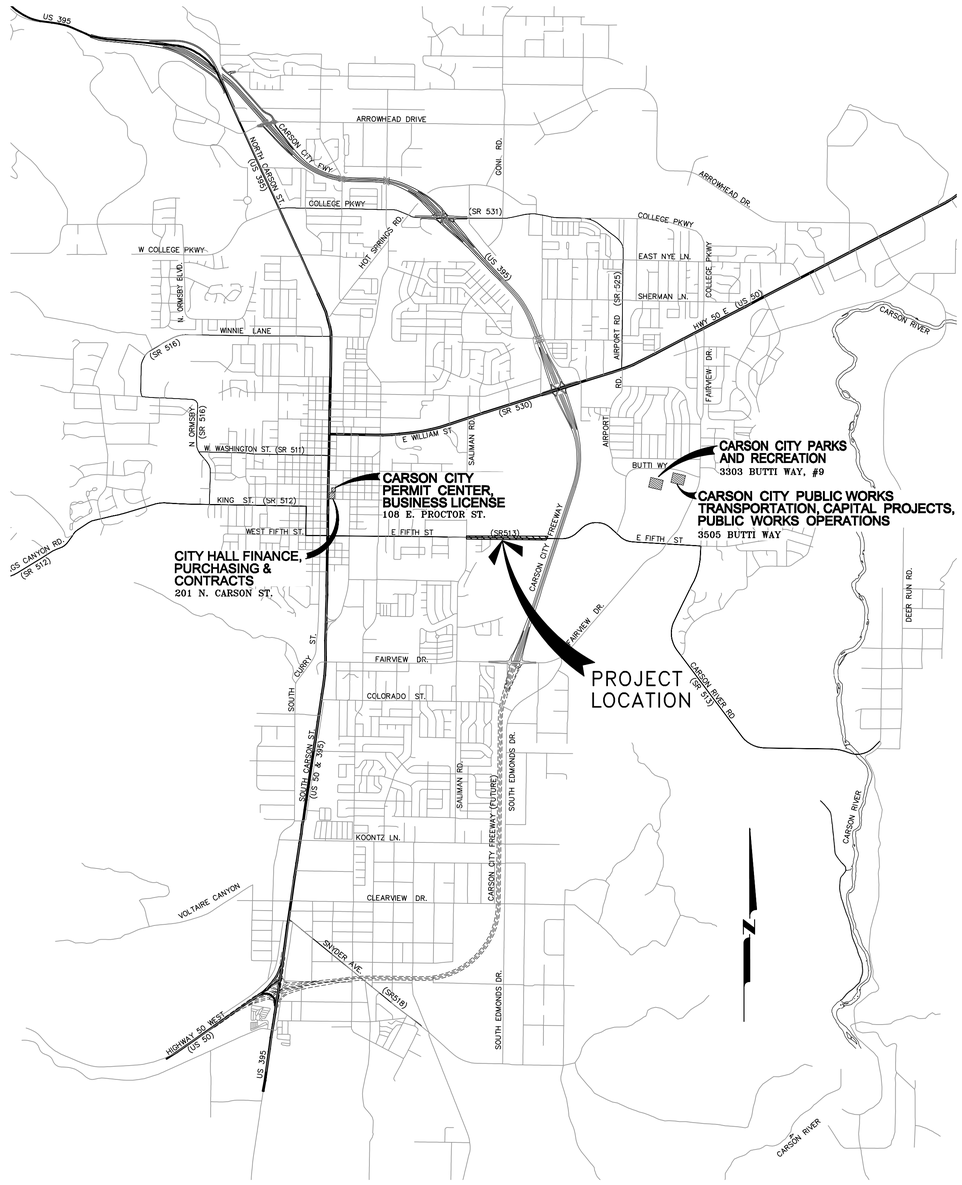
Bob Crowell	Mayor
Karen Abowd	Supervisor
Brad Bonkowski	Supervisor
John McKenna	Supervisor
Jim Shirk	Supervisor
Alan Glover	City Clerk

DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT
OPERATIONS DIVISION
3505 BUTTI WAY
CARSON CITY, NV 89701
(775) 887-2355

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.
2. ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.
3. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
4. THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.
5. FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.
6. MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
7. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
8. PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)
9. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).
10. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION, PRIOR TO BEGINNING CONSTRUCTION. POTHOLING IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
11. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
12. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.



VICINITY MAP
N.T.S.

SHEET INDEX

G1 ..... TITLE SHEET
G2 ..... LEGEND, ABBREVIATIONS & NOTES
G3 ..... HORIZONTAL CONTROL
G4 ..... STORM WATER POLLUTION PREVENTION PLAN
G5 ..... STORM WATER POLLUTION PREVENTION DETAILS
C1 to C3 ..... EAST FIFTH STREET - PLAN & PROFILE
C4 ..... STORM DRAIN AT 19+90 & 26+62 - PLAN & PROFILE
C5 ..... SIGNING AND MARKING PLAN
C6 to C8 ..... CONSTRUCTION DETAILS
C9 to C13 ..... ROADWAY CROSS SECTIONS

REVIEWED FOR CITY REQUIREMENTS:

DARREN SCHULZ, P.E. - DEPUTY PUBLIC WORKS DIRECTOR DATE

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

CITY PW PROJECT NO. 3.1203
APPLICATION NO. xx-xxxx

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 TS INDEX.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT
TITLE SHEET

SHEET G1 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3.1203 E 5TH BIKE LANES\DWG\3-1203 TS Index.dwg 7/18/13

LEGEND

EXISTING	PROPOSED	
		HORIZONTAL/VERTICAL CONTROL PT
		BENCH MARK
		RIGHT OF WAY LINE
		PROPERTY LINE
		CENTER LINE
WV		WATER VALVE
8"W		WATER LINE
		FIRE HYDRANT
SS		SANITARY SEWER LINE
S		SANITARY SEWER MANHOLE
CB		CATCH BASIN TYPE 4R
(2%)	2%	DIRECTION OF SURFACE DRAINAGE FLOW
18"SD	18"SD	STORM DRAIN LINE
		CHAINLINK FENCE
		POST AND WIRE FENCE
		AC PAVEMENT
		PCC PAVEMENT
		SAWCUT LINE
		PCC CURB, GUTTER & SIDEWALK
		GLUE DOWN CURB

EXISTING	PROPOSED	
		DRAINAGE FLOWLINE
G G		GAS LINE
G		GAS METER
GV		GAS VALVE
OHP		OVERHEAD POWER
		UTILITY POLE
		ELECTRIC VAULT
T		TELEPHONE LINE
T		TELEPHONE MANHOLE
FO FO		FIBER OPTIC LINE
		LUMINAIRE
		LIGHT POLE
	TYPE	SIGN
(3221)	322	CONTOUR LINES
		TREES
		SIDEWALK CROSS DRAIN
		ROCK-LINED DRAINAGE SWALE
		POST & WIRE FENCE
		POLYETHYLENE WRAPPED & CONCRETE ENCASED PIPE

ABBREVIATIONS

AB	AGGREGATE BASE	N	NORTH
AC	ASPHALTIC CONCRETE	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	OHP	OVERHEAD POWER LINE
APN	ASSESSORS PARCEL NUMBER	POC	POINT OF CURVATURE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	PCC	PORTLAND CEMENT CONCRETE
BM	BENCHMARK	PE	POLYETHYLENE
BVC	BEGIN VERTICAL CURVE	PI	POINT OF INTERSECTION
CATV	CABLE TV	PL	PROPERTY LINE
CB	CATCH BASIN	PRV	PRESSURE REDUCING VALVE
CL	CENTER LINE, CLASS	PT	POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYLCHLORIDE
C&G	CURB & GUTTER	PVI	POINT OF VERTICAL INTERSECTION
DI	DROP INLET	PVMT	PAVEMENT
DTL	DETAIL	R	RADIUS
DIA, ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
EX, EXIST	EXISTING	ROW	RIGHT OF WAY
E	EAST	RT	RIGHT
EA	EACH	S	SLOPE, SOUTH
EL, ELEV	ELEVATION	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EVC	END VERTICAL CURVE	SF	SQUARE FEET
FES	FLARED END SECTION	SHT	SHEET
FG	FINISH GRADE	SS	SANITARY SEWER
FL	FLOWLINE	SSMH	SANITARY SEWER MANHOLE
F	FEET	STA	STATION
G	GAS	STL	STEEL
GV	GAS VALVE/GATE VALVE	T, TELE	TELEPHONE
HDPE	HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
HORIZ	HORIZONTAL	TP	TELEPHONE
HP	HIGH POINT	TYP	TYPICAL
IE, INV	INVERT ELEVATION	U/G	UNDERGROUND
IRR, IRRG	IRRIGATION LINE	UGE	UNDERGROUND ELECTRIC
L	LENGTH	VC	VERTICAL CURVE
LF	LINEAL FEET	W	WEST, WATER
LT	LEFT	W/	WITH
MAX	MAXIMUM	W/O	WITHOUT
MH	MANHOLE	WV	WATER VALVE
MJ	MECHANICAL JOINT		
MIN	MINIMUM		

CONSTRUCTION NOTES (Master List):

1. INSTALL 5' SIDEWALK, CURB & GUTTER PER DETAIL A, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT. WIDEN PAVEMENT AS SHOWN.
2. INSTALL NEW AC PAVEMENT PER DETAIL B, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT.
3. INSTALL PCC DRIVEWAY APRON TYPE 1 PER DETAIL 3, SHEET C6.
10. INSTALL STORM DRAIN PIPE PER STD DRAWING C-1.2.1 (SIZE AND CLASS PER PLAN).
11. CONSTRUCT CATCH BASIN TYPE 4-R PER STD DTL C-4.1.5.
12. CONSTRUCT SIDEWALK CROSS DRAIN WITH ROCK-LINED DRAINAGE SWALE PER DETAIL 5, SHEET C6.
13. PROTECT-IN-PLACE
14. RAISE APPURTENANCE TO FINISHED GRADE. REFER TO STD. DRAWING C-3.1.4 FOR WATER VALVES.
15. CENTER NEW STORM DRAIN PIPE OVER EXISTING WATER MAIN. POLYETHYLENE WRAP AND CONCRETE ENCASE NEW STORM DRAIN JOINTS WITHIN 10' EACH SIDE OF THE CROSSING.
16. INSTALL 5' X 5' ROCK SPLASH PAD SIMILAR TO DETAIL 1, SHEET C6.
17. COORDINATE CONSTRUCTION OF STORM DRAIN CROSSING WITH SOUTHWEST GAS PRIOR TO ANY EXCAVATION. CONTACT LARRY GIBSON AT 775-887-2863 TO SCHEDULE POTHOLING OF GAS MAIN BY SOUTHWEST GAS.
18. PRIOR TO SAWCUTTING OF ASPHALT NEXT TO THE EXISTING TRAFFIC COUNT PULL BOX, CONTACT REESE RIGSBY AT NEVADA DEPARTMENT OF TRANSPORTATION, 775-721-5572. NDOT WILL SPLICE THE WIRES AND PROVIDE ADDITIONAL WIRING TO FINAL LOCATION OF BOX. MOVE TRAFFIC COUNT BOX PER NDOT DETAILS T-30.1.4.1 AND T-30.1.4.3. SHOWN ON SHEET C8 TO LOCATION SHOWN ON PLANS. FAILURE TO NOTIFY NDOT PRIOR TO ANY SAWCUTTING ACTIVITIES WILL RESULT IN FULL REPLACEMENT OF INDUCTION LOOP ACROSS EAST FIFTH STREET AND WILL BE AT THE CONTRACTOR'S EXPENSE.
19. AFTER HEADWALL REMOVAL, CUT AND SMOOTH EXPOSED END OF EXISTING CMP TO ALLOW INSTALLATION OF 5' MIN LENGTH OF NEW CMP TO CATCHBASIN. JOIN PIPES USING AN APPROVED COUPLING BAND. BACKFILL TRENCH WITH NON-EXCAVATABLE SLURRY.
20. PAINT 24" SOLID WHITE STOP BAR
21. PAINT 8" SOLID WHITE LANE STRIPE
22. PAINT 4" WHITE SKIP STRIPE (7' LINE WITH 21' SPACE)
23. PAINT 4" SOLID WHITE LANE LINE STRIPE
24. PAINT 4" SOLID DOUBLE YELLOW CENTERLINE STRIPE
25. PAINT SOLID WHITE DIRECTIONAL ARROW LEGEND AS SHOWN
26. INSTALL SIGN & POST PER STD DRAWING C-5.4.2.
27. INSTALL CROSSWALK STRIPING PER STD DRAWING C-5.4.3.
28. OBLITERATE ALL EXISTING STRIPING PRIOR TO MICROPAVING, FULL WIDTH OF ROADWAY (INCLUDING WIDENING), FROM STATION 10+35 TO STATION 31+25.
29. REMOVE EXISTING SIGN & POST
30. PAINT SOLID WHITE PAVEMENT LEGEND AS SHOWN.
31. PAINT SOLID WHITE BICYCLE WITH ARROW LEGEND AS SHOWN.

1. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
2. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINED AIR. 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF TYPE II CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
4. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SURFACE OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE AND A MINIMUM SURFACE OF 4 FEET CLEAR IS REQUIRED WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE, UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
6. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
7. NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			SIDEWALK AND DRIVEWAY GENERAL NOTES	DRAWING NO. C-5.2.1
APPROVED BY:		7/09		DATE 7/2009

1. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE SSPWC.
2. MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL STORM DRAIN PIPE. TAPE WIDTH SHALL BE 3 INCHES; THICKNESS SHALL BE FOUR (4) MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED STORM DRAIN LINE BELOW" OR EQUIVALENT WORDING.
3. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, (CURB AND GUTTER TRANSITION ONLY, ALL UNEXPOSED CONCRETE MAY BE 3000 PSI) MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
4. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5 INCHES MINIMUM CLEAR COVER.
5. EACH CATCH BASIN SHALL HAVE A 4 INCH ALUMINUM BLUE DISK WITH FISH IMAGE AND THE WORDS "NO DUMPING! DRAINS TO RIVER" (ALMETEK SD-4 OR APPROVED EQUAL) INSTALLED ON THE TOP OF THE CURB BOX.
6. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT, WITH MINIMAL GAPS, AS APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
7. STORM DRAINAGE IMPROVEMENTS SHALL INCORPORATE WATER QUALITY AND EROSION CONTROLS IN ACCORDANCE WITH THE NEVADA "HANDBOOK OF BEST MANAGEMENT PRACTICES".
8. PRECAST MANHOLES SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS RAM-NEK OR APPROVED EQUAL PER MANUFACTURERS RECOMMENDATIONS.
9. TRACER WIRE SHALL BE ATTACHED TO ANY STORM DRAIN LATERAL WHICH IS NOT PERPENDICULAR TO THE STORM DRAIN MAIN.
10. MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6 INCHES TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02) AND STORM DRAIN MANHOLE MARKERS BE INSTALLED. STORM DRAIN MANHOLE MARKERS SHALL BE GREEN CARSONITE UTILITY MARKER (CUM 375), 5 FEET-2 INCHES (5'-2") WITH DECAL READING "STORM DRAIN MANHOLE". PLACE MARKERS ON EASEMENT LINE NEAREST TO MANHOLE OR AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
11. MANHOLE CONCRETE COLLARS SHALL BE LEFT 2 1/2 INCHES TO 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
12. GRATES SHALL BE PLACED OUTSIDE OF THE PEDESTRIAN TRAVELED WAY. GRATE OPENINGS SHALL NOT EXCEED 0.5 INCHES IN WIDTH OR 4 INCHES IN LENGTH. GRATES SHALL BE TRAFFIC RATED AND ADA COMPLIANT.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			STORM DRAIN GENERAL NOTES	DRAWING NO. C-4.1.1
APPROVED BY:		7/09		DATE 7/2009

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: J-1203 TS INDEX.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

LEGEND, ABBREVIATIONS & NOTES

SHEET G2 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\1203 E 5th BIKE LANES\DWG\J-1203 TS index.dwg 7/18/13

HORIZONTAL & VERTICAL CONTROL POINT DATA				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
517	14735235.33	2294016.36	4643.03	CC019
518	14734393.73	2294064.95	4643.51	PC
516	14734413.20	2296248.95	4634.08	CC087

BASIS OF BEARING

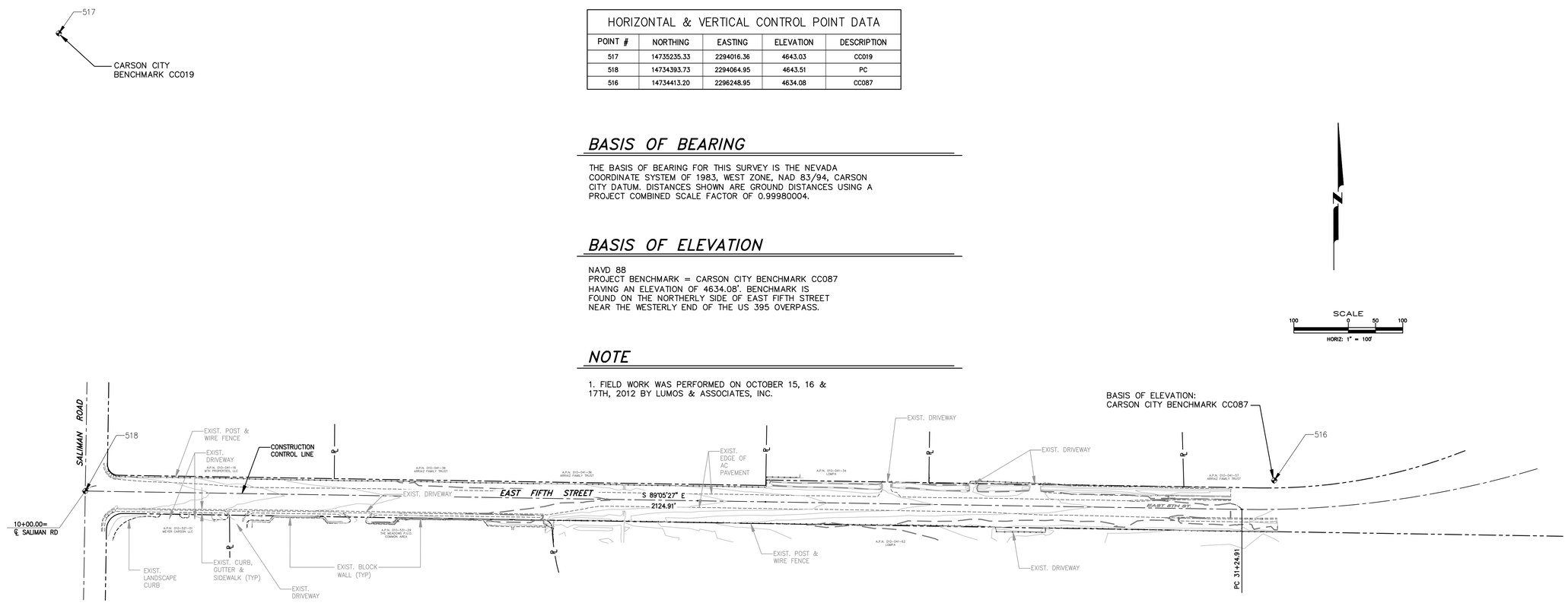
THE BASIS OF BEARING FOR THIS SURVEY IS THE NEVADA COORDINATE SYSTEM OF 1983, WEST ZONE, NAD 83/94, CARSON CITY DATUM. DISTANCES SHOWN ARE GROUND DISTANCES USING A PROJECT COMBINED SCALE FACTOR OF 0.99980004.

BASIS OF ELEVATION

NAVD 88
PROJECT BENCHMARK = CARSON CITY BENCHMARK CC087
HAVING AN ELEVATION OF 4634.08'. BENCHMARK IS FOUND ON THE NORTHERLY SIDE OF EAST FIFTH STREET NEAR THE WESTERLY END OF THE US 395 OVERPASS.

NOTE

1. FIELD WORK WAS PERFORMED ON OCTOBER 15, 16 & 17TH, 2012 BY LUMOS & ASSOCIATES, INC.



HORIZONTAL CONTROL

SCALE: 1" = 100'

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 TS INDEX.DWG
SCALE (HORIZ): 1" = 100'
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No. 017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

HORIZONTAL CONTROL

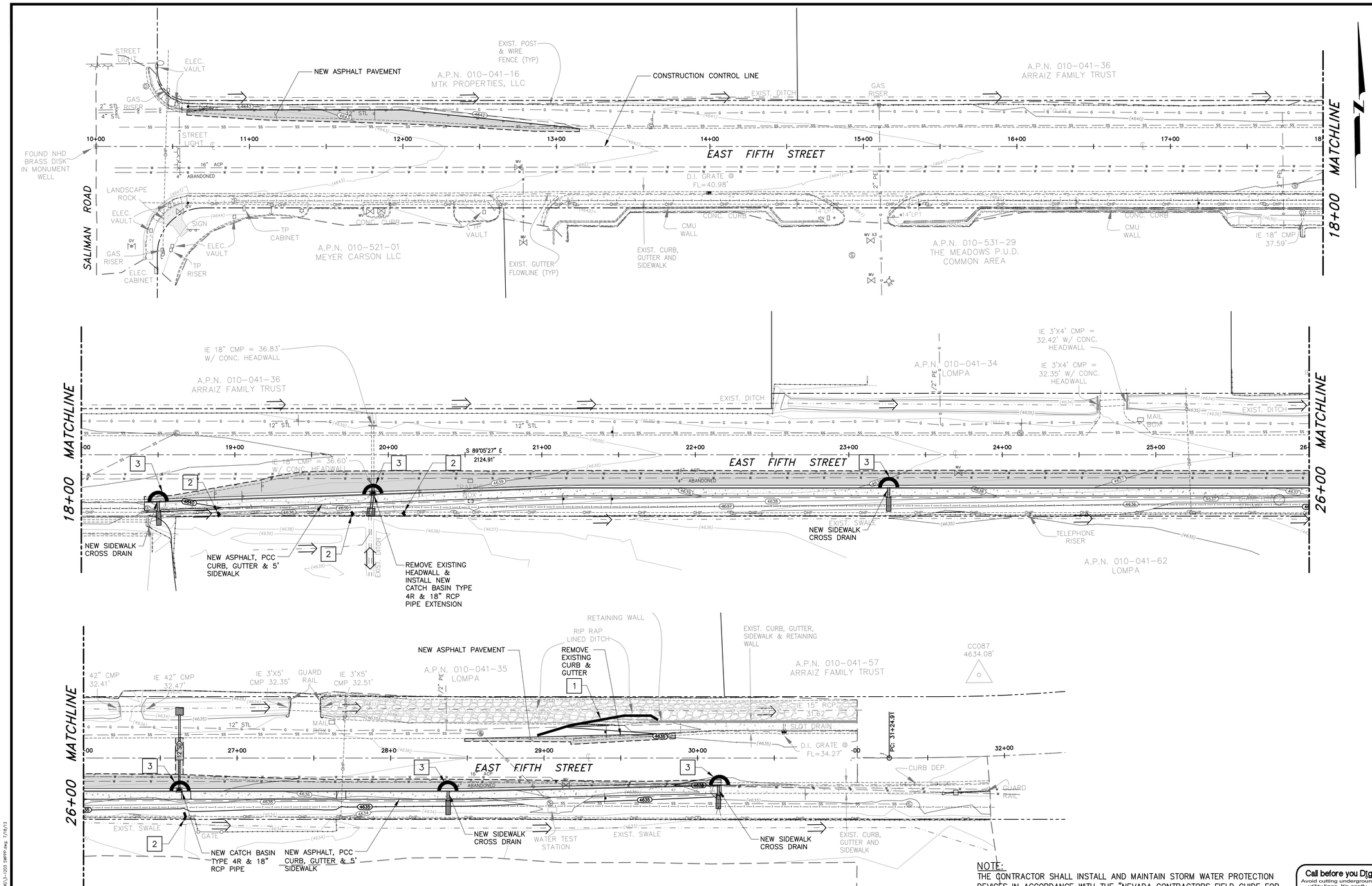
SHEET G3 OF 18

PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FEDERAL PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3.1203 E 5TH BIKE LANES\DWG\3-1203 TS Index.dwg 7/18/13



STORMWATER POLLUTION PREVENTION NOTES:

1. INSTALL SILT FENCE PER DETAIL 1, SHEET G5.
2. INSTALL FIBER ROLL CHECK DAM ACROSS DRAINAGE DITCH PER DETAL 2, SHEET G5.
3. INSTALL STORM DRAIN INLET PROTECTION PER STD DWG C-4.1.7.

STORMWATER POLLUTION PREVENTION PLAN

SCALE: 1" = 80'

NOTE: SEE "STORMWATER PROTECTION NOTES", SHEET G5 FOR ADDITIONAL BMP REQUIREMENTS

NOTE:
THE CONTRACTOR SHALL INSTALL AND MAINTAIN STORM WATER PROTECTION DEVICES IN ACCORDANCE WITH THE "NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES" TO PROTECT THE NEAREST WATERWAY DOWNSTREAM OF ALL CONSTRUCTION ACTIVITIES.

24 HOUR EMERGENCY CONTACT:

NAME: _____ NUMBER: _____

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 SWPPP.DWG
SCALE (HORIZ): 1" = 80'
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
EXP: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

STORMWATER POLLUTION PREVENTION PLAN

SHEET G4 OF 18

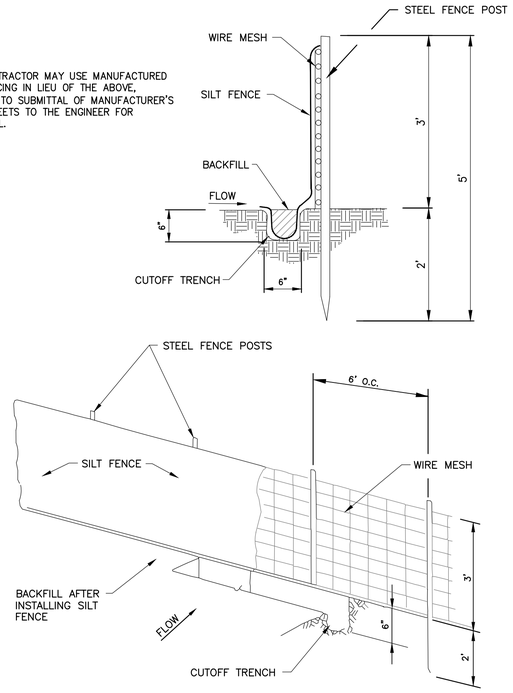
PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FEDERAL PROJECT NUMBER:

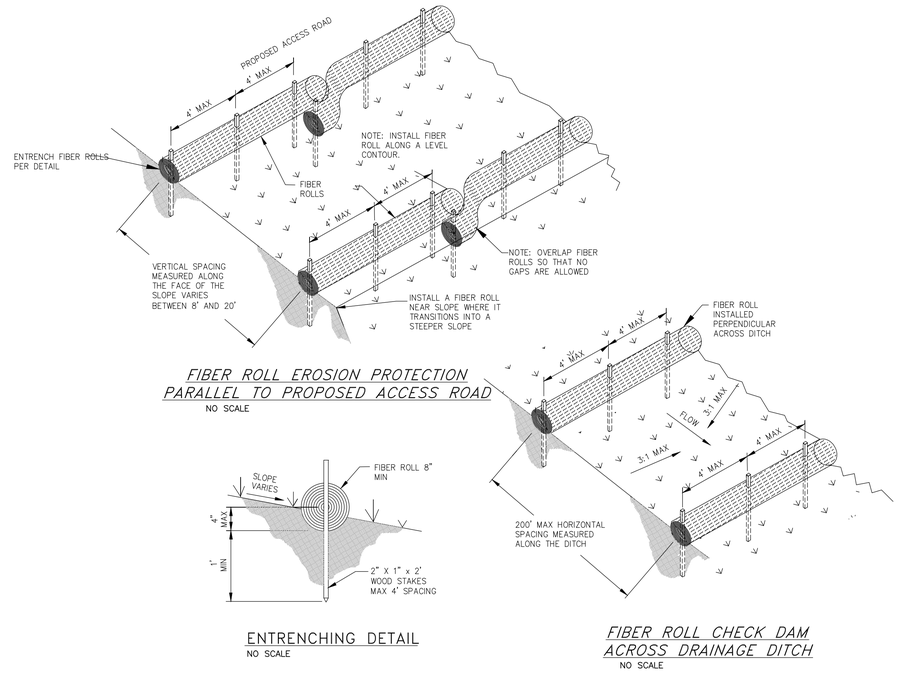
FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 SWPPP.dwg 7/18/13

NOTE:
THE CONTRACTOR MAY USE MANUFACTURED SILT FENCING IN LIEU OF THE ABOVE, SUBJECT TO SUBMITTAL OF MANUFACTURER'S DATA SHEETS TO THE ENGINEER FOR APPROVAL.



TYPICAL SILT FENCE INSTALLATION (1 / G5)
NO SCALE

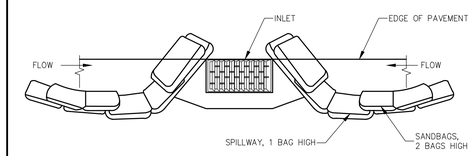


FIBER ROLL EROSION PROTECTION PARALLEL TO PROPOSED ACCESS ROAD
NO SCALE

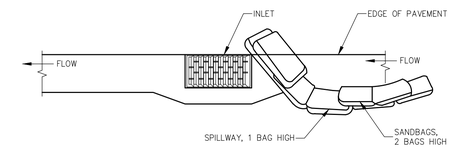
ENTRENCHING DETAIL
NO SCALE

FIBER ROLL CHECK DAM ACROSS DRAINAGE DITCH
NO SCALE

TYPICAL FIBER ROLL INSTALLATION (2 / G5)
NO SCALE



TYPICAL PROTECTION FOR INLET ON SUMP
NTS



TYPICAL PROTECTION FOR INLET ON GRADE
NTS

NOTES:

1. INTENDED FOR TEMPORARY SHORT-TERM USE.
2. USE TO MANAGE CURB WATER FLOW.
3. SEDIMENT CAPTURED BEHIND SANDBAGS SHALL BE REMOVED WEEKLY DURING CONSTRUCTION.
4. INLET PROTECTION MUST BE PROPERLY MAINTAINED WHILE IN PLACE AND REMOVED WHEN REQUIREMENTS OF NDEP PERMIT HAVE BEEN MET.
5. SANDBAGS SHALL BE FILLED WITH 3/4 INCH WASHED ROCK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	ADDED NOTE #5	1/11	**STORM DRAIN INLET PROTECTION**	CARSON CITY
				DRAWING NO. C-4.1.7
APPROVED BY:		7/09		DATE 7/2009

STORMWATER PROTECTION NOTES:

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM WATER PROTECTION DEVICES IN ACCORDANCE WITH THE "NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES" AND DETAILS AS SHOWN.
2. ALL INSTALLED PROTECTION DEVICES SHALL BE INSPECTED AND APPROVED BY THE CARSON CITY CONSTRUCTION INSPECTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. BMP'S IN ADDITION TO THOSE INDICATED ON PLAN SHEETS G6 THROUGH G12, AND THE CONTRACTOR'S SWPPP MAY BE REQUIRED IF THEY DON'T MEET LOCAL PERFORMANCE STANDARDS.
4. ALL BMPs MUST BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, AND WITHIN 24 HOURS AFTER ANY EVENT THAT CREATES RUNOFF AT THE SITE.
5. ACCUMULATED SEDIMENT MUST BE REMOVED FROM BMPs WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE. SEDIMENT MUST ALSO BE REMOVED WITHIN SEVEN DAYS AFTER A RUNOFF EVENT OR PRIOR TO THE NEXT FORECASTED RAIN EVENT WHICHEVER IS EARLIER.
6. IF THE ENTRANCE STABILIZATION IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.
7. ANY ROCK THAT IS LOOSENED FROM THE ENTRANCE STABILIZATION PAD, WHICH END UP ON THE PAVED ROADWAY SHALL BE REMOVED IMMEDIATELY.
8. CONTRACTOR SHALL INSPECT LOCAL ROADS ADJACENT TO THE SITE DAILY, SWEEP OR VACUUM TO REMOVE ANY VISIBLE ACCUMULATED SEDIMENT.
9. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED BY SHOVELING, STREET SWEEPING OR VACUUMING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED
10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DUST CONTROL WITHIN THE CONSTRUCTION LIMITS AT ALL TIMES.
11. STORM DRAIN INLET PROTECTION SHALL BE PLACED ACCORDINGLY ON THE NEAREST INLETS DOWNSTREAM OF ALL CONSTRUCTION ACTIVITIES.
12. HIGH VISIBILITY ORANGE SILT FENCE SHALL BE INSTALLED PER THE DETAILS SHOWN HEREON, AND MAINTAINED THROUGH OUT THE PROJECT.
13. THE CONTRACTOR OR HIS QUALIFIED AGENT IS REQUIRED TO ROUTINELY INSPECT ALL AREAS OF DISTURBED AND BARE SOIL, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, ONSITE VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL ONSITE EROSION AND SEDIMENT CONTROL BMPS.

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 SWPPP.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
EXP: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

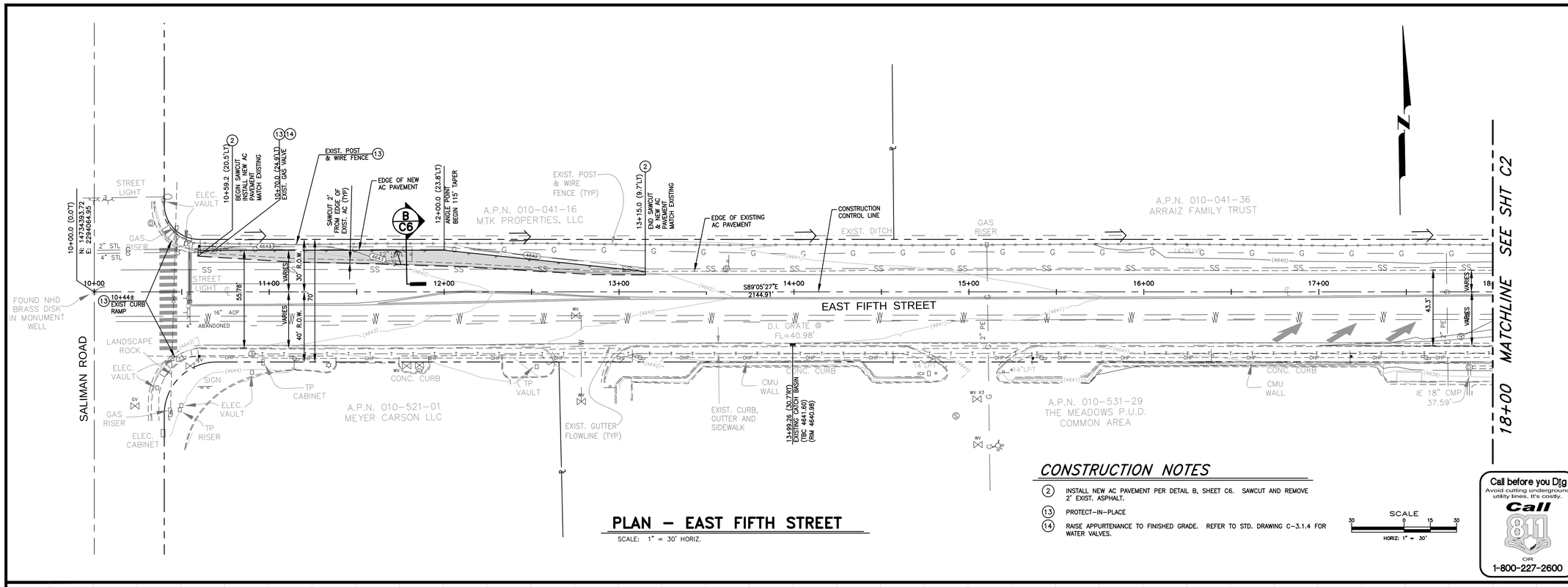
STORMWATER POLLUTION PREVENTION DETAILS

SHEET G5 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 SWPPP.dwg 7/18/13



PLAN – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.

CONSTRUCTION NOTES

2. INSTALL NEW AC PAVEMENT PER DETAIL B, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT.
13. PROTECT-IN-PLACE
14. RAISE APPURTENANCE TO FINISHED GRADE. REFER TO STD. DRAWING C-3.1.4 FOR WATER VALVES.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

PROFILE – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.
1" = 3' VERT.

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 P AND P.DWG
SCALE (HORIZ): 1" = 30'
SCALE (VERT): 1" = 3'
PLOT DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

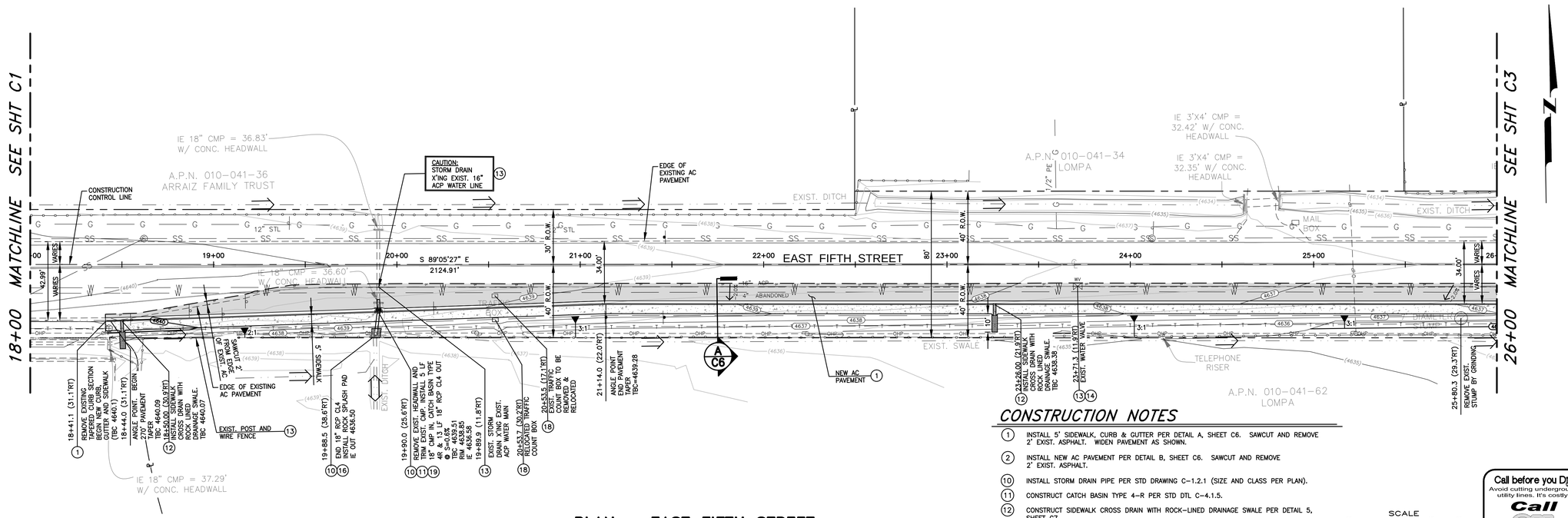
EAST FIFTH STREET
PLAN & PROFILE
STA 10+00 TO 18+00

SHEET C1 OF 18

FOR BIDDING PURPOSES ONLY - 100% PLANS

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 P and P.dwg 7/18/13



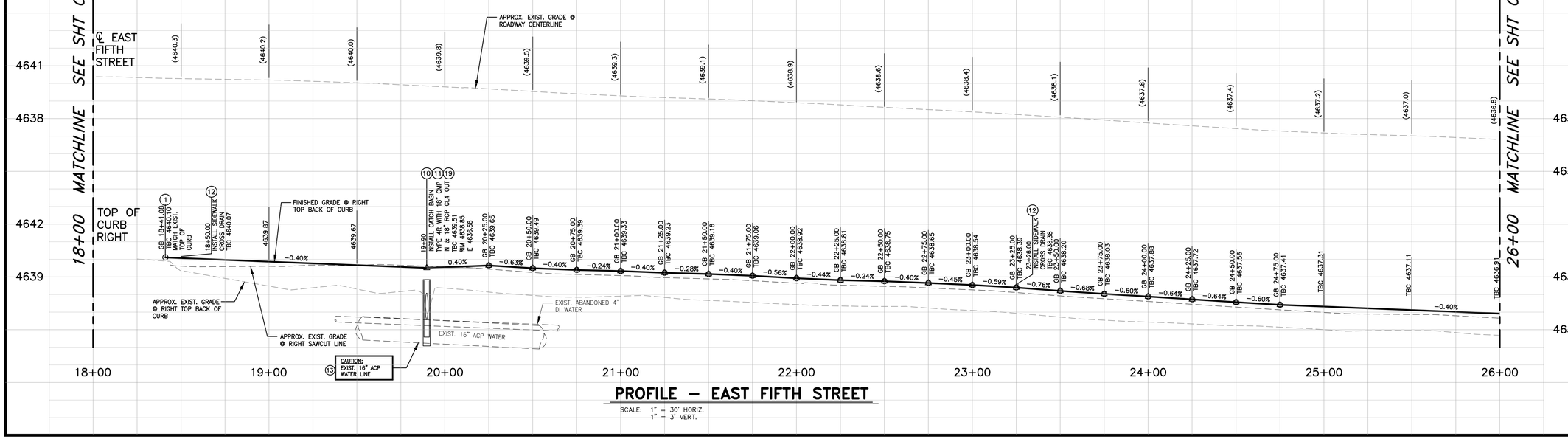
PLAN – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.

CONSTRUCTION NOTES

1. INSTALL 5' SIDEWALK, CURB & GUTTER PER DETAIL A, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT. WIDEN PAVEMENT AS SHOWN.
2. INSTALL NEW AC PAVEMENT PER DETAIL B, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT.
10. INSTALL STORM DRAIN PIPE PER STD DRAWING C-1.2.1 (SIZE AND CLASS PER PLAN).
11. CONSTRUCT CATCH BASIN TYPE 4-R PER STD DTL C-4.1.5.
12. CONSTRUCT SIDEWALK CROSS DRAIN WITH ROCK-LINED DRAINAGE SWALE PER DETAIL 5, SHEET C7.
13. PROTECT-IN-PLACE
14. RAISE APPURTENANCE TO FINISHED GRADE. REFER TO STD. DRAWING C-3.1.4 FOR WATER VALVES.
16. INSTALL 5' X 5' ROCK SPLASH PAD SIMILAR TO DETAIL 1, SHEET C6.
18. PRIOR TO SAWCUTTING OF ASPHALT NEXT TO THE EXISTING TRAFFIC COUNT PULL BOX, CONTACT REESE RIGSBY AT NEVADA DEPARTMENT OF TRANSPORTATION, 775-721-5572. NDOT WILL SPLICE THE WIRES AND PROVIDE ADDITIONAL WIRING TO FINAL LOCATION OF BOX. MOVE TRAFFIC COUNT BOX PER NDOT DETAILS T-30.1.4.1 AND T-30.1.4.3. SHOWN ON SHEET C8 TO LOCATION SHOWN ON PLANS. FAILURE TO NOTIFY NDOT PRIOR TO ANY SAWCUTTING ACTIVITIES WILL RESULT IN FULL REPLACEMENT OF INDUCTION LOOP ACROSS EAST FIFTH STREET AND WILL BE AT THE CONTRACTOR'S EXPENSE.
19. AFTER HEADWALL REMOVAL, CUT AND SMOOTH EXPOSED END OF EXISTING CMP TO ALLOW INSTALLATION OF 5' MIN LENGTH OF NEW CMP TO CATCHBASIN. JOIN PIPES USING AN APPROVED COUPLING BAND. BACKFILL TRENCH WITH NON-EXCAVATABLE SLURRY.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600



PROFILE – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.
1" = 3' VERT.

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

DESIGNED BY:	DLO/JS
DRAWN BY:	DLO
CHECKED BY:	DGR/JS
DWG NO.:	3-1203 P AND P.DWG
SCALE (HORIZ):	1" = 30'
SCALE (VERT):	1" = 3'
PLOT DATE:	7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

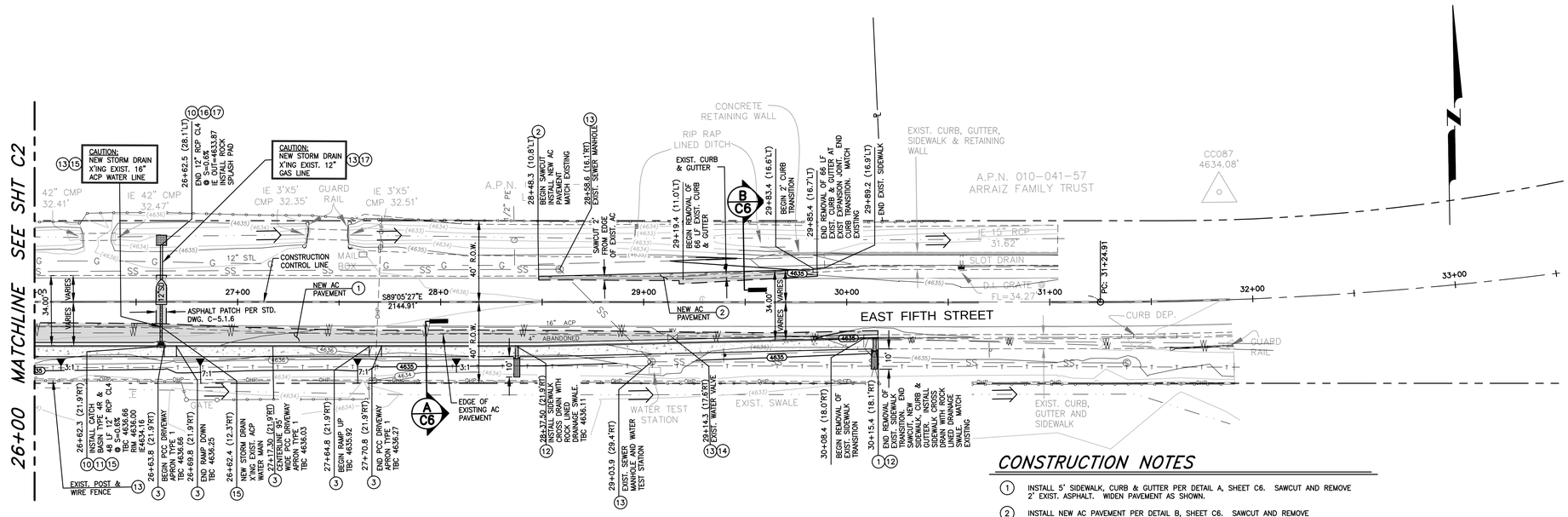
EAST FIFTH STREET
PLAN & PROFILE
STA 18+00 TO 26+00

SHEET C2 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 P and P.dwg 7/18/13



PLAN – EAST FIFTH STREET

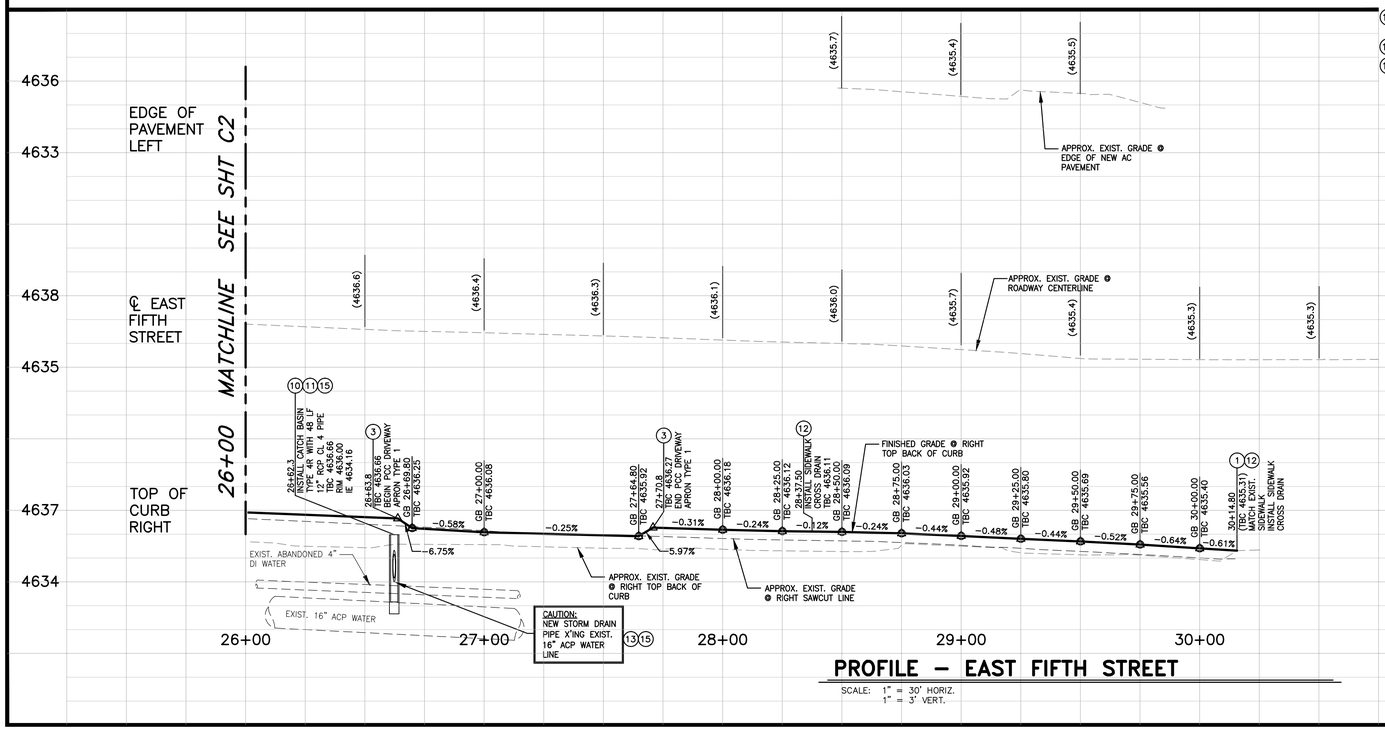
SCALE: 1" = 30' HORIZ.

CONSTRUCTION NOTES

1. INSTALL 5' SIDEWALK, CURB & GUTTER PER DETAIL A, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT. WIDEN PAVEMENT AS SHOWN.
2. INSTALL NEW AC PAVEMENT PER DETAIL B, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT.
3. INSTALL PCC DRIVEWAY APRON TYPE 1 PER DETAIL 3, SHEET C6.
10. INSTALL STORM DRAIN PIPE PER STD DRAWING C-1.2.1 (SIZE AND CLASS PER PLAN).
11. CONSTRUCT CATCH BASIN TYPE 4-R PER STD DTL C-4.1.5.
12. CONSTRUCT SIDEWALK CROSS DRAIN WITH ROCK-LINED DRAINAGE SWALE PER DETAIL 5, SHEET C7.
13. PROTECT-IN-PLACE
14. RAISE APPURTENANCE TO FINISHED GRADE. REFER TO STD. DRAWING C-3.1.4 FOR WATER VALVES.
15. CONTER NEW STORM DRAIN PIPE OVER EXISTING WATER MAIN. POLYETHYLENE WRAP AND CONCRETE ENCASE NEW STORM DRAIN JOINTS WITHIN 10' EACH SIDE OF THE CROSSING.
16. INSTALL 5' X 5' ROCK SPLASH PAD SIMILAR TO DETAIL 1, SHEET C6.
17. COORDINATE CONSTRUCTION OF STORM DRAIN CROSSING WITH SOUTHWEST GAS PRIOR TO ANY EXCAVATION. CONTACT LARRY GIBSON AT 775-887-2863 TO SCHEDULE POTHOLING OF GAS MAIN BY SOUTHWEST GAS.

SCALE HORIZ: 1" = 30'

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600



PROFILE – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.
1" = 3' VERT.

DESIGNED BY:	DLO/JS
DRAWN BY:	DLO
CHECKED BY:	DGR/JS
DWG NO.:	3-1203 P AND P.DWG
SCALE (HORIZ):	1" = 30'
SCALE (VERT):	1" = 3'
PLOT DATE:	7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

EAST FIFTH STREET
PLAN & PROFILE
STA 26+00 TO 32+00

SHEET C3 OF 18

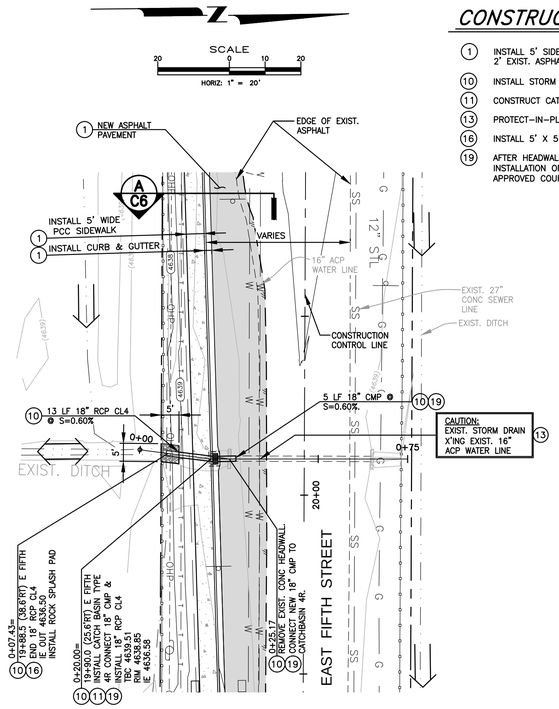
FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 P and P.dwg; 7/18/13

CONSTRUCTION NOTES

1. INSTALL 5' SIDEWALK, CURB & GUTTER PER DETAIL A, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT. WIDEN PAVEMENT AS SHOWN.
10. INSTALL STORM DRAIN PIPE PER STD DRAWING C-1.2.1 (SIZE AND CLASS PER PLAN).
11. CONSTRUCT CATCH BASIN TYPE 4-R PER STD DTL C-4.1.5.
13. PROTECT-IN-PLACE
16. INSTALL 5' X 5' ROCK SPLASH PAD SIMILAR TO DETAIL 1, SHEET C6.
19. AFTER HEADWALL REMOVAL, CUT AND SMOOTH EXPOSED END OF EXISTING CMP TO ALLOW INSTALLATION OF 5' MIN LENGTH OF NEW CMP TO CATCHBASIN. JOIN PIPES USING AN APPROVED COUPLING BAND. BACKFILL TRENCH WITH NON-EXCAVATABLE SLURRY.



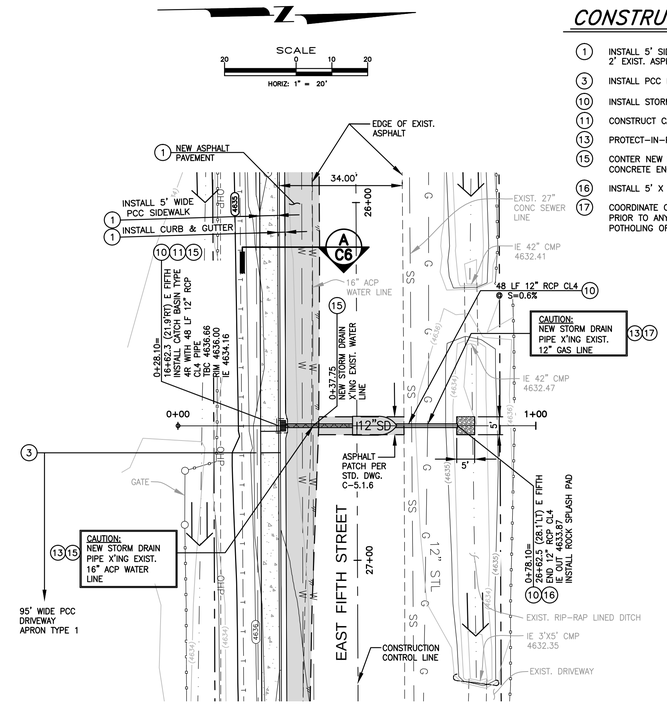
PLAN – STORM DRAIN AT 19+90

SCALE: 1" = 20' HORIZ.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600

CONSTRUCTION NOTES

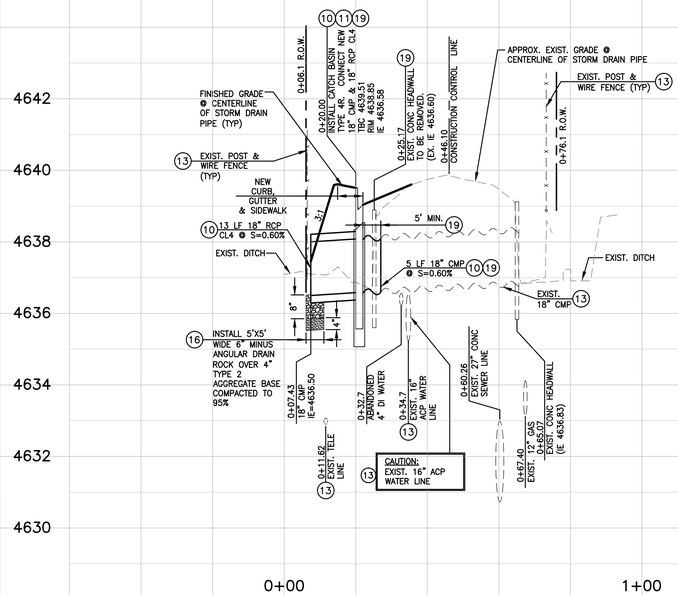
1. INSTALL 5' SIDEWALK, CURB & GUTTER PER DETAIL A, SHEET C6. SAWCUT AND REMOVE 2' EXIST. ASPHALT. WIDEN PAVEMENT AS SHOWN.
3. INSTALL PCC DRIVEWAY APRON TYPE 1 PER DETAIL 3, SHEET C6.
10. INSTALL STORM DRAIN PIPE PER STD DRAWING C-1.2.1 (SIZE AND CLASS PER PLAN).
11. CONSTRUCT CATCH BASIN TYPE 4-R PER STD DTL C-4.1.5.
13. PROTECT-IN-PLACE
15. CONTER NEW STORM DRAIN PIPE OVER EXISTING WATER MAIN. POLYETHYLENE WRAP AND CONCRETE ENCASE NEW STORM DRAIN JOINTS WITHIN 10' EACH SIDE OF THE CROSSING.
16. INSTALL 5' X 5' ROCK SPLASH PAD SIMILAR TO DETAIL 1, SHEET C6.
17. COORDINATE CONSTRUCTION OF STORM DRAIN CROSSING WITH SOUTHWEST GAS PRIOR TO ANY EXCAVATION. CONTACT LARRY GIBSON AT 775-887-2863 TO SCHEDULE POTHOLING OF GAS MAIN BY SOUTHWEST GAS.



PLAN – STORM DRAIN AT 26+62

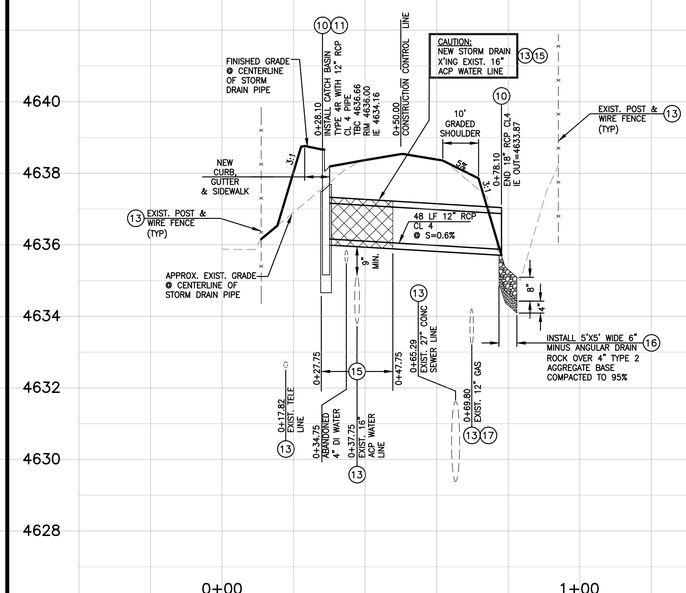
SCALE: 1" = 20' HORIZ.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600



PROFILE – STORM DRAIN AT 19+90

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.



PROFILE – STORM DRAIN AT 26+62

SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

DESIGNED BY:	DLO/JS
DRAWN BY:	DLO
CHECKED BY:	DGR/JS
DWG NO.:	3-1203 P AND P.DWG
SCALE (HORIZ):	1" = 10'
SCALE (VERT):	1" = 1'
PLOT DATE:	7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

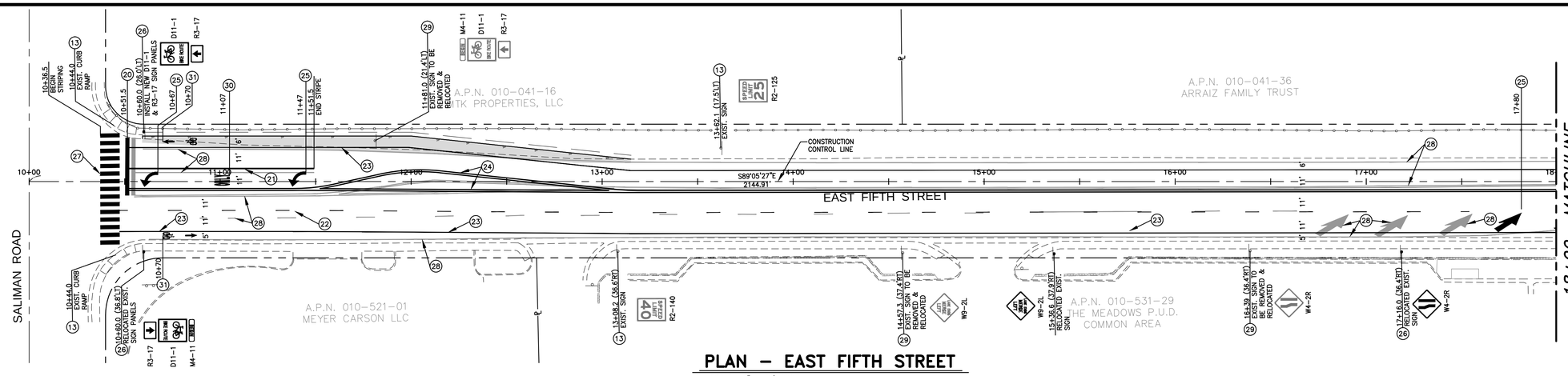
EAST FIFTH STREET
STORM DRAIN
PLANS & PROFILES

SHEET C4 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

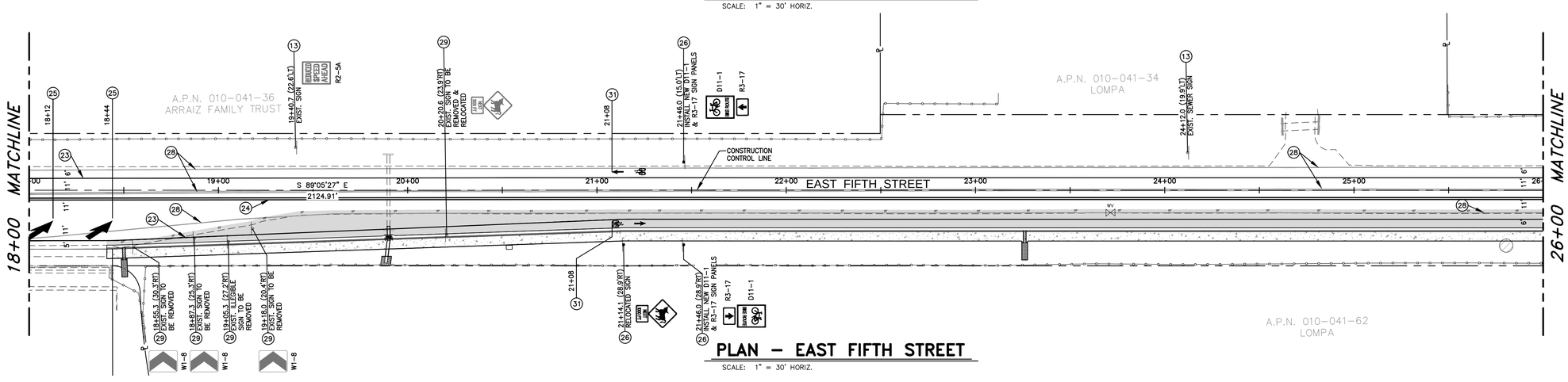
FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 P and P.dwg 7/18/13



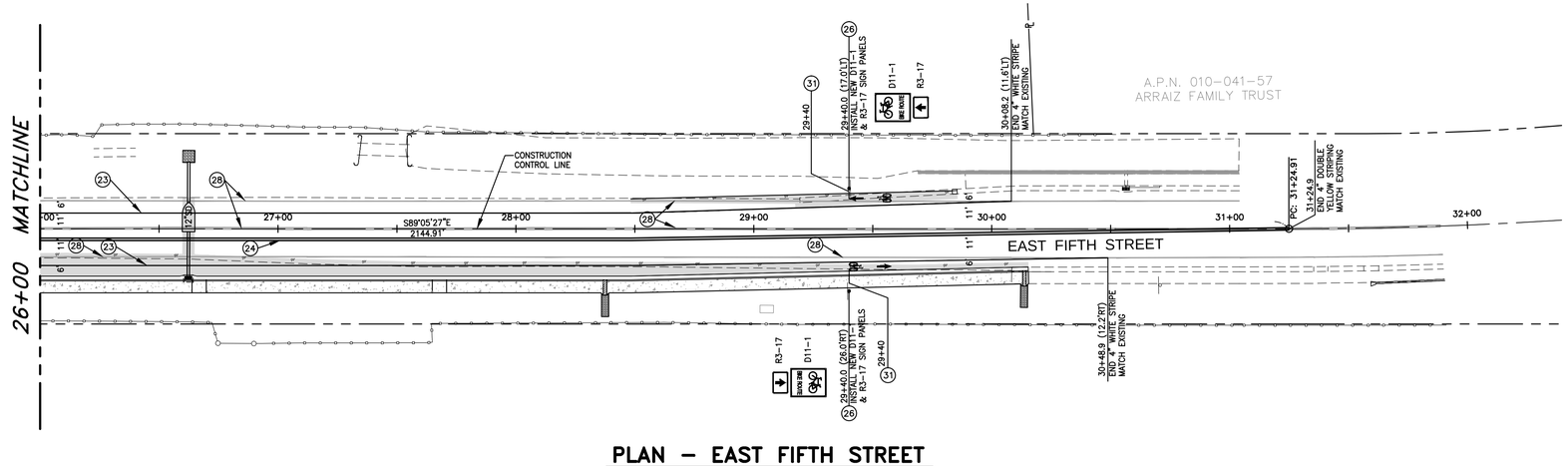
PLAN – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.



PLAN – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.



PLAN – EAST FIFTH STREET

SCALE: 1" = 30' HORIZ.

CONSTRUCTION NOTES

13. PROTECT-IN-PLACE
20. PAINT 24" SOLID WHITE STOP BAR
21. PAINT 8" SOLID WHITE LANE STRIPE
22. PAINT 4" WHITE SKIP STRIPE (7' STRIPE, 21' SPACE)
23. PAINT 4" SOLID WHITE LANE LINE STRIPE
24. PAINT 4" SOLID DOUBLE YELLOW CENTERLINE STRIPE
25. PAINT SOLID WHITE DIRECTIONAL ARROW LEGEND AS SHOWN
26. INSTALL SIGN & POST PER STD DRAWING C-5.4.2.
27. INSTALL CROSSWALK STRIPING PER STD DRAWING C-5.4.3.
28. OBLITERATE ALL EXISTING STRIPING PRIOR TO MICROPAVING, FULL WIDTH OF ROADWAY (INCLUDING WIDENING), FROM STATION 10+35 TO STATION 31+25.
29. REMOVE EXISTING SIGN & POST
30. PAINT SOLID WHITE PAVEMENT LEGEND AS SHOWN.
31. PAINT SOLID WHITE BICYCLE WITH ARROW LEGEND AS SHOWN.

SCALE
30 0 15 30
HORIZ: 1" = 30'

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 P AND P.DWG
SCALE (HORIZ): 1" = 30'
SCALE (VERT): N/A
PLOT DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

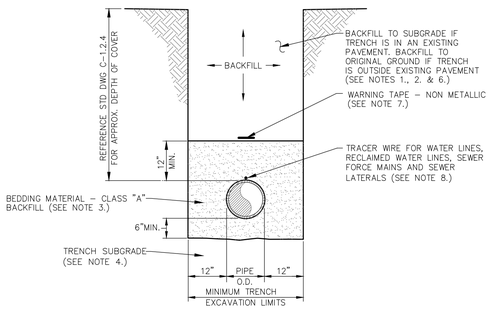
EAST FIFTH STREET
SIGNING & MARKING PLAN

SHEET C5 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 P and P.dwg: 7/18/13

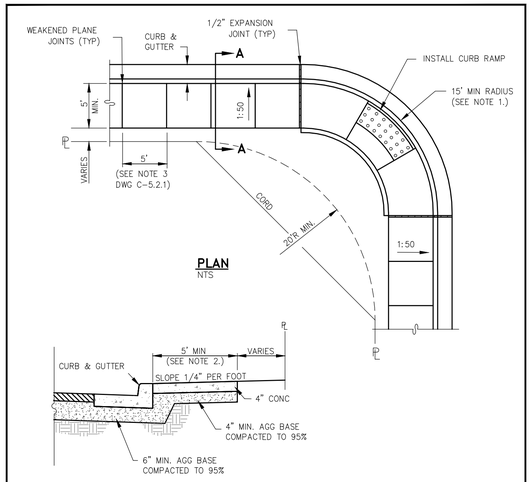


TYPICAL TRENCH SECTION
NTS

NOTES:

1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
3. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
4. PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURAL GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHEN POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.6).
6. FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
7. PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
8. TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HDPE. PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS, SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TRENCH EXCAVATION AND BACKFILL	DRAWING NO. C-1.2.1 (305)
APPROVED BY:		7/09		DATE 7/2009



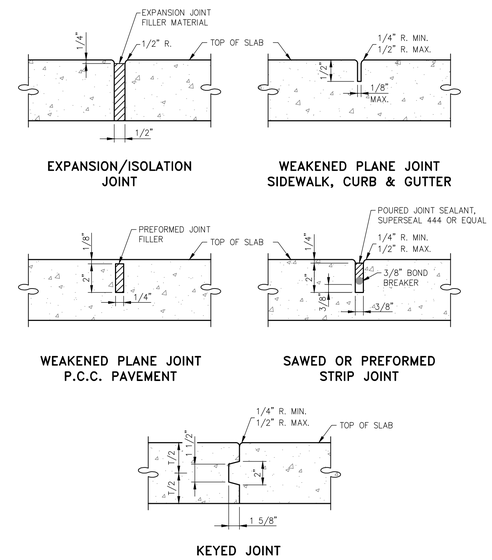
PLAN
NTS

SECTION A–A
NTS

NOTES:

1. MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
2. SOME STREETS MAY REQUIRE WIDER SIDEWALKS.

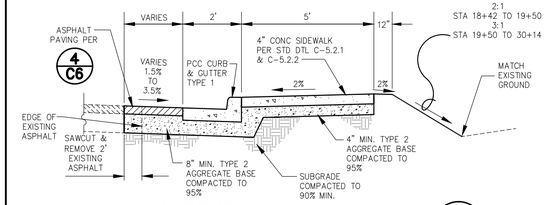
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TYPE "A" SIDEWALK	DRAWING NO. C-5.2.2
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. ALL CONCRETE EDGING AND JOINTING SHALL CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

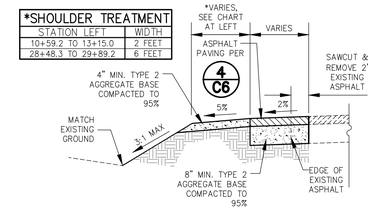
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			P.C.C. JOINTING DETAILS	DRAWING NO. C-5.1.1 (312)
APPROVED BY:		7/09		DATE 7/2009



SIDEWALK SECTION
EAST 5TH STREET, SOUTH SIDE
NOT TO SCALE

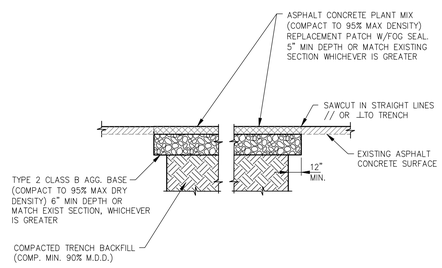
A C6

*SHOULDER TREATMENT	
STATION LEFT	WIDTH
10+59.2 TO 13+15.0	2 FEET
28+48.3 TO 29+89.2	6 FEET



PAVEMENT SECTION
EAST 5TH STREET, NORTH SIDE
NOT TO SCALE

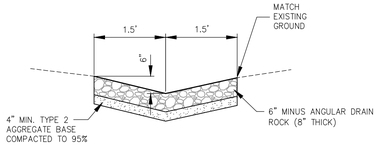
B C6



NOTES:

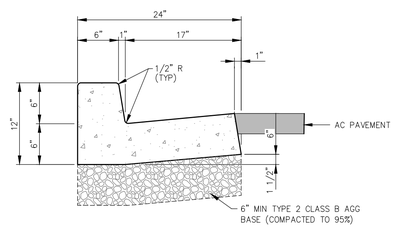
1. IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
2. BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS.
4. FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
5. PLANTMIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.
6. PLANTMIX BITUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
7. PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
1	5" AC DEPTH	09/11	**PAVEMENT PATCH**	DRAWING NO. C-5.1.6
APPROVED BY:		09/11		DATE 7/2009



ROCK LINED DRAINAGE SWALE
NOT TO SCALE

1 C6

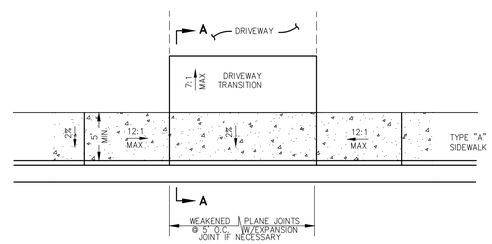


NOTES:

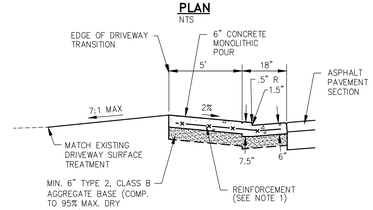
1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL CONCRETE CURB & GUTTER SHALL HAVE 1/2 INCH EXPANSION JOINTS EVERY 30 FEET (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
3. ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS.

PCC CURB & GUTTER TYPE 1
NOT TO SCALE

2 C6



PLAN
NTS



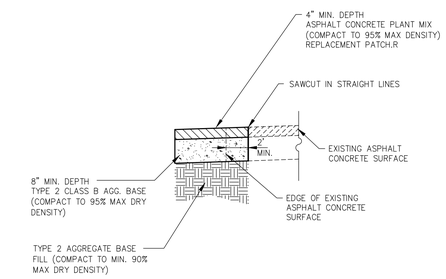
SECTION A–A
NTS

NOTES:

1. DRIVEWAY TO HAVE 6 INCH X 6 INCH 10/10 WIRE MESH EXTENDED INTO GUTTER PAN.
2. DRIVEWAY LANDING, SIDEWALK, CURB & GUTTER TO BE MONOLITHIC POUR TO A.C. LINE.
3. DRIVEWAY APRONS SHALL BE CONSTRUCTED IN COMPLIANCE WITH STANDARD DETAILS C-5.1.1 AND C-5.2.1.

PCC DRIVEWAY APRON TYPE 1
NOT TO SCALE

3 C6



NOTES:

1. BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS.
3. FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
4. PLANTMIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.

PAVEMENT WIDENING
NOT TO SCALE

4 C6

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 DETAILS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/23/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

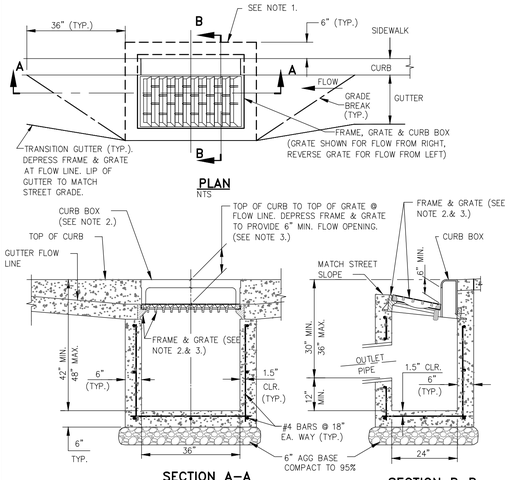
CONSTRUCTION DETAILS

SHEET C6 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

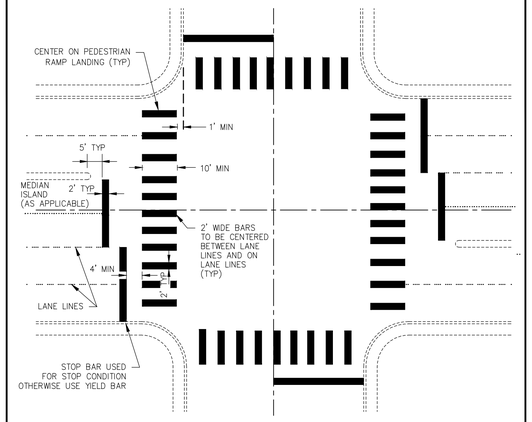
H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWGS\3-1203 Details.dwg 7/23/13



NOTES:

1. IF NO SIDEWALK IS PRESENT, POUR 6 INCH CONCRETE CURB STRUCTURE BEHIND GRATE AND TIE BEAM INTO BOX.
2. FRAME SHALL BE NEENAH R–3295 OR R–3067 SINGLE CURB UNIT WITH COMPLIANT TYPE L "VANE GRATE" AND CURB BOX, SOUTH BAY FOUNDRY VANE GRATE SOUTH BAY FOUNDRY 1947 OR APPROVED EQUAL, INSTALLED WITH PROPER FLOW DIRECTION.
3. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6 INCH MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B–B).
4. CATCH BASIN TO BE INSTALLED OUTSIDE OF WALKING PATH. IF IT IS NOT POSSIBLE TO LOCATE CATCH BASIN OUTSIDE OF WALKING PATH THEN AN ADA COMPLIANT NEENAH MODEL DR/OL GRATE, SOUTH BAY FOUNDRY 1947–ADA OR APPROVED EQUAL SHALL BE USED UPON APPROVAL BY CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			CATCH BASIN TYPE 4–R	DRAWING NO. C–4.1.5
APPROVED BY:		7/09		DATE 7/2009

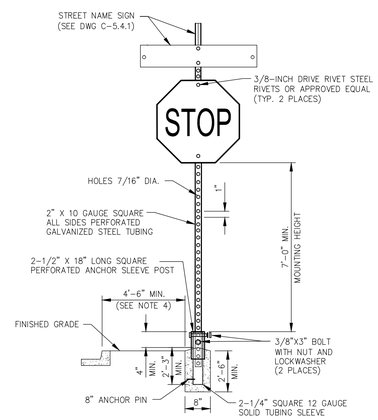


TYPICAL CROSSWALK STRIPING DETAIL

NOTES:

1. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
3. CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL TRAFFIC SIGNAL LOCATIONS AND AT OTHER LOCATIONS AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

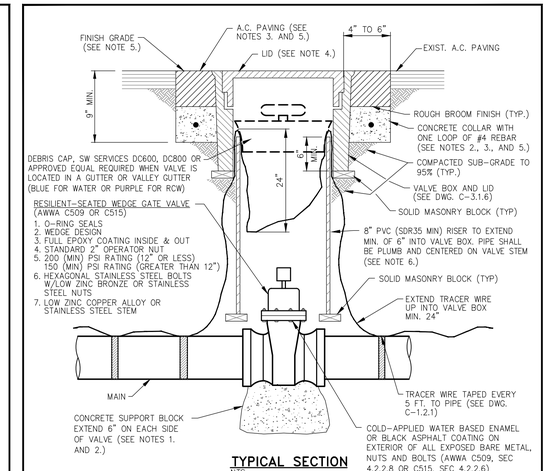
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			CROSSWALK LEGEND	DRAWING NO. C–5.4.3
APPROVED BY:		7/09		DATE 7/2009



NOTES:

1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING NO. C–5.4.1
3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6 FEET MINIMUM FROM PAVEMENT EDGE.
4. CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
5. ALL REGULATORY SIGNS SHALL USE ASTM TYPE 3 OR 4 INTENSITY SHEETING.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			TRAFFIC SIGN INSTALLATION	DRAWING NO. C–5.4.2
APPROVED BY:		7/09		DATE 7/2009

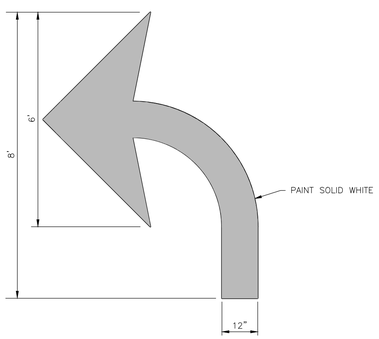


TYPICAL SECTION
NTS

NOTES:

1. SUPPORT BLOCKING SHALL BE POURED AGAINST UNDISTURBED SOIL AND NOT PREVENT ACCESS TO BOLT ASSEMBLY OR VALVE JOINTS.
2. CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS.
3. THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES – 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 PG 64–22 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO THE SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
4. LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
5. WHEN LOCATED IN NDOT RIGHT–OF–WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R–4.3.3 AND STANDARD SPECIFICATION 609.
6. RISER COLOR SHALL BE BLUE, OR SAME COLOR AS MAIN FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS, AND GREEN FOR SANITARY SEWER APPLICATIONS.
7. VALVES ON FIRE LINES SHALL BE UL/FM APPROVED AND MEET ALL APPLICABLE NFPA REQUIREMENTS.

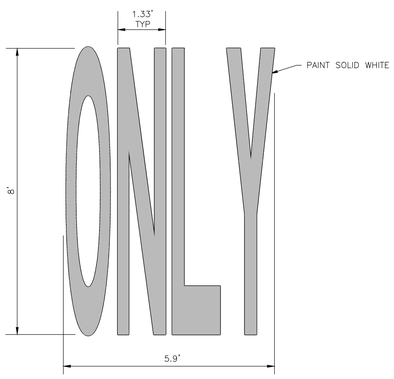
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION CARSON CITY
			GATE VALVE	DRAWING NO. C–3.1.4 (203,307)
APPROVED BY:		07/09		DATE 7/2009



TURN ARROW PAVEMENT LEGEND (1 / C7)
NOT TO SCALE

NOTES:

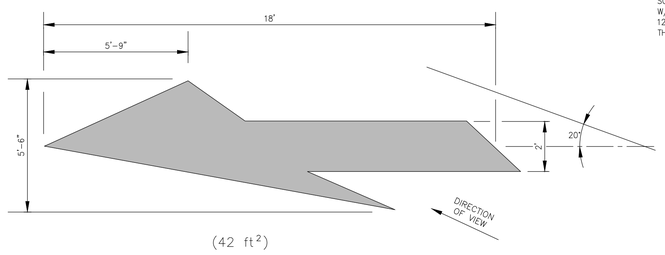
1. ALL PAVEMENT MARKINGS WITHIN THE NDOT RIGHT–OF–WAY SHALL BE HOT INLAYED DURING OPEN GRADE PLACEMENT.
2. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, 2009 EDITION.
3. ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY STREETS DEPARTMENT SPECIFICATIONS.
4. ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



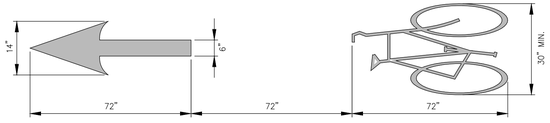
"ONLY' PAVEMENT LEGEND (2 / C7)
NOT TO SCALE

NOTES:

1. ALL PAVEMENT MARKINGS WITHIN THE NDOT RIGHT–OF–WAY SHALL BE HOT INLAYED DURING OPEN GRADE PLACEMENT.
2. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, 2009 EDITION.
3. ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY STREETS DEPARTMENT SPECIFICATIONS.
4. ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



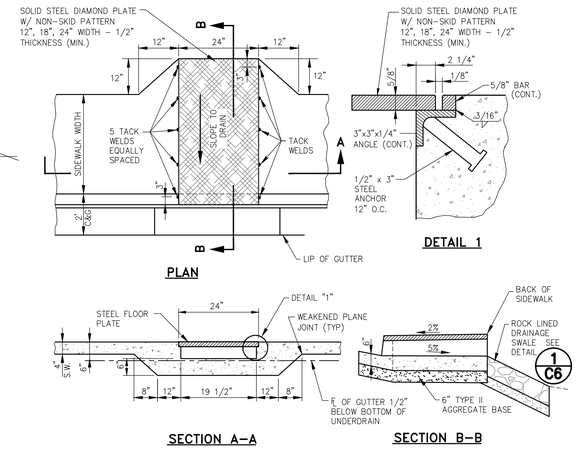
MERGE ARROW LEGEND (3 / C7)
NOT TO SCALE



NOTES:

1. ALL PAVEMENT MARKINGS WITHIN THE NDOT RIGHT–OF–WAY SHALL BE HOT INLAYED DURING OPEN GRADE PLACEMENT.
2. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, 2009 EDITION.
3. ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY STREETS DEPARTMENT SPECIFICATIONS.
4. ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

BICYCLE WITH ARROW LEGEND (4 / C7)
NOT TO SCALE



NOTES:

1. IF WIDTH OF PLATE IS GREATER THAN 24 INCHES, A SPECIAL DESIGN IS REQUIRED.
2. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL).
3. SHARP EDGES SHALL BE GROUND OFF AND PAINTED.
4. FIBER–REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
5. BASE BENEATH CONCRETE DRAIN SUPPORT STRUCTURE SHALL BE 6 INCH MIN. TYPE 2, CLASS B AGGREGATE BASE, COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY.

SIDEWALK CROSS DRAIN WITH ROCK LINED DRAINAGE SWALE (5 / C7)
NOT TO SCALE

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3–1203 DETAILS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/23/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887–2355 FAX: 887–2112

PROFESSIONAL ENGINEER – STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

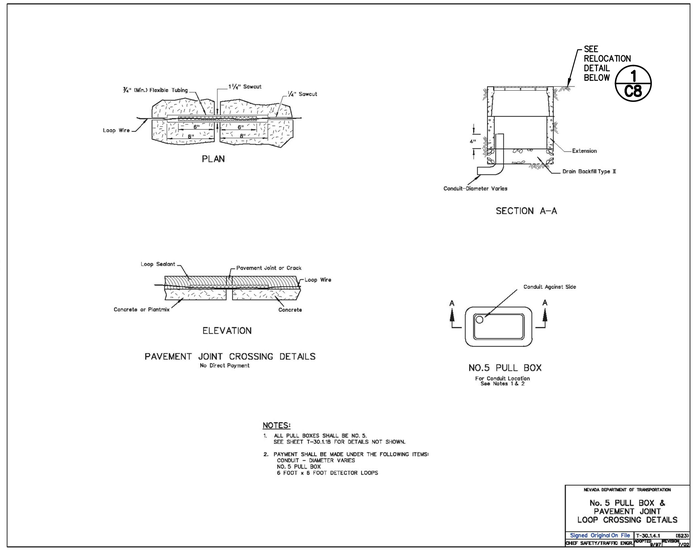
CONSTRUCTION DETAILS

SHEET C7 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

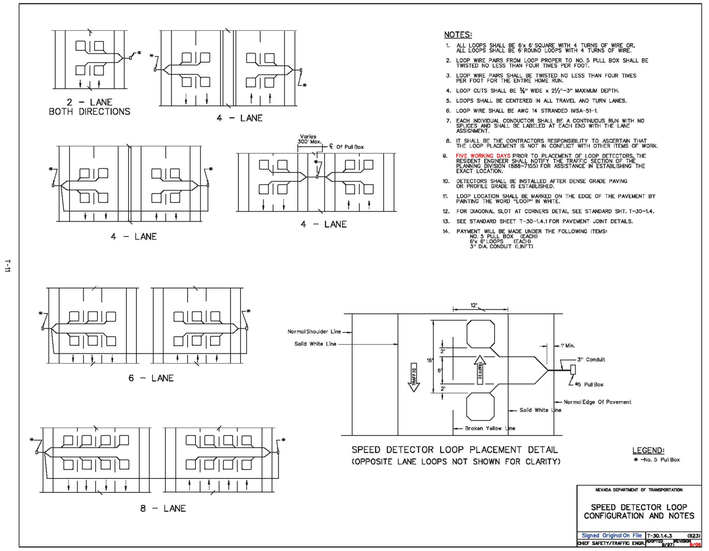
H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 Details.dwg 7/23/13



NDOT PULL BOX

DETAIL T-30.1.4.1

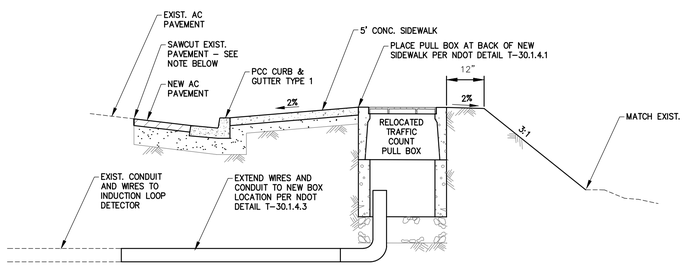
NOT TO SCALE



NDOT LOOP DETECTOR

DETAIL T-30.1.4.3

NOT TO SCALE



NOTE:
PRIOR TO SAWCUTTING OF ASPHALT NEXT TO THE EXISTING TRAFFIC COUNT PULL BOX, CONTACT REESE RIGSBY AT NEVADA DEPARTMENT OF TRANSPORTATION, 775-721-5572. NDOT WILL SPLICE THE WIRES AND PROVIDE ADDITIONAL WIRING TO FINAL LOCATION OF BOX. MOVE TRAFFIC COUNT BOX PER NDOT DETAILS T-30.1.4.1 AND T-30.1.4.3. SHOWN ABOVE TO THE LOCATION SHOWN ON PLANS. FAILURE TO NOTIFY NDOT PRIOR TO ANY SAWCUTTING ACTIVITIES WILL RESULT IN FULL REPLACEMENT OF INDUCTION LOOP ACROSS EAST FIFTH STREET AND WILL BE AT THE CONTRACTOR'S EXPENSE.

NDOT PULL BOX RELOCATION DETAIL (1 / C8)

NOT TO SCALE

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DGR/JS
DWG NO.: 3-1203 DETAILS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/23/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

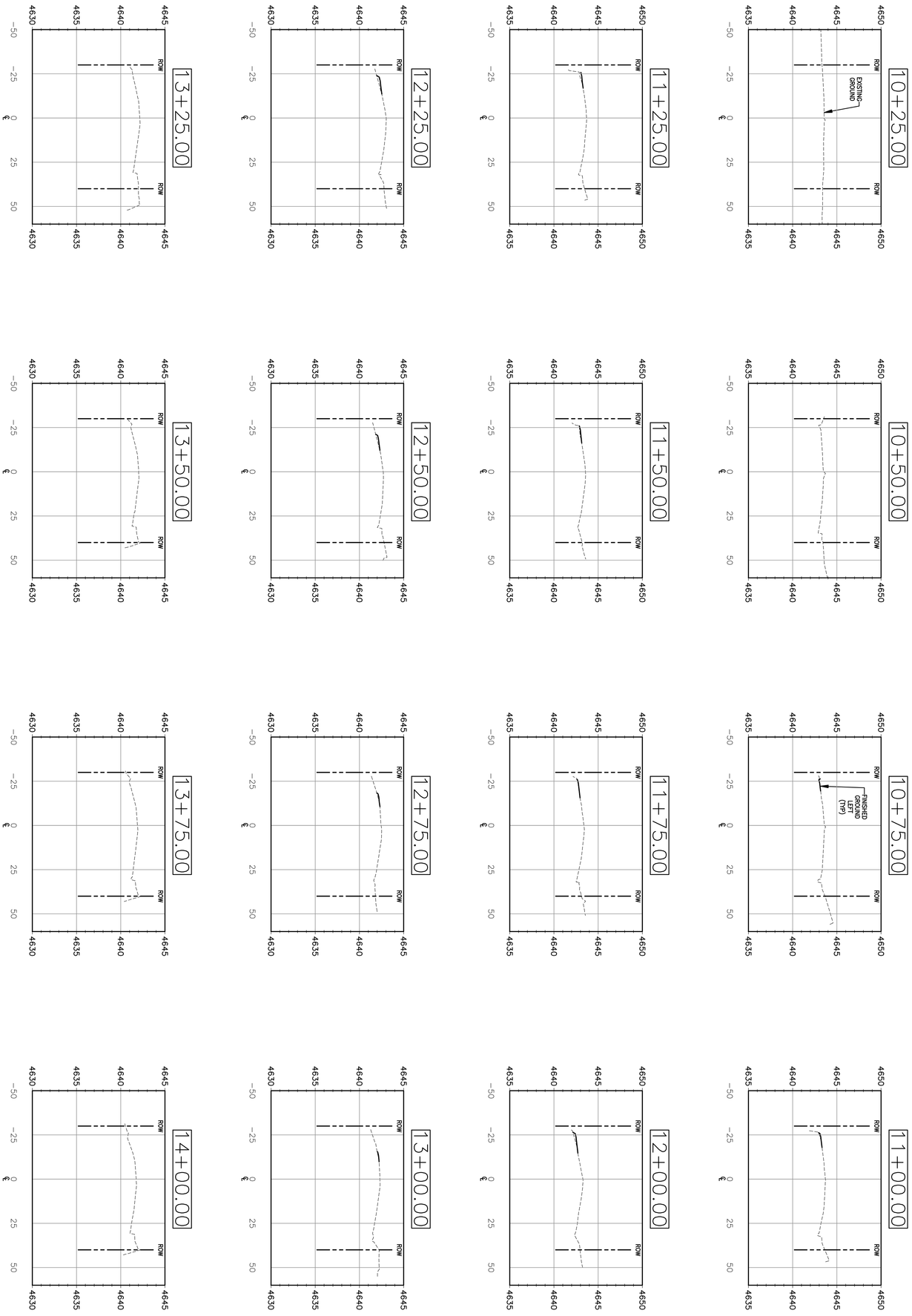
CONSTRUCTION DETAILS

SHEET C8 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWGS\3-1203 Details.dwg 7/23/13



SHEET C9 OF 18	EAST FIFTH STREET BIKE & PEDESTRIAN IMPROVEMENTS PROJECT ROADWAY CROSS SECTIONS STA 10+25 TO 14+00	REV. / DATE / DESCRIPTION / BY / APP'D	PROFESSIONAL ENGINEER STATE OF NEVADA JEFFERY A. SHARP CIVIL No. 07767 Exp. 6/30/14 7/18/13	CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 887-2355 FAX: 887-2112	DESIGNED BY: DLO/JS DRAWN BY: DLO CHECKED BY: DR/JS DWG NO.: 3-1203 X-SECTIONS.DWG SCALE (HORIZ): N/A SCALE (VERT: N/A DATE: 7/18/13

FOR BIDDING PURPOSES ONLY - 100% PLANS **FEDERAL PROJECT NUMBER: MS-0025(023)** **NDOT PROJECT NUMBER: 73757**

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DR/JS
DWG NO.: 1-1203 X-SECTIONS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

ROADWAY CROSS SECTIONS
STA 14+25 TO 18+00

SHEET
C10
OF
18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\1203 E 5TH BIKE LANES\DWG\1-1203 X-Sections.dwg 7/18/13

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DR/JS
DWG NO.: 3-1203 X-SECTIONS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

ROADWAY CROSS SECTIONS
STA 18+25 TO 22+00

SHEET
C11
OF
18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 X-Sections.dwg, 7/18/13

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DR/JS
DWG NO.: 3-1203 X-SECTIONS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

ROADWAY CROSS SECTIONS
STA 22+25 TO 26+00

SHEET C12 OF 18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 X-Sections.dwg, 7/18/13

DESIGNED BY: DLO/JS
DRAWN BY: DLO
CHECKED BY: DR/JS
DWG NO.: 3-1203 X-SECTIONS.DWG
SCALE (HORIZ): N/A
SCALE (VERT): N/A
DATE: 7/18/13

CARSON CITY
PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY CARSON CITY, NEVADA 89701
PH: 887-2355 FAX: 887-2112

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFERY A. SHARP
Exp: 6/30/14
CIVIL
No.017677
7/18/13

REV.	DATE	DESCRIPTION	BY	APP'D

EAST FIFTH STREET
BIKE & PEDESTRIAN IMPROVEMENTS PROJECT

ROADWAY CROSS SECTIONS
STA 26+25 TO 30+00

SHEET
C13
OF
18

FEDERAL PROJECT NUMBER: MS-0025(023) NDOT PROJECT NUMBER: 73757

FOR BIDDING PURPOSES ONLY - 100% PLANS

H:\PROJECTS\3-1203 E 5TH BIKE LANES\DWG\3-1203 X-Sections.dwg 7/18/13